

Comparative Quantification of Mortality and Burden of Disease Attributable to Selected Risk Factors

Majid Ezzati, Stephen Vander Hoorn, Alan D. Lopez, Goodarz Danaei, Anthony Rodgers, Colin D. Mathers, and Christopher J. L. Murray

Detailed descriptions of the level and distribution of diseases and injuries and their causes are important inputs into strategies for improving population health. A substantial body of work has focused on quantifying causes of mortality and, more recently, the burden of disease (Murray and Lopez 1997; Preston, 1976; see also chapter 3 in this volume). Data on disease or injury outcomes alone, such as death or hospitalization, tend to focus on the need for curative or palliative services. Reliable and comparable analyses of risks to health are critical for preventing disease and injury. Investigators have frequently analyzed morbidity and mortality due to risk factors in the context of methodological traditions of individual risk factors and for selected populations (Kunzli and others 2000; Leigh and others 1999; McGinnis and Foege 1993; Peto and others 1992; Single and others 1999; Smith 2000; Smith, Corvalan, and Kjellstrom 1999; Willet 2002). As a result, most estimates have been affected by the following shortcomings, which limit comparability:

- The causal attribution of morbidity and mortality due to risk factors has been estimated relative to arbitrary exposure levels without standardizing baseline exposure

across risk factors. For example, the implicit baseline for the burden of injuries attributable to occupational factors has been “no work,” because estimates have been based on occupational registries intended to register all injuries, regardless of whether they are avoidable (Leigh and others 1999).

- The intermediate stages and interactions in the causal process have not been considered when calculating the disease burden attributable to risk factors. As a result, attributable burden could only be calculated for those risk factor and disease combinations for which epidemiological studies had been conducted.
- The outcomes of analyses have been morbidity or mortality from specific diseases without conversion to a standard unit, making comparisons among different diseases and/or risk factors difficult.

To permit the assessment of risk factors in a unified framework while acknowledging characteristics specific to individual risk factors, the Comparative Risk Assessment (CRA) project initiated a systematic evaluation of the changes in population health that would result from

modifying the population distribution of exposure to a risk factor or to a group of risk factors (Murray and others 2003; Murray and Lopez 1999; Ezzati and others 2004). In particular, the CRA framework

- compares the burden of disease due to the observed distribution of exposure in a population with the burden from an alternative distribution consistently defined across risk factors;
- considers multiple stages in the causal network of multiple risk factors and disease outcomes to allow inferences about combinations of risk factors for which epidemiological studies have not been conducted, including the joint effects of changes in multiple risk factors;
- converts the burden of disease and injury into a summary measure of population health that permits comparing fatal and nonfatal outcomes while also taking severity and duration into account (the summary measure used in this chapter is the disability-adjusted life year [DALY], whose definition and calculation are described in chapter 3).

Therefore, even though CRA is similar to other risk assessment exercises in the sense that it applies knowledge about the hazardous effects of risk factors from epidemiological research to data on exposure in the broader population, it creates conceptual and methodological consistency in measuring the impacts of various risk factors on population health. Furthermore, we have attempted to use consistent and comparable criteria for evaluating the scientific evidence on prevalence, causality, and magnitude of hazardous effects across risk factors. As a result, the unified framework for describing population exposure to risk factors and their consequences for population health is an important step in linking the growing interest in the causal determinants of health across a variety of disciplines from natural, physical, and medical sciences to the social sciences and humanities.

We note that risk assessment as defined here is distinct from intervention analysis, whose purpose is to estimate the benefits of a given intervention or group of interventions in a specific population at a particular time. Rather, risk assessment aims at mapping alternative population health scenarios that arise from changes in the distribution of exposure to risk factors, irrespective of whether exposure change is achievable using existing interventions. The alternative visions of population health in turn contribute to identifying those risk factors for which effective or cost-effective interventions should be implemented or new interventions should be developed.

BURDEN OF DISEASE ATTRIBUTABLE TO RISK FACTORS

Mathers and others (2002) describe two traditions for the causal attribution of health outcomes or states: categorical attribution and counterfactual analysis. In categorical attribution, an event such as death is attributed to a single cause, such as a disease or a risk factor, or to a group of causes, according to a defined set of rules such as the International Classification of Diseases (ICD) system (WHO 1992). In counterfactual analysis, the effects of one or a group of diseases or risk factors is estimated by comparing the current or future disease burden with the levels that would be expected under some alternative hypothetical scenario, referred to as the counterfactual, including the absence of or reduction in the diseases or risk factors of interest (see Maldonado and Greenland 2002 for a discussion of the conceptual and methodological issues involved in the use of counterfactuals). In theory, causal attribution of the burden of disease to risk factors can be done using both categorical and counterfactual approaches. For example, researchers have used categorical attribution for attributing diseases and injuries to occupational risk factors in occupational health registries (Leigh and others 1999) and motor vehicle accidents to alcohol use. However, categorical attribution to risk factors overlooks that many diseases have multiple causes (Rothman 1976).

The CRA estimates of the burden of disease and injuries due to risk factors are based on a counterfactual exposure distribution that would result in the lowest population risk, irrespective of whether currently attainable in practice, referred to as the theoretical-minimum-risk exposure distribution (Murray and Lopez 1999). Using the theoretical-minimum-risk exposure distribution as the counterfactual has the advantage of providing an indication of potential gains in population health from reducing the risk from all levels of suboptimal exposure in a consistent way across risk factors.

RISK FACTOR SELECTION

The CRA project included a selected group of risk factors, presented in table 4.1. The criteria for selecting risk factors included the following:

- they were likely to be among the leading causes of the disease burden globally or regionally;
- they were not too specific, for example, every one of the hundreds of air pollutants or fruits and vegetables, or too

Table 4.1 CRA Risk Factors, Exposure Variables, Theoretical-Minimum-Risk Exposure Distributions, and Disease Outcomes

Risk factor	Exposure variable	Theoretical-minimum-risk exposure distribution	Disease outcomes ^a
<i>Childhood and maternal undernutrition</i>			
Childhood underweight	Children < −1 SD weight-for-age compared to the international reference group in 1 SD increments	Same proportion of children below −1 SD weight-for-age as the international reference group	Mortality and acute morbidity from diarrhea, malaria, measles, pneumonia, and selected other Group I (communicable, maternal, perinatal, and nutritional) diseases; <i>long-term risks of undernutrition</i>
Iron-deficiency anemia	Hemoglobin concentration distribution, estimated from prevalence of anemia	Hemoglobin distributions that are estimated to occur if all iron deficiency were eliminated ^b	Anemia and its sequelae (including cognitive impairment), maternal and perinatal mortality
Vitamin A deficiency	Prevalence of vitamin A deficiency, estimated as low serum retinol concentrations (< 0.70 μmol/L) among children aged 0–4 years and among pregnant women (aged 15–44 years)	No vitamin A deficiency	Mortality due to diarrhea, measles, malaria, and miscellaneous infectious causes of disease (children under five), morbidity due to malaria (children under five), maternal mortality (pregnant women), vitamin A deficiency and its sequelae (all age groups); <i>maternal morbidity, low birthweight, and other perinatal conditions</i>
Zinc deficiency	Less than the U.S. recommended dietary allowances for zinc	The entire population consuming sufficient dietary zinc to meet physiological needs, taking into account routine and illness-related losses and bioavailability	Diarrhea, pneumonia, malaria; <i>adult and pregnancy outcomes</i>
<i>Other nutrition-related risk factors and physical activity</i>			
High blood pressure	Usual level of systolic blood pressure	115 SD 6 mmHg	IHD, stroke, hypertensive disease, and selected other cardiovascular diseases; <i>renal failure</i>
High cholesterol	Usual level of total blood cholesterol	3.8 SD 0.6 mmol/L	IHD, stroke; <i>other cardiovascular diseases</i>
Overweight and obesity (high BMI)	BMI (height/weight squared)	21 SD 1 kg/m ²	IHD, stroke, hypertensive disease, diabetes, osteoarthritis, endometrial and colon cancers, postmenopausal breast cancer; <i>gallbladder cancer, kidney cancer, breathlessness, back pain, dermatitis, menstrual disorders and infertility, gallstones, psychological effects</i>
Low fruit and vegetable intake	Daily fruit and vegetable intake	600 SD 50 g intake per day for adults	IHD, stroke, colorectal cancer, gastric cancer, lung cancer, esophageal cancer
Physical inactivity	Three categories of inactive, insufficiently active (< 2.5 hours per week of moderate-intensity activity, or less than 4,000 KJ/week), and sufficiently active. Activity in discretionary-time, work, and transport considered	All having at least 2.5 hours per week of moderate-intensity activity or equivalent (4,000 KJ/week)	IHD, breast cancer, colorectal cancer, diabetes; <i>falls and osteoporosis, osteoarthritis, lower back pain, prostate cancer</i>
<i>Addictive substances</i>			
Smoking	Current levels of smoking impact ratio (indirect indicator of accumulated smoking risk based on excess lung cancer mortality)	No smoking	Lung cancer, upper aerodigestive cancer, stomach cancer, liver cancer, pancreas cancer, cervix uteri cancer, bladder cancer, leukemia, COPD, other respiratory diseases, IHD, stroke, selected other cardiovascular diseases except hypertensive heart disease, and selected other medical causes in adults over 30 years of age; <i>fire injuries, maternal outcomes, and perinatal conditions^c</i>
Alcohol use	Current alcohol consumption volumes and patterns	No alcohol use ^d	IHD, stroke, hypertensive disease, diabetes, liver cancer, mouth and oropharynx cancer, breast cancer, esophageal cancer, selected other cancers, cirrhosis of the liver, epilepsy, alcohol use disorders, depression, intentional and unintentional injuries; <i>selected other cardiovascular diseases and cancers, social consequences</i>

(Continues on the following page.)

Table 4.1 Continued

Risk factor	Exposure variable	Theoretical-minimum-risk exposure distribution	Disease outcomes ^a
Illicit drug use	Use of amphetamine, cocaine, heroin, or other opioids, and intravenous drug use	No illicit drug use	HIV/AIDS, overdose, drug use disorder, suicide, and trauma; <i>other neuropsychological diseases, social consequences, hepatitis B and hepatitis C</i>
<i>Sexual and reproductive health</i>			
Unsafe sex	Sex with an infected partner without any measures to prevent infection	No unsafe sex	HIV/AIDS, sexually transmitted infections, and cervical cancer
Non-use and use of ineffective methods of contraception	Prevalence of traditional methods or non-use of contraception	Use of modern contraceptives for all women who want to space or limit future pregnancies	Maternal mortality and morbidity; <i>increased perinatal and child mortality with lower birth intervals</i>
<i>Environmental risks</i>			
Unsafe water, sanitation, and hygiene	Six scenarios, ranging from regulated water and sanitation with hygiene to no improved water supply and no improved sanitation	Absence of transmission of diarrheal disease through water, sanitation, and hygiene	Diarrheal diseases
Urban air pollution	Estimated annual average particulate matter concentration for particles with aerodynamic diameters less than 2.5 or 10 microns (PM _{2.5} or PM ₁₀)	7.5 µg/m ³ for PM _{2.5} 15 µg/m ³ for PM ₁₀	Mortality from combined respiratory and selected cardiovascular causes in adults over 30, lung cancer, acute respiratory infection mortality in children under five; <i>cardiovascular and respiratory morbidity</i>
Indoor smoke from household use of solid fuels	Household use of solid fuels and ventilation	No household solid fuel use	Acute lower respiratory infections in children under five, COPD, lung cancer (coal); ^e <i>low birthweight, cataracts, tuberculosis, asthma, lung cancer from biomass</i>
<i>Other selected risks</i>			
Contaminated injections in health care settings	Exposure to at least one contaminated injection	No contaminated injections	Acute infection with hepatitis B virus (HBV), hepatitis C virus (HCV), and HIV, cirrhosis and liver cancer
Child sexual abuse	Prevalence of noncontact abuse, contact abuse, and intercourse	No abuse	Depression, panic disorder, alcohol abuse/dependence, drug abuse/dependence, post-traumatic stress disorder and suicide in adulthood; <i>non-mental health outcomes, such as sexually transmitted diseases, unwanted pregnancies, and injuries</i>

Sources: Table 1 in Ezzati and others 2002, and individual risk factor chapters in Ezzati and others 2004 for data sources.

Note: BMI = body mass index, COPD = chronic obstructive pulmonary disease, IHD = ischemic heart disease, KJ = kilo joules, SD = standard deviation. New disease outcomes are used here when more recent epidemiological analyses enabled improvements over those of the CRA project (for example, multiple cancer sites assessed separately, versus grouped together, for smoking). Several risk factors (lead exposure, global climate change, and selected occupational risks) were included in the CRA project but not in the current analysis because of conceptual and empirical difficulties in converting estimates of exposure and/or hazards from the GBD analysis subregions to the World Bank regions.

a. Outcomes in italic are those that are likely to be causal but not quantified due to lack of sufficient evidence on the magnitude of hazardous effect.

b. The resulting hemoglobin levels vary across regions and age-sex groups because the other risks for anemia (for example, malaria) vary.

c. In estimating years of life lost because of disability (YLD) due to smoking in the CRA project (Ezzati and Lopez 2004), population attributable fractions (PAFs) for disease incidence were assumed to be the same as PAFs for mortality for cancers and COPD, and one-half of PAFs for mortality for all other diseases. In the current analysis, PAFs for disease incidence were assumed to be the same as those for mortality for cancers, COPD, and cardiovascular diseases—for which smoking is expected to increase mortality through increasing incidence—and zero for all other diseases. The estimated total disease burden from smoking is robust to assumptions about the effects of smoking on incidence of diseases other than major chronic diseases (cancers, COPD, and cardiovascular diseases).

d. The theoretical-minimum-risk exposure level for alcohol is zero, the global theoretical minimum. Specific population subgroups or diseases may have a non-zero theoretical-minimum-risk exposure (see figure 4.2) (Rehm and others 2004).

e. In the CRA project, PAFs for indoor smoke from household use of solid fuels were applied to COPD and lung cancer mortality and disease burden after subtracting the smoking-attributable burden (Smith, Mehta, and Maeusezahl-Feuz 2004). This overlooks multi-causality of COPD and lung cancer, which is also illustrated empirically in the analysis of the hazards of smoking in China (Liu and others 1998). Therefore, we applied PAFs to total mortality from COPD and lung cancer.

- broad, such as the environment or diet taken as a single exposure;
- the likelihood of causality was high based on collective scientific knowledge;
- reasonably complete data on exposure and risk levels were available or sufficient data were available to extrapolate information when necessary;
- they were potentially modifiable.

The risks to health examined in the CRA project cover many of the important hazards to health addressed in various fields of scientific inquiry. Arguably, hundreds of risk exposures are harmful to health. We selected only a relatively small number of exposures for quantification, largely determined by the availability of data and scientific research about their level and health effects in different parts of the world.

We also had to make choices about the definition of each risk factor. Given the close interrelationships among diet, exercise, and physiological risks on the one hand, or among water, sanitation, and personal hygiene on the other, the exact definition of what a risk factor is requires careful attention. The absence of a particular risk factor like dietary fat intake from table 4.1 does not imply that it is of limited relevance. Similarly, the assessment of unsafe sex separately from that of non-use and use of ineffective methods of contraception does not override their close linkages. Rather, we focused the analysis on risk factors for which we were likely to be able to satisfactorily quantify their population exposure distributions and health effects using existing scientific evidence and available data and for which intervention strategies are available or might be envisioned.

Estimating Population Attributable Fractions

The contribution of a risk factor to disease or mortality is expressed as the fraction of disease or death attributable to the risk factor in a population and is referred to as the population attributable fraction (PAF), and is given by the generalized potential impact fraction in equation 4.1 (Eide and Heuch 2001; Walter 1980).

$$PAF = \frac{\int_{x=0}^m RR(x)P(x)dx - \int_{x=0}^m RR(x)P'(x)dx}{\int_{x=0}^m RR(x)P(x)dx}, \quad (4.1a)$$

where $RR(x)$ is the relative risk at exposure level x , $P(x)$ is the population distribution of exposure, $P'(x)$ is the counterfactual distribution of exposure, and m is the maximum exposure level.

The corresponding relationship when exposure is described as a discrete variable with n levels is given by

$$PAF = \frac{\sum_{i=1}^n P_i RR_i - \sum_{i=1}^n P'_i RR_i}{\sum_{i=1}^n P_i RR_i}. \quad (4.1b)$$

PAFs obtained in this way estimate the proportional reduction in disease or death that would occur if exposure

to the risk factor were reduced to the counterfactual distribution. The alternative (counterfactual) scenario used is the exposure distribution that would result in the lowest population risk, referred to as the theoretical-minimum-risk exposure distribution (Ezzati and others 2002; Murray and Lopez 1999). For risk factors for which the assumption of constant relative risk was not appropriate, we estimated PAFs by accounting for the determinants of hazard heterogeneity. For example, the PAFs for injuries as a result of alcohol use accounted for alcohol drinking patterns (moderate versus binge).

Because most diseases are caused by multiple risk factors, PAFs for individual risk factors for the same disease overlap and can add to more than 100 percent (Murray and Lopez 1999; Rothman 1976). For example, some deaths from childhood pneumonia may have been avoided by preventing exposure to indoor smoke from household use of solid fuels, childhood underweight, and zinc deficiency (which itself affects weight-for-age); and some cardiovascular disease events may be due to a combination of smoking, physical inactivity, and low fruit and vegetable intake. Such cases would be attributed to all these risk factors.

Attributable Mortality and Burden of Disease

For each risk factor and disease pair, we calculated PAFs for each age and sex group, and in each region, using the relationships in equations 4.1a and 4.1b, separately for mortality (PAF_M) and incidence (PAF_I) when the relative risks for mortality and incidence were different. For each of these age, sex, and region groups, we obtained estimates of mortality (AM_{ij}) and the burden of disease (AB_{ij}) from disease j attributable to risk factor i as follows:

$$AM_{ij} = PAF_{M-ij} \times M_j, \quad (4.2a)$$

$$A-YLL_{ij} = PAF_{M-ij} \times YLL_j, \quad (4.2b)$$

$$A-YLD_{ij} = PAF_{I-ij} \times YLD_j, \quad (4.2c)$$

$$AB_{ij} = A-YLL_{ij} + A-YLD_{ij}, \quad (4.2d)$$

where YLL denotes years of life lost because of premature mortality and YLD denotes years of healthy life lost as a result of disability.

Data on Exposure and Hazard

Between 1999 and 2002, for each risk factor, an expert working group conducted a comprehensive review of the published

literature and other sources (government reports, international databases, and so on) to obtain data on the prevalence of risk factor exposure and hazard size (relative risk or absolute hazard size when appropriate, such as the effects of lead on blood pressure) (Ezzati and others 2004). The work included collecting primary data and undertaking a number of reanalyses of original data, systematic reviews, and meta-analyses. To increase comparability while acknowledging the fundamental differences in exposure and hazard quantification across risk factors, the criteria for using the scientific evidence included consistency of exposure variables used in exposure data sources with those used in epidemiological studies on hazard, population representativeness of exposure data, and study design for estimating the magnitude of hazardous effects (including minimizing the effects of confounders).

Data were initially presented separately for males and females and broken down into eight age groups (0–4, 5–14, 15–29, 30–44, 45–59, 60–69, 70–79, and 80 years old and older) and the 14 epidemiological subregions of the Global Burden of Disease (GBD) study (see chapter 3), which are based on a combination of World Health Organization regions and child and adult mortality levels, as described in the annexes of the annual *World Health Report 2002* (WHO 2002). Data sources, models, and assumptions used to extrapolate exposure or relative risk across countries or regions are described in detail in chapters devoted to individual risk factors elsewhere (Ezzati and others 2004). External reviewers anonymously peer reviewed each risk factor chapter, including conducting re-reviews as appropriate.

In this reanalysis, estimates of mortality and disease burden attributable to risk factors were needed in World Bank regions (see map 1 inside the front cover). For six risk factors (childhood underweight, high blood pressure, high cholesterol, overweight and obesity, smoking, and indoor smoke from household use of solid fuels), country-level data were available and allowed reestimating exposure directly for World Bank regions. In such cases, we used newly available data sources on exposure to update CRA project estimations. For seven risk factors (unsafe water, sanitation, and hygiene; zinc deficiency; vitamin A deficiency; iron deficiency anemia; physical inactivity; low fruit and vegetable intake; and child sexual abuse), we estimated exposure in World Bank regions from the 14 GBD subregions using population-weighted averages. For another five risk factors (unsafe sex, urban air pollution, illicit drug use, non-use and use of ineffective methods of contraception,

and contaminated injections in health care settings), where both exposure and hazards change across populations, we converted PAFs from GBD subregions to World Bank regions, with PAFs weighted by age-, sex-, and disease-specific mortality rates. The prevalence of alcohol use was converted from GBD subregions to World Bank regions and was used to estimate exposure and PAFs in World Bank regions for most disease outcomes, because relative risks did not vary across populations. For all injury outcomes, ischemic heart disease, depression, stroke, and diabetes, whose hazards varied across regions, PAFs were converted from GBD subregions to World Bank regions using mortality weighting.

Theoretical-Minimum-Risk Exposure Distributions

The theoretical-minimum-risk exposure distribution was zero for risk factors for which zero exposure could be defined and reflected minimum risk, such as no smoking. For some risk factors, zero exposure was an inappropriate choice, either because it is physiologically impossible, as in the case of body mass index (BMI) or high cholesterol, or because physical lower limits to exposure reduction exist, as for concentrations of ambient particulate matter. For the latter risk factors, we used the lowest levels observed in specific populations and epidemiological studies to choose the theoretical-minimum-risk exposure distribution. For example, counterfactual exposure distributions of 115 mmHg for systolic blood pressure and 3.8 mmol/L for total cholesterol, each with a small standard deviation, are the lowest levels at which meta-analyses of cohort studies have characterized dose-response relationships (Chen and others 1991; Eastern Stroke and Coronary Heart Disease Collaborative Research Group 1998; Law, Wald, and Thompson 1994).

Alcohol has benefits as well as causing harm for different diseases depending on the disease and on patterns of alcohol consumption (Corrao and others 2000; Puddey and others 1999). Rehm and others (2004) chose a counterfactual of zero for alcohol use. This was because despite its benefits for cardiovascular diseases in some populations, the global and regional burden of disease due to alcohol use was dominated by its impacts on neuropsychiatric diseases and injuries that are considerably larger than these benefits.

Finally, for factors with protective effects, namely, fruit and vegetable intake and physical activity, we chose a counterfactual exposure distribution based on a combination of levels observed in high-intake populations and the level to which the benefits may continue given current scientific

evidence. Table 4.1 reports the theoretical-minimum-risk exposure distributions for the risk factors.

BURDEN OF DISEASE ATTRIBUTABLE TO INDIVIDUAL RISK FACTORS

Detailed results by risk factor, disease outcome, age, sex, and region are provided in annex 4A. Figure 4.1 shows the contributions of the leading global risk factors to all-cause mortality and burden of disease. The different ordering of risk factors in their contributions to mortality and to the disease burden expressed in DALYs reflects the age profile of mortality, such as the higher contribution to the disease burden from mortality among children as a result of underweight, and of nonfatal outcomes, such as neuropsychiatric diseases caused by alcohol use.

The leading causes of mortality and the disease burden include risk factors for communicable, maternal, perinatal, and nutritional conditions (Group I as defined in chapter 3), such as undernutrition; indoor smoke from household use of solid fuels; unsafe water, sanitation, and hygiene, whose burden is primarily concentrated in low-income regions of South Asia and Sub-Saharan Africa; and unsafe sex. They also include risk factors for noncommunicable diseases and injuries (Groups II and III as defined in chapter 3), such as high blood pressure and cholesterol, smoking, alcohol use, and overweight and obesity, which affect most regions.

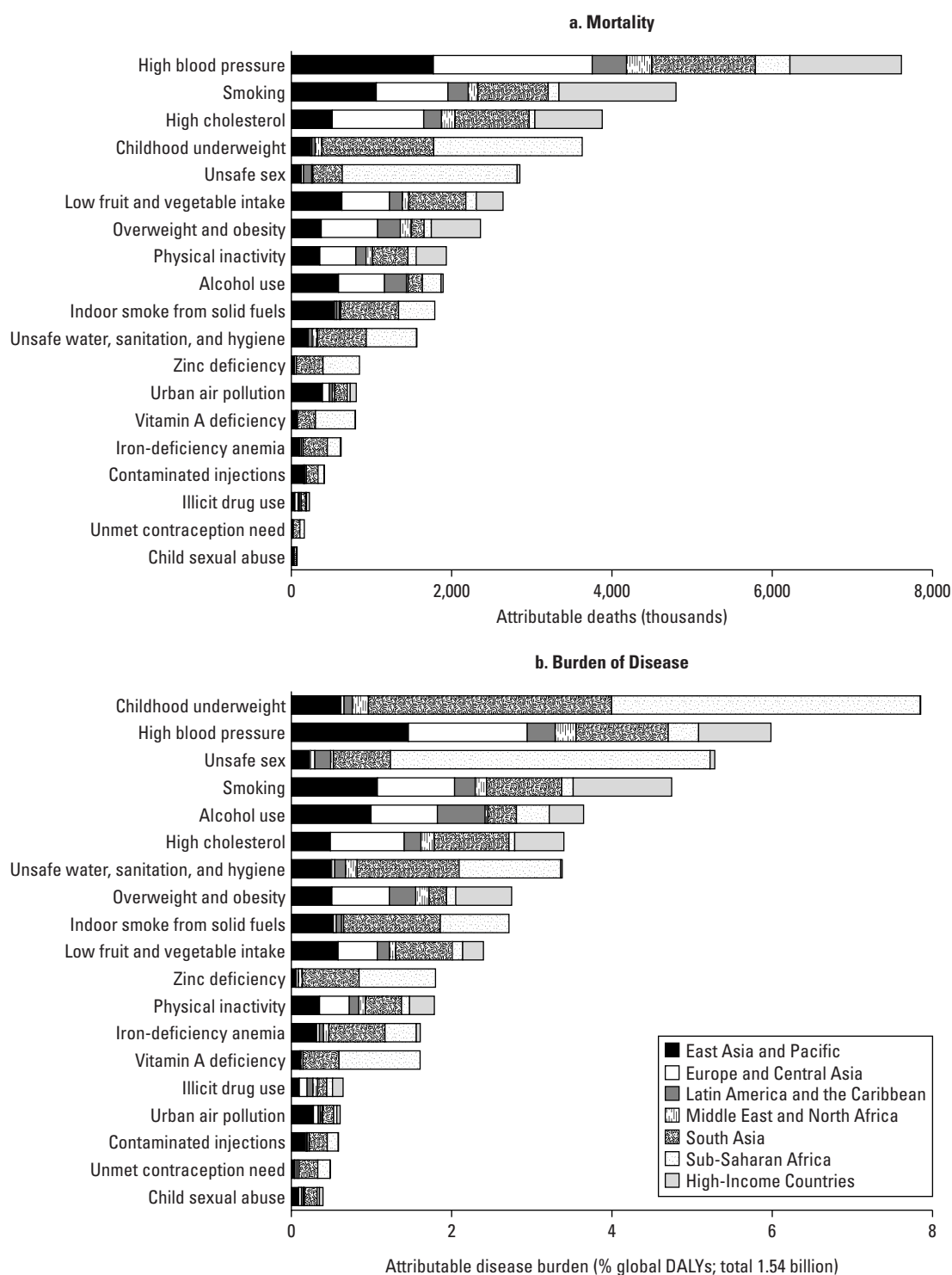
Undernutrition is the single leading global cause of health loss, as it was in 1990 (the 2001 results disaggregate undernutrition into underweight and micronutrient deficiencies). Even though the prevalence of underweight has decreased in most regions in the past decade, it has increased in Sub-Saharan Africa (de Onis, Frongilla, and Blossner 2000; de Onis and others 2004), where its effects are disproportionately large because of simultaneous exposure to other risk factors for childhood disease. Three-quarters of the burden of disease attributable to unsafe sex is also in Sub-Saharan Africa, primarily as a result of HIV/AIDS, followed by South Asia (13 percent). The burden of disease attributable to unsafe water, sanitation, and hygiene has declined since 1990, mostly because of a worldwide decline in mortality from diarrheal disease, which is partly a result of improved case management interventions, particularly oral rehydration therapy. The increase in the global burden of disease attributable to smoking since 1990 mostly reflects the increased accumulated hazards of this risk, which is most noticeable in developing countries, but the increase is

also partially due to methodological changes based on new evidence on the magnitude of the hazard after correction for confounding (Ezzati, Henley, Lopez, and others 2005; Ezzati, Henley, Thun, and others 2005; Ezzati and Lopez 2003; Thun, Apicella, and Henley 2000). The large increase in the burden of disease due to high blood pressure is likely to be an outcome of major methodological improvements, that is, relative risks that account for regression dilution bias and choice of theoretical-minimum-risk exposure distribution based on epidemiological evidence versus clinical definitions.

Table 4.2 shows the distributions of mortality and the disease burden attributable to the risk factors by age and sex. The disease burden attributable to underweight and micronutrient deficiencies in children was equally distributed among males and females, but the total all-age disease burden from iron and vitamin A deficiencies was slightly greater among females because of the effects on maternal mortality and morbidity conditions. Other diet-related risks, physical inactivity, environmental risks, and unsafe sex contributed almost equally to the disease burden in males and females. Approximately 77 to 86 percent of the disease burden from addictive substances occurred among men, reflecting the social and economic forces that have so far made addictive substances more widely used by men, especially in developing countries. Women suffered an estimated two-thirds of the disease burden from child sexual abuse and all of the burden caused by non-use and use of ineffective methods of contraception.

The estimated disease burdens from childhood undernutrition and unsafe water, sanitation, and hygiene were almost exclusively among children under five years of age. For these risks, more than 90 percent of the total attributable burden occurred in this age group, with the exception of iron deficiency, where adults bore more than 40 percent of burden, especially women of childbearing age. The disease burdens attributable to overweight and obesity and smoking were almost equally distributed among adults below and above the age of 60 years. The disease burdens attributable to other diet-related risks and physical inactivity were higher among those older than 60 (see also chapter 5).

More than 90 percent of the disease burden attributable to non-use and use of ineffective methods of contraception, illicit drug use, and child sexual abuse and more than 75 percent of the disease burden attributable to alcohol use and unsafe sex occurred in adults younger than 60. Most of the risks whose burden is concentrated among younger adults are those with outcomes that include HIV/AIDS,



Source: Authors' calculations.

Note: The figure shows estimated mortality and disease burden attributable to each risk factor considered individually, relative to its own theoretical minimum risk exposure distribution. These risks act in part through, or jointly with, other risks. Consequently, the burden due to groups of risk factors will usually be less than the sum of individual risks. "Unmet contraception need" refers to "Non-use and use of ineffective methods of contraception" in table 4.1.

Figure 4.1 Mortality and the Burden of Disease Attributable to Leading Global Risk Factors, by World Bank Region

Table 4.2 Distribution of Risk Factor-Attributable Mortality and Burden of Disease, by Age and Sex.

	Mortality					Disease burden						
	0-4	5-14	15-59	60+	Males	Females	0-4	5-14	15-59	60+	Males	Females
World												
Childhood and maternal undernutrition												
Childhood underweight	100	0	0	0	50	50	100	0	0	0	50	50
Iron-deficiency anemia	68	1	25	5	43	57	57	7	33	3	44	56
Vitamin A deficiency	93	0	7	0	47	53	94	0	6	0	47	53
Zinc deficiency	100	0	0	0	51	49	100	0	0	0	51	49
Other nutrition-related risk factors and physical inactivity												
High blood pressure	0	0	13	87	47	53	0	0	25	75	50	50
High cholesterol	0	0	23	77	48	52	0	0	40	60	52	48
Overweight and obesity (high BMI)	0	0	27	73	45	55	0	0	47	53	45	55
Low fruit and vegetable consumption	0	0	23	77	53	47	0	0	38	62	55	45
Physical inactivity	0	0	21	79	50	50	0	0	38	62	52	48
Addictive substances												
Smoking	0	0	31	69	76	24	0	0	50	50	77	23
Alcohol use	1	1	65	33	90	10	1	2	82	15	86	14
Illicit drugs use	0	0	99	1	79	21	0	1	98	0	77	23
Sexual and reproductive health												
Unsafe sex	14	4	75	8	48	52	17	4	76	3	47	53
Non-use and use of ineffective methods of contraception	0	0	100	0	0	100	0	0	100	0	0	100
Environmental risk factors												
Unsafe water, sanitation, and hygiene	90	0	3	7	52	48	91	2	5	2	52	48
Urban air pollution	3	0	16	81	52	48	7	0	28	65	53	47
Indoor smoke from household use of solid fuels	52	0	8	40	45	55	71	0	10	18	48	52
Other selected risk factors												
Contaminated injections in health care settings	12	3	52	32	63	37	17	5	60	18	60	40
Child sexual abuse	0	0	80	20	50	50	0	0	93	7	36	64
Low- and middle-income countries												
Childhood and maternal undernutrition												
Childhood underweight	100	0	0	0	50	50	100	0	0	0	50	50
Iron-deficiency anemia	69	1	26	4	43	57	59	7	32	3	44	56
Vitamin A deficiency	93	0	7	0	47	53	94	0	6	0	47	53
Zinc deficiency	100	0	0	0	51	49	100	0	0	0	51	49
Other nutrition-related risk factors and physical inactivity												
High blood pressure	0	0	14	86	47	53	0	0	26	74	49	51
High cholesterol	0	0	26	74	48	52	0	0	42	58	52	48
Overweight and obesity (high BMI)	0	0	30	70	44	56	0	0	49	51	43	57
Low fruit and vegetable consumption	0	0	24	76	53	47	0	0	39	61	54	46
Physical inactivity	0	0	23	77	50	50	0	0	39	61	51	49
Addictive substances												
Smoking	0	0	38	62	82	18	0	0	55	45	82	18
Alcohol use	1	1	59	39	84	16	1	2	79	17	84	16
Illicit drugs use	0	0	98	2	81	19	0	1	98	1	79	21

(Continues on the following page.)

Table 4.2 Continued

	Mortality					Disease burden							
	0-4	5-14	15-59	60+		Males	Females	0-4	5-14	15-59	60+	Males	Females
Low- and middle-income countries (continued)													
Sexual and reproductive health													
Unsafe sex	14	4	75	7		49	51	17	4	76	3	47	53
Non-use and use of ineffective methods of contraception	0	0	100	0		0	100	0	0	100	0	0	100
Environmental risk factors													
Unsafe water, sanitation, and hygiene	90	0	3	7		52	48	91	2	5	2	52	48
Urban air pollution	3	0	17	80		52	48	8	0	28	64	53	47
Indoor smoke from household use of solid fuels	52	0	8	40		45	55	71	0	10	18	48	52
Other selected risk factors													
Contaminated injections in health care settings	12	3	52	32		63	37	17	5	60	18	60	40
Child sexual abuse	100	0	0	0		50	50	100	0	0	0	50	50
High-income countries													
Childhood and maternal undernutrition													
Childhood underweight	100	0	0	0		55	45	100	0	0	0	51	49
Iron-deficiency anemia	13	1	5	82		36	64	9	5	66	20	39	61
Vitamin A deficiency	81	0	19	0		44	56	86	0	14	0	47	53
Zinc deficiency	100	0	0	0		55	45	100	0	0	0	52	48
Other nutrition-related risk factors and physical inactivity													
High blood pressure	0	0	7	93		45	55	0	0	18	82	52	48
High cholesterol	0	0	14	86		49	51	0	0	32	68	57	43
Overweight and obesity (high BMI)	0	0	18	82		49	51	0	0	40	60	50	50
Low fruit and vegetable consumption	0	0	16	84		56	44	0	0	33	67	61	39
Physical inactivity	0	0	14	86		50	50	0	0	32	68	54	46
Addictive substances													
Smoking	0	0	17	83		64	36	0	0	36	64	65	35
Alcohol use ^a	3	4	477	-384		531	-431	1	1	103	-5	96	4
Illicit drugs use	0	0	99	1		68	32	0	1	99	0	68	32
Sexual and reproductive health													
Unsafe sex	0	0	67	33		36	64	2	0	85	13	40	60
Non-use and use of ineffective methods of contraception	0	0	100	0		0	100	0	0	100	0	0	100
Environmental risk factors													
Unsafe water, sanitation, and hygiene	7	1	6	86		39	61	53	6	27	14	50	50
Urban air pollution	0	0	10	90		51	49	0	0	23	77	56	44
Indoor smoke from household use of solid fuels	2	0	8	90		39	61	2	0	56	41	31	69
Other selected risk factors													
Contaminated injections in health care settings	10	2	53	35		63	37	16	3	67	13	61	39
Child sexual abuse	0	0	81	22		48	52	0	0	96	4	36	64

Source: Authors' calculations.

Note: BMI = body mass index. Numbers show percentage of total death or disease burden in each age group or for each sex.

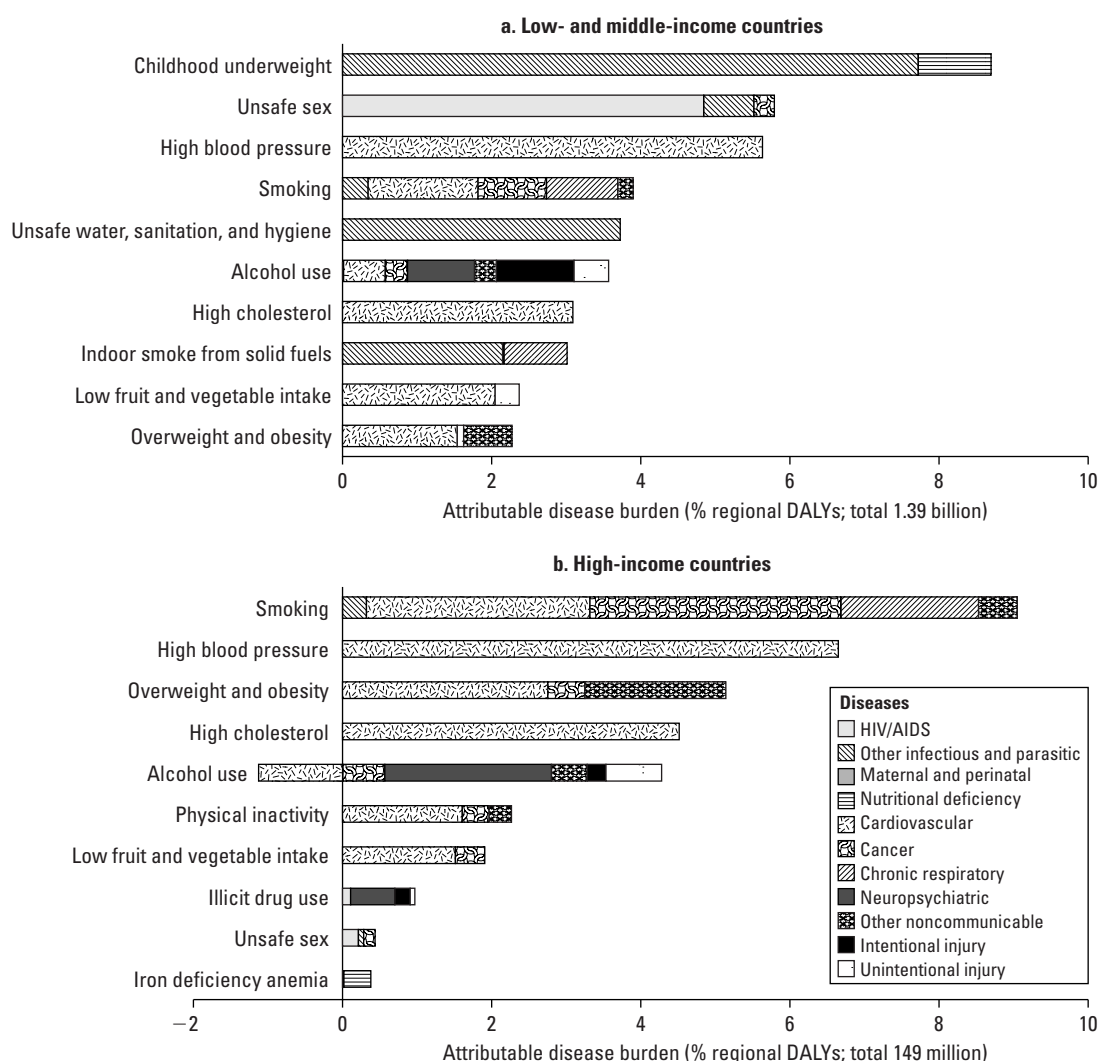
a. The figures are the ratio of deaths in each age group or for each sex to the total alcohol-attributable deaths and disease burden. Because the beneficial effects of alcohol are age dependent (more benefits for cardiovascular diseases in older ages) and because the benefit-harm ratio is larger for women than for men (smaller alcohol-attributable burden from injuries), the ratios in younger ages or for males are larger than 100 percent and those in older ages or for females are negative.

maternal conditions, neuropsychiatric diseases, and injuries. This illustrates the large, and at times neglected, disease burden from risks that affect young adults, especially in low- and middle-income countries, with important consequences for economic development.

Only a small fraction of the disease burden from the risk factors considered was among those aged 5 to 14 years. This was because some of the leading conditions that affect this age group, such as motor vehicle accidents and other injuries and depression, have complex and heterogeneous causes that could not easily be included in the risk-based framework

used. For other leading diseases of this group, such as diarrhea and lower respiratory infections, most epidemiological studies have focused on children younger than five and do not provide estimates of hazardous effects for older children.

Figure 4.2 presents the burden of disease due to the 10 leading risk factors for low- and middle-income countries and for high-income countries by disease or disease group. Leading causes of the burden of disease in low- and middle-income countries include the risk factors affecting the poor and associated with communicable, maternal, perinatal, and nutritional conditions (Group I)—such as childhood



Source: Authors' calculations.

Figure 4.2 Burden of Disease Attributable to 10 Leading Regional Risk Factors, by Disease Type

underweight (8.7 percent); unsafe water, sanitation, and hygiene (3.7 percent); indoor smoke from household use of solid fuels (3.0 percent); and unsafe sex (5.8 percent)—along with risk factors for noncommunicable diseases (Group II), including addictive substances, nutrition related risks, and physical inactivity.

The relative contribution of unsafe sex was disproportionately larger in Sub-Saharan Africa (17.8 percent) than in all other regions, because HIV/AIDS prevalence and mortality are higher in Sub-Saharan Africa than anywhere else. This makes unsafe sex a leading cause of the burden of disease in this region together with childhood underweight (17.1 percent). The outcomes of these two risk factors were mostly communicable, maternal, perinatal, and nutritional conditions, which dominate the disease burden in high-mortality developing regions.

In addition to their relative magnitude, the absolute loss of healthy life years attributed to risk factors in low- and middle-income regions is enormous. In these regions, which account for 85 percent of the global population, childhood underweight and unsafe sex alone contributed more to the loss of healthy life (200 million DALYs[3,0]) than all diseases and injuries in high-income countries (149 million DALYs[3,0]). In high-income countries, smoking (12.9 percent), high blood pressure (9.3 percent), overweight and obesity (7.2 percent), high cholesterol (6.3 percent), and alcohol use (4.4 percent) were the leading causes of loss of healthy life, contributing mainly to noncommunicable diseases and injuries (groups II and III).

JOINT EFFECTS OF MULTIPLE RISK FACTORS

Many users of risk assessment, who may be familiar with categorical attribution systems such as the ICD, desire information characterized by additive decomposition. In other words, they would like to know what fraction of the disease burden is related to a particular risk factor or group of risk factors independent of changes in other risk factors. As Mathers and others (2002) discuss, additive decomposition is not generally a property of counterfactual attribution, because many diseases are caused by the interaction of multiple determinants acting simultaneously (Rothman 1976; Rothman and Greenland 1998; Walter 1980; Yerushalmy and Palmer 1959). Indeed, the sum of PAFs for a single disease due to multiple risk factors is theoretically unbounded.

Although epidemiologically unavoidable and conceptually acceptable, the lack of additivity adds to policy complexity and implies the need for great care when interpreting and

communicating estimates of PAF and attributable burden. With multiple attribution, a reduction in one risk factor would seem to make other, equally important, risk factors potentially irrelevant from a perspective with limited scope in relation to interpreting quantitative results. It also necessitates the development of methods to quantify the effects of joint counterfactual distributions for multiple risk factors. Estimating the joint effects of multiple distal and proximal risks is particularly important, because many factors act through other intermediate factors (Murray and Lopez 1999; Yerushalmy and Palmer 1959) or in combination with other factors. For example, education, occupation, and income may affect smoking, physical activity, and diet, which are risk factors for cardiovascular diseases, both directly and through further layers of such intermediate factors as BMI, blood pressure, and high cholesterol. Multicausality also means that a range of interventions can be used for disease prevention, with the specific choices determined by factors such as cost, technology availability, infrastructure, and preferences.

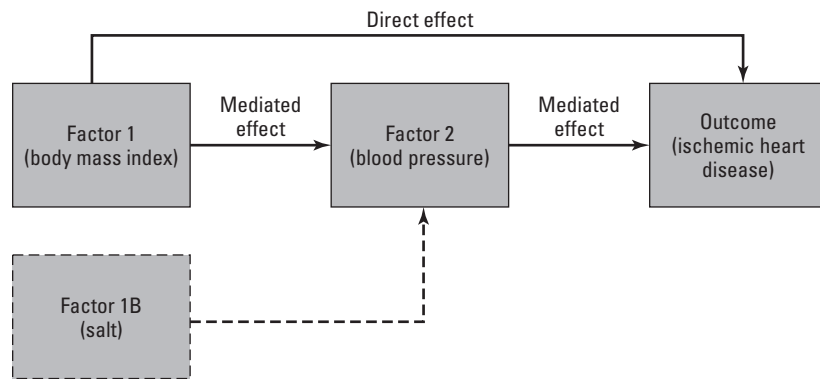
In equations 4.1a and 4.1b, RR , P , and P' may represent joint relative risks and exposure distributions for multiple risk factors, that is, x may be a vector of risk factors, with RR for each risk factor estimated at the appropriate level of the remaining ones (Eide and Heuch 2001). While such data have been gathered for a small number of risk factor combinations, for example, alcohol and smoking for oral cancer (Rothman and Keller 1972) and some cardiovascular risks (Neaton and Wentworth 1992; Yusuf and others 2004), they are generally rare in epidemiological studies. Alternatively, for n biologically independent and uncorrelated risk factors, the joint PAF is given by equation 4.3 (Miettinen 1974; Walter 1976):

$$PAF = 1 - \prod_{i=1}^n (1 - PAF_i), \quad (4.3)$$

where PAF_i shows the PAFs of individual risk factors.

If risk factors are independent and uncorrelated, the proportion of the remaining disease that is attributed to the i th additional risk factor equals PAF_i , and hence $(1 - PAF_i)$ is not attributable to this factor. Therefore, the second term in the right-hand-side of equation 4.3, that is, the product of all $(1 - PAF_i)$ terms, is the fraction of disease not attributable to any of the n risk factors. One minus this term is the fraction attributable to the combined effects of the n risk factors.

Estimating the joint effects of multiple risk factors is, in practice, complex and does not follow the simple, independent, and uncorrelated relationship of equation 4.3 for



Note: Some of the effects of a risk factor (for example, body mass index–BMI) may be mediated through other factors (for example, blood pressure). When estimating the total effects of individual distal factors on disease, both mediated and direct effects should be considered, because, in the presence of mediated effects, controlling for the intermediated factor would attenuate the effects of the more distal one (Greenland 1987). When estimating the joint effects of the more distal factor (for example, BMI) and the intermediate one (for example, blood pressure), the direct and mediated effects must be separated, especially if the intermediate factor is affected by other distal factors (for example, dietary salt).

Figure 4.3 Mediated and Direct Effects of a Risk Factor

several reasons. First, some of the effects of the more distal factors, such as physical inactivity, are mediated through intermediate factors. For instance, a proportion of the hazards of physical inactivity is mediated through overweight and obesity, which is itself mediated through elevated blood pressure (figure 4.3). Estimating the joint effects of distal and intermediate factors requires knowledge of independent hazards of the distal ones (versus individual risk factor effects, which are based on total hazard). Second, the hazard due to a risk factor may depend on the presence of other risk factors (Koopman 1981; Rothman and Greenland 1998) (effect modification).¹ Third, correlation may exist between exposures to multiple risk factors because they are affected by the same distal factors and policies. For example, undernutrition, unsafe water and sanitation, and use of solid fuels are more common among poor rural households in developing countries and smokers generally have higher and more harmful patterns of alcohol consumption and worse diets than nonsmokers.

The epidemiological literature refers to the first and second issues as biological interaction and the third issue as statistical interaction (Miettinen 1974; Rothman and Greenland 1998; Rothman, Greenland, and Walker 1980). This distinction is, however, somewhat arbitrary, and the three scenarios may occur simultaneously. For example, zinc deficiency affects mortality from diarrhea directly as well as by reducing growth (first issue) (Brown and others 2002; Zinc Investigators' Collaborative Group 1999), and may also be correlated with

underweight, other micronutrient deficiencies, and unsafe water and sanitation (third issue). Similarly, alcohol and smoking may not only be correlated (third issue), but also affect each other's hazard for some diseases (second issue) (Rothman and Keller 1972).

Data Sources for Mediated Effects and Effect Modification

Despite the emphasis on removing or minimizing the effects of confounding in epidemiological research, mediated and stratified hazards have received disproportionately little empirical attention. We therefore reviewed the literature and reanalyzed cohort data to strengthen the empirical basis for considering interactions. The sensitivity of estimates to these assumptions were negligible as described in detail elsewhere (Ezzati, Vander Hoorn, and others 2004; Ezzati and others 2003).

Joint Hazards of Cardiovascular Disease Risk Factors.

Epidemiological studies of the effects of overweight and obesity, physical inactivity, and low fruit and vegetable intake on cardiovascular diseases have illustrated some attenuation of the effects after adjustment for intermediate factors such as blood pressure or cholesterol (Berlin and Colditz 1990; Blair, Cheng, and Holder 2001; Eaton 1992; Gaziano and others 1995; Jarrett, Shipley, and Rose 1982; Jousilahti and others 1999; Khaw and Barrett-Connor 1987; Liu and others 2000, 2001; Manson and others 1990, 2002;

Rosengren, Wedel, and Wilhelmsen 1999; Tate, Manfreda, and Cuddy 1998). This attenuation confirms that some of the hazard of the more distal factors is mediated through the intermediate ones (figure 4.3). The extent of attenuation has varied from study to study, but has consistently been less than half of the excess risk of the distal factors. We used an estimate of 50 percent as the proportion of the excess risk from these risk factors mediated through intermediate factors that are themselves among the selected risks. To include effect modification, we used deviations from the multiplicative model of 10 percent for ischemic heart disease and 30 percent for ischemic stroke based on existing studies, both submultiplicative (Eastern Stroke and Coronary Heart Disease Collaborative Research Group 1998; Neaton and Wentworth 1992).

Joint Hazards of Smoking and Other Risk Factors. Liu and others (1998, figures 4 and 6) find that in China, the relative risks of mortality from lung and other cancers, respiratory diseases, and vascular diseases are approximately constant in different cities where mortality rates for these diseases among nonsmokers varied by a factor of 4 to 10. Studies that stratified hazards of smoking on serum cholesterol have confirmed this finding (Jee and others 1999).

Joint Hazards of Childhood Undernutrition for Infectious Diseases. Zinc affects growth in children (Brown and others 2002), and some of its effects on infectious diseases may be mediated through reducing growth. Because no published source for such mediated effects existed, data from some of the available zinc trials were reanalyzed (Zinc Investigators' Collaborative Group 1999). We used an upper bound of 50 percent on the proportion of zinc deficiency risk mediated through underweight.

Investigators have found that vitamin A deficiency, which affects some of the same diseases as underweight and zinc deficiency, does not change the hazard size for the other two risk factors based on stratified results from clinical trials and recent reviews of the literature on micronutrient deficiencies (Christian and West 1998; Ramakrishnan, Latham, and Abel 1995; Ramakrishnan and Martorell 1998; West and others 1991).

Joint Hazards of Undernutrition and Environmental Risk Factors in Childhood Diseases. Anthropometric (growth) indicators of childhood nutrition, such as weight-for-age, are aggregate measures of multiple factors that include

nutrition and previous infection (Pelletier, Frongillo, and Habicht 1993; Scrimshaw, Taylor, and Gordon 1968; UNICEF 1990). Therefore, some of the risks from indoor smoke from household use of solid fuels and unsafe water, sanitation, and hygiene, which result in lower respiratory infections and diarrhea respectively, may be mediated through underweight. In a review of the literature, Briend (1990) concludes that attempts to disentangle direct and mediated contributions, especially over the long periods needed to affect population-level anthropometry, have not established diarrhea as a significant cause of underweight. Other works, however, have found evidence that infection, especially diarrhea, could reduce growth and increase the prevalence of underweight (Black 1991; Guerrant and others 1992; Lutter and others 1989, 1992; Martorell, Habicht and others 1975; Martorell, Yarbrough, and others 1975; Stephensen 1999). To account for potential mediated effects, we considered an upper bound of 50 percent on the proportion of the excess risks from indoor smoke from household use of solid fuels and unsafe water, sanitation, and hygiene mediated through underweight in regions where underweight was present.

Risk Factor Correlation

To estimate the joint effects of risk factors with a continuous exposure variable, for instance, blood pressure and cholesterol, each integral in the PAF relationship may be replaced

with $\int_{x_1=0}^{m_1} \int_{x_2=0}^{m_2} RR_1(x_1)RR_2(x_2)P(x_1, x_2)dx_1 dx_2$, where

subscripts 1 and 2 denote the two risk factors and P is the joint distribution of the two exposures. If joint RR were a linear function of exposure levels (x_1 and x_2), then correlation between the two risk factors would not affect total hazard. Because individual RR s are nonlinear functions of exposure, for example, in a Cox proportional hazard model, and joint RR s are the product of such nonlinear terms, positive correlation between risk factors would, in general, imply a larger PAF than zero correlation,² which in turn would be larger than negative correlation. Similarly, for categorical risk factors, positive correlation would in general result in a larger PAF (see also Greenland 1984). For the range of exposures and relative risks in the CRA, this secondary effect of risk factor correlation would be considerably smaller than the joint attributable fraction, as described in detail elsewhere (Ezzati and others 2003).

Table 4.3 Joint Contributions (PAFs) of the Leading Risk Factors to Mortality and Burden of Disease, by Region

Region	Mortality			Burden of disease [DALYs(3,0)]		
	Male	Female	Both	Male	Female	Both
Low- and middle-income countries	46% (25.5)	45% (22.8)	46% (48.3)	37% (715)	35% (671)	36% (1,386)
East Asia and Pacific	39% (6.9)	35% (6.1)	37% (13.1)	29% (181)	24% (165)	27% (346)
Europe and Central Asia	63% (3.0)	61% (2.7)	62% (5.7)	50% (64)	41% (53)	46% (116)
Latin America and the Caribbean	42% (1.8)	40% (1.4)	41% (3.3)	32% (57)	25% (48)	29% (104)
Middle East and North Africa	40% (1.1)	40% (0.8)	40% (1.9)	26% (35)	25% (31)	25% (66)
South Asia	44% (7.1)	40% (6.5)	42% (13.6)	35% (204)	33% (205)	34% (409)
Sub-Saharan Africa	52% (5.6)	56% (5.2)	54% (10.8)	48% (175)	50% (170)	49% (345)
High-income countries	48% (4.0)	40% (3.9)	44% (7.9)	40% (77)	28% (72)	34% (149)
World	46% (29.5)	44% (26.7)	45% (56.2)	38% (792)	34% (743)	36% (1,535)

Source: Authors' calculations.

Note: The risk factors are those listed in table 4.1. Numbers in parentheses show total number of deaths and DALYs(3, 0), in millions.

BURDEN OF DISEASE ATTRIBUTABLE TO MULTIPLE RISK FACTORS

This section presents the disease burden attributable to the joint hazards of the risk factors in table 4.1.

All Selected Risk Factors

Table 4.3 shows the joint contributions of all the risk factors shown in table 4.1 to the total mortality and disease burden in different regions. Globally, an estimated 45 percent of mortality and 36 percent of the disease burden were attributable to the joint effects of the 19 selected risk factors. Sub-Saharan Africa (49 percent of the disease burden) and Europe and Central Asia (46 percent of the disease burden) had the largest regional PAFs, and the Middle East and North Africa (25 percent of the disease burden) and East Asia and the Pacific (27 percent of the disease burden) had the smallest. The regions with large joint PAFs are those where a relatively small number of diseases and their risk factors are responsible for large losses of life, for example, HIV/AIDS and childhood disease risk factors in Sub-Saharan Africa and cardiovascular risks, smoking, and alcohol consumption in Europe and Central Asia. Those with smaller joint PAFs are regions where the causes of health loss are distributed among a larger number of diseases and their risk factors.

Table 4.4 shows the individual and joint contributions of the selected risk factors to the 10 leading diseases in the world and in low- and middle-income and high-income countries. As the table shows, for most diseases the joint effects of these risk factors were substantially less than the

crude sum of their individual effects. For example, globally four separate risk factors were each responsible for 88, 50, 20, and 11 percent of the diarrheal disease burden, but with a joint PAF of 92 percent; or seven separate risk factors were each responsible for 45, 46, 18, 28, 21, 17, and 17 percent of ischemic heart disease, but with a joint PAF of 80 percent. This confirms that the joint actions of more than one of these risk factors acting simultaneously or through other factors cause a large proportion of disease.

Globally, large fractions of the burden of HIV/AIDS (96 percent), diarrhea (92 percent), ischemic heart disease (80 percent), lung cancer (74 percent), stroke (65 percent), chronic obstructive pulmonary disease (64 percent), and lower respiratory infections (53 percent) were attributable to the joint effects of the 19 risk factors considered here. The joint PAFs for a number of other important diseases and injuries, such as perinatal and maternal conditions, certain other cancers, and intentional and unintentional injuries, which have more diverse risk factors, were smaller but non-negligible. Even though the fraction of the total malaria burden attributable to childhood undernutrition was relatively large (59 percent), this was because of the contribution of mortality at younger ages to the malaria burden. No adult malaria was attributed to the risk factors in table 4.1, because the epidemiological literature has focused on quantifying increased risk of malaria as a result of childhood undernutrition only. Finally, with the exception of alcohol and drug dependence, which were fully attributable to their namesake risk factors, small or zero fractions of neuropsychiatric conditions, tuberculosis, congenital anomalies, and a number of other diseases were attributed to the risk factors considered here.

Table 4.4 Individual and Joint Contributions of Risk Factors to 10 Leading Diseases and Total Burden of Disease

World				
Disease	Proportion of global disease burden (%) [total: 1.54 billion DALYs(3.0)]	Proportion of global mortality (%) (total: 56.2 million deaths)	PAFs for individual risk factors (for disease burden)	Joint PAF – disease burden (%) Joint PAF – mortality (%)
Lower respiratory infections	5.6	6.7	Childhood underweight (37%); zinc deficiency (15%); indoor smoke from solid fuels (35%); smoking (4%) ^a ; urban air pollution (1%) ^b	53 42
Ischemic heart disease	5.5	12.6	High blood pressure (45%); high cholesterol (48%); overweight and obesity (18%); low fruit and vegetable intake (28%); physical inactivity (21%); smoking (17%); alcohol use (2%); urban air pollution (2%) ^b	80 79
Stroke	4.7	9.6	High blood pressure (54%); high cholesterol (16%); overweight and obesity (12%); low fruit and vegetable intake (11%); physical inactivity (7%); smoking (13%); alcohol use (3%); urban air pollution (3%) ^b	65 60
HIV/AIDS	4.7	4.6	Unsafe sex (95%); contaminated injections in health care settings (5%); illicit drug use (3%)	96 96
Diarrheal diseases	3.9	3.2	Childhood underweight (50%); vitamin A deficiency (22%); zinc deficiency (12%); unsafe water, sanitation, and hygiene (88%)	92 93
Unipolar depressive disorders	3.4	0.0	Alcohol use (2%); childhood sexual abuse (5%)	6 NA ^c
Low birthweight	2.8	2.3	Iron-deficiency anemia (14%); alcohol use (0.5%)	16 17
Malaria	2.6	2.1	Childhood underweight (51%); vitamin A deficiency (19%); zinc deficiency (22%)	59 61
Chronic obstructive pulmonary disease	2.5	4.8	Indoor smoke from solid fuels (30%); urban air pollution (2%) ^b ; smoking (44%)	64 62
Tuberculosis	2.4	2.9	Smoking (4%) ^a	9 10
Communicable, maternal, perinatal, and nutritional conditions	36.5	32.3	Multiple risks (see annex 4A)	46 47
Noncommunicable diseases	52.6	58.5	Multiple risks (see annex 4A)	33 49
Injuries	10.9	9.2	Multiple risks (see annex 4A)	15 18
All causes	100	100	All 19 selected risks (see annex 4A)	36 46

Low- and middle-income countries					
Disease	Proportion of regional disease burden (%) [total: 1.39 billion DALYs(3.0)]	Proportion of regional mortality (%) (total: 48.3 million deaths)	PAFs for individual risk factors (for disease burden)	Joint PAF – disease burden (%)	Joint PAF – mortality (%)
Lower respiratory infections	6.0	7.0	Childhood underweight (38%); zinc deficiency (16%); indoor smoke from solid fuels (36%); smoking (4%) ^a ; urban air pollution (4%) ^b	54	44
Ischemic heart disease	5.2	11.8	High blood pressure (44%); high cholesterol (46%); overweight and obesity (16%); low fruit and vegetable intake (30%); physical inactivity (21%); smoking (15%); alcohol use (4%); urban air pollution (2%) ^b	80	78
HIV/AIDS	5.1	5.3	Unsafe sex (95%); contaminated injections in health care settings (5%); illicit drug use (3%)	97	97
Stroke	4.5	9.5	High blood pressure (54%); high cholesterol (15%); overweight and obesity (10%); low fruit and vegetable intake (11%); physical inactivity (6%); smoking (12%); alcohol use (5%); urban air pollution (4%) ^b	64	61
Diarrheal diseases	4.2	3.7	Childhood underweight (56%); vitamin A deficiency (22%); zinc deficiency (12%); unsafe water, sanitation, and hygiene (88%)	93	94
Unipolar major depression	3.1	0.0	Alcohol use (1%); childhood sexual abuse (5%)	6	NA ^c
Low birthweight	3.1	2.7	Iron-deficiency anemia (14%); alcohol use (0.5%)	16	17
Malaria	2.9	2.5	Childhood underweight (51%); vitamin A deficiency (19%); zinc deficiency (22%)	59	61
Tuberculosis	2.6	3.3	Smoking (4%) ^e	9	10
Chronic obstructive pulmonary disease	2.4	4.9	Indoor smoke from solid fuels (35%); urban air pollution (2%) ^b ; smoking (40%)	63	60
Communicable, maternal, perinatal, and nutritional conditions	39.8	36.4	Multiple risks (see annex 4A)	47	48
Noncommunicable diseases	48.9	53.8	Multiple risks (see annex 4A)	33	50
Injuries	11.2	9.8	Multiple risks (see annex 4A)	15	18
All causes	100	100	All 19 selected risks (see annex 4A)	36	46

(Continues on the following page.)

Table 4.4 Continued

High-income countries				
Disease	Proportion of regional disease burden (%) [total: 149.2 million DALYs(3.0)]	Proportion of regional mortality (%) (total: 7.9 million deaths)	PAFs for individual risk factors (for disease burden)	Joint PAF – disease burden (%) Joint PAF – mortality (%)
Ischemic heart disease	8.3	17.3	High blood pressure (48%); high cholesterol (57%); overweight and obesity (27%); low fruit and vegetable intake (19%); physical inactivity (21%); smoking (23%); alcohol use (–13%); urban air pollution (1%) ^b	84 80
Stroke	6.3	9.9	High blood pressure (56%); high cholesterol (25%); overweight and obesity (20%); low fruit and vegetable intake (9%); physical inactivity (8%); smoking (21%); alcohol use (–11%); urban air pollution (1%) ^b	68 54
Unipolar depressive disorders	5.6	0.0	Alcohol use (4%); childhood sexual abuse (4%)	7 NA ^c
Dementia and other degenerative and hereditary central nervous system disorders	5.0	2.6	None of the selected risks	NA NA
Trachea, bronchus, and lung cancers	3.6	5.8	Indoor smoke from solid fuels (coal only) (0%); smoking (84%); low fruit and vegetable intake (9%); urban air pollution (3%) ^b	86 87
Hearing loss	3.6	0.0	None of the selected risks	NA NA
Chronic obstructive pulmonary disease	3.5	3.8	Indoor smoke from solid fuels (0%); urban air pollution (1%) ^b ; smoking (73%)	73 76
Diabetes mellitus	2.8	2.6	Overweight and obesity (76%); physical inactivity (15%); smoking (4%) ^a ; alcohol use (–5%)	78 74
Alcohol use disorders	2.8	0.3	Alcohol use (100%); childhood sexual abuse (6%)	100 100
Osteoarthritis	2.7	2.4	Overweight and obesity (20%); smoking (4%) ^a	20 NA ^c
Communicable, maternal, perinatal, and nutritional conditions	5.7	7.0	Multiple risks (see annex 4A)	18 18
Noncommunicable diseases	86.7	87.0	Multiple risks (see annex 4A)	37 48
Injuries	7.5	6.0	Multiple risks (see annex 4A)	21 22
All causes	100	100	All 19 selected risks (see annex 4A)	34 44

Source: Authors' calculations.

Note: NA = not applicable. Risk factors are those listed in table 4.1. These factors also contribute to other diseases that are not among the leading 10.

a. Affected by smoking in the category "other respiratory diseases" or "selected other medical causes" (Ezzati and Lopez 2003, 2004; Peto and others 1992). The PAF has large uncertainty.

b. Affected by urban air pollution in the category "cardiopulmonary diseases." The PAF for individual causes has large uncertainty.

c. The number of deaths coded to "hearing loss," "unipolar depressive disorders," "osteoarthritis," and "dementia and other degenerative and hereditary central nervous system disorders" is zero or very small in the GBD database, making the mortality PAF for these diseases undefined or unstable.

An important finding of this analysis is the key role of nutrition in health worldwide. Approximately 11 percent of the global disease burden was attributable to the joint effects of underweight or micronutrient deficiencies. In addition, almost 16 percent of the burden (28 percent for those aged 30 years and older) can be attributed to risk factors that have substantial dietary determinants (high blood pressure, high cholesterol, overweight and obesity, and low fruit and vegetable intake) and to physical inactivity. These patterns are not uniform within regions, however, and the transition has been healthier in some countries than in others (Lee, Popkin, and Kim 2000; Popkin 2002a, 2002b; Popkin and others 2001). Furthermore, the major nutritional and related risk factors show interregional heterogeneity, for instance, the relative contributions of blood pressure, cholesterol, and BMI differed across regions.

At the same time, the joint contributions of these risk factors left an important part of the global disease burden unexplained, because only a small fraction of some important diseases was attributable to the risk factors considered here. These include diseases whose determinants (a) are diffuse among environmental and behavioral factors, for example, some cancers, perinatal conditions, and neuropsychiatric diseases; (b) have more complex, multifactor etiology and often heterogeneous determinants in different populations, and are therefore difficult to quantify without data on a small scale, such as tuberculosis and injuries; (c) involve long delays between risk factor exposure and disease outcome; or (d) have limited quantitative research at the population level, for instance, neuropsychiatric diseases, often as a result of the previous three factors as well as difficulties in measuring exposure or outcome (Evans 1976, 1978). The mitigation of many such conditions, including malaria, tuberculosis, and injuries, may be better guided by analyses of the effects of interventions tailored to individual settings than by risk factor analysis.

Risk Factor Clusters

In addition to estimating the joint contributions of all the risk factors in table 4.1 to the all-cause mortality and disease burden, we also examined the role of selected clusters of risks that may be of particular interest to disease prevention policies and programs. The risk factor clusters were those affecting cancers (alcohol use, smoking, low fruit and vegetable intake, indoor smoke from household use of solid fuels, urban air pollution, overweight and obesity, physical inactivity, contaminated injections in health care settings, and unsafe sex), cardiovascular diseases (high blood pressure,

high cholesterol, smoking, overweight and obesity, alcohol use, physical inactivity, low fruit and vegetable intake, and urban air pollution), and child mortality (childhood underweight; vitamin A deficiency; zinc deficiency; iron deficiency anemia; unsafe water, sanitation, and hygiene; and indoor smoke from household use of solid fuels). Tables 4.5 through 4.7 show the individual and joint contributions of these risk factors to mortality and to the burden of disease for specific diseases within each cluster.

Globally, the cancers with the largest mortality fraction attributable to the risk factors in table 4.1 were cervix uteri cancer (100 percent); trachea, bronchus, and lung cancers (74 percent); and esophagus cancer (62 percent), and those with the smallest joint PAFs were colon and rectum cancers (13 percent) and leukemia (9 percent) (table 4.5). The largest number of deaths attributable to the joint effects of the risk factors was from trachea, bronchus, and lung cancer (930,000 deaths) and liver cancer (283,000 deaths), which reflects both the relatively large joint PAF and the total number of deaths from these cancers. Except for cervix uteri cancer, which was by definition fully attributable to the risk factor unsafe sex, joint PAFs were larger in high-income countries than in low- and middle-income countries for all cancer sites, mostly because of the higher contribution of smoking and alcohol use. The joint PAFs for all cancers combined, however, were similar for the two groups of countries (34 percent versus 37 percent for the disease burden), because of the distributions of total mortality from various site-specific cancers.

Almost two-thirds of all cardiovascular deaths were attributable to eight of the selected risk factors that affect these outcomes (table 4.6). The joint effects of these risk factors were much lower than the crude sum of individual effects (64 percent versus 126 percent for the disease burden), pointing to the extensive overlap in their hazards for cardiovascular diseases compared with cancers. The overlap is partly because the hazardous effects of some risks are mediated through others and partly because multiple risk factors act in combination. The joint PAF differed little between low- and middle-income and high-income countries, reflecting the high levels of multiple cardiovascular risk factors in many middle-income nations (Ezzati and others 2005). Coupled with substantially more cardiovascular deaths and a larger disease burden in low- and middle-income countries, these risk factors result in a much larger loss of healthy life in these nations.

Worldwide, approximately half of the mortality among children under five years of age (about 5 million deaths) was attributable to six major risk factors, with childhood underweight alone accounting for more than a quarter of all child

Table 4.5 Individual and Joint Contributions of Risk Factors to Mortality and Burden of Disease from Site-Specific Cancers

World					
Cancer type	Deaths	Proportion of global disease burden (%) [total: 1.54 billion DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)
Mouth and oropharynx	311,633	0.30	Alcohol use (16%; 18%), smoking (42%; 42%)	52	54
Esophagus	437,511	0.39	Alcohol use (26%; 27%), smoking (42%; 42%), low fruit and vegetable intake (18%; 19%)	62	63
Stomach	841,693	0.73	Smoking (13%; 13%), low fruit and vegetable intake (18%; 19%)	28	30
Colon and rectal	613,740	0.53	Overweight and obesity (11%; 12%), physical inactivity (15%; 16%), low fruit and vegetable intake (2%; 2%)	13	14
Liver	606,441	0.59	Smoking (14%; 14%), alcohol use (25%; 25%), contaminated injections in health care setting (18%; 19%)	47	47
Pancreas	226,981	0.19	Smoking (22%; 22%)	22	22
Trachea, bronchus, and lung	1,226,574	1.04	Smoking (70%; 67%), low fruit and vegetable intake (11%; 12%), indoor smoke from household use of solid fuels (1%; 1%), urban air pollution (5%; 5%)	76	74
Breast	472,424	0.52	Alcohol use (5%; 5%), overweight and obesity (9%; 8%), physical inactivity (10%; 10%)	21	19
Cervix uteri	234,728	0.27	Smoking (2%; 2%), unsafe sex (100%; 100%) ^a	100	100
Corpus uteri	70,881	0.10	Overweight and obesity (40%; 46%)	40	42
Bladder	175,318	0.14	Smoking (28%; 27%)	28	27
Leukemia	263,169	0.32	Smoking (9%; 6%)	9	6
Selected other neoplasms ^b	145,802	0.14	Alcohol use (6%; 5%)	6	5
All other neoplasms	1,391,507	1.27	None of the selected risk factors	0	0
All cancers	7,018,402	6.53	Alcohol use (5%; 5%), smoking (21%; 21%), low fruit and vegetable intake (5%; 5%), indoor smoke from household use of solid fuels (<0.5%; <0.5%), urban air pollution (1%; 1%), overweight and obesity (2%; 2%), physical inactivity (2%; 2%), contaminated injections in health care setting (2%; 2%), unsafe sex (3%; 4%)	35	34

Low- and middle-income countries					
Cancer type	Deaths	Proportion of regional disease burden (%) [total: 1.39 billion DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)
Mouth and oropharynx	271,074	0.29	Alcohol use (14%; 15%), smoking (37%; 39%)	48	50
Esophagus	379,760	0.38	Alcohol use (24%; 25%), smoking (37%; 39%), low fruit and vegetable intake (19%; 20%)	58	60
Stomach	695,426	0.69	Smoking (11%; 11%), low fruit and vegetable intake (19%; 20%)	27	29
Colon and rectal	356,949	0.36	Overweight and obesity (9%; 9%), physical inactivity (15%; 16%), low fruit and vegetable intake (2%; 3%)	11	12
Liver	504,407	0.57	Smoking (11%; 12%), alcohol use (23%; 24%), contaminated injections in health care setting (21%; 22%)	45	46
Pancreas	116,827	0.12	Smoking (15%; 16%)	15	16
Trachea, bronchus, and lung	770,938	0.77	Smoking (60%; 59%), low fruit and vegetable intake (13%; 13%), indoor smoke from household use of solid fuels (2%; 2%), urban air pollution (7%; 7%)	69	68
Breast	317,195	0.40	Alcohol use (4%; 4%), overweight and obesity (7%; 7%), physical inactivity (10%; 10%)	18	17
Cervix uteri	218,064	0.27	Smoking (2%; 2%), unsafe sex (100%; 100%) ^a	100	100
Corpus uteri	43,926	0.07	Overweight and obesity (37%; 39%)	37	39
Bladder	116,682	0.11	Smoking (21%; 21%)	21	21
Leukemia	190,059	0.28	Smoking (6%; 4%)	6	4
Selected other neoplasms ^b	88,706	0.11	Alcohol use (4%; 4%)	4	4
All other neoplasms	882,001	0.95	None of the selected risk factors	0	0
All cancers	4,952,014	5.37	Alcohol use (5%; 6%), smoking (18%; 19%), low fruit and vegetable intake (6%; 6%), indoor smoke from household use of solid fuels (<0.5%; <0.5%), urban air pollution (1%; 1%), overweight and obesity (1%; 2%), physical inactivity (2%; 2%), contaminated injections in health care setting (2%; 2%), unsafe sex (4%; 5%)	34	34

(Continues on the following page.)

Table 4.5 Continued

High-income countries					
Cancer type	Deaths	Proportion of regional disease burden (%) [total: 149.2 million DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)
Mouth and oropharynx	40,559	0.39	Alcohol use (33%; 35%), smoking (71%; 71%)	80	80
Esophagus	57,752	0.47	Alcohol use (41%; 43%), smoking (71%; 71%), low fruit and vegetable intake (12%; 13%)	85	86
Stomach	146,267	1.09	Smoking (25%; 25%), low fruit and vegetable intake (12%; 13%)	34	35
Colon and rectal	256,791	2.13	Overweight and obesity (14%; 15%), physical inactivity (14%; 16%), low fruit and vegetable intake (1%; 2%)	15	17
Liver	102,033	0.82	Smoking (29%; 29%), alcohol use (32%; 33%), contaminated injections in health care setting (3%; 4%)	52	54
Pancreas	110,154	0.83	Smoking (30%; 30%)	30	30
Trachea, bronchus, and lung	455,636	3.62	Smoking (86%; 84%), low fruit and vegetable intake (8%; 9%), indoor smoke from household use of solid fuels (0%; 0%), urban air pollution (3%; 3%)	87	86
Breast	155,230	1.68	Alcohol use (9%; 9%), overweight and obesity (13%; 12%), physical inactivity (9%; 10%)	27	26
Cervix uteri	16,663	0.21	Smoking (11%; 10%), unsafe sex (100%; 100%) ^a	100	100
Corpus uteri	26,955	0.39	Overweight and obesity (43%; 46%)	43	46
Bladder	58,636	0.45	Smoking (41%; 41%)	41	41
Leukemia	73,110	0.62	Smoking (17%; 15%)	17	15
Selected other neoplasms ^b	57,095	0.37	Alcohol use (8%; 9%)	8	9
All other neoplasms	509,507	4.28	None of the selected risk factors	0	0
All cancers	2,066,388	17.35	Alcohol use (4%; 5%), smoking (29%; 29%), low fruit and vegetable intake (3%; 3%), indoor smoke from household use of solid fuels (0%; 0%), urban air pollution (1%; 1%), overweight and obesity (3%; 4%), physical inactivity (2%; 3%), contaminated injections in health care setting (<0.5%; <0.5%), unsafe sex (1%; 1%)	37	37

Source: Authors' calculations.

Note: Risk factors are those listed in table 4.1.

a. Currently, a proportion of human papilloma virus (HPV) infections that lead to cervix uteri cancer are transmitted through routes other than sexual contact. The PAF for unsafe sex, as defined in the CRA project (Slaymaker and others 2004), measures the current population-level cervix cancer mortality that would be reduced, had there never been any sexual transmission of infection (that is, the consequences of past and current exposure, as we do for accumulated hazards of smoking). By considering the health consequences of past and current exposure, nearly all sexually transmitted diseases are attributable to unsafe sex. This is because, in the absence of sexual transmission in the past, current infections transmitted through other forms of contact would not occur if the infected hosts acquired their infection sexually (and so on in the sequence of past infected hosts).

b. This category includes neoplasms under the ICD-9 three-digit codes 210–239.

Table 4.6 Individual and Joint Contributions of Risk Factors to Mortality and Burden of Disease from Cardiovascular Diseases

World						
Disease	Deaths	Proportion of global disease burden (%) [total: 1.54 billion DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)	
Ischemic heart disease	7,060,951	5.5	High blood pressure (47%; 45%), high cholesterol (45%; 48%), smoking (12%; 17%), overweight and obesity (15%; 18%), alcohol use (1%; 2%), physical inactivity (19%; 21%), low fruit and vegetable intake (25%; 28%), urban air pollution (3%; 2%) ^a	79	80	
Stroke	5,387,500	4.7	High blood pressure (54%; 54%), high cholesterol (13%; 16%), smoking (8%; 13%), overweight and obesity (8%; 12%), alcohol use (2%; 3%), physical inactivity (6%; 7%), low fruit and vegetable intake (9%; 11%), urban air pollution (3%; 2%) ^a	60	65	
Hypertensive disease	888,144	0.7	High blood pressure (79%; 75%), overweight and obesity (29%; 33%), alcohol use (15%; 15%), urban air pollution (3%; 2%) ^a	85	83	
Selected other cardiovascular diseases ^b	2,335,514	1.8	High blood pressure (28%; 24%), smoking (14%; 12%)	37	33	
All cardiovascular diseases	16,386,531	13.5	High blood pressure (46%; 44%), high cholesterol (24%; 25%), smoking (10%; 13%), overweight and obesity (11%; 13%), alcohol use (2%; 3%), physical inactivity (10%; 11%), low fruit and vegetable intake (14%; 15%), urban air pollution (2%; 2%) ^a	63	64	
Low- and middle-income countries						
Disease	Deaths	Proportion of regional disease burden (%) [total: 1.39 billion DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)	
Ischemic heart disease	5,696,844	5.2	High blood pressure (47%; 44%), high cholesterol (43%; 46%), smoking (11%; 15%), overweight and obesity (14%; 16%), alcohol use (4%; 4%), physical inactivity (20%; 21%), low fruit and vegetable intake (27%; 30%), urban air pollution (4%; 2%) ^a	78	80	
Stroke	4,606,426	4.5	High blood pressure (54%; 54%), high cholesterol (12%; 15%), smoking (8%; 12%), overweight and obesity (7%; 10%), alcohol use (5%; 5%), physical inactivity (6%; 6%), low fruit and vegetable intake (10%; 11%), urban air pollution (4%; 2%) ^a	61	64	
Hypertensive disease	759,487	0.7	High blood pressure (79%; 75%), overweight and obesity (28%; 31%), alcohol use (14%; 14%), urban air pollution (4%; 2%) ^a	84	82	

(Continues on the following page.)

Table 4.6 Continued

Low- and middle-income countries					
Disease	Deaths	Proportion of regional disease burden (%) [total: 1.39 billion DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)
Selected other cardiovascular diseases ^b	1,659,570	1.6	High blood pressure (27%; 23%), smoking (9%; 9%)	33	29
All cardiovascular diseases	13,347,471	12.9	High blood pressure (47%; 44%), high cholesterol (23%; 24%), smoking (9%; 11%), overweight and obesity (10%; 12%), alcohol use (4%; 4%), physical inactivity (10%; 11%), low fruit and vegetable intake (15%; 16%), urban air pollution (3%; 2%) ^a	64	63
High-income countries					
Disease	Deaths	Proportion of regional disease burden (%) [total: 142.9 million DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)
Ischemic heart disease	1,364,007	8.3	High blood pressure (49%; 48%), high cholesterol (52%; 57%), smoking (15%; 23%), overweight and obesity (19%; 27%), alcohol use (–12%; –13%), physical inactivity (19%; 21%), low fruit and vegetable intake (16%; 19%), urban air pollution (2%; 1%) ^a	80	84
Stroke	781,074	6.3	High blood pressure (54%; 56%), high cholesterol (17%; 25%), smoking (10%; 21%), overweight and obesity (12%; 20%), alcohol use (–13%; –11%), physical inactivity (6%; 8%), low fruit and vegetable intake (6%; 9%), urban air pollution (2%; 1%) ^a	54	68
Hypertensive disease	128,657	0.8	High blood pressure (84%; 82%), overweight and obesity (38%; 45%), alcohol use (23%; 24%), urban air pollution (2%; 1%) ^a	91	91
Selected other cardiovascular diseases ^b	675,944	3.8	High blood pressure (29%; 29%), smoking (26%; 25%)	48	46
All cardiovascular diseases	3,039,060	20.0	High blood pressure (46%; 46%), high cholesterol (28%; 32%), smoking (15%; 21%), overweight and obesity (13%; 19%), alcohol use (–8%; –8%), physical inactivity (10%; 11%), low fruit and vegetable intake (9%; 11%), urban air pollution (1%; 1%) ^a	64	69

Source: Authors' calculations.

Note: Risk factors are those listed in table 4.1.

a. Affected by urban air pollution in the category "cardiopulmonary diseases." The PAFs for individual causes have large uncertainty.

b. This category includes ICD-9 three-digit codes 415–417, 423–424, 426–429, 440–448, 451–459.

Table 4.7 Individual and Joint Contributions of Risk Factors to Mortality and Burden of Disease from Major Diseases of Children

World					
Disease ^a	Deaths	Proportion of global disease burden (%) [total: 1.54 billion DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)
Measles	556,384	1.1	Childhood underweight (44%; 44%), vitamin A deficiency (20%; 20%)	55	55
Diarrheal diseases	1,598,754	3.5	Childhood underweight (61%; 55%), vitamin A deficiency (24%; 22%), zinc deficiency (13%; 12%), unsafe water, sanitation, and hygiene (88%; 88%)	94	93
Lower respiratory infections	1,914,189	4.0	Childhood underweight (54%; 52%), zinc deficiency (21%; 21%), indoor air pollution (49%; 48%)	72	70
Malaria	1,086,298	2.3	Childhood underweight (55%; 51%), vitamin A deficiency (19%; 19%), zinc deficiency (22%; 22%)	68	65
Conditions arising during the perinatal period	2,520,986	5.9	Iron-deficiency anemia (16%; 14%)	16	14
All other childhood diseases	2,921,834	11.2	Partially attributable to childhood underweight and vitamin A deficiency (see annex 4A for details).	Not estimated	Not estimated
All causes	10,598,444	28.0	Childhood underweight (27%; 20%), vitamin A deficiency (7%; 5%), zinc deficiency (8%; 6%), unsafe water, sanitation, and hygiene (13%; 11%), indoor air pollution (9%; 7%), iron-deficiency anemia (4%; 3%)	49	40
Low- and middle-income countries					
Disease ^a	Deaths	Proportion of regional disease burden (%) [total: 1.39 billion DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)
Measles	556,312	1.2	Childhood underweight (44%; 44%), vitamin A deficiency (20%; 20%)	55	55
Diarrheal diseases	1,598,336	3.8	Childhood underweight (61%; 56%), vitamin A deficiency (24%; 22%), zinc deficiency (13%; 12%), unsafe water, sanitation, and hygiene (88%; 88%)	94	93
Lower respiratory infections	1,912,599	4.4	Childhood underweight (54%; 52%), zinc deficiency (21%; 21%), indoor air pollution (49%; 48%)	72	70
Malaria	1,086,237	2.6	Childhood underweight (55%; 51%), vitamin A deficiency (19%; 19%), zinc deficiency (22%; 22%)	68	65
Conditions arising during the perinatal period	2,488,718	6.4	Iron-deficiency anemia (16%; 14%)	16	14

(Continues on the following page.)

Table 4.7 Continued

Low- and middle-income countries					
Disease ^a	Deaths	Proportion of regional disease burden (%) [total: 1.39 billion DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)
All other childhood diseases	2,883,496	12.0	Partially attributable to childhood underweight and vitamin A deficiency (see annex 4A for details).	Not estimated	Not estimated
All causes	10,525,699	30.5	Childhood underweight (27%; 21%), vitamin A deficiency (7%; 5%), zinc deficiency (8%; 7%), unsafe water, sanitation, and hygiene (13%; 11%), indoor air pollution (9%; 7%), iron-deficiency anemia (4%; 3%)	49	41
High-income countries					
Disease ^a	Deaths	Proportion of regional disease burden (%) [total: 149.2 million DALYs(3.0)]	PAFs for individual risk factors for mortality (first number) and disease burden (second number)	Joint PAF – mortality (%)	Joint PAF – disease burden (%)
Measles	73	0.0	Childhood underweight (0%; 0%), vitamin A deficiency (1%; 0%)	1	0
Diarrheal diseases	418	0.2	Childhood underweight (0%; 0%), vitamin A deficiency (1%; 0%), zinc deficiency (1%; 1%), unsafe water, sanitation, and hygiene (65%; 65%)	66	66
Lower respiratory infections	1,590	0.0	Childhood underweight (0%; 0%), zinc deficiency (3%; 3%), indoor air pollution (0%; 0%)	1	1
Malaria	61	0.0	Childhood underweight (0%; 0%), vitamin A deficiency (1%; 1%), zinc deficiency (3%; 3%)	2	2
Conditions arising during the perinatal period	32,268	0.9	Iron-deficiency anemia (3%; 2%)	3	2
All other childhood diseases	38,337	3.4	Partially attributable to childhood underweight and vitamin A deficiency (see annex 4A for details).	Not estimated	Not estimated
All causes	72,746	4.6	Childhood underweight (0%; 0%), vitamin A deficiency (0%; 0%), zinc deficiency (0%; 0%), unsafe water, sanitation, and hygiene (0%; 2%), indoor air pollution (0%; 0%), iron-deficiency anemia (1%; 0%)	2	4

Source: Authors' calculations.

Note: Risk factors are those listed in table 4.1.

a. By definition, the diseases protein-energy malnutrition (ICD-9 three-digit codes 260–263), iron-deficiency anemia (ICD-9 three-digit codes 280–285), and vitamin A deficiency (ICD-9 three-digit code 264) are 100 percent attributable to their corresponding namesake risk factors. Thus, the PAFs for these diseases are not shown. PAFs, attributable mortality, and attributable disease burden are reported in annex 4A.

deaths. Practically all the mortality and disease burden from childhood diseases attributable to major risk factors occurred in low- and middle-income countries (table 4.7). The reasons for this large disparity in the disease burden attributable to risk factors are higher risk factor exposure coupled with lower access to case management, which affects child mortality together with risk factor exposure.

DIRECTIONS FOR FUTURE RESEARCH

Health research has at times focused on topics that, while scientifically intriguing, have not always taken population health consequences into account when shaping specific research questions (Editorial 2001; Gross, Anerson, and Powe 1999; Horton 2003). The collation of evidence on exposure and hazard for different risks and the existing data gaps revealed the areas where data and monitoring need to be improved for better quantification of important risks and for more effective intervention. This includes the need for more detailed and higher quality data on exposure to most risks using exposure variables that capture the full distribution of hazards in the population. Important examples include detailed data on alcohol consumption volumes and patterns, dietary and biological markers for micronutrients, physical activity, and indoor smoke from household use of solid fuels, all of which were quantified using indirect measures with limited resolution. Furthermore, assumptions and extrapolations were needed in quantifying the relationships between risk factors and disease because of research gaps for some important global risk factors. Examples include limited quantitative assessments of the hazards of specific sexual behaviors for HIV/AIDS and other sexually transmitted diseases (UNAIDS 2001), of alcohol drinking patterns (Puddey and others 1999), or of exposure to indoor smoke from household use of solid fuels (Ezzati and Kammen 2002). Equally important are detailed exposure data for risks that have traditionally been studied in developed countries, but have global importance and require more detailed data and hazard quantification in developing regions, including smoking, body mass index, blood pressure, and cholesterol (Yusuf and others 2004).

The limited evidence on the effects of multiple risk factors and risk factor interactions also points to important gaps in research on multirisk and stratified hazards. Including multiple layers of causality in epidemiological research and risk assessment would allow investigators to estimate the benefits of reducing combinations of distal and

proximal exposures using multiple interventions. Examples of such integrated strategies include using education and economic tools to promote physical activity and a healthier diet coupled with screening and lowering cholesterol, and addressing the overall childhood nutrition and physical environment instead of focusing on individual components. In such research, risk factor groups should be selected based on both biological relationships and socioeconomic factors that affect multiple diseases. Examples include those risk factors that are affected by the same policies and distal socioeconomic factors, such as malnutrition; unsafe water, sanitation, and hygiene; indoor smoke from household use of solid fuels; and rural development policies, or affect the same group of diseases, for instance, the previous example for childhood infectious diseases and smoking, diet, physical activity, and blood pressure for vascular diseases. Once risk factors are selected, the emphasis on reducing confounding should be matched by equally important inquiry into independent and mediated hazard sizes that are stratified based on the levels of other risks.

Finally, to inform interventions and policies, similar analyses should take place at smaller scales than global or regional levels, for example, rural and urban areas or different geographical regions of individual countries, and should include micro-level data and possibly a more comprehensive list of both distal and proximal risk factors, such as adverse life events and stress, risk factors for injuries, salt and fat intake, and blood glucose.

DISCUSSION

Despite inherent uncertainties in population health risk assessment, described in chapter 5 and in chapters devoted to individual risk factors elsewhere (Ezzati and others 2004), the quantification of the burden of disease attributable to the individual and joint hazards of selected risk factors illustrates that those risk factors that affect the poorest regions and populations, such as undernutrition; unsafe water, sanitation, and hygiene; and indoor smoke from household use of solid fuels, continue to dominate the loss of health worldwide. These are coupled with hazards such as alcohol use, smoking, high blood pressure, high cholesterol, and overweight and obesity that are globally widespread and have large health effects.

The large remaining burden due to childhood mortality risks such as undernutrition; unsafe water, sanitation, and hygiene; and indoor smoke from household use of solid

fuels indicates the persistent need for developing and delivering effective interventions, including lowering the costs of pertinent technological interventions. At the same time, four of the five leading causes of lost healthy life affect adults: high blood pressure, unsafe sex, smoking, and alcohol use (figure 4.1). Risk factors for both adult communicable and noncommunicable diseases already make substantial contributions to the disease burden even in regions with low income and high infant mortality. Therefore, the public health community should continually reassess the need for interventions addressing both childhood disease risk factors and those that affect adult health. Dynamic and systematic policy responses can, to a large extent, mitigate the spread of such risk factors and their more distal causes throughout the development process, for example, through cleaner environmental or healthier nutritional transitions (Arrow and others 1995; Lee, Popkin, and Kim 2000). In addition, as illustrated by the persistence of diseases such as malaria or the large increase in the disease burden due to HIV/AIDS and its risk factors since 1990, as well as the potential for generalized HIV/AIDS epidemics in some Eastern European countries (MacLehose, McKee, and Weinberg 2002) and China (Kaufman and Jing 2002), risk factors for important communicable diseases also require dynamic monitoring and policy responses.

Risk factors that were not among the leading global causes of the disease burden should not be neglected for a number of reasons. First, the analysis could be expanded with other risk factors that are both prevalent and hazardous. Second, although smaller than other risk factors, many make non-negligible contributions to the burden of disease in various populations. For example, in the low- and middle-income countries of East Asia and the Pacific, which is dominated by China in terms of population, urban air pollution from transportation and industrial and household energy use based on coal has health effects comparable to those of micronutrient deficiencies. Similarly, non-use and use of ineffective methods of contraception was associated with a larger disease burden than most chronic disease risk factors among females in South Asia and Sub-Saharan Africa. Third, for other risk factors, such as child sexual abuse, ethical considerations may outweigh direct contribu-

tions to the disease burden in policy debate. Finally, while the burden of disease due to a risk factor may be comparatively small, effective or cost-effective interventions may be known. Examples include reducing the number of unnecessary injections at health facilities coupled with the use of sterile syringes and the reduction in exposure to urban air pollution in industrial countries in the second half of the 20th century, which often also led to benefits such as energy savings.

A small number of risks account for large contributions to the global loss of healthy life. Furthermore, several are relatively prominent in regions at all stages of development. While reducing all the risks discussed to their theoretical minimums may not be possible using current interventions, the results illustrate that preventing disease by addressing known distal and proximal risk factors can provide substantial and underutilized public health gains. Treating established disease will always have a role in public health, especially in the case of diseases such as tuberculosis, where treatment contributes to prevention. At the same time, the current devotion of a disproportionately small share of resources to prevention by reducing major known risk factors through personal and nonpersonal interventions should be reconsidered in a more systematic way in light of the evidence presented here.

The estimates of the joint contributions of 19 selected global risk factors showed that these risks together contributed to a considerable loss of healthy life in different regions of the world. In particular, for some of the leading global diseases, such as lower respiratory infections, diarrhea, HIV/AIDS, lung cancer, ischemic heart disease, and stroke, substantial proportions were attributable to these selected risk factors. This concentration of the disease burden further emphasizes the contribution of leading risks such as undernutrition, unsafe sex, high blood pressure, and smoking and alcohol use to the loss of healthy life globally. The results further emphasize that for more effective and affordable implementation of a prevention paradigm, policies, programs, and scientific research should acknowledge and take advantage of the interactive and correlated role of major risks to health, across and within causality layers.

ANNEX 4A: Population Attributable Fractions, Attributable Deaths, Years of Life Lost Because of Premature Mortality (YLL), and Disability-Adjusted Life Years (DALYs) by Risk Factor, Disease Outcome, Age, Sex, and Region

Table 4A.1

Risk factor: Childhood underweight
Disease: Diarrheal diseases

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	46	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41	41	41
Europe and Central Asia	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	21	22
Latin America and the Caribbean	24	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21	21	21
Middle East and North Africa	42	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	38	38
South Asia	71	71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	64	64
Sub-Saharan Africa	60	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54	54	54
Low- and middle-income countries	61	61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54	54	54
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	60	61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54	54	54
PAF of YLL (%)																			
East Asia and Pacific	46	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43	44	44
Europe and Central Asia	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	24	24
Latin America and the Caribbean	24	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23	23
Middle East and North Africa	42	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	40	40
South Asia	71	71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	68	68	68
Sub-Saharan Africa	60	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	57	58	57
Low- and middle-income countries	61	61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	58	58	58
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	60	61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	58	58	58
PAF of DALYs (%)																			
East Asia and Pacific	40	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32	32	32
Europe and Central Asia	19	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
Latin America and the Caribbean	19	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
Middle East and North Africa	37	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	33	33
South Asia	66	66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62	62	62
Sub-Saharan Africa	57	57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54	53	53
Low- and middle-income countries	56	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	50	50
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	55	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	50	50
Attributable Mortality (thousands)																			
East Asia and Pacific	48	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	48	44	92
Europe and Central Asia	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1	3
Latin America and the Caribbean	6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5	11
Middle East and North Africa	14	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	13	28
South Asia	233	214	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	233	214	446
Sub-Saharan Africa	203	184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	203	184	386
Low- and middle-income countries	506	461	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	506	461	967
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	506	461	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	506	461	967
Attributable YLL (thousands)																			
East Asia and Pacific	1,464	1,338	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,464	1,338	2,802
Europe and Central Asia	51	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	51	46	97
Latin America and the Caribbean	180	164	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180	164	344
Middle East and North Africa	439	408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	439	408	847
South Asia	7,050	6,510	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,050	6,510	13,560
Sub-Saharan Africa	6,122	5,595	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,122	5,595	11,717
Low- and middle-income countries	15,307	14,061	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,307	14,061	29,367
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	15,307	14,061	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,307	14,061	29,367
Attributable DALYs (thousands)																			
East Asia and Pacific	1,480	1,354	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,480	1,354	2,834
Europe and Central Asia	52	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	52	47	99
Latin America and the Caribbean	183	166	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	183	166	349
Middle East and North Africa	444	413	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	444	413	856
South Asia	7,127	6,582	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,127	6,582	13,709
Sub-Saharan Africa	6,158	5,630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,158	5,630	11,788
Low- and middle-income countries	15,444	14,192	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,444	14,192	29,636
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	15,444	14,192	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,444	14,192	29,636

Source: Authors' calculations.

Note: NA = not applicable.

Risk factor: Childhood underweight
Disease: Measles

*The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.3

Risk factor: Childhood underweight
Disease: Malaria

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	41	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	37	37
Europe and Central Asia	23	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	16	16
Latin America and the Caribbean	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	19	19
Middle East and North Africa	38	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	34	33
South Asia	66	66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60	60	60
Sub-Saharan Africa	55	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	50	50
Low- and middle-income countries	55	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	50	50
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	55	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	50	50
PAF of YLL (%)																			
East Asia and Pacific	41	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	39	39
Europe and Central Asia	23	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	19	18
Latin America and the Caribbean	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	19	19
Middle East and North Africa	38	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	35	35
South Asia	66	66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62	62	62
Sub-Saharan Africa	55	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	51	51	51
Low- and middle-income countries	55	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	51	51	51
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	55	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	51	51	51
PAF of DALYs (%)																			
East Asia and Pacific	39	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	28	31
Europe and Central Asia	6	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
Latin America and the Caribbean	16	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	7	8
Middle East and North Africa	35	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28	30	29
South Asia	59	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	46	45
Sub-Saharan Africa	51	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	47	47
Low- and middle-income countries	51	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46	46	46
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	51	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46	46	46
Attributable Mortality (thousands)																			
East Asia and Pacific	8	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	3	11
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	6
South Asia	18	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	20	38
Sub-Saharan Africa	257	285	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	257	285	542
Low- and middle-income countries	286	312	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	286	312	598
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	286	312	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	286	312	598
Attributable YLL (thousands)																			
East Asia and Pacific	231	104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	231	104	335
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	5	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	4	9
Middle East and North Africa	91	102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91	102	193
South Asia	542	606	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	542	606	1,148
Sub-Saharan Africa	7,770	8,683	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,770	8,683	16,452
Low- and middle-income countries	8,638	9,499	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,638	9,499	18,137
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	8,638	9,499	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,638	9,499	18,137
Attributable DALYs (thousands)																			
East Asia and Pacific	232	106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	232	106	338
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	5	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	4	9
Middle East and North Africa	92	103	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	92	103	195
South Asia	557	620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	557	620	1,177
Sub-Saharan Africa	7,876	8,789	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,876	8,789	16,665
Low- and middle-income countries	8,763	9,622	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,763	9,622	18,385
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	8,763	9,622	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,763	9,622	18,385

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.4

Risk factor: Childhood underweight
Disease: Lower respiratory infections

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	39	39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	15	13
Europe and Central Asia	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	8	7
Latin America and the Caribbean	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5	5
Middle East and North Africa	35	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	24	24
South Asia	63	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	37	37
Sub-Saharan Africa	52	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	33	36
Low- and middle-income countries	54	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	29	30
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	54	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28	26	27
PAF of YLL (%)																			
East Asia and Pacific	39	39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	25	22
Europe and Central Asia	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	12	11
Latin America and the Caribbean	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	10	10
Middle East and North Africa	35	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	29	29
South Asia	63	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	48	49
Sub-Saharan Africa	52	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	43	37	40
Low- and middle-income countries	54	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	38	39
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	54	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	37	38
PAF of DALYs (%)																			
East Asia and Pacific	35	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	23	21
Europe and Central Asia	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	12	10
Latin America and the Caribbean	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9	9
Middle East and North Africa	33	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27	27	27
South Asia	61	61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	47	47
Sub-Saharan Africa	51	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42	36	39
Low- and middle-income countries	52	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	37	38
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	52	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	36	37
Attributable Mortality (thousands)																			
East Asia and Pacific	24	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	47	71
Europe and Central Asia	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	3	7
Latin America and the Caribbean	5	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	4	8
Middle East and North Africa	14	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	12	26
South Asia	259	262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	259	262	521
Sub-Saharan Africa	226	165	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	226	165	391
Low- and middle-income countries	532	493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	532	493	1,024
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	532	493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	532	493	1,024
Attributable YLL (thousands)																			
East Asia and Pacific	730	1,430	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	730	1,430	2,160
Europe and Central Asia	116	98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	116	98	214
Latin America and the Caribbean	137	117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	137	117	254
Middle East and North Africa	414	379	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	414	379	793
South Asia	7,838	7,974	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,838	7,974	15,812
Sub-Saharan Africa	6,851	5,016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,851	5,016	11,867
Low- and middle-income countries	16,086	15,014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16,086	15,014	31,100
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	16,086	15,014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16,086	15,014	31,100
Attributable DALYs (thousands)																			
East Asia and Pacific	762	1,486	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	762	1,486	2,248
Europe and Central Asia	117	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	117	100	217
Latin America and the Caribbean	144	124	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	144	124	269
Middle East and North Africa	424	388	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	424	388	812
South Asia	8,016	8,147	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8,016	8,147	16,162
Sub-Saharan Africa	6,935	5,053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,935	5,053	11,988
Low- and middle-income countries	16,398	15,298	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16,398	15,298	31,696
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	16,398	15,298	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16,398	15,298	31,696

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.5

Risk factor: Childhood underweight
Disease: Protein-energy malnutrition

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	40	45
Europe and Central Asia	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14	14
Latin America and the Caribbean	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	32	35
Middle East and North Africa	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	85	87
South Asia	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45	52	49
Sub-Saharan Africa	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	73	77	74
Low- and middle-income countries	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	58	58	58
High-income countries	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1	1
WORLD	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	55	56
PAF of YLL (%)																			
East Asia and Pacific	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62	57	60
Europe and Central Asia	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	24	23
Latin America and the Caribbean	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	61	59	60
Middle East and North Africa	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	93	90	92
South Asia	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	55	52
Sub-Saharan Africa	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	86	85
Low- and middle-income countries	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69	69	69
High-income countries	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	4	4
WORLD	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	69	68	69
PAF of DALYs (%)																			
East Asia and Pacific	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91	91	91
Europe and Central Asia	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	85	86	86
Latin America and the Caribbean	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	72	71	72
Middle East and North Africa	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	98	96	97
South Asia	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	83	84
Sub-Saharan Africa	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	92	93	92
Low- and middle-income countries	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	88	88
High-income countries	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	57	47	52
WORLD	100	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	87	88
Attributable Mortality (thousands)																			
East Asia and Pacific	7	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	5	12
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	7	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	6	13
Middle East and North Africa	3	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	4	7
South Asia	13	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	20	33
Sub-Saharan Africa	40	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	34	74
Low- and middle-income countries	70	69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	69	139
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	70	69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	69	140
Attributable YLL (thousands)																			
East Asia and Pacific	212	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	212	150	363
Europe and Central Asia	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	7
Latin America and the Caribbean	212	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	212	180	392
Middle East and North Africa	103	119	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	103	119	221
South Asia	392	608	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	392	608	1,000
Sub-Saharan Africa	1,202	1,042	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,202	1,042	2,244
Low- and middle-income countries	2,124	2,102	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,124	2,102	4,226
High-income countries	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1	3
WORLD	2,126	2,104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,126	2,104	4,229
Attributable DALYs (thousands)																			
East Asia and Pacific	1,303	1,184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,303	1,184	2,487
Europe and Central Asia	75	74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	75	74	149
Latin America and the Caribbean	345	311	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	345	311	655
Middle East and North Africa	351	341	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	351	341	692
South Asia	2,319	2,441	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,319	2,441	4,759
Sub-Saharan Africa	2,497	2,322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,497	2,322	4,819
Low- and middle-income countries	6,889	6,672	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,889	6,672	13,561
High-income countries	35	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	33	67
WORLD	6,924	6,705	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,924	6,705	13,628

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.6

Risk factor: Childhood underweight
Disease: Selected other Group I diseases

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	40	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	5	4
Europe and Central Asia	22	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	6	3
Latin America and the Caribbean	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	4	4
Middle East and North Africa	36	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	13	13
South Asia	64	64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	17	14
Sub-Saharan Africa	53	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	18	19
Low- and middle-income countries	53	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	14	13
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	53	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	14	13
PAF of YLL (%)																			
East Asia and Pacific	40	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	7	7
Europe and Central Asia	22	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	8	5
Latin America and the Caribbean	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	5	6
Middle East and North Africa	36	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	16	18
South Asia	64	64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	21	19
Sub-Saharan Africa	53	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	20	22
Low- and middle-income countries	53	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	18	17
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	53	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	18	17
PAF of DALYs (%)																			
East Asia and Pacific	29	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	4	5
Europe and Central Asia	17	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
Latin America and the Caribbean	15	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	3	4
Middle East and North Africa	30	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	8	10
South Asia	52	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	15	14
Sub-Saharan Africa	47	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	15	17
Low- and middle-income countries	44	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	12	13
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	43	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	12	12
Attributable Mortality (thousands)																			
East Asia and Pacific	21	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21	18	39
Europe and Central Asia	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	4
Latin America and the Caribbean	5	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	4	9
Middle East and North Africa	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	8	16
South Asia	106	173	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	106	173	279
Sub-Saharan Africa	156	153	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	156	153	309
Low- and middle-income countries	298	358	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	298	358	656
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	298	358	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	298	358	656
Attributable YLL (thousands)																			
East Asia and Pacific	646	546	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	646	546	1,193
Europe and Central Asia	61	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	61	53	114
Latin America and the Caribbean	154	109	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	154	109	263
Middle East and North Africa	247	249	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	247	249	497
South Asia	3,197	5,265	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,197	5,265	8,462
Sub-Saharan Africa	4,700	4,658	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,700	4,658	9,358
Low- and middle-income countries	9,005	10,881	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,005	10,881	19,887
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	9,005	10,881	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,005	10,881	19,887
Attributable DALYs (thousands)																			
East Asia and Pacific	646	546	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	646	546	1,193
Europe and Central Asia	61	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	61	53	114
Latin America and the Caribbean	154	109	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	154	109	263
Middle East and North Africa	247	249	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	247	249	497
South Asia	3,197	5,265	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,197	5,265	8,462
Sub-Saharan Africa	4,700	4,658	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,700	4,658	9,358
Low- and middle-income countries	9,005	10,881	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,005	10,881	19,887
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	9,005	10,881	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9,005	10,881	19,887

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.7

Risk factor: Childhood underweight
Disease: All causes

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	16	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
Europe and Central Asia	8	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Middle East and North Africa	19	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	5	5
South Asia	37	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	11	10
Sub-Saharan Africa	40	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17	17
Low- and middle-income countries	34	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	8	8
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	33	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	7	6
PAF of YLL (%)																			
East Asia and Pacific	16	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	4	4
Europe and Central Asia	8	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Latin America and the Caribbean	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	3	2
Middle East and North Africa	19	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	8	7
South Asia	37	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	17	15
Sub-Saharan Africa	40	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21	21	21
Low- and middle-income countries	34	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	13	12
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	33	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	12	11
PAF of DALYs (%)																			
East Asia and Pacific	14	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
Europe and Central Asia	6	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	1	1
Latin America and the Caribbean	7	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	2	1
Middle East and North Africa	14	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	5
South Asia	31	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	12	11
Sub-Saharan Africa	36	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17	17
Low- and middle-income countries	28	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	9	9
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	27	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	8	8
Attributable Mortality (thousands)																			
East Asia and Pacific	115	124	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	115	124	239
Europe and Central Asia	8	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	7	15
Latin America and the Caribbean	23	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	19	42
Middle East and North Africa	44	43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	43	87
South Asia	666	728	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	666	728	1,394
Sub-Saharan Africa	957	896	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	957	896	1,853
Low- and middle-income countries	1,814	1,816	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,814	1,816	3,630
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	1,814	1,816	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,814	1,816	3,630
Attributable YLL (thousands)																			
East Asia and Pacific	3,488	3,781	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,488	3,781	7,269
Europe and Central Asia	245	213	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	245	213	458
Latin America and the Caribbean	687	573	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	687	573	1,261
Middle East and North Africa	1,334	1,299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,334	1,299	2,633
South Asia	20,164	22,167	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20,164	22,167	42,331
Sub-Saharan Africa	28,919	27,261	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28,919	27,261	56,181
Low- and middle-income countries	54,838	55,295	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54,838	55,295	110,132
High-income countries	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1	3
WORLD	54,839	55,296	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54,839	55,296	110,135
Attributable DALYs (thousands)																			
East Asia and Pacific	4,628	4,887	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,628	4,887	9,516
Europe and Central Asia	319	285	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	319	285	604
Latin America and the Caribbean	831	714	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	831	714	1,546
Middle East and North Africa	1,598	1,537	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,598	1,537	3,134
South Asia	22,361	24,259	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22,361	24,259	46,620
Sub-Saharan Africa	30,440	28,720	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30,440	28,720	59,160
Low- and middle-income countries	60,177	60,403	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60,177	60,403	120,579
High-income countries	35	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	33	67
WORLD	60,211	60,436	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60,211	60,436	120,647

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.8

Risk factor: Iron-deficiency anemia
Disease: Maternal conditions

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	17	NA	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16
Europe and Central Asia	NA	NA	NA	NA	NA	8	NA	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	8
Latin America and the Caribbean	NA	NA	NA	NA	NA	7	NA	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	7
Middle East and North Africa	NA	NA	NA	NA	NA	14	NA	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14
South Asia	NA	NA	NA	NA	NA	22	NA	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	22
Sub-Saharan Africa	NA	NA	NA	NA	NA	14	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	13
Low- and middle-income countries	NA	NA	NA	NA	NA	17	NA	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17
High-income countries	NA	NA	NA	NA	NA	4	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4
WORLD	NA	NA	NA	NA	NA	17	NA	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	17	NA	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16
Europe and Central Asia	NA	NA	NA	NA	NA	8	NA	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	8
Latin America and the Caribbean	NA	NA	NA	NA	NA	7	NA	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	7
Middle East and North Africa	NA	NA	NA	NA	NA	14	NA	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14
South Asia	NA	NA	NA	NA	NA	22	NA	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	22
Sub-Saharan Africa	NA	NA	NA	NA	NA	14	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	13
Low- and middle-income countries	NA	NA	NA	NA	NA	17	NA	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17
High-income countries	NA	NA	NA	NA	NA	4	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4
WORLD	NA	NA	NA	NA	NA	17	NA	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	3	NA	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5
Europe and Central Asia	NA	NA	NA	NA	NA	1	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
Latin America and the Caribbean	NA	NA	NA	NA	NA	2	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2
Middle East and North Africa	NA	NA	NA	NA	NA	3	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4
South Asia	NA	NA	NA	NA	NA	9	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	8	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	8
Low- and middle-income countries	NA	NA	NA	NA	NA	7	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	7	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	8
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	3	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	6
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	1	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
Middle East and North Africa	NA	NA	NA	NA	NA	1	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2
South Asia	NA	NA	NA	NA	NA	22	NA	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	44
Sub-Saharan Africa	NA	NA	NA	NA	NA	17	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	31
Low- and middle-income countries	NA	NA	NA	NA	NA	44	NA	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	85	85
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	44	NA	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	85	85
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	73	NA	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	158	158
Europe and Central Asia	NA	NA	NA	NA	NA	3	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5
Latin America and the Caribbean	NA	NA	NA	NA	NA	16	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	29
Middle East and North Africa	NA	NA	NA	NA	NA	27	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	55	55
South Asia	NA	NA	NA	NA	NA	608	NA	565	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,173	1,173
Sub-Saharan Africa	NA	NA	NA	NA	NA	488	NA	337	NA	NA	NA	NA	NA	NA	NA	NA	NA	826	826
Low- and middle-income countries	NA	NA	NA	NA	NA	1,217	NA	1,029	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,246	2,246
High-income countries	NA	NA	NA	NA	NA	0	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
WORLD	NA	NA	NA	NA	NA	1,217	NA	1,030	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,247	2,247
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	73	NA	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	158	158
Europe and Central Asia	NA	NA	NA	NA	NA	3	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5
Latin America and the Caribbean	NA	NA	NA	NA	NA	16	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	29
Middle East and North Africa	NA	NA	NA	NA	NA	27	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	55	55
South Asia	NA	NA	NA	NA	NA	608	NA	565	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,173	1,173
Sub-Saharan Africa	NA	NA	NA	NA	NA	488	NA	337	NA	NA	NA	NA	NA	NA	NA	NA	NA	826	826
Low- and middle-income countries	NA	NA	NA	NA	NA	1,217	NA	1,029	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,246	2,246
High-income countries	NA	NA	NA	NA	NA	0	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
WORLD	NA	NA	NA	NA	NA	1,217	NA	1,030	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,247	2,247

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.9

Risk factor: Iron-deficiency anemia
Disease: Perinatal conditions

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	13	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	13	13
Europe and Central Asia	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	6	6
Latin America and the Caribbean	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	5
Middle East and North Africa	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	12
South Asia	18	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
Sub-Saharan Africa	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20	20
Low- and middle-income countries	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16	16
High-income countries	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
WORLD	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16	16
PAF of YLL (%)																			
East Asia and Pacific	13	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	13	13
Europe and Central Asia	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	6	6
Latin America and the Caribbean	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	5
Middle East and North Africa	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	12
South Asia	18	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
Sub-Saharan Africa	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20	20
Low- and middle-income countries	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16	16
High-income countries	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
WORLD	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16	16
PAF of DALYs (%)																			
East Asia and Pacific	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	11
Europe and Central Asia	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	5
Latin America and the Caribbean	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Middle East and North Africa	9	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	8	9
South Asia	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16	16
Sub-Saharan Africa	18	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	17	17
Low- and middle-income countries	14	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	13	14
High-income countries	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
WORLD	14	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	13	14
Attributable Mortality (thousands)																			
East Asia and Pacific	35	32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	32	66
Europe and Central Asia	2	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1	3
Latin America and the Caribbean	5	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	4	9
Middle East and North Africa	7	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	5	12
South Asia	108	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108	89	197
Sub-Saharan Africa	66	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	66	48	114
Low- and middle-income countries	223	179	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	223	179	402
High-income countries	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0	1
WORLD	224	179	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	224	179	403
Attributable YLL (thousands)																			
East Asia and Pacific	1,047	970	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,047	970	2,016
Europe and Central Asia	61	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	61	45	106
Latin America and the Caribbean	151	117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	151	117	268
Middle East and North Africa	225	147	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	225	147	372
South Asia	3,272	2,704	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,272	2,704	5,976
Sub-Saharan Africa	2,001	1,466	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,001	1,466	3,466
Low- and middle-income countries	6,757	5,448	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,757	5,448	12,205
High-income countries	17	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	13	30
WORLD	6,774	5,461	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,774	5,461	12,235
Attributable DALYs (thousands)																			
East Asia and Pacific	1,047	970	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,047	970	2,016
Europe and Central Asia	61	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	61	45	106
Latin America and the Caribbean	151	117	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	151	117	268
Middle East and North Africa	225	147	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	225	147	372
South Asia	3,272	2,704	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,272	2,704	5,976
Sub-Saharan Africa	2,001	1,466	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,001	1,466	3,466
Low- and middle-income countries	6,757	5,448	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,757	5,448	12,205
High-income countries	17	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	13	30
WORLD	6,774	5,461	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,774	5,461	12,235

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.10

Risk factor: Iron-deficiency anemia
Disease: Iron-deficiency anemia

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of YLL (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of DALYs (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Attributable Mortality (thousands)																			
East Asia and Pacific	1	1	0	0	1	2	1	5	2	7	0	3	0	1	0	1	6	19	25
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3
Latin America and the Caribbean	1	1	0	0	1	0	1	0	1	1	1	0	1	1	1	2	6	6	13
Middle East and North Africa	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2	3	6
South Asia	0	2	2	1	2	2	4	7	11	21	0	7	0	0	0	0	19	42	61
Sub-Saharan Africa	5	7	1	2	0	0	0	0	1	1	1	0	0	0	0	0	8	11	18
Low- and middle-income countries	9	11	3	5	4	5	6	13	15	30	2	12	2	4	2	4	43	83	126
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	2	5	7
WORLD	9	11	3	5	4	5	6	13	15	30	2	12	3	5	3	7	46	88	133
Attributable YLL (thousands)																			
East Asia and Pacific	28	17	10	8	40	43	21	118	35	134	6	45	3	12	1	4	145	381	526
Europe and Central Asia	8	6	3	2	6	3	5	4	4	4	3	4	2	4	1	1	31	29	60
Latin America and the Caribbean	30	18	10	12	19	14	20	11	15	21	8	7	7	12	5	8	114	104	218
Middle East and North Africa	26	21	6	16	3	5	2	4	2	4	3	4	3	7	1	4	47	64	111
South Asia	12	64	47	43	44	70	88	171	215	434	2	122	2	3	0	1	411	908	1,319
Sub-Saharan Africa	159	208	22	60	3	13	7	4	12	12	7	4	2	2	0	0	212	303	515
Low- and middle-income countries	265	334	98	139	114	148	142	312	284	610	29	186	20	40	8	19	960	1,789	2,748
High-income countries	0	0	0	2	0	0	1	1	2	2	2	3	4	7	6	14	17	29	45
WORLD	265	334	98	141	114	148	143	314	287	612	31	189	24	47	14	33	976	1,817	2,794
Attributable DALYs (thousands)																			
East Asia and Pacific	124	116	176	465	325	391	160	275	157	311	50	86	17	29	3	8	1,013	1,682	2,695
Europe and Central Asia	34	32	25	40	24	122	22	31	16	24	21	12	7	8	1	2	149	271	421
Latin America and the Caribbean	62	47	22	40	48	75	25	51	18	28	12	11	9	15	5	9	201	276	477
Middle East and North Africa	56	53	70	144	57	58	32	33	17	27	10	10	7	9	2	4	250	338	587
South Asia	330	374	106	175	318	363	346	479	294	558	31	182	15	36	4	6	1,443	2,172	3,616
Sub-Saharan Africa	273	323	199	173	180	200	88	137	27	41	16	15	6	8	1	1	789	899	1,688
Low- and middle-income countries	879	945	598	1,037	953	1,210	672	1,005	530	989	139	316	60	106	15	30	3,846	5,637	9,483
High-income countries	20	20	11	28	111	173	31	85	37	85	35	33	33	25	13	18	291	467	758
WORLD	899	964	609	1,066	1,064	1,382	703	1,091	567	1,074	174	348	93	131	28	48	4,137	6,104	10,241

Source: Authors' calculations.

Table 4A.11

Risk factor: Iron-deficiency anemia
Disease: All causes

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	5	5	0	0	0	2	0	2	0	1	0	0	0	0	0	0	1	1	1
Europe and Central Asia	2	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	3	2	1	2	0	2	0	1	0	1	0	0	0	0	0	0	1	1	1
Middle East and North Africa	4	3	1	2	0	3	0	2	0	0	0	0	0	0	0	1	1	1	1
South Asia	6	5	1	0	0	5	1	6	1	3	0	1	0	0	0	0	2	3	2
Sub-Saharan Africa	3	3	0	1	0	3	0	2	0	0	0	0	0	0	0	0	1	2	2
Low- and middle-income countries	4	4	0	1	0	3	0	3	0	1	0	0	0	0	0	0	1	2	1
High-income countries	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	4	4	0	1	0	3	0	3	0	1	0	0	0	0	0	0	1	1	1
PAF of YLL (%)																			
East Asia and Pacific	5	5	0	0	0	2	0	2	0	1	0	0	0	0	0	0	1	2	1
Europe and Central Asia	2	2	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	3	2	1	2	0	2	0	1	0	1	0	0	0	0	0	0	1	1	1
Middle East and North Africa	4	3	1	2	0	3	0	2	0	0	0	0	0	0	0	1	1	2	2
South Asia	6	5	1	0	0	5	1	6	1	3	0	1	0	0	0	0	3	4	3
Sub-Saharan Africa	3	3	0	1	0	3	0	2	0	0	0	0	0	0	0	0	2	2	2
Low- and middle-income countries	4	4	0	1	0	3	0	3	0	1	0	0	0	0	0	0	2	2	2
High-income countries	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	4	4	0	1	0	3	0	3	0	1	0	0	0	0	0	0	1	2	2
PAF of DALYs (%)																			
East Asia and Pacific	4	3	2	6	1	2	1	2	0	1	0	0	0	0	0	0	1	2	1
Europe and Central Asia	2	2	1	3	0	2	0	1	0	0	0	0	0	0	0	0	0	1	0
Latin America and the Caribbean	2	2	1	1	0	1	0	1	0	0	0	0	0	0	0	0	1	1	1
Middle East and North Africa	3	2	3	6	1	2	1	2	0	1	0	0	0	0	0	0	1	2	2
South Asia	5	4	1	1	1	3	1	4	1	2	0	1	0	0	0	0	2	3	3
Sub-Saharan Africa	3	2	2	1	1	2	0	2	0	0	0	0	0	0	0	0	2	2	2
Low- and middle-income countries	4	3	1	2	1	2	1	2	0	1	0	0	0	0	0	0	1	2	2
High-income countries	1	1	1	2	1	3	0	1	0	1	0	0	0	0	0	0	0	1	1
WORLD	3	3	1	2	1	3	1	2	0	1	0	0	0	0	0	0	1	2	2
Attributable Mortality (thousands)																			
East Asia and Pacific	35	32	0	0	1	4	1	8	2	7	0	3	0	1	0	1	41	56	97
Europe and Central Asia	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	7
Latin America and the Caribbean	6	4	0	0	1	1	1	1	1	1	1	0	1	1	1	2	11	11	23
Middle East and North Africa	8	6	0	1	0	1	0	1	0	0	0	0	0	1	0	1	10	10	20
South Asia	108	91	2	1	2	24	4	30	11	21	0	7	0	0	0	0	127	175	302
Sub-Saharan Africa	71	55	1	2	0	18	0	14	1	1	0	0	0	0	0	0	74	90	163
Low- and middle-income countries	232	190	3	5	4	49	6	54	15	30	2	12	2	4	2	4	266	346	613
High-income countries	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	3	5	8
WORLD	232	190	3	5	4	49	6	54	15	30	2	12	3	5	3	7	269	351	621
Attributable YLL (thousands)																			
East Asia and Pacific	1,075	987	10	8	40	117	21	202	35	134	6	45	3	12	1	4	1,192	1,509	2,700
Europe and Central Asia	70	51	3	2	6	7	5	6	4	4	3	4	2	4	1	1	92	79	171
Latin America and the Caribbean	182	135	10	12	19	30	20	24	15	21	8	7	7	12	5	8	265	249	515
Middle East and North Africa	251	168	6	16	3	32	2	32	2	4	3	4	3	7	1	4	272	267	538
South Asia	3,284	2,768	47	43	44	678	88	736	215	434	2	122	2	3	0	1	3,683	4,785	8,468
Sub-Saharan Africa	2,160	1,673	22	60	3	501	7	342	12	12	7	4	2	2	0	0	2,213	2,594	4,807
Low- and middle-income countries	7,022	5,782	98	139	114	1,364	142	1,341	284	610	29	186	20	40	8	19	7,717	9,482	17,199
High-income countries	18	13	0	2	0	1	1	2	2	2	2	3	4	7	6	14	34	43	77
WORLD	7,039	5,795	98	141	114	1,365	143	1,343	287	612	31	189	24	47	14	33	7,750	9,525	17,275
Attributable DALYs (thousands)																			
East Asia and Pacific	1,171	1,086	176	465	325	464	160	359	157	311	50	86	17	29	3	8	2,060	2,809	4,869
Europe and Central Asia	95	76	25	40	24	125	22	33	16	24	21	12	7	8	1	2	211	321	532
Latin America and the Caribbean	214	164	22	40	48	91	25	63	18	28	12	11	9	15	5	9	352	421	774
Middle East and North Africa	281	200	70	144	57	85	32	61	17	27	10	10	7	9	2	4	475	540	1,015
South Asia	3,602	3,078	106	175	318	971	346	1,044	294	558	31	182	15	36	4	6	4,715	6,049	10,764
Sub-Saharan Africa	2,273	1,788	199	173	180	689	88	474	27	41	16	15	6	8	1	1	2,790	3,190	5,980
Low- and middle-income countries	7,636	6,393	598	1,037	953	2,426	672	2,034	530	989	139	316	60	106	15	30	10,602	13,331	23,933
High-income countries	37	33	11	28	111	173	31	86	37	85	35	33	33	25	13	18	308	481	789
WORLD	7,673	6,425	609	1,066	1,064	2,599	703	2,120	567	1,074	174	348	93	131	28	48	10,911	13,812	24,722

Source: Authors' calculations.

Table 4A.12

Risk factor: Vitamin A deficiency
Disease: Diarrheal diseases

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	19	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17	17
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	12	12
Middle East and North Africa	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	13	13
South Asia	25	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23	23
Sub-Saharan Africa	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	24	24
Low- and middle-income countries	24	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	22	22
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	24	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	22	22
PAF of YLL (%)																			
East Asia and Pacific	19	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14	14
Middle East and North Africa	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14	14
South Asia	25	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	24	24
Sub-Saharan Africa	27	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25	26	25
Low- and middle-income countries	24	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23	23
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	24	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23	23
PAF of DALYs (%)																			
East Asia and Pacific	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	13	13
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9	9
Middle East and North Africa	13	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	12
South Asia	23	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	22	22	22
Sub-Saharan Africa	25	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	24	24
Low- and middle-income countries	22	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20	20
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	22	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20	20
Attributable Mortality (thousands)																			
East Asia and Pacific	20	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	18	38
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	3	7
Middle East and North Africa	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	10
South Asia	83	76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83	76	158
Sub-Saharan Africa	90	82	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	82	172
Low- and middle-income countries	201	184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	201	184	385
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	201	184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	201	184	385
Attributable YLL (thousands)																			
East Asia and Pacific	599	555	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	599	555	1,154
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	1
Latin America and the Caribbean	108	98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108	98	206
Middle East and North Africa	155	144	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	155	144	299
South Asia	2,500	2,308	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,500	2,308	4,808
Sub-Saharan Africa	2,719	2,486	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,719	2,486	5,205
Low- and middle-income countries	6,081	5,592	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,081	5,592	11,673
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	6,081	5,592	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,081	5,592	11,673
Attributable DALYs (thousands)																			
East Asia and Pacific	599	555	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	599	555	1,154
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	1
Latin America and the Caribbean	108	98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108	98	206
Middle East and North Africa	155	144	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	155	144	299
South Asia	2,500	2,308	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,500	2,308	4,808
Sub-Saharan Africa	2,719	2,486	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,719	2,486	5,205
Low- and middle-income countries	6,081	5,592	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,081	5,592	11,673
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	6,081	5,592	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,081	5,592	11,673

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.13

Risk factor: Vitamin A deficiency
Disease: Measles

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9	9
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	*	*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	*	*
Middle East and North Africa	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	8	7
South Asia	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	14	13
Sub-Saharan Africa	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17	17
Low- and middle-income countries	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
PAF of YLL (%)																			
East Asia and Pacific	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9	9
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	*	*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	*	*	*
Middle East and North Africa	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	8	7
South Asia	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14	14
Sub-Saharan Africa	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17	17
Low- and middle-income countries	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
PAF of DALYs (%)																			
East Asia and Pacific	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9	9
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	*	*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	7	7
South Asia	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	14	13
Sub-Saharan Africa	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17	17
Low- and middle-income countries	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
Attributable Mortality (thousands)																			
East Asia and Pacific	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	7
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	14	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	15	29
Sub-Saharan Africa	38	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	37	75
Low- and middle-income countries	56	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	56	112
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	56	56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	56	112
Attributable YLL (thousands)																			
East Asia and Pacific	99	104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99	104	203
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	17	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	18	34
South Asia	428	451	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	428	451	879
Sub-Saharan Africa	1,137	1,134	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,137	1,134	2,271
Low- and middle-income countries	1,681	1,706	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,681	1,706	3,388
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	1,681	1,706	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,681	1,706	3,388
Attributable DALYs (thousands)																			
East Asia and Pacific	99	104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99	104	203
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	17	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	18	34
South Asia	428	451	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	428	451	879
Sub-Saharan Africa	1,137	1,134	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,137	1,134	2,271
Low- and middle-income countries	1,681	1,706	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,681	1,706	3,388
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	1,681	1,706	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,681	1,706	3,388

Source: Authors' calculations.

Note: NA = not applicable.

*The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.14

Risk factor: Vitamin A deficiency
Disease: Malaria

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	13	12
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9	9
Middle East and North Africa	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	10	9
South Asia	19	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17	17
Sub-Saharan Africa	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
Low- and middle-income countries	19	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	18	18
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	19	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	18	18
PAF of YLL (%)																			
East Asia and Pacific	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	13	13
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	10	9
Middle East and North Africa	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	10	10
South Asia	19	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17	17
Sub-Saharan Africa	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
Low- and middle-income countries	19	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	19	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
PAF of DALYs (%)																			
East Asia and Pacific	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	10	11
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5	6
Middle East and North Africa	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9	9
South Asia	19	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14	14
Sub-Saharan Africa	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
Low- and middle-income countries	19	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	19	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18	18
Attributable Mortality (thousands)																			
East Asia and Pacific	3	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	1	4
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	2
South Asia	5	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	6	11
Sub-Saharan Africa	92	103	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	92	103	195
Low- and middle-income countries	101	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101	110	211
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	101	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	101	110	211
Attributable YLL (thousands)																			
East Asia and Pacific	76	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	35	111
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	2	4
Middle East and North Africa	26	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	29	54
South Asia	152	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	152	170	322
Sub-Saharan Africa	2,794	3,125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,794	3,125	5,919
Low- and middle-income countries	3,050	3,360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,050	3,360	6,410
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	3,050	3,360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,050	3,360	6,410
Attributable DALYs (thousands)																			
East Asia and Pacific	81	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	81	40	121
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	3	6
Middle East and North Africa	28	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28	31	59
South Asia	176	193	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	176	193	369
Sub-Saharan Africa	3,069	3,397	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,069	3,397	6,466
Low- and middle-income countries	3,358	3,663	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,358	3,663	7,021
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	3,358	3,663	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,358	3,663	7,021

Source: Authors’ calculations.

Note: NA = not applicable.

Table 4A.15

Risk factor: Vitamin A deficiency
Disease: Other infectious diseases

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0	0
Middle East and North Africa	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Sub-Saharan Africa	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
Low- and middle-income countries	3	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	3	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
PAF of YLL (%)																			
East Asia and Pacific	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Middle East and North Africa	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	2	1
Sub-Saharan Africa	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
Low- and middle-income countries	3	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	2	1
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	3	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	2	1
PAF of DALYs (%)																			
East Asia and Pacific	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Middle East and North Africa	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Sub-Saharan Africa	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
Low- and middle-income countries	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Attributable Mortality (thousands)																			
East Asia and Pacific	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0	1
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
South Asia	2	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	4	6
Sub-Saharan Africa	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	9
Low- and middle-income countries	7	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	10	17
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	7	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	10	17
Attributable YLL (thousands)																			
East Asia and Pacific	19	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	14	33
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	7	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	5	12
Middle East and North Africa	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	6	13
South Asia	47	129	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	129	175
Sub-Saharan Africa	138	144	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	138	144	282
Low- and middle-income countries	217	297	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	217	297	515
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	217	298	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	217	298	515
Attributable DALYs (thousands)																			
East Asia and Pacific	19	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	14	33
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	7	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	5	12
Middle East and North Africa	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	6	13
South Asia	47	129	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	129	175
Sub-Saharan Africa	138	144	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	138	144	282
Low- and middle-income countries	217	297	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	217	297	515
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	217	298	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	217	298	515

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.16

Risk factor: Vitamin A deficiency
Disease: Selected maternal conditions

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	16	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	10	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	10
Middle East and North Africa	NA	NA	NA	NA	NA	13	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	13
South Asia	NA	NA	NA	NA	NA	17	NA	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17
Sub-Saharan Africa	NA	NA	NA	NA	NA	26	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	24
Low- and middle-income countries	NA	NA	NA	NA	NA	21	NA	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20
High-income countries	NA	NA	NA	NA	NA	1	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
WORLD	NA	NA	NA	NA	NA	21	NA	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	16	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	10	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	10
Middle East and North Africa	NA	NA	NA	NA	NA	13	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	13
South Asia	NA	NA	NA	NA	NA	17	NA	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17
Sub-Saharan Africa	NA	NA	NA	NA	NA	26	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	24
Low- and middle-income countries	NA	NA	NA	NA	NA	21	NA	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20
High-income countries	NA	NA	NA	NA	NA	1	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
WORLD	NA	NA	NA	NA	NA	21	NA	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	3	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	2	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2
Middle East and North Africa	NA	NA	NA	NA	NA	3	NA	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4
South Asia	NA	NA	NA	NA	NA	8	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	10
Sub-Saharan Africa	NA	NA	NA	NA	NA	17	NA	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18
Low- and middle-income countries	NA	NA	NA	NA	NA	10	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	10	NA	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	1	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
South Asia	NA	NA	NA	NA	NA	9	NA	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18
Sub-Saharan Africa	NA	NA	NA	NA	NA	16	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	30
Low- and middle-income countries	NA	NA	NA	NA	NA	27	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	52	52
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	27	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	52	52
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	35	NA	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	72	72
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	6	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12
Middle East and North Africa	NA	NA	NA	NA	NA	9	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	19
South Asia	NA	NA	NA	NA	NA	249	NA	234	NA	NA	NA	NA	NA	NA	NA	NA	NA	482	482
Sub-Saharan Africa	NA	NA	NA	NA	NA	438	NA	355	NA	NA	NA	NA	NA	NA	NA	NA	NA	794	794
Low- and middle-income countries	NA	NA	NA	NA	NA	737	NA	642	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,379	1,379
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	737	NA	642	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,379	1,379
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	35	NA	37	NA	NA	NA	NA	NA	NA	NA	NA	NA	72	72
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	6	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12
Middle East and North Africa	NA	NA	NA	NA	NA	9	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	19
South Asia	NA	NA	NA	NA	NA	249	NA	234	NA	NA	NA	NA	NA	NA	NA	NA	NA	482	482
Sub-Saharan Africa	NA	NA	NA	NA	NA	438	NA	355	NA	NA	NA	NA	NA	NA	NA	NA	NA	794	794
Low- and middle-income countries	NA	NA	NA	NA	NA	737	NA	642	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,379	1,379
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	737	NA	642	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,379	1,379

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.17

Risk factor: Vitamin A deficiency
Disease: Vitamin A deficiency

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of YLL (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of DALYs (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4
Sub-Saharan Africa	7	8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	8	10	18
Low- and middle-income countries	7	9	2	2	0	0	0	0	1	0	0	0	0	0	0	0	11	12	23
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	7	9	2	2	0	0	0	0	1	0	0	0	0	0	0	0	11	12	23
Attributable YLL (thousands)																			
East Asia and Pacific	1	0	2	1	0	0	1	0	0	0	0	0	0	0	0	0	5	1	6
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Middle East and North Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4
South Asia	14	37	43	27	0	0	0	0	0	0	0	0	0	0	0	0	57	65	121
Sub-Saharan Africa	196	229	16	33	2	8	5	4	9	8	5	3	1	1	0	0	235	285	520
Low- and middle-income countries	211	267	61	61	3	9	6	4	10	8	5	3	2	2	0	0	298	353	652
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
WORLD	211	267	61	61	3	9	6	4	10	8	5	3	2	2	0	0	298	354	652
Attributable DALYs (thousands)																			
East Asia and Pacific	2	2	3	2	0	0	1	0	0	0	0	0	0	0	0	0	7	3	10
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Middle East and North Africa	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	5
South Asia	23	46	46	30	0	0	0	0	0	0	0	0	0	0	0	0	70	77	146
Sub-Saharan Africa	206	238	20	37	2	8	5	4	9	8	5	3	1	1	0	0	249	299	548
Low- and middle-income countries	232	287	70	69	3	9	6	4	10	8	5	3	2	2	0	0	328	382	710
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
WORLD	232	287	70	70	3	9	6	4	10	8	5	3	2	2	0	0	328	382	711

Source: Authors' calculations.

Table 4A.18

Risk factor: Vitamin A deficiency
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	4	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	3	3	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	1
South Asia	6	6	1	0	0	2	0	2	0	0	0	0	0	0	0	0	1	2	2
Sub-Saharan Africa	10	11	0	0	0	2	0	2	0	0	0	0	0	0	0	0	4	5	5
Low- and middle-income countries	7	7	0	0	0	2	0	1	0	0	0	0	0	0	0	0	1	2	2
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	7	7	0	0	0	2	0	1	0	0	0	0	0	0	0	0	1	2	1
PAF of YLL (%)																			
East Asia and Pacific	4	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Middle East and North Africa	3	3	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	1
South Asia	6	6	0	0	0	2	0	2	0	0	0	0	0	0	0	0	2	3	2
Sub-Saharan Africa	10	11	0	0	0	2	0	2	0	0	0	0	0	0	0	0	5	6	6
Low- and middle-income countries	7	7	0	0	0	2	0	1	0	0	0	0	0	0	0	0	2	3	3
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	7	7	0	0	0	2	0	1	0	0	0	0	0	0	0	0	2	3	2
PAF of DALYs (%)																			
East Asia and Pacific	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
South Asia	4	4	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	2	2
Sub-Saharan Africa	9	10	0	0	0	2	0	2	0	0	0	0	0	0	0	0	4	5	5
Low- and middle-income countries	5	6	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	2	2
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	5	6	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	2	2
Attributable Mortality (thousands)																			
East Asia and Pacific	26	23	NA	0	0	1	0	1	0	0	0	0	0	0	0	0	26	26	52
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	8
Middle East and North Africa	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	14
South Asia	104	102	1	1	0	9	0	9	0	0	0	0	0	0	0	0	105	121	226
Sub-Saharan Africa	231	234	1	1	0	16	0	14	0	0	0	0	0	0	0	0	233	266	499
Low- and middle-income countries	372	369	2	2	0	27	0	26	1	0	0	0	0	0	0	0	376	424	800
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	372	369	2	2	0	27	0	26	1	0	0	0	0	0	0	0	376	424	800
Attributable YLL (thousands)																			
East Asia and Pacific	794	708	2	1	0	35	1	37	0	0	0	0	0	0	0	0	798	781	1,578
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Latin America and the Caribbean	118	105	0	0	0	6	0	6	0	0	0	0	0	0	0	0	118	117	235
Middle East and North Africa	204	197	0	0	0	9	0	10	0	0	0	0	0	0	0	0	206	218	423
South Asia	3,140	3,095	43	27	0	249	0	234	0	0	0	0	0	0	0	0	3,184	3,605	6,788
Sub-Saharan Africa	6,985	7,117	16	33	2	447	5	359	9	8	5	3	1	1	0	0	7,023	7,968	14,991
Low- and middle-income countries	11,241	11,222	61	61	3	746	6	646	10	8	5	3	2	2	0	0	11,329	12,688	24,017
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
WORLD	11,241	11,222	61	61	3	746	6	646	10	8	5	3	2	2	0	0	11,329	12,689	24,017
Attributable DALYs (thousands)																			
East Asia and Pacific	800	714	3	2	0	35	1	37	0	0	0	0	0	0	0	0	805	787	1,592
Europe and Central Asia	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Latin America and the Caribbean	119	106	0	0	0	6	0	6	0	0	0	0	0	0	0	0	119	118	237
Middle East and North Africa	207	200	0	0	0	9	0	10	0	0	0	0	0	0	0	0	209	221	430
South Asia	3,174	3,127	46	30	0	249	0	234	0	0	0	0	0	0	0	0	3,220	3,640	6,860
Sub-Saharan Africa	7,269	7,399	20	37	2	447	5	359	9	8	5	3	1	1	0	0	7,312	8,253	15,565
Low- and middle-income countries	11,570	11,546	70	69	3	746	6	646	10	8	5	3	2	2	0	0	11,666	13,020	24,686
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
WORLD	11,570	11,546	70	70	3	746	6	646	10	8	5	3	2	2	0	0	11,666	13,020	24,686

Source: Authors' calculations.

Table 4A.19

Risk factor: Zinc deficiency
Disease: Diarrheal diseases

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Europe and Central Asia	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
Latin America and the Caribbean	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	7	7
Middle East and North Africa	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9	9
South Asia	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
Sub-Saharan Africa	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	11
Low- and middle-income countries	13	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	11
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	13	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	11
PAF of YLL (%)																			
East Asia and Pacific	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Europe and Central Asia	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
Latin America and the Caribbean	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	8	8
Middle East and North Africa	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	10	9
South Asia	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	16	16
Sub-Saharan Africa	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	12
Low- and middle-income countries	13	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	12
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	13	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	12
PAF of DALYs (%)																			
East Asia and Pacific	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
Europe and Central Asia	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
Latin America and the Caribbean	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	7	7
Middle East and North Africa	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	9	9
South Asia	16	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	15
Sub-Saharan Africa	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	12
Low- and middle-income countries	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	11
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
WORLD	12	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	11
Attributable Mortality (thousands)																			
East Asia and Pacific	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	9
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	4
Middle East and North Africa	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	7
South Asia	53	49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	53	49	102
Sub-Saharan Africa	42	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	42	38	80
Low- and middle-income countries	105	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	105	96	201
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	105	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	105	96	201
Attributable YLL (thousands)																			
East Asia and Pacific	134	125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	134	125	260
Europe and Central Asia	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	10
Latin America and the Caribbean	62	57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	62	57	119
Middle East and North Africa	103	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	103	96	199
South Asia	1,610	1,487	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,610	1,487	3,097
Sub-Saharan Africa	1,263	1,156	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,263	1,156	2,419
Low- and middle-income countries	3,179	2,925	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,179	2,925	6,104
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	3,179	2,925	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,179	2,925	6,104
Attributable DALYs (thousands)																			
East Asia and Pacific	156	146	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	156	146	301
Europe and Central Asia	7	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	7	14
Latin America and the Caribbean	83	77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83	77	160
Middle East and North Africa	120	112	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120	112	233
South Asia	1,748	1,616	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,748	1,616	3,364
Sub-Saharan Africa	1,339	1,230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,339	1,230	2,570
Low- and middle-income countries	3,453	3,188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,453	3,188	6,641
High-income countries	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	3
WORLD	3,455	3,190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,455	3,190	6,645

Source: Authors' calculations.

Note: NA = not applicable.

Risk factor:	Zinc deficiency
Disease:	Malaria

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.21

Risk factor: Zinc deficiency
Disease: Lower respiratory infections

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	3	3
Europe and Central Asia	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	2	2
Latin America and the Caribbean	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Middle East and North Africa	17	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	12
South Asia	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	16	15
Sub-Saharan Africa	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	13	15
Low- and middle-income countries	22	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12	12
High-income countries	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	22	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	10	11
PAF of YLL (%)																			
East Asia and Pacific	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	5	4
Europe and Central Asia	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	3	2
Latin America and the Caribbean	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	7	7
Middle East and North Africa	17	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14	14
South Asia	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20	20
Sub-Saharan Africa	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	15	16
Low- and middle-income countries	22	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	15	16
High-income countries	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	22	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	15	15
PAF of DALYs (%)																			
East Asia and Pacific	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	5	5
Europe and Central Asia	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	3	2
Latin America and the Caribbean	15	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	8	8
Middle East and North Africa	17	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14	14
South Asia	26	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20	20
Sub-Saharan Africa	21	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	15	16
Low- and middle-income countries	22	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	15	16
High-income countries	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	22	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	15	15
Attributable Mortality (thousands)																			
East Asia and Pacific	5	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	9	14
Europe and Central Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	2
Latin America and the Caribbean	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	6
Middle East and North Africa	7	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	6	13
South Asia	108	109	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	108	109	218
Sub-Saharan Africa	91	66	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91	66	157
Low- and middle-income countries	215	194	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	215	194	409
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	215	194	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	215	194	409
Attributable YLL (thousands)																			
East Asia and Pacific	144	287	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	144	287	430
Europe and Central Asia	26	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	22	49
Latin America and the Caribbean	102	88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	102	88	190
Middle East and North Africa	201	184	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	201	184	385
South Asia	3,279	3,335	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,279	3,335	6,614
Sub-Saharan Africa	2,742	2,009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,742	2,009	4,751
Low- and middle-income countries	6,495	5,925	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,495	5,925	12,420
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
WORLD	6,495	5,926	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,495	5,926	12,421
Attributable DALYs (thousands)																			
East Asia and Pacific	165	325	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	165	325	490
Europe and Central Asia	28	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28	24	52
Latin America and the Caribbean	130	114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	130	114	244
Middle East and North Africa	219	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	219	200	419
South Asia	3,454	3,506	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,454	3,506	6,960
Sub-Saharan Africa	2,836	2,051	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,836	2,051	4,887
Low- and middle-income countries	6,831	6,220	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,831	6,220	13,052
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	2
WORLD	6,832	6,221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,832	6,221	13,053

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.22

Risk factor: Zinc deficiency
Disease: All causes

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Europe and Central Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	2	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	9	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	3	2
Sub-Saharan Africa	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Low- and middle-income countries	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	2	2
PAF of YLL (%)																			
East Asia and Pacific	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Europe and Central Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	2	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Middle East and North Africa	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
South Asia	9	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Sub-Saharan Africa	10	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	5
Low- and middle-income countries	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	3	3
PAF of DALYs (%)																			
East Asia and Pacific	1	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Europe and Central Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	3	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	8	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
Sub-Saharan Africa	9	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Low- and middle-income countries	6	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	6	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
Attributable Mortality (thousands)																			
East Asia and Pacific	11	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	14	25
Europe and Central Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	2
Latin America and the Caribbean	6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	5	10
Middle East and North Africa	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	22
South Asia	169	167	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	169	167	336
Sub-Saharan Africa	235	218	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	235	218	454
Low- and middle-income countries	433	416	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	433	416	849
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	433	416	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	433	416	849
Attributable YLL (thousands)																			
East Asia and Pacific	323	433	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	323	433	756
Europe and Central Asia	32	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	32	27	59
Latin America and the Caribbean	169	147	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	169	147	316
Middle East and North Africa	348	329	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	348	329	677
South Asia	5,118	5,077	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,118	5,077	10,195
Sub-Saharan Africa	7,117	6,645	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,117	6,645	13,762
Low- and middle-income countries	13,106	12,658	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13,106	12,658	25,765
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	2
WORLD	13,107	12,659	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13,107	12,659	25,766
Attributable DALYs (thousands)																			
East Asia and Pacific	369	494	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	369	494	863
Europe and Central Asia	35	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	31	66
Latin America and the Caribbean	218	195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	218	195	413
Middle East and North Africa	387	366	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	387	366	752
South Asia	5,467	5,412	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,467	5,412	10,878
Sub-Saharan Africa	7,592	7,065	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,592	7,065	14,657
Low- and middle-income countries	14,068	13,563	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14,068	13,563	27,631
High-income countries	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	2	5
WORLD	14,071	13,565	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14,071	13,565	27,636

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.23

Risk factor: High blood pressure
Disease: Hypertensive heart disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	24	17	64	69	79	85	80	86	73	81	73	80	76
Europe and Central Asia	NA	NA	NA	NA	NA	NA	63	54	86	90	92	96	92	97	87	94	88	94	91
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	49	32	76	75	85	88	86	89	79	84	79	82	81
Middle East and North Africa	NA	NA	NA	NA	NA	NA	38	31	72	79	84	91	85	92	79	88	78	86	82
South Asia	NA	NA	NA	NA	NA	NA	29	24	68	62	81	76	82	78	76	71	70	67	69
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	56	37	73	70	80	82	81	83	75	77	75	76	76
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	37	28	70	72	82	86	83	88	77	83	76	81	79
High-income countries	NA	NA	NA	NA	NA	NA	55	21	75	70	85	87	86	90	82	87	82	86	84
WORLD	NA	NA	NA	NA	NA	NA	38	28	71	72	82	86	83	88	78	84	76	82	79
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	24	17	64	69	79	85	80	86	73	81	69	77	73
Europe and Central Asia	NA	NA	NA	NA	NA	NA	63	54	86	90	92	96	92	97	87	94	86	92	89
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	49	32	76	75	85	88	86	89	79	84	76	78	77
Middle East and North Africa	NA	NA	NA	NA	NA	NA	38	31	72	79	84	91	85	92	79	88	74	82	78
South Asia	NA	NA	NA	NA	NA	NA	29	24	68	62	81	76	82	78	76	71	63	61	62
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	56	37	73	70	80	82	81	83	75	77	72	73	72
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	37	28	70	72	82	86	83	88	77	83	71	77	74
High-income countries	NA	NA	NA	NA	NA	NA	55	21	75	70	85	87	86	90	82	87	79	83	81
WORLD	NA	NA	NA	NA	NA	NA	38	28	71	72	82	86	83	88	78	84	72	78	75
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	24	17	64	69	79	85	80	86	73	81	69	77	73
Europe and Central Asia	NA	NA	NA	NA	NA	NA	63	54	86	90	92	96	92	97	87	94	86	92	89
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	49	32	76	75	85	88	86	89	79	84	76	78	77
Middle East and North Africa	NA	NA	NA	NA	NA	NA	38	31	72	79	84	91	85	92	79	88	74	82	78
South Asia	NA	NA	NA	NA	NA	NA	29	24	68	62	81	76	82	78	76	71	64	62	63
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	56	37	73	70	80	82	81	83	75	77	72	73	73
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	37	28	70	72	82	86	83	88	76	83	72	77	75
High-income countries	NA	NA	NA	NA	NA	NA	55	21	75	70	85	87	86	90	82	87	79	84	82
WORLD	NA	NA	NA	NA	NA	NA	38	28	71	72	82	86	83	88	78	84	73	78	75
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	1	18	14	37	29	43	49	21	41	120	134	254
Europe and Central Asia	NA	NA	NA	NA	NA	NA	1	1	8	6	12	13	13	22	6	18	41	59	100
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	1	5	4	7	7	10	12	8	16	31	39	71
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	0	4	4	8	7	11	12	6	8	30	31	61
South Asia	NA	NA	NA	NA	NA	NA	1	0	7	5	10	9	11	9	4	5	33	29	62
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	4	5	5	8	5	12	3	7	18	32	50
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	6	3	46	37	79	73	93	116	49	94	273	324	598
High-income countries	NA	NA	NA	NA	NA	NA	1	0	5	2	6	5	12	15	16	47	39	69	109
WORLD	NA	NA	NA	NA	NA	NA	7	4	50	40	85	78	105	131	65	141	313	393	706
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	38	17	334	270	494	438	381	503	107	215	1,354	1,443	2,797
Europe and Central Asia	NA	NA	NA	NA	NA	NA	33	15	143	111	168	190	121	228	29	84	493	629	1,121
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	22	14	94	90	98	109	86	120	39	73	338	406	744
Middle East and North Africa	NA	NA	NA	NA	NA	NA	13	7	83	70	107	107	99	124	28	44	331	351	683
South Asia	NA	NA	NA	NA	NA	NA	23	12	131	108	137	133	94	98	22	26	407	377	785
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	23	18	72	97	66	126	48	119	14	37	222	397	619
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	151	83	857	747	1,069	1,102	830	1,191	239	479	3,146	3,603	6,749
High-income countries	NA	NA	NA	NA	NA	NA	21	4	86	44	86	71	102	148	67	188	361	456	816
WORLD	NA	NA	NA	NA	NA	NA	172	87	943	792	1,155	1,173	932	1,340	306	668	3,507	4,059	7,566
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	40	18	355	286	532	465	434	552	139	261	1,501	1,581	3,083
Europe and Central Asia	NA	NA	NA	NA	NA	NA	34	16	148	115	176	199	131	246	35	101	524	677	1,201
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	22	14	98	94	104	115	96	131	49	90	369	444	813
Middle East and North Africa	NA	NA	NA	NA	NA	NA	13	7	86	74	112	112	107	132	32	52	350	377	728
South Asia	NA	NA	NA	NA	NA	NA	25	13	142	116	159	151	121	123	36	42	482	444	926
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	24	19	76	103	71	135	54	133	18	47	243	438	681
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	159	87	905	787	1,153	1,177	943	1,317	309	594	3,470	3,962	7,432
High-income countries	NA	NA	NA	NA	NA	NA	21	4	90	46	92	75	116	166	98	280	418	572	990
WORLD	NA	NA	NA	NA	NA	NA	180	91	995	833	1,245	1,252	1,060	1,483	407	874	3,888	4,534	8,421

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.24

Risk factor: High blood pressure
Disease: Ischemic heart disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	11	7	34	37	45	51	43	50	35	41	38	44	41
Europe and Central Asia	NA	NA	NA	NA	NA	NA	34	27	55	60	62	72	58	70	50	61	56	65	61
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	24	15	45	44	52	56	50	55	41	45	46	49	47
Middle East and North Africa	NA	NA	NA	NA	NA	NA	18	15	41	48	51	61	49	59	41	50	44	54	48
South Asia	NA	NA	NA	NA	NA	NA	13	10	36	32	47	43	45	41	37	34	40	37	39
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	29	17	42	39	47	48	44	47	37	39	43	44	43
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	20	12	42	40	51	53	49	55	41	50	45	49	47
High-income countries	NA	NA	NA	NA	NA	NA	28	9	44	40	53	55	51	56	44	49	47	51	49
WORLD	NA	NA	NA	NA	NA	NA	21	12	42	40	52	53	49	55	42	49	45	50	47
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	11	7	34	37	45	51	43	50	35	41	35	42	39
Europe and Central Asia	NA	NA	NA	NA	NA	NA	34	27	55	60	62	72	58	70	50	61	55	66	60
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	24	15	45	44	52	56	50	55	41	45	45	48	46
Middle East and North Africa	NA	NA	NA	NA	NA	NA	18	15	41	48	51	61	49	59	41	50	42	52	46
South Asia	NA	NA	NA	NA	NA	NA	13	10	36	32	47	43	45	41	37	34	38	35	37
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	29	17	42	39	47	48	44	47	37	39	43	43	43
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	20	12	42	40	51	53	49	54	40	49	43	47	45
High-income countries	NA	NA	NA	NA	NA	NA	28	9	44	40	53	55	51	56	44	49	47	51	49
WORLD	NA	NA	NA	NA	NA	NA	21	12	42	40	52	53	49	55	42	49	44	47	45
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	11	7	34	37	45	51	43	50	35	41	34	41	38
Europe and Central Asia	NA	NA	NA	NA	NA	NA	34	27	55	60	62	72	58	70	50	61	55	66	60
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	24	15	45	44	52	56	50	55	41	45	44	47	45
Middle East and North Africa	NA	NA	NA	NA	NA	NA	18	15	41	48	51	61	49	59	41	50	41	51	45
South Asia	NA	NA	NA	NA	NA	NA	13	10	36	32	47	43	45	41	37	34	37	34	36
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	29	17	42	39	47	48	44	47	37	39	42	42	42
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	20	12	42	40	51	53	49	54	40	49	42	46	44
High-income countries	NA	NA	NA	NA	NA	NA	28	9	44	40	53	55	51	56	44	49	47	50	48
WORLD	NA	NA	NA	NA	NA	NA	20	12	42	40	51	53	49	55	42	49	43	46	45
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	3	1	35	21	66	57	81	91	38	77	223	247	471
Europe and Central Asia	NA	NA	NA	NA	NA	NA	13	2	84	26	141	92	155	218	65	227	459	565	1,024
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	2	1	18	8	25	16	29	24	18	27	93	76	169
Middle East and North Africa	NA	NA	NA	NA	NA	NA	2	1	17	9	25	19	29	28	11	16	83	72	155
South Asia	NA	NA	NA	NA	NA	NA	6	3	89	40	138	99	133	111	50	42	415	296	711
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	1	17	10	24	22	26	26	8	12	77	71	148
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	29	8	258	115	419	307	454	497	190	401	1,350	1,328	2,678
High-income countries	NA	NA	NA	NA	NA	NA	5	0	39	9	69	29	118	88	110	202	340	328	668
WORLD	NA	NA	NA	NA	NA	NA	33	9	297	124	488	336	571	585	300	603	1,690	1,657	3,346
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	77	29	652	427	890	859	721	927	186	382	2,527	2,624	5,151
Europe and Central Asia	NA	NA	NA	NA	NA	NA	299	47	1,591	519	1,911	1,388	1,405	2,227	296	1,049	5,502	5,229	10,731
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	52	14	328	156	342	248	262	250	83	125	1,067	794	1,861
Middle East and North Africa	NA	NA	NA	NA	NA	NA	45	14	312	183	337	291	256	286	53	84	1,003	858	1,861
South Asia	NA	NA	NA	NA	NA	NA	149	83	1,652	797	1,862	1,497	1,193	1,160	244	226	5,100	3,764	8,864
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	49	13	308	197	332	339	233	269	40	66	962	885	1,846
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	671	200	4,842	2,280	5,673	4,622	4,071	5,120	903	1,933	16,160	14,154	30,315
High-income countries	NA	NA	NA	NA	NA	NA	106	8	723	177	921	432	1,030	876	480	830	3,261	2,324	5,585
WORLD	NA	NA	NA	NA	NA	NA	777	209	5,566	2,457	6,594	5,054	5,101	5,996	1,383	2,763	19,421	16,478	35,899
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	85	32	696	459	934	901	737	945	189	387	2,642	2,723	5,365
Europe and Central Asia	NA	NA	NA	NA	NA	NA	321	53	1,652	557	1,972	1,453	1,429	2,269	300	1,062	5,675	5,395	11,070
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	59	17	350	170	364	263	270	257	85	128	1,127	835	1,962
Middle East and North Africa	NA	NA	NA	NA	NA	NA	50	16	329	196	353	304	261	290	54	85	1,048	891	1,939
South Asia	NA	NA	NA	NA	NA	NA	170	95	1,753	860	1,960	1,577	1,223	1,186	248	230	5,354	3,948	9,302
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	54	16	327	210	348	357	239	275	41	67	1,010	924	1,934
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	740	229	5,108	2,451	5,932	4,854	4,159	5,221	917	1,960	16,856	14,716	31,572
High-income countries	NA	NA	NA	NA	NA	NA	121	11	797	213	991	485	1,084	934	497	861	3,490	2,504	5,994
WORLD	NA	NA	NA	NA	NA	NA	861	240	5,905	2,664	6,923	5,339	5,243	6,156	1,414	2,821	20,346	17,220	37,566

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.25

Risk factor: High blood pressure
Disease: Cerebrovascular disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	15	10	45	49	56	63	53	61	35	41	48	52	50
Europe and Central Asia	NA	NA	NA	NA	NA	NA	45	36	68	73	74	83	70	80	50	61	65	71	69
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	33	21	57	56	64	68	61	66	41	45	53	54	54
Middle East and North Africa	NA	NA	NA	NA	NA	NA	25	20	52	60	62	73	60	70	41	50	49	59	54
South Asia	NA	NA	NA	NA	NA	NA	18	15	48	43	59	54	56	52	37	34	51	46	49
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	39	24	54	50	59	60	55	58	37	39	50	51	51
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	27	19	51	52	61	65	58	65	39	47	52	56	54
High-income countries	NA	NA	NA	NA	NA	NA	38	13	57	51	64	67	62	67	44	49	53	54	54
WORLD	NA	NA	NA	NA	NA	NA	28	19	51	52	61	65	58	65	40	48	52	56	54
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	15	10	45	49	56	63	53	61	35	41	47	53	50
Europe and Central Asia	NA	NA	NA	NA	NA	NA	45	36	68	73	74	83	70	80	50	61	66	74	70
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	33	21	57	56	64	68	61	66	41	45	53	53	53
Middle East and North Africa	NA	NA	NA	NA	NA	NA	25	20	52	60	62	73	60	70	41	50	44	56	50
South Asia	NA	NA	NA	NA	NA	NA	18	15	48	43	59	54	56	52	37	34	50	47	48
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	39	24	54	50	59	60	55	58	37	39	49	50	49
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	27	19	51	52	61	65	58	64	39	47	52	56	54
High-income countries	NA	NA	NA	NA	NA	NA	38	13	57	51	64	67	62	67	44	49	55	56	56
WORLD	NA	NA	NA	NA	NA	NA	28	19	52	52	61	65	58	65	40	47	52	56	54
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	15	10	45	49	56	63	53	61	35	41	47	53	50
Europe and Central Asia	NA	NA	NA	NA	NA	NA	45	36	68	73	74	83	70	80	50	61	66	74	71
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	33	21	57	56	64	68	61	66	41	45	54	54	54
Middle East and North Africa	NA	NA	NA	NA	NA	NA	25	20	52	60	62	73	60	70	41	50	45	57	51
South Asia	NA	NA	NA	NA	NA	NA	18	15	48	43	59	54	56	52	37	34	50	47	49
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	39	24	54	50	59	60	55	58	37	39	49	50	50
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	26	19	51	52	61	65	58	65	39	47	52	56	54
High-income countries	NA	NA	NA	NA	NA	NA	38	13	57	51	64	67	62	67	44	49	56	56	56
WORLD	NA	NA	NA	NA	NA	NA	28	18	52	52	61	65	58	65	40	47	52	56	54
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	4	2	62	44	139	100	187	211	66	137	458	493	951
Europe and Central Asia	NA	NA	NA	NA	NA	NA	6	3	37	26	81	76	101	180	40	160	264	444	709
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	2	1	12	10	17	15	23	25	14	24	69	75	144
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	0	5	4	9	9	13	16	5	9	32	38	71
South Asia	NA	NA	NA	NA	NA	NA	2	1	36	22	82	68	89	90	27	31	237	212	449
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	15	18	21	31	24	39	8	16	73	107	179
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	18	9	167	124	350	300	438	560	160	377	1,133	1,369	2,502
High-income countries	NA	NA	NA	NA	NA	NA	2	1	14	8	28	19	63	68	64	151	172	247	418
WORLD	NA	NA	NA	NA	NA	NA	21	9	182	132	378	319	501	628	224	528	1,305	1,616	2,921
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	89	39	1,149	871	1,868	1,502	1,665	2,152	330	701	5,100	5,264	10,364
Europe and Central Asia	NA	NA	NA	NA	NA	NA	136	65	698	511	1,088	1,139	911	1,843	182	749	3,015	4,306	7,321
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	52	33	231	206	233	228	205	250	64	113	785	830	1,615
Middle East and North Africa	NA	NA	NA	NA	NA	NA	15	10	85	89	120	140	118	160	25	46	362	445	808
South Asia	NA	NA	NA	NA	NA	NA	42	21	677	436	1,113	1,022	798	942	134	167	2,762	2,588	5,350
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	100	48	288	366	282	475	214	402	41	88	926	1,379	2,305
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	433	216	3,128	2,479	4,704	4,506	3,910	5,749	776	1,863	12,951	14,812	27,763
High-income countries	NA	NA	NA	NA	NA	NA	56	14	269	161	379	285	544	675	275	621	1,523	1,756	3,279
WORLD	NA	NA	NA	NA	NA	NA	489	230	3,397	2,640	5,083	4,791	4,454	6,424	1,051	2,484	14,474	16,568	31,042
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	124	55	1,559	1,178	2,451	1,938	1,987	2,532	363	769	6,483	6,471	12,955
Europe and Central Asia	NA	NA	NA	NA	NA	NA	168	89	870	668	1,369	1,466	1,093	2,153	202	817	3,702	5,193	8,895
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	71	49	321	285	321	308	255	302	72	127	1,041	1,071	2,112
Middle East and North Africa	NA	NA	NA	NA	NA	NA	21	13	113	115	154	173	140	183	28	50	456	534	990
South Asia	NA	NA	NA	NA	NA	NA	52	26	844	538	1,379	1,239	922	1,068	146	182	3,343	3,054	6,397
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	106	52	321	414	318	536	233	435	43	93	1,021	1,530	2,551
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	542	285	4,027	3,199	5,993	5,660	4,630	6,673	854	2,038	16,046	17,854	33,899
High-income countries	NA	NA	NA	NA	NA	NA	107	28	530	332	712	544	843	1,038	350	782	2,542	2,724	5,265
WORLD	NA	NA	NA	NA	NA	NA	649	312	4,557	3,531	6,705	6,204	5,473	7,711	1,204	2,820	18,587	20,577	39,164

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.26

Risk factor: High blood pressure
Disease: Selected other cardiovascular diseases

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	7	4	22	24	30	36	24	29	19	23	21	25	23
Europe and Central Asia	NA	NA	NA	NA	NA	NA	24	18	40	45	46	57	37	48	30	39	35	43	39
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	16	9	31	30	36	40	29	33	23	26	25	28	27
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	9	27	33	35	45	28	37	23	30	24	28	27
South Asia	NA	NA	NA	NA	NA	NA	8	6	24	20	32	28	25	23	20	18	21	19	20
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	20	11	29	25	32	33	25	27	20	22	23	23	23
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	15	9	28	27	35	37	28	32	23	28	25	28	27
High-income countries	NA	NA	NA	NA	NA	NA	20	6	30	26	37	39	30	34	25	29	28	30	29
WORLD	NA	NA	NA	NA	NA	NA	16	9	28	27	36	37	29	32	24	29	26	29	28
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	7	4	22	24	30	36	24	29	19	23	19	24	21
Europe and Central Asia	NA	NA	NA	NA	NA	NA	24	18	40	45	46	57	37	48	30	39	34	43	38
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	16	9	31	30	36	40	29	33	23	26	23	26	25
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	9	27	33	35	45	28	37	23	30	21	22	21
South Asia	NA	NA	NA	NA	NA	NA	8	6	24	20	32	28	25	23	20	18	18	17	17
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	20	11	29	25	32	33	25	27	20	22	22	21	21
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	15	9	28	27	35	37	28	32	23	28	23	25	24
High-income countries	NA	NA	NA	NA	NA	NA	20	6	30	26	37	39	30	34	25	29	28	30	29
WORLD	NA	NA	NA	NA	NA	NA	16	9	28	27	36	37	29	32	24	28	24	26	25
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	7	4	22	24	30	36	24	29	19	23	18	23	20
Europe and Central Asia	NA	NA	NA	NA	NA	NA	24	18	40	45	46	57	37	48	30	39	34	42	38
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	16	9	31	30	36	40	29	33	23	26	23	25	24
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	9	27	33	35	45	28	37	23	30	21	21	21
South Asia	NA	NA	NA	NA	NA	NA	8	6	24	20	32	28	25	23	20	18	17	16	17
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	20	11	29	25	32	33	25	27	20	22	22	20	21
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	14	9	28	27	35	37	28	32	23	28	22	24	23
High-income countries	NA	NA	NA	NA	NA	NA	20	6	30	26	37	39	30	34	25	29	28	29	29
WORLD	NA	NA	NA	NA	NA	NA	15	9	28	26	36	37	29	32	24	29	23	25	24
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	1	0	5	5	10	11	12	21	9	22	37	60	97
Europe and Central Asia	NA	NA	NA	NA	NA	NA	3	1	8	5	14	11	16	30	15	48	56	94	150
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	0	2	2	3	3	5	7	7	12	18	24	43
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	2	2	3	4	4	6	3	5	11	18	29
South Asia	NA	NA	NA	NA	NA	NA	1	1	6	6	10	11	10	17	5	8	33	42	75
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	1	4	4	5	6	6	10	5	9	22	30	52
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	9	3	27	23	44	47	53	91	44	104	177	269	445
High-income countries	NA	NA	NA	NA	NA	NA	2	0	6	3	12	8	22	24	35	84	78	119	197
WORLD	NA	NA	NA	NA	NA	NA	10	4	34	26	57	55	75	115	79	188	254	388	642
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	16	9	101	109	130	168	107	212	45	111	399	610	1,009
Europe and Central Asia	NA	NA	NA	NA	NA	NA	82	24	154	96	188	169	141	299	66	216	630	804	1,435
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	19	8	46	42	47	52	43	67	30	55	185	223	408
Middle East and North Africa	NA	NA	NA	NA	NA	NA	9	5	34	41	37	57	32	64	13	28	124	195	319
South Asia	NA	NA	NA	NA	NA	NA	23	14	118	112	137	167	93	177	27	43	397	512	910
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	52	22	74	77	64	93	52	104	25	46	267	343	610
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	202	82	527	477	602	706	467	923	205	499	2,003	2,687	4,689
High-income countries	NA	NA	NA	NA	NA	NA	38	6	120	57	166	115	193	241	147	332	663	751	1,414
WORLD	NA	NA	NA	NA	NA	NA	240	89	647	534	768	821	660	1,164	352	830	2,666	3,437	6,103
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	23	12	108	115	133	171	110	216	46	113	419	626	1,045
Europe and Central Asia	NA	NA	NA	NA	NA	NA	91	31	174	104	214	182	166	328	78	242	722	887	1,609
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	22	9	50	44	52	55	48	71	33	58	205	237	442
Middle East and North Africa	NA	NA	NA	NA	NA	NA	11	6	39	47	43	61	35	68	14	29	141	211	352
South Asia	NA	NA	NA	NA	NA	NA	34	20	147	138	168	188	113	194	32	48	494	588	1,082
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	57	25	78	79	65	94	53	105	26	46	279	350	630
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	238	104	595	527	674	751	525	982	229	536	2,260	2,901	5,161
High-income countries	NA	NA	NA	NA	NA	NA	49	9	140	70	194	129	227	269	175	375	785	852	1,638
WORLD	NA	NA	NA	NA	NA	NA	287	113	734	597	868	880	752	1,251	404	912	3,045	3,753	6,798

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.27

Risk factor: High blood pressure
Disease: All causes

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	1	1	10	11	18	21	20	24	15	19	12	15	14
Europe and Central Asia	NA	NA	NA	NA	NA	NA	7	6	22	24	35	44	40	53	36	50	27	43	35
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	3	13	13	19	20	20	23	16	20	12	15	13
Middle East and North Africa	NA	NA	NA	NA	NA	NA	4	3	17	19	26	32	27	35	23	31	15	19	16
South Asia	NA	NA	NA	NA	NA	NA	1	1	12	10	22	21	22	21	16	15	10	9	10
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	6	8	13	20	17	23	14	19	3	5	4
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	1	12	12	22	25	24	29	19	26	11	14	13
High-income countries	NA	NA	NA	NA	NA	NA	5	1	12	8	17	15	18	21	18	23	16	20	18
WORLD	NA	NA	NA	NA	NA	NA	2	1	12	11	21	23	23	28	18	25	12	15	14
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	1	1	10	11	18	21	20	24	15	19	8	11	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	7	6	22	24	35	44	40	53	36	49	21	35	27
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	3	13	13	19	20	20	23	16	20	8	10	9
Middle East and North Africa	NA	NA	NA	NA	NA	NA	4	3	17	19	26	32	27	35	23	31	9	12	10
South Asia	NA	NA	NA	NA	NA	NA	1	1	12	9	22	21	22	21	16	15	6	5	6
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	6	8	13	19	17	22	14	19	2	2	2
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	1	12	12	22	24	24	29	19	26	7	8	8
High-income countries	NA	NA	NA	NA	NA	NA	5	1	12	8	17	15	18	21	17	22	13	15	14
WORLD	NA	NA	NA	NA	NA	NA	2	1	12	11	21	23	23	28	18	25	8	9	8
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	1	1	7	7	15	15	18	20	14	16	6	7	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	5	3	19	16	31	34	35	44	31	42	17	23	20
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	2	1	9	8	15	14	16	16	14	16	5	5	5
Middle East and North Africa	NA	NA	NA	NA	NA	NA	2	1	11	10	20	22	23	28	20	25	6	6	6
South Asia	NA	NA	NA	NA	NA	NA	1	1	9	6	19	16	20	18	14	13	5	4	4
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	5	6	11	15	14	18	12	16	1	2	2
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	1	9	8	18	18	21	24	16	21	5	6	6
High-income countries	NA	NA	NA	NA	NA	NA	3	1	9	5	14	11	16	16	15	17	9	9	9
WORLD	NA	NA	NA	NA	NA	NA	2	1	9	7	18	17	20	23	16	20	6	6	6
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	4	120	84	252	198	323	371	134	278	838	935	1,773
Europe and Central Asia	NA	NA	NA	NA	NA	NA	23	6	137	62	248	192	286	451	126	452	820	1,163	1,983
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	6	3	37	25	53	42	67	67	47	78	211	215	426
Middle East and North Africa	NA	NA	NA	NA	NA	NA	3	1	27	19	45	39	56	61	24	38	156	159	315
South Asia	NA	NA	NA	NA	NA	NA	10	5	138	73	240	187	243	227	87	86	718	579	1,297
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	9	4	40	37	55	68	61	87	24	43	189	240	429
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	62	24	499	300	893	727	1,037	1,264	442	976	2,933	3,290	6,223
High-income countries	NA	NA	NA	NA	NA	NA	9	1	64	22	116	60	214	195	225	485	629	763	1,392
WORLD	NA	NA	NA	NA	NA	NA	71	25	563	322	1,008	787	1,252	1,459	667	1,461	3,561	4,054	7,615
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	220	93	2,236	1,677	3,382	2,966	2,874	3,795	668	1,409	9,380	9,940	19,320
Europe and Central Asia	NA	NA	NA	NA	NA	NA	550	150	2,586	1,237	3,354	2,886	2,578	4,586	572	2,098	9,641	10,968	20,608
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	144	70	699	494	719	637	597	687	215	366	2,375	2,253	4,628
Middle East and North Africa	NA	NA	NA	NA	NA	NA	83	36	513	385	600	594	505	634	119	202	1,820	1,850	3,670
South Asia	NA	NA	NA	NA	NA	NA	237	130	2,578	1,453	3,249	2,819	2,177	2,377	426	463	8,667	7,242	15,909
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	224	102	742	737	743	1,033	547	894	121	237	2,377	3,004	5,381
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1,458	581	9,354	5,982	12,048	10,936	9,277	12,983	2,122	4,774	34,260	35,257	69,516
High-income countries	NA	NA	NA	NA	NA	NA	220	32	1,198	440	1,551	902	1,869	1,940	969	1,971	5,808	5,285	11,093
WORLD	NA	NA	NA	NA	NA	NA	1,678	614	10,552	6,422	13,600	11,839	11,146	14,923	3,091	6,745	40,067	40,542	80,610
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	272	117	2,718	2,038	4,049	3,474	3,268	4,244	738	1,530	11,045	11,403	22,447
Europe and Central Asia	NA	NA	NA	NA	NA	NA	614	189	2,844	1,444	3,732	3,301	2,819	4,995	614	2,222	10,623	12,152	22,774
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	174	89	819	594	841	741	669	761	239	403	2,742	2,587	5,330
Middle East and North Africa	NA	NA	NA	NA	NA	NA	95	42	566	432	663	650	542	674	128	216	1,995	2,014	4,009
South Asia	NA	NA	NA	NA	NA	NA	281	154	2,885	1,652	3,665	3,155	2,380	2,572	462	501	9,673	8,034	17,707
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	241	113	802	806	802	1,122	579	947	129	254	2,554	3,241	5,795
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1,678	705	10,635	6,964	13,752	12,442	10,257	14,192	2,309	5,128	38,632	39,431	78,063
High-income countries	NA	NA	NA	NA	NA	NA	298	52	1,556	660	1,989	1,233	2,271	2,408	1,120	2,299	7,234	6,652	13,887
WORLD	NA	NA	NA	NA	NA	NA	1,976	756	12,191	7,625	15,741	13,675	12,528	16,600	3,429	7,427	45,866	46,084	91,950

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.28

Risk factor: High cholesterol
Disease: Ischemic heart disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	49	41	44	51	29	41	21	35	15	32	27	37	32
Europe and Central Asia	NA	NA	NA	NA	NA	NA	86	83	74	77	54	64	44	55	40	54	54	57	55
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	84	76	70	69	51	56	41	48	34	42	49	50	49
Middle East and North Africa	NA	NA	NA	NA	NA	NA	75	70	62	67	45	54	36	46	32	43	45	51	47
South Asia	NA	NA	NA	NA	NA	NA	71	76	59	70	41	45	32	38	26	38	42	46	43
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	10	18	14	36	8	28	2	20	0	18	7	24	15
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	69	65	58	64	41	48	32	43	27	43	41	47	43
High-income countries	NA	NA	NA	NA	NA	NA	89	84	76	76	56	63	45	53	42	52	51	54	52
WORLD	NA	NA	NA	NA	NA	NA	71	66	61	65	43	49	34	45	32	46	43	48	45
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	49	41	44	51	29	41	21	35	15	32	31	39	35
Europe and Central Asia	NA	NA	NA	NA	NA	NA	86	83	74	77	54	64	44	55	40	54	59	60	60
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	84	76	70	69	51	56	41	48	34	42	55	55	55
Middle East and North Africa	NA	NA	NA	NA	NA	NA	75	70	62	67	45	54	36	46	32	43	49	53	51
South Asia	NA	NA	NA	NA	NA	NA	71	76	59	70	41	45	32	38	26	38	46	48	47
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	10	18	14	36	8	28	2	20	0	18	8	26	17
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	68	65	59	64	41	48	32	43	27	43	45	48	47
High-income countries	NA	NA	NA	NA	NA	NA	89	84	76	76	56	63	45	53	42	52	57	57	57
WORLD	NA	NA	NA	NA	NA	NA	70	66	61	65	43	49	34	45	32	46	47	50	48
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	49	41	44	51	29	41	21	35	15	32	31	38	34
Europe and Central Asia	NA	NA	NA	NA	NA	NA	86	83	74	77	54	64	44	55	40	54	59	60	60
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	84	76	70	69	51	56	41	48	34	42	55	54	55
Middle East and North Africa	NA	NA	NA	NA	NA	NA	75	70	62	67	45	54	36	46	32	43	49	53	51
South Asia	NA	NA	NA	NA	NA	NA	71	76	59	70	41	45	32	38	26	38	46	48	47
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	10	18	14	36	8	28	2	20	0	18	8	26	17
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	68	65	58	64	41	48	32	43	27	43	45	48	46
High-income countries	NA	NA	NA	NA	NA	NA	89	84	76	76	56	63	45	53	42	52	57	57	57
WORLD	NA	NA	NA	NA	NA	NA	70	66	61	65	43	50	34	45	32	46	47	49	48
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	15	7	46	30	43	46	39	63	16	59	159	205	364
Europe and Central Asia	NA	NA	NA	NA	NA	NA	32	6	113	34	123	83	116	174	53	200	438	497	935
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	8	3	28	12	25	16	24	21	15	25	99	78	177
Middle East and North Africa	NA	NA	NA	NA	NA	NA	8	3	25	13	22	17	21	22	8	14	85	68	153
South Asia	NA	NA	NA	NA	NA	NA	35	25	144	87	122	105	94	102	35	48	430	367	797
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	6	9	4	13	1	11	0	6	12	40	51
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	99	44	362	186	339	280	296	393	128	351	1,223	1,254	2,477
High-income countries	NA	NA	NA	NA	NA	NA	14	3	66	17	73	33	104	84	104	212	361	350	711
WORLD	NA	NA	NA	NA	NA	NA	113	47	428	203	412	313	400	477	232	564	1,585	1,604	3,189
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	360	166	858	593	581	690	347	645	79	293	2,225	2,387	4,612
Europe and Central Asia	NA	NA	NA	NA	NA	NA	758	145	2,143	669	1,671	1,245	1,052	1,774	241	927	5,865	4,760	10,624
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	182	74	515	248	334	247	214	218	69	116	1,313	903	2,216
Middle East and North Africa	NA	NA	NA	NA	NA	NA	191	68	474	259	299	261	187	224	41	73	1,192	885	2,077
South Asia	NA	NA	NA	NA	NA	NA	823	610	2,692	1,736	1,644	1,580	842	1,072	174	256	6,175	5,253	11,428
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	17	15	105	184	53	194	13	116	0	31	187	539	726
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2,330	1,077	6,787	3,688	4,581	4,217	2,655	4,048	603	1,695	16,957	14,726	31,683
High-income countries	NA	NA	NA	NA	NA	NA	330	76	1,234	341	979	493	909	842	455	870	3,908	2,623	6,531
WORLD	NA	NA	NA	NA	NA	NA	2,661	1,154	8,021	4,029	5,561	4,709	3,565	4,890	1,058	2,566	20,865	17,348	38,214
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	399	185	916	637	609	724	355	657	80	297	2,359	2,499	4,858
Europe and Central Asia	NA	NA	NA	NA	NA	NA	814	167	2,226	717	1,725	1,304	1,070	1,807	244	940	6,077	4,934	11,011
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	207	86	550	271	356	262	220	223	70	118	1,402	960	2,362
Middle East and North Africa	NA	NA	NA	NA	NA	NA	212	77	501	276	314	273	191	228	42	74	1,259	927	2,186
South Asia	NA	NA	NA	NA	NA	NA	936	698	2,856	1,871	1,731	1,664	864	1,096	177	260	6,563	5,589	12,152
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	18	17	111	196	55	205	13	118	0	31	199	567	766
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2,585	1,229	7,159	3,969	4,789	4,430	2,713	4,129	613	1,719	17,860	15,476	33,336
High-income countries	NA	NA	NA	NA	NA	NA	377	102	1,360	409	1,054	553	956	898	471	903	4,218	2,866	7,084
WORLD	NA	NA	NA	NA	NA	NA	2,963	1,331	8,519	4,378	5,843	4,983	3,669	5,027	1,083	2,622	22,078	18,342	40,420

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.29

Risk factor: High cholesterol
Disease: Cerebrovascular disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	6	5	9	11	8	12	6	11	3	6	6	9	8
Europe and Central Asia	NA	NA	NA	NA	NA	NA	25	23	27	29	23	28	18	24	10	14	19	21	20
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	22	18	23	23	20	22	16	19	8	10	16	16	16
Middle East and North Africa	NA	NA	NA	NA	NA	NA	18	16	19	22	17	22	14	18	7	10	13	16	15
South Asia	NA	NA	NA	NA	NA	NA	16	18	18	23	16	17	12	14	6	9	13	15	14
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	3	4	10	3	10	1	7	0	4	2	8	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	12	12	15	17	13	17	10	15	5	9	11	14	12
High-income countries	NA	NA	NA	NA	NA	NA	27	24	28	28	24	27	19	23	10	13	16	17	17
WORLD	NA	NA	NA	NA	NA	NA	14	13	16	18	14	18	11	16	6	10	11	14	13
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	6	5	9	11	8	12	6	11	3	6	7	10	8
Europe and Central Asia	NA	NA	NA	NA	NA	NA	25	23	27	29	23	28	18	24	10	14	21	23	22
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	22	18	23	23	20	22	16	19	8	10	18	18	18
Middle East and North Africa	NA	NA	NA	NA	NA	NA	18	16	19	22	17	22	14	18	7	10	13	17	15
South Asia	NA	NA	NA	NA	NA	NA	16	18	18	23	16	17	12	14	6	9	14	16	15
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	3	4	10	3	10	1	7	0	4	2	8	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	12	12	15	17	13	17	10	15	5	9	12	15	13
High-income countries	NA	NA	NA	NA	NA	NA	27	24	28	28	24	27	19	23	10	13	20	20	20
WORLD	NA	NA	NA	NA	NA	NA	14	13	16	18	14	18	11	16	6	10	12	15	14
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	7	12	14	10	14	7	12	3	6	9	12	10
Europe and Central Asia	NA	NA	NA	NA	NA	NA	29	28	30	33	26	32	20	26	10	15	24	26	25
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	27	23	28	27	23	26	17	20	8	10	21	22	22
Middle East and North Africa	NA	NA	NA	NA	NA	NA	22	19	23	25	20	24	15	19	7	10	15	19	17
South Asia	NA	NA	NA	NA	NA	NA	19	21	21	26	17	19	13	15	6	9	16	18	17
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	3	4	11	3	11	1	8	0	4	2	9	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	15	15	18	20	15	20	11	16	5	9	14	17	15
High-income countries	NA	NA	NA	NA	NA	NA	36	32	36	36	29	34	21	26	11	14	25	25	25
WORLD	NA	NA	NA	NA	NA	NA	18	17	20	22	17	21	12	18	7	11	15	18	16
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	1	13	10	20	19	21	37	5	19	61	85	146
Europe and Central Asia	NA	NA	NA	NA	NA	NA	3	2	15	10	25	26	26	54	8	38	78	130	207
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	1	5	4	5	5	6	7	3	5	20	22	43
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	2	2	2	3	3	4	1	2	8	10	19
South Asia	NA	NA	NA	NA	NA	NA	2	1	14	12	22	22	19	25	4	8	60	67	128
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	1	4	1	5	0	5	0	2	3	16	18
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	8	5	49	41	76	79	76	132	20	73	230	331	561
High-income countries	NA	NA	NA	NA	NA	NA	2	1	7	4	10	8	19	23	15	41	53	78	131
WORLD	NA	NA	NA	NA	NA	NA	10	6	56	45	87	87	95	155	35	115	283	409	692
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	38	19	236	195	269	280	190	375	24	99	757	968	1,725
Europe and Central Asia	NA	NA	NA	NA	NA	NA	76	41	278	202	342	392	238	552	36	176	971	1,364	2,335
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	34	29	93	83	73	74	53	71	12	24	265	282	548
Middle East and North Africa	NA	NA	NA	NA	NA	NA	10	7	31	32	33	41	27	42	4	9	106	132	238
South Asia	NA	NA	NA	NA	NA	NA	36	25	256	231	295	325	169	264	20	43	777	887	1,664
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	6	20	74	13	81	3	51	0	9	40	221	261
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	199	129	915	817	1,026	1,193	680	1,356	97	360	2,917	3,855	6,772
High-income countries	NA	NA	NA	NA	NA	NA	39	26	131	88	140	116	165	233	64	169	539	632	1,171
WORLD	NA	NA	NA	NA	NA	NA	238	155	1,046	905	1,166	1,309	845	1,588	161	529	3,456	4,487	7,942
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	76	39	420	344	434	439	253	490	28	115	1,210	1,426	2,637
Europe and Central Asia	NA	NA	NA	NA	NA	NA	107	69	388	302	475	562	305	684	42	197	1,317	1,814	3,131
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	58	55	155	138	117	116	73	93	14	29	417	430	847
Middle East and North Africa	NA	NA	NA	NA	NA	NA	18	13	49	48	49	57	34	50	5	11	155	179	334
South Asia	NA	NA	NA	NA	NA	NA	53	37	364	324	409	436	209	317	23	48	1,059	1,162	2,221
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	5	7	24	91	15	97	4	58	0	9	48	262	310
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	317	219	1,400	1,247	1,500	1,707	878	1,692	112	408	4,206	5,273	9,479
High-income countries	NA	NA	NA	NA	NA	NA	100	70	333	235	324	274	291	406	87	228	1,134	1,212	2,347
WORLD	NA	NA	NA	NA	NA	NA	417	289	1,733	1,482	1,823	1,981	1,169	2,098	199	636	5,340	6,486	11,826

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.30

Risk factor: High cholesterol
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	3	2	5	5	5	7	4	7	2	5	3	5	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	11	7	21	17	21	25	20	27	18	26	17	23	20
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	4	11	9	11	10	9	10	6	8	7	7	7
Middle East and North Africa	NA	NA	NA	NA	NA	NA	10	6	17	14	14	16	12	15	9	12	9	9	9
South Asia	NA	NA	NA	NA	NA	NA	5	5	14	13	13	14	10	12	7	9	7	7	7
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	1	3	1	5	0	4	0	3	0	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	4	3	10	9	10	12	9	12	6	11	6	7	6
High-income countries	NA	NA	NA	NA	NA	NA	8	4	14	8	12	10	11	12	9	12	10	11	11
WORLD	NA	NA	NA	NA	NA	NA	4	3	11	9	10	12	9	12	7	12	6	8	7
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	3	2	5	5	5	7	4	7	2	5	3	4	3
Europe and Central Asia	NA	NA	NA	NA	NA	NA	11	7	20	17	21	25	20	27	17	26	15	20	17
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	4	11	9	11	10	9	10	6	8	5	5	5
Middle East and North Africa	NA	NA	NA	NA	NA	NA	10	5	17	14	14	16	12	15	9	12	7	6	6
South Asia	NA	NA	NA	NA	NA	NA	5	5	14	13	13	14	10	12	7	9	5	5	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	1	3	1	5	0	4	0	3	0	1	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	4	3	10	9	10	12	9	12	6	11	4	4	4
High-income countries	NA	NA	NA	NA	NA	NA	8	4	14	8	12	10	10	12	9	12	10	9	10
WORLD	NA	NA	NA	NA	NA	NA	4	3	11	9	10	12	9	12	7	11	5	5	5
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	1	4	3	4	5	3	5	2	4	2	2	2
Europe and Central Asia	NA	NA	NA	NA	NA	NA	8	4	17	11	18	19	17	22	15	21	12	13	12
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	2	8	6	9	7	7	7	5	6	3	3	3
Middle East and North Africa	NA	NA	NA	NA	NA	NA	5	2	11	8	11	11	10	12	7	10	4	4	4
South Asia	NA	NA	NA	NA	NA	NA	4	3	10	9	11	11	9	10	6	8	4	3	4
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	1	2	1	4	0	3	0	3	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	3	2	8	6	8	9	7	10	5	9	3	3	3
High-income countries	NA	NA	NA	NA	NA	NA	5	2	10	5	10	7	9	9	7	8	7	6	6
WORLD	NA	NA	NA	NA	NA	NA	3	2	8	6	9	9	8	10	6	9	3	3	3
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	17	8	59	39	63	65	60	100	21	79	220	290	510
Europe and Central Asia	NA	NA	NA	NA	NA	NA	36	8	128	44	149	109	143	228	61	238	516	626	1,142
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	9	4	33	17	30	21	30	28	18	30	119	100	220
Middle East and North Africa	NA	NA	NA	NA	NA	NA	8	3	27	15	25	20	24	26	9	15	93	79	172
South Asia	NA	NA	NA	NA	NA	NA	37	26	158	99	143	126	113	127	39	56	491	434	925
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	7	13	5	18	2	16	0	7	14	56	70
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	107	49	411	227	415	360	372	525	148	425	1,453	1,585	3,038
High-income countries	NA	NA	NA	NA	NA	NA	16	4	73	22	83	41	123	108	119	253	415	428	842
WORLD	NA	NA	NA	NA	NA	NA	123	53	484	248	498	400	495	633	267	678	1,868	2,013	3,880
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	398	185	1,094	787	850	970	537	1,020	102	392	2,982	3,354	6,337
Europe and Central Asia	NA	NA	NA	NA	NA	NA	834	186	2,422	871	2,013	1,637	1,290	2,326	277	1,103	6,836	6,124	12,959
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	216	103	608	331	407	321	267	289	81	140	1,579	1,185	2,764
Middle East and North Africa	NA	NA	NA	NA	NA	NA	201	75	506	291	332	302	214	266	46	82	1,298	1,017	2,315
South Asia	NA	NA	NA	NA	NA	NA	859	635	2,948	1,967	1,940	1,905	1,011	1,335	194	299	6,952	6,140	13,092
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	21	21	125	258	66	275	16	167	0	40	227	760	988
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2,529	1,206	7,702	4,505	5,607	5,410	3,335	5,404	700	2,055	19,874	18,581	38,455
High-income countries	NA	NA	NA	NA	NA	NA	369	102	1,365	429	1,119	609	1,074	1,075	519	1,040	4,447	3,254	7,701
WORLD	NA	NA	NA	NA	NA	NA	2,898	1,308	9,067	4,934	6,727	6,019	4,410	6,479	1,219	3,095	24,321	21,835	46,156
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	474	224	1,336	981	1,044	1,163	608	1,147	108	411	3,570	3,925	7,495
Europe and Central Asia	NA	NA	NA	NA	NA	NA	921	235	2,614	1,019	2,200	1,865	1,375	2,491	286	1,137	7,395	6,748	14,142
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	265	141	705	408	473	378	293	317	84	146	1,819	1,390	3,209
Middle East and North Africa	NA	NA	NA	NA	NA	NA	230	89	550	325	362	330	225	278	47	84	1,414	1,106	2,520
South Asia	NA	NA	NA	NA	NA	NA	989	735	3,220	2,196	2,140	2,100	1,073	1,413	200	309	7,622	6,751	14,373
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	23	24	135	287	71	302	17	175	0	41	246	829	1,075
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2,902	1,448	8,559	5,216	6,289	6,137	3,591	5,821	725	2,128	22,066	20,750	42,815
High-income countries	NA	NA	NA	NA	NA	NA	477	172	1,693	644	1,378	827	1,247	1,304	558	1,131	5,353	4,078	9,431
WORLD	NA	NA	NA	NA	NA	NA	3,379	1,620	10,252	5,860	7,667	6,964	4,838	7,125	1,282	3,259	27,419	24,828	52,246

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.31

Risk factor: Overweight and obesity
Disease: Colon and rectal cancers

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	6	7	6	8	6	9	5	6	0	1	5	6	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	12	15	15	20	15	21	13	18	12	14	14	18	16
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	12	15	13	17	13	17	12	16	9	12	12	15	13
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	17	13	17	10	14	9	11	7	9	10	13	11
South Asia	NA	NA	NA	NA	NA	NA	2	4	2	5	2	2	1	4	1	0	1	3	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	7	5	6	3	5	2	4	1	1	3	5	4
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	7	9	8	11	9	13	8	11	5	6	8	10	9
High-income countries	NA	NA	NA	NA	NA	NA	14	14	16	17	16	18	14	16	11	12	14	15	14
WORLD	NA	NA	NA	NA	NA	NA	8	10	11	13	11	14	11	13	9	10	10	12	11
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	6	7	6	8	6	9	5	6	0	1	5	7	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	12	15	15	20	15	21	13	18	12	14	14	19	16
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	12	15	13	17	13	17	12	16	9	12	12	16	14
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	17	13	17	10	14	9	11	7	9	10	14	12
South Asia	NA	NA	NA	NA	NA	NA	2	4	2	5	2	2	1	4	1	0	2	3	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	7	5	6	3	5	2	4	1	1	4	5	4
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	7	9	8	11	9	13	8	11	5	6	8	11	9
High-income countries	NA	NA	NA	NA	NA	NA	14	14	16	17	16	18	14	16	11	12	15	16	15
WORLD	NA	NA	NA	NA	NA	NA	8	10	11	13	11	14	11	13	9	9	10	12	11
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	6	7	6	8	6	9	5	6	0	1	5	7	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	12	15	15	20	15	21	13	18	12	14	14	19	16
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	12	15	13	17	13	17	12	16	9	12	12	16	14
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	17	13	17	10	14	9	11	7	9	10	14	12
South Asia	NA	NA	NA	NA	NA	NA	2	4	2	5	2	2	1	4	1	0	2	3	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	7	5	6	3	5	2	4	1	1	4	5	4
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	7	9	8	11	9	13	8	12	5	6	8	11	9
High-income countries	NA	NA	NA	NA	NA	NA	14	14	16	17	16	18	14	16	11	12	15	16	15
WORLD	NA	NA	NA	NA	NA	NA	8	10	11	13	12	15	11	14	9	10	10	13	12
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	0	1	1	1	2	1	1	0	0	4	5	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	1	1	2	3	2	3	1	1	6	9	15
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	1	1	1	1	1	0	1	2	3	5
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	1	1	1
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1	1	3	4	5	5	4	6	1	2	14	18	32
High-income countries	NA	NA	NA	NA	NA	NA	0	0	3	2	5	3	7	6	4	6	19	18	37
WORLD	NA	NA	NA	NA	NA	NA	1	1	6	6	10	9	11	12	5	8	33	36	69
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	10	11	23	25	20	27	9	12	0	1	63	75	138
Europe and Central Asia	NA	NA	NA	NA	NA	NA	5	6	23	28	30	40	20	35	3	6	81	116	197
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	5	8	11	7	10	6	9	1	3	26	38	63
Middle East and North Africa	NA	NA	NA	NA	NA	NA	2	3	3	3	2	2	1	1	0	0	9	10	18
South Asia	NA	NA	NA	NA	NA	NA	1	1	1	3	1	1	0	1	0	0	4	6	11
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	2	3	3	1	2	0	1	0	0	5	7	12
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	23	27	61	73	62	81	36	59	5	11	188	251	439
High-income countries	NA	NA	NA	NA	NA	NA	10	8	55	43	67	53	59	61	17	28	208	191	399
WORLD	NA	NA	NA	NA	NA	NA	33	35	117	115	129	134	95	120	22	38	396	442	839
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	10	11	25	27	21	28	10	12	0	1	66	79	145
Europe and Central Asia	NA	NA	NA	NA	NA	NA	6	7	25	30	33	43	21	37	3	7	87	124	211
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	5	9	12	8	10	6	9	1	3	27	40	67
Middle East and North Africa	NA	NA	NA	NA	NA	NA	2	3	3	4	2	2	1	1	0	0	9	10	19
South Asia	NA	NA	NA	NA	NA	NA	1	1	1	3	1	1	0	1	0	0	5	6	11
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	2	3	3	1	2	0	1	0	0	6	7	13
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	24	29	65	78	66	86	38	62	5	11	199	266	465
High-income countries	NA	NA	NA	NA	NA	NA	11	10	68	54	81	64	69	73	20	32	251	233	483
WORLD	NA	NA	NA	NA	NA	NA	35	39	134	132	147	150	108	135	26	43	449	499	948

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.32

Risk factor: Overweight and obesity
Disease: Breast cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	NA	9	NA	6	NA	1	NA	5	5
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	21	NA	18	NA	14	NA	15	15
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	17	NA	16	NA	12	NA	12	12
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	14	NA	11	NA	9	NA	9	9
South Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	2	NA	4	NA	0	NA	2	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	NA	5	NA	4	NA	1	NA	4	4
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	NA	10	NA	10	NA	5	NA	7	7
High-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	18	NA	16	NA	12	NA	13	13
WORLD	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	NA	12	NA	12	NA	9	NA	9	9
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	NA	9	NA	6	NA	1	NA	5	5
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	21	NA	18	NA	14	NA	14	14
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	17	NA	16	NA	12	NA	10	10
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	14	NA	11	NA	9	NA	8	8
South Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	2	NA	4	NA	0	NA	2	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	NA	5	NA	4	NA	1	NA	3	3
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	NA	10	NA	10	NA	5	NA	7	7
High-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	18	NA	16	NA	12	NA	12	12
WORLD	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	NA	12	NA	12	NA	9	NA	8	8
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	NA	9	NA	6	NA	1	NA	5	5
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	21	NA	18	NA	14	NA	14	14
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	17	NA	16	NA	12	NA	10	10
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	14	NA	11	NA	9	NA	8	8
South Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	2	NA	4	NA	0	NA	2	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	NA	5	NA	4	NA	1	NA	3	3
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	NA	10	NA	10	NA	5	NA	7	7
High-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	18	NA	16	NA	12	NA	12	12
WORLD	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	NA	13	NA	13	NA	9	NA	8	8
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	NA	2	NA	1	NA	0	NA	5	5
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	NA	3	NA	3	NA	1	NA	10	10
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	1	NA	1	NA	1	NA	4	4
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	0	NA	0	NA	0	NA	1	1
South Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	0	NA	1	NA	0	NA	2	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	0	NA	0	NA	0	NA	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	NA	8	NA	6	NA	2	NA	23	23
High-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	NA	5	NA	6	NA	5	NA	20	20
WORLD	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	13	NA	12	NA	6	NA	43	43
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	NA	27	NA	8	NA	0	NA	75	75
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	51	NA	52	NA	29	NA	5	NA	137	137
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	NA	20	NA	11	NA	3	NA	62	62
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	5	NA	2	NA	0	NA	20	20
South Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	NA	5	NA	6	NA	0	NA	26	26
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	NA	7	NA	3	NA	0	NA	19	19
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	157	NA	116	NA	58	NA	9	NA	339	339
High-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	83	NA	82	NA	61	NA	21	NA	247	247
WORLD	NA	NA	NA	NA	NA	NA	NA	NA	NA	239	NA	198	NA	120	NA	29	NA	586	586
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	NA	NA	42	NA	28	NA	8	NA	0	NA	79	79
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	55	NA	55	NA	31	NA	5	NA	146	146
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	NA	21	NA	12	NA	3	NA	66	66
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	NA	5	NA	2	NA	0	NA	21	21
South Asia	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	NA	5	NA	6	NA	0	NA	27	27
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	NA	7	NA	3	NA	0	NA	20	20
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	166	NA	122	NA	62	NA	9	NA	359	359
High-income countries	NA	NA	NA	NA	NA	NA	NA	NA	NA	102	NA	95	NA	73	NA	24	NA	294	294
WORLD	NA	NA	NA	NA	NA	NA	NA	NA	NA	267	NA	217	NA	135	NA	33	NA	653	653

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.33

Risk factor: Overweight and obesity
Disease: Corpus uteri cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	21	NA	24	NA	29	NA	19	NA	3	NA	21	21
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	44	NA	54	NA	56	NA	51	NA	41	NA	51	51
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	44	NA	49	NA	48	NA	46	NA	35	NA	44	44
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	49	NA	48	NA	42	NA	34	NA	29	NA	38	38
South Asia	NA	NA	NA	NA	NA	NA	NA	13	NA	18	NA	6	NA	16	NA	0	NA	10	10
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	23	NA	21	NA	18	NA	15	NA	5	NA	16	16
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	35	NA	41	NA	42	NA	39	NA	25	NA	37	37
High-income countries	NA	NA	NA	NA	NA	NA	NA	41	NA	47	NA	49	NA	46	NA	36	NA	43	43
WORLD	NA	NA	NA	NA	NA	NA	NA	36	NA	43	NA	45	NA	41	NA	31	NA	40	40
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	21	NA	24	NA	29	NA	19	NA	3	NA	23	23
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	44	NA	54	NA	56	NA	51	NA	41	NA	52	52
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	44	NA	49	NA	48	NA	46	NA	35	NA	45	45
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	49	NA	48	NA	42	NA	34	NA	29	NA	39	39
South Asia	NA	NA	NA	NA	NA	NA	NA	13	NA	18	NA	6	NA	16	NA	0	NA	11	11
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	23	NA	21	NA	18	NA	15	NA	5	NA	17	17
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	35	NA	41	NA	42	NA	39	NA	24	NA	39	39
High-income countries	NA	NA	NA	NA	NA	NA	NA	41	NA	47	NA	49	NA	46	NA	36	NA	45	45
WORLD	NA	NA	NA	NA	NA	NA	NA	36	NA	43	NA	45	NA	41	NA	30	NA	41	41
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	21	NA	24	NA	29	NA	19	NA	3	NA	23	23
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	44	NA	54	NA	56	NA	51	NA	41	NA	51	51
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	44	NA	49	NA	48	NA	46	NA	35	NA	45	45
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	49	NA	48	NA	42	NA	34	NA	29	NA	40	40
South Asia	NA	NA	NA	NA	NA	NA	NA	13	NA	18	NA	6	NA	16	NA	0	NA	11	11
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	23	NA	21	NA	18	NA	15	NA	5	NA	17	17
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	36	NA	43	NA	43	NA	39	NA	24	NA	39	39
High-income countries	NA	NA	NA	NA	NA	NA	NA	41	NA	47	NA	49	NA	46	NA	36	NA	46	46
WORLD	NA	NA	NA	NA	NA	NA	NA	38	NA	44	NA	46	NA	42	NA	31	NA	42	42
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	0	NA	1	NA	1	NA	0	NA	0	NA	2	2
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	0	NA	2	NA	3	NA	3	NA	1	NA	8	8
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	1	NA	1	NA	1	NA	1	NA	1	NA	5	5
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	0
South Asia	NA	NA	NA	NA	NA	NA	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	0
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	1	NA	4	NA	5	NA	5	NA	2	NA	16	16
High-income countries	NA	NA	NA	NA	NA	NA	NA	0	NA	2	NA	3	NA	4	NA	3	NA	12	12
WORLD	NA	NA	NA	NA	NA	NA	NA	2	NA	6	NA	8	NA	9	NA	5	NA	28	28
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	4	NA	11	NA	9	NA	3	NA	0	NA	28	28
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	10	NA	35	NA	42	NA	29	NA	4	NA	120	120
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	13	NA	28	NA	20	NA	13	NA	3	NA	78	78
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	1	NA	2	NA	1	NA	1	NA	0	NA	6	6
South Asia	NA	NA	NA	NA	NA	NA	NA	1	NA	2	NA	1	NA	2	NA	0	NA	6	6
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	1	NA	2	NA	2	NA	1	NA	0	NA	6	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	30	NA	81	NA	75	NA	49	NA	8	NA	243	243
High-income countries	NA	NA	NA	NA	NA	NA	NA	7	NA	35	NA	42	NA	40	NA	14	NA	137	137
WORLD	NA	NA	NA	NA	NA	NA	NA	37	NA	116	NA	116	NA	89	NA	22	NA	380	380
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	8	NA	17	NA	11	NA	3	NA	0	NA	40	40
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	21	NA	62	NA	57	NA	33	NA	5	NA	178	178
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	25	NA	46	NA	25	NA	14	NA	4	NA	115	115
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	2	NA	4	NA	2	NA	1	NA	0	NA	9	9
South Asia	NA	NA	NA	NA	NA	NA	NA	1	NA	3	NA	1	NA	2	NA	0	NA	7	7
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	1	NA	2	NA	2	NA	1	NA	0	NA	7	7
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	59	NA	135	NA	98	NA	56	NA	9	NA	356	356
High-income countries	NA	NA	NA	NA	NA	NA	NA	23	NA	96	NA	75	NA	57	NA	17	NA	267	267
WORLD	NA	NA	NA	NA	NA	NA	NA	82	NA	231	NA	173	NA	113	NA	25	NA	623	623

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.34

Risk factor: Overweight and obesity
Disease: Diabetes mellitus

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	54	73	42	63	33	55	38	35	4	7	33	42	38
Europe and Central Asia	NA	NA	NA	NA	NA	NA	80	96	73	95	62	83	73	77	72	67	68	78	74
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	81	96	71	92	58	76	71	72	60	59	65	74	70
Middle East and North Africa	NA	NA	NA	NA	NA	NA	86	99	70	93	52	72	65	60	55	55	61	69	65
South Asia	NA	NA	NA	NA	NA	NA	30	61	13	56	11	14	8	34	14	0	12	27	19
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	53	80	43	64	19	36	18	30	10	10	26	39	34
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	57	80	41	70	34	50	38	47	26	29	36	49	43
High-income countries	NA	NA	NA	NA	NA	NA	87	96	77	91	64	78	76	72	69	60	72	68	70
WORLD	NA	NA	NA	NA	NA	NA	61	82	46	72	39	53	47	52	41	43	43	53	49
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	54	73	42	63	33	55	38	35	4	7	36	48	43
Europe and Central Asia	NA	NA	NA	NA	NA	NA	80	96	73	95	62	83	73	77	72	67	66	79	73
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	81	96	71	92	58	76	71	72	60	59	65	77	72
Middle East and North Africa	NA	NA	NA	NA	NA	NA	86	99	70	93	52	72	65	60	55	55	61	72	67
South Asia	NA	NA	NA	NA	NA	NA	30	61	13	56	11	14	8	34	14	0	12	30	21
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	53	80	43	64	19	36	18	30	10	10	30	44	39
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	57	80	41	70	34	50	38	47	25	28	37	53	46
High-income countries	NA	NA	NA	NA	NA	NA	87	96	77	91	64	78	76	72	69	60	72	74	73
WORLD	NA	NA	NA	NA	NA	NA	61	82	46	72	39	53	47	52	40	41	43	56	50
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	54	73	42	63	33	55	38	35	4	7	38	51	45
Europe and Central Asia	NA	NA	NA	NA	NA	NA	80	96	73	95	62	83	73	77	72	67	67	82	76
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	81	96	71	92	58	76	71	72	60	59	66	79	73
Middle East and North Africa	NA	NA	NA	NA	NA	NA	86	99	70	93	52	72	65	60	55	55	61	74	69
South Asia	NA	NA	NA	NA	NA	NA	30	61	13	56	11	14	8	34	14	0	14	35	24
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	53	80	43	64	19	36	18	30	10	10	31	46	40
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	54	77	41	71	34	51	39	48	26	29	38	56	48
High-income countries	NA	NA	NA	NA	NA	NA	87	96	77	91	64	78	76	72	69	60	73	78	76
WORLD	NA	NA	NA	NA	NA	NA	61	80	49	75	41	55	49	54	42	43	46	60	54
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	3	3	8	14	10	21	11	16	1	1	32	57	89
Europe and Central Asia	NA	NA	NA	NA	NA	NA	1	1	3	3	4	8	4	9	1	3	14	24	38
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	3	11	15	11	18	14	20	7	13	46	69	114
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	1	2	3	2	3	3	3	1	1	9	12	20
South Asia	NA	NA	NA	NA	NA	NA	2	2	3	11	3	4	2	9	2	0	12	25	37
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	2	3	8	1	6	1	5	0	1	8	21	28
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	10	11	31	54	31	60	36	63	12	19	121	207	327
High-income countries	NA	NA	NA	NA	NA	NA	3	2	9	7	12	11	23	25	18	32	65	76	142
WORLD	NA	NA	NA	NA	NA	NA	13	13	40	60	43	71	59	87	30	52	186	283	469
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	60	82	159	284	131	321	101	170	3	8	454	865	1,319
Europe and Central Asia	NA	NA	NA	NA	NA	NA	33	28	61	69	53	115	38	93	6	16	192	321	512
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	71	70	201	288	149	271	128	211	32	65	580	906	1,486
Middle East and North Africa	NA	NA	NA	NA	NA	NA	14	15	36	55	29	52	27	36	5	8	111	166	278
South Asia	NA	NA	NA	NA	NA	NA	36	38	62	212	39	60	18	94	11	0	166	404	570
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	32	46	60	155	20	88	12	47	2	3	126	339	465
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	248	280	579	1,062	421	906	324	652	58	100	1,630	3,001	4,631
High-income countries	NA	NA	NA	NA	NA	NA	63	39	176	133	165	167	201	248	81	144	686	730	1,416
WORLD	NA	NA	NA	NA	NA	NA	310	319	755	1,195	586	1,073	525	900	139	244	2,316	3,731	6,047
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	212	290	293	522	172	402	120	197	3	9	800	1,422	2,221
Europe and Central Asia	NA	NA	NA	NA	NA	NA	87	110	134	205	85	185	57	137	9	28	373	665	1,038
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	124	153	273	454	176	343	145	253	36	77	754	1,281	2,034
Middle East and North Africa	NA	NA	NA	NA	NA	NA	71	98	78	126	40	71	33	45	6	10	228	350	578
South Asia	NA	NA	NA	NA	NA	NA	119	218	98	371	52	75	22	113	13	0	304	777	1,081
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	53	80	78	186	23	95	13	50	2	3	170	414	584
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	666	950	954	1,864	548	1,172	391	794	70	128	2,628	4,908	7,536
High-income countries	NA	NA	NA	NA	NA	NA	261	218	521	520	300	364	294	386	109	198	1,484	1,686	3,171
WORLD	NA	NA	NA	NA	NA	NA	927	1,168	1,474	2,384	848	1,536	684	1,181	179	326	4,112	6,595	10,707

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.35

Risk factor: Overweight and obesity
Disease: Hypertensive heart disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	37	42	32	39	26	39	17	20	1	3	20	21	21
Europe and Central Asia	NA	NA	NA	NA	NA	NA	62	74	61	75	52	68	41	54	28	32	46	53	50
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	62	74	58	70	48	59	38	49	21	27	40	45	43
Middle East and North Africa	NA	NA	NA	NA	NA	NA	66	81	57	70	42	54	31	37	17	22	36	41	39
South Asia	NA	NA	NA	NA	NA	NA	18	30	9	30	9	9	3	17	4	0	7	15	11
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	33	47	32	36	14	24	7	16	3	4	15	20	18
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	41	51	37	47	30	41	22	30	10	13	25	30	28
High-income countries	NA	NA	NA	NA	NA	NA	70	72	65	68	54	61	44	49	26	28	42	36	38
WORLD	NA	NA	NA	NA	NA	NA	44	53	40	49	32	42	24	32	14	18	27	31	29
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	37	42	32	39	26	39	17	20	1	3	24	27	26
Europe and Central Asia	NA	NA	NA	NA	NA	NA	62	74	61	75	52	68	41	54	28	32	51	59	55
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	62	74	58	70	48	59	38	49	21	27	45	53	50
Middle East and North Africa	NA	NA	NA	NA	NA	NA	66	81	57	70	42	54	31	37	17	22	41	47	44
South Asia	NA	NA	NA	NA	NA	NA	18	30	9	30	9	9	3	17	4	0	8	17	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	33	47	32	36	14	24	7	16	3	4	20	25	23
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	41	51	37	47	30	41	22	30	9	12	29	35	32
High-income countries	NA	NA	NA	NA	NA	NA	70	72	65	68	54	61	44	49	26	28	50	45	47
WORLD	NA	NA	NA	NA	NA	NA	43	53	40	49	32	42	24	32	13	17	31	36	34
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	37	42	32	39	26	39	17	20	1	3	24	27	25
Europe and Central Asia	NA	NA	NA	NA	NA	NA	62	74	61	75	52	68	41	54	28	32	50	59	55
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	62	74	58	70	48	59	38	49	21	27	45	53	49
Middle East and North Africa	NA	NA	NA	NA	NA	NA	66	81	57	70	42	54	31	37	17	22	41	47	44
South Asia	NA	NA	NA	NA	NA	NA	18	30	9	30	9	9	3	17	4	0	8	17	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	33	47	32	36	14	24	7	16	3	4	19	24	22
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	41	51	37	47	30	40	21	29	9	12	28	34	31
High-income countries	NA	NA	NA	NA	NA	NA	70	72	65	68	54	61	44	49	26	28	48	43	45
WORLD	NA	NA	NA	NA	NA	NA	43	52	39	48	32	42	24	32	13	17	30	35	33
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	2	9	8	12	13	9	11	0	1	33	35	68
Europe and Central Asia	NA	NA	NA	NA	NA	NA	1	1	5	5	7	9	6	12	2	6	22	33	55
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	1	4	4	4	5	4	6	2	5	16	22	37
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	1	4	3	4	4	4	5	1	2	14	15	29
South Asia	NA	NA	NA	NA	NA	NA	1	1	1	3	1	1	0	2	0	0	3	6	10
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	2	2	1	2	0	2	0	0	4	8	12
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	7	6	24	25	29	35	24	39	6	15	91	120	211
High-income countries	NA	NA	NA	NA	NA	NA	1	1	4	2	4	3	6	8	5	15	20	29	49
WORLD	NA	NA	NA	NA	NA	NA	8	7	28	27	33	38	30	47	11	30	111	149	260
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	59	42	168	152	165	199	80	117	2	7	474	516	990
Europe and Central Asia	NA	NA	NA	NA	NA	NA	32	21	101	93	95	134	54	127	9	29	291	404	695
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	27	32	71	84	55	73	39	65	10	24	202	278	480
Middle East and North Africa	NA	NA	NA	NA	NA	NA	23	17	66	62	53	63	37	49	6	11	185	202	388
South Asia	NA	NA	NA	NA	NA	NA	15	15	18	53	12	15	3	22	1	0	52	105	157
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	13	23	31	50	14	37	4	23	1	2	61	135	195
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	169	150	456	495	394	522	217	403	29	72	1,265	1,641	2,906
High-income countries	NA	NA	NA	NA	NA	NA	26	14	74	43	55	50	52	81	21	60	228	248	476
WORLD	NA	NA	NA	NA	NA	NA	195	164	530	537	449	572	268	484	50	132	1,493	1,889	3,382
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	62	44	179	161	178	211	91	128	2	8	513	552	1,065
Europe and Central Asia	NA	NA	NA	NA	NA	NA	33	22	105	97	100	141	58	137	11	35	307	431	738
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	28	33	74	88	58	77	43	71	13	29	217	299	515
Middle East and North Africa	NA	NA	NA	NA	NA	NA	23	18	68	65	56	66	39	53	7	13	194	215	409
South Asia	NA	NA	NA	NA	NA	NA	16	16	20	57	17	17	4	28	2	0	58	118	176
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	14	24	33	53	13	40	5	26	1	2	65	145	209
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	177	157	479	520	420	552	241	442	36	87	1,353	1,759	3,112
High-income countries	NA	NA	NA	NA	NA	NA	27	15	78	44	59	53	59	90	32	90	254	292	546
WORLD	NA	NA	NA	NA	NA	NA	204	172	557	564	479	605	300	532	67	177	1,607	2,051	3,658

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.36

Risk factor: Overweight and obesity
Disease: Ischemic heart disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	23	26	19	23	14	20	7	9	0	1	10	10	10
Europe and Central Asia	NA	NA	NA	NA	NA	NA	42	52	39	51	30	42	20	27	9	10	25	23	24
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	42	52	36	46	26	34	18	24	6	8	22	23	23
Middle East and North Africa	NA	NA	NA	NA	NA	NA	43	58	35	45	22	29	14	16	5	6	21	22	22
South Asia	NA	NA	NA	NA	NA	NA	10	17	5	16	4	4	1	7	1	0	3	7	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	19	28	17	19	7	12	3	7	1	1	7	9	8
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	26	28	20	27	16	19	10	16	4	6	13	15	14
High-income countries	NA	NA	NA	NA	NA	NA	49	49	43	44	32	36	21	24	8	9	22	16	19
WORLD	NA	NA	NA	NA	NA	NA	28	29	23	28	18	20	12	17	5	7	15	15	15
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	23	26	19	23	14	20	7	9	0	1	13	14	13
Europe and Central Asia	NA	NA	NA	NA	NA	NA	42	52	39	51	30	42	20	27	9	10	30	30	30
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	42	52	36	46	26	34	18	24	6	8	27	30	28
Middle East and North Africa	NA	NA	NA	NA	NA	NA	43	58	35	45	22	29	14	16	5	6	25	28	26
South Asia	NA	NA	NA	NA	NA	NA	10	17	5	16	4	4	1	7	1	0	4	8	6
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	19	28	17	19	7	12	3	7	1	1	10	12	11
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	26	28	21	27	16	19	10	15	4	6	16	18	17
High-income countries	NA	NA	NA	NA	NA	NA	49	49	43	44	32	36	21	24	8	9	28	23	26
WORLD	NA	NA	NA	NA	NA	NA	28	29	23	28	18	20	12	17	5	6	18	18	18
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	23	26	19	23	14	20	7	9	0	1	13	14	13
Europe and Central Asia	NA	NA	NA	NA	NA	NA	42	52	39	51	30	42	20	27	9	10	30	30	30
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	42	52	36	46	26	34	18	24	6	8	27	30	28
Middle East and North Africa	NA	NA	NA	NA	NA	NA	43	58	35	45	22	29	14	16	5	6	25	28	26
South Asia	NA	NA	NA	NA	NA	NA	10	17	5	16	4	4	1	7	1	0	4	8	6
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	19	28	17	19	7	12	3	7	1	1	10	12	11
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	26	28	20	27	15	19	10	15	4	6	16	18	16
High-income countries	NA	NA	NA	NA	NA	NA	49	49	43	44	32	36	21	24	8	9	29	23	27
WORLD	NA	NA	NA	NA	NA	NA	28	29	23	28	18	20	12	17	5	6	18	18	18
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	7	4	19	13	20	22	14	16	0	1	60	57	118
Europe and Central Asia	NA	NA	NA	NA	NA	NA	16	4	60	22	68	54	52	86	11	38	207	203	410
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	2	14	8	13	10	11	11	3	5	44	36	81
Middle East and North Africa	NA	NA	NA	NA	NA	NA	5	2	14	9	11	9	8	8	1	2	39	30	69
South Asia	NA	NA	NA	NA	NA	NA	5	6	12	20	12	9	4	18	1	0	34	53	88
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	7	5	4	5	2	4	0	0	13	15	29
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	37	19	127	78	127	110	91	142	17	47	399	395	794
High-income countries	NA	NA	NA	NA	NA	NA	8	2	37	10	41	19	50	38	21	36	156	104	261
WORLD	NA	NA	NA	NA	NA	NA	45	21	164	88	168	129	140	180	38	82	555	499	1,055
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	165	105	359	262	270	336	124	163	2	7	920	874	1,793
Europe and Central Asia	NA	NA	NA	NA	NA	NA	367	91	1,135	444	917	806	472	873	52	175	2,943	2,388	5,332
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	90	51	265	166	173	152	97	109	13	23	637	502	1,139
Middle East and North Africa	NA	NA	NA	NA	NA	NA	110	56	271	174	146	140	74	80	7	10	608	460	1,068
South Asia	NA	NA	NA	NA	NA	NA	119	135	228	403	163	139	32	193	6	0	548	870	1,419
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	32	23	124	99	48	82	15	38	1	2	219	243	462
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	883	461	2,382	1,547	1,717	1,655	814	1,456	80	218	5,875	5,337	11,213
High-income countries	NA	NA	NA	NA	NA	NA	182	45	695	199	552	283	434	377	90	146	1,953	1,050	3,003
WORLD	NA	NA	NA	NA	NA	NA	1,065	506	3,077	1,747	2,268	1,938	1,248	1,833	170	364	7,828	6,387	14,216
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	183	117	383	282	283	353	126	166	2	7	978	925	1,902
Europe and Central Asia	NA	NA	NA	NA	NA	NA	394	104	1,179	476	946	844	480	889	52	178	3,052	2,491	5,543
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	102	59	283	181	184	161	99	112	13	24	681	538	1,219
Middle East and North Africa	NA	NA	NA	NA	NA	NA	122	64	286	185	153	146	76	81	7	11	644	487	1,131
South Asia	NA	NA	NA	NA	NA	NA	136	155	241	434	172	146	33	198	7	0	588	933	1,521
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	36	26	132	105	50	86	15	39	1	2	234	258	492
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	972	525	2,505	1,664	1,789	1,737	830	1,484	81	221	6,177	5,631	11,808
High-income countries	NA	NA	NA	NA	NA	NA	208	60	766	239	594	317	456	402	93	152	2,117	1,170	3,287
WORLD	NA	NA	NA	NA	NA	NA	1,180	585	3,270	1,903	2,383	2,055	1,286	1,887	174	372	8,294	6,802	15,096

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.37

Risk factor: Overweight and obesity
Disease: Cerebrovascular disease

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	7	8	7	9	6	9	4	5	0	0	4	4	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	21	27	23	30	19	27	14	20	7	8	16	17	16
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	19	24	20	25	16	21	13	16	5	7	13	15	14
Middle East and North Africa	NA	NA	NA	NA	NA	NA	20	27	19	24	13	18	10	11	4	5	10	12	11
South Asia	NA	NA	NA	NA	NA	NA	5	8	3	9	2	2	1	5	1	0	2	4	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	9	13	9	11	4	7	2	5	1	1	4	6	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	11	15	10	14	8	11	6	9	2	4	7	8	7
High-income countries	NA	NA	NA	NA	NA	NA	25	25	25	26	20	23	16	17	7	7	13	11	12
WORLD	NA	NA	NA	NA	NA	NA	13	16	11	15	9	12	7	10	3	5	7	9	8
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	7	8	7	9	6	9	4	5	0	0	5	6	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	21	27	23	30	19	27	14	20	7	8	17	20	19
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	19	24	20	25	16	21	13	16	5	7	15	18	16
Middle East and North Africa	NA	NA	NA	NA	NA	NA	20	27	19	24	13	18	10	11	4	5	11	14	13
South Asia	NA	NA	NA	NA	NA	NA	5	8	3	9	2	2	1	5	1	0	2	4	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	9	13	9	11	4	7	2	5	1	1	5	7	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	11	15	10	14	8	11	6	9	2	3	7	10	9
High-income countries	NA	NA	NA	NA	NA	NA	25	25	25	26	20	23	16	17	7	7	16	15	16
WORLD	NA	NA	NA	NA	NA	NA	13	16	11	15	9	12	7	10	3	4	8	10	9
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	10	11	9	11	8	11	5	5	0	1	7	8	7
Europe and Central Asia	NA	NA	NA	NA	NA	NA	25	32	26	34	21	30	15	21	7	9	19	23	21
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	24	31	23	30	19	24	14	18	5	7	18	22	20
Middle East and North Africa	NA	NA	NA	NA	NA	NA	25	33	22	28	15	20	11	12	4	5	13	17	15
South Asia	NA	NA	NA	NA	NA	NA	6	9	3	10	3	3	1	5	1	0	2	5	4
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	9	14	10	12	4	8	2	5	1	1	6	8	7
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	14	19	12	17	10	13	6	10	2	3	9	12	10
High-income countries	NA	NA	NA	NA	NA	NA	33	34	32	33	25	29	18	20	7	8	21	20	20
WORLD	NA	NA	NA	NA	NA	NA	16	21	14	18	11	15	8	11	4	5	10	13	12
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	1	10	8	15	15	14	17	0	2	42	42	84
Europe and Central Asia	NA	NA	NA	NA	NA	NA	3	2	13	10	21	25	21	44	6	22	63	104	166
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	2	4	5	4	5	5	6	2	3	16	20	37
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	1	2	2	2	2	2	3	1	1	7	8	15
South Asia	NA	NA	NA	NA	NA	NA	0	0	2	5	3	3	1	8	1	0	8	16	24
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	3	4	2	4	1	3	0	0	6	12	18
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	8	7	33	33	48	53	44	81	9	28	142	202	344
High-income countries	NA	NA	NA	NA	NA	NA	2	1	6	4	9	7	16	18	10	22	42	51	94
WORLD	NA	NA	NA	NA	NA	NA	9	8	39	37	57	59	60	99	19	50	184	254	438
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	42	30	185	157	207	218	127	171	2	8	563	585	1,148
Europe and Central Asia	NA	NA	NA	NA	NA	NA	65	47	237	210	286	371	186	452	26	104	799	1,183	1,983
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	30	39	79	92	58	70	42	62	8	17	218	278	496
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	13	31	36	26	34	19	26	3	5	90	113	203
South Asia	NA	NA	NA	NA	NA	NA	11	11	38	90	47	46	12	86	3	0	111	234	293
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	23	27	50	78	20	57	8	32	1	2	101	195	296
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	182	167	621	663	644	795	394	829	42	135	1,882	2,589	4,471
High-income countries	NA	NA	NA	NA	NA	NA	36	27	117	81	119	98	136	175	43	90	451	472	923
WORLD	NA	NA	NA	NA	NA	NA	218	194	738	743	763	894	530	1,004	85	225	2,333	3,060	5,394
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	82	61	329	278	333	342	170	223	2	10	917	914	1,831
Europe and Central Asia	NA	NA	NA	NA	NA	NA	91	78	330	313	397	531	239	560	30	116	1,086	1,599	2,685
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	51	73	132	152	93	108	58	81	9	20	343	433	776
Middle East and North Africa	NA	NA	NA	NA	NA	NA	21	22	48	54	37	47	25	31	3	5	134	159	293
South Asia	NA	NA	NA	NA	NA	NA	16	16	55	127	65	62	15	104	3	0	154	308	462
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	26	31	59	95	24	68	9	36	1	2	119	233	351
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	287	281	954	1,018	950	1,159	513	1,035	49	153	2,754	3,646	6,399
High-income countries	NA	NA	NA	NA	NA	NA	93	73	297	217	275	232	240	306	58	121	963	949	1,912
WORLD	NA	NA	NA	NA	NA	NA	380	355	1,251	1,235	1,226	1,391	753	1,340	107	274	3,717	4,595	8,311

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.38

Risk factor: Overweight and obesity
Disease: Osteoarthritis

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	8	9	8	10	8	12	6	8	1	1	5	6	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	16	20	19	26	19	27	17	24	16	18	17	23	21
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	15	20	17	23	17	22	16	21	12	15	14	17	16
Middle East and North Africa	NA	NA	NA	NA	NA	NA	15	22	17	22	14	18	12	14	9	12	10	16	13
South Asia	NA	NA	NA	NA	NA	NA	3	5	2	7	2	2	1	6	2	0	2	3	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	*	*	7	8	*	7	2	6	2	2	3	5	4
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	12	14	12	16	12	20	10	15	7	12	9	14	12
High-income countries	NA	NA	NA	NA	NA	NA	19	18	21	22	20	23	19	21	15	16	17	17	17
WORLD	NA	NA	NA	NA	NA	NA	15	14	14	18	15	21	14	19	12	15	13	16	15
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	8	9	8	10	8	12	6	8	1	1	7	7	7
Europe and Central Asia	NA	NA	NA	NA	NA	NA	16	20	19	26	19	27	17	24	16	18	16	24	21
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	15	20	17	23	17	22	16	21	12	15	14	19	17
Middle East and North Africa	NA	NA	NA	NA	NA	NA	15	22	17	22	14	18	12	14	9	12	9	18	13
South Asia	NA	NA	NA	NA	NA	NA	3	5	2	7	2	2	1	6	2	0	2	4	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	*	*	7	8	*	7	2	6	2	2	4	6	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	12	14	12	16	12	20	10	15	7	11	10	15	12
High-income countries	NA	NA	NA	NA	NA	NA	19	18	21	22	20	23	19	21	15	16	18	18	18
WORLD	NA	NA	NA	NA	NA	NA	14	14	14	18	15	21	14	18	12	15	13	17	15
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	8	9	8	10	8	12	6	8	1	1	8	9	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	16	20	19	26	19	27	17	24	16	18	16	24	21
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	15	20	17	23	17	22	16	21	12	15	16	21	19
Middle East and North Africa	NA	NA	NA	NA	NA	NA	15	22	17	22	14	18	12	14	9	12	14	18	16
South Asia	NA	NA	NA	NA	NA	NA	3	5	2	7	2	2	1	6	2	0	2	5	4
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	6	9	7	8	4	7	2	6	2	2	5	7	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	9	11	10	14	10	14	9	15	7	10	9	12	11
High-income countries	NA	NA	NA	NA	NA	NA	19	18	21	22	20	23	19	21	15	16	19	21	20
WORLD	NA	NA	NA	NA	NA	NA	10	11	12	15	12	17	13	18	11	14	11	14	13
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1
WORLD	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	1	1
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	1	1	2
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	1	0	1	1	2	3
WORLD	NA	NA	NA	NA	NA	NA	0	0	0	0	0	1	1	1	0	1	2	3	5
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	37	84	76	148	42	78	9	14	0	0	164	325	489
Europe and Central Asia	NA	NA	NA	NA	NA	NA	40	60	53	139	29	93	12	50	1	5	135	348	483
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	16	19	30	56	20	50	14	34	2	6	81	164	245
Middle East and North Africa	NA	NA	NA	NA	NA	NA	11	22	11	23	4	11	1	3	0	0	27	58	85
South Asia	NA	NA	NA	NA	NA	NA	10	23	7	41	4	7	1	5	0	0	22	76	98
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	8	21	14	18	3	9	1	3	0	0	27	51	78
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	121	228	191	424	102	248	37	110	3	12	455	1,023	1,478
High-income countries	NA	NA	NA	NA	NA	NA	36	34	93	131	75	156	60	144	8	34	272	500	772
WORLD	NA	NA	NA	NA	NA	NA	157	262	285	556	177	405	97	254	12	46	727	1,523	2,250

Source: Authors' calculations.

Note: NA = not applicable.

*The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.39

Risk factor: Overweight and obesity
Disease: All causes

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	3	4	6	4	8	3	4	0	0	2	3	3
Europe and Central Asia	NA	NA	NA	NA	NA	NA	7	8	13	18	14	24	12	19	6	8	10	15	12
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	8	12	19	12	20	10	16	5	7	7	11	9
Middle East and North Africa	NA	NA	NA	NA	NA	NA	8	8	14	17	11	16	9	11	4	5	6	8	7
South Asia	NA	NA	NA	NA	NA	NA	1	2	2	5	2	2	1	4	1	0	1	2	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	2	4	2	5	1	4	0	1	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	2	5	8	6	9	5	8	2	3	3	4	4
High-income countries	NA	NA	NA	NA	NA	NA	7	6	12	11	10	13	9	11	4	6	8	8	8
WORLD	NA	NA	NA	NA	NA	NA	3	3	6	8	7	10	5	8	3	4	4	5	4
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	3	4	6	4	8	3	4	0	0	2	3	3
Europe and Central Asia	NA	NA	NA	NA	NA	NA	7	8	13	18	14	24	12	19	6	8	10	15	12
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	8	11	19	12	20	10	16	5	8	5	10	7
Middle East and North Africa	NA	NA	NA	NA	NA	NA	8	8	14	17	11	16	9	11	4	5	5	6	6
South Asia	NA	NA	NA	NA	NA	NA	1	2	2	5	2	2	1	4	1	0	1	1	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	1	2	4	2	5	1	4	0	1	0	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	2	5	8	6	9	5	8	2	3	2	3	3
High-income countries	NA	NA	NA	NA	NA	NA	7	6	11	11	10	13	9	11	5	6	8	9	8
WORLD	NA	NA	NA	NA	NA	NA	3	3	6	8	7	10	5	8	3	4	3	4	3
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	3	3	5	4	6	3	4	0	0	2	3	2
Europe and Central Asia	NA	NA	NA	NA	NA	NA	6	7	12	15	13	20	11	17	5	7	8	11	9
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	6	9	14	10	15	9	13	4	6	4	6	5
Middle East and North Africa	NA	NA	NA	NA	NA	NA	6	6	10	11	9	12	8	9	4	5	4	4	4
South Asia	NA	NA	NA	NA	NA	NA	1	2	1	4	2	2	1	3	1	0	1	1	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	2	3	2	4	1	3	0	1	0	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	3	5	7	5	8	4	7	2	3	2	3	2
High-income countries	NA	NA	NA	NA	NA	NA	6	5	11	11	10	12	8	10	4	5	7	7	7
WORLD	NA	NA	NA	NA	NA	NA	2	3	5	7	6	8	5	8	3	3	2	3	3
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	14	11	48	47	59	76	50	63	2	6	172	202	374
Europe and Central Asia	NA	NA	NA	NA	NA	NA	21	8	82	47	102	104	85	160	21	72	312	391	702
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	9	9	33	35	33	41	35	47	14	28	124	159	283
Middle East and North Africa	NA	NA	NA	NA	NA	NA	7	4	22	17	19	20	18	19	4	6	69	67	136
South Asia	NA	NA	NA	NA	NA	NA	8	8	19	39	20	18	7	39	4	0	58	104	161
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	5	14	20	7	18	4	14	1	2	31	59	90
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	64	46	218	205	240	275	199	341	46	114	766	981	1,747
High-income countries	NA	NA	NA	NA	NA	NA	13	6	60	31	71	52	101	104	57	119	303	311	614
WORLD	NA	NA	NA	NA	NA	NA	77	51	278	236	311	327	300	445	103	233	1,069	1,292	2,361
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	336	274	895	932	793	1,137	441	644	9	31	2,473	3,018	5,491
Europe and Central Asia	NA	NA	NA	NA	NA	NA	502	203	1,558	929	1,381	1,561	770	1,637	96	339	4,306	4,670	8,976
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	221	209	624	699	442	615	311	480	64	138	1,663	2,142	3,805
Middle East and North Africa	NA	NA	NA	NA	NA	NA	161	106	408	345	256	298	158	195	21	35	1,003	978	1,982
South Asia	NA	NA	NA	NA	NA	NA	182	201	347	778	265	267	66	405	22	0	882	1,651	2,533
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	102	121	267	395	101	273	39	146	4	9	513	944	1,457
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1,505	1,114	4,099	4,077	3,238	4,151	1,786	3,508	215	553	10,841	13,403	24,244
High-income countries	NA	NA	NA	NA	NA	NA	317	140	1,118	616	958	774	882	1,044	252	503	3,526	3,077	6,603
WORLD	NA	NA	NA	NA	NA	NA	1,822	1,254	5,217	4,693	4,195	4,925	2,667	4,551	467	1,056	14,368	16,480	30,848
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	586	616	1,285	1,477	1,029	1,454	526	753	10	36	3,437	4,336	7,773
Europe and Central Asia	NA	NA	NA	NA	NA	NA	651	402	1,826	1,377	1,590	1,950	867	1,875	107	378	5,040	5,981	11,022
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	324	368	801	1,020	539	796	364	586	75	166	2,102	2,935	5,038
Middle East and North Africa	NA	NA	NA	NA	NA	NA	251	228	495	473	292	351	176	217	23	40	1,236	1,308	2,545
South Asia	NA	NA	NA	NA	NA	NA	298	430	422	1,052	311	315	74	456	25	0	1,130	2,253	3,384
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	139	186	319	471	114	308	43	159	4	10	620	1,134	1,754
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2,248	2,230	5,148	5,869	3,875	5,174	2,051	4,045	244	630	13,566	17,948	31,515
High-income countries	NA	NA	NA	NA	NA	NA	636	433	1,823	1,403	1,384	1,356	1,178	1,531	321	668	5,341	5,392	10,733
WORLD	NA	NA	NA	NA	NA	NA	2,884	2,663	6,971	7,272	5,259	6,530	3,229	5,577	564	1,298	18,907	23,340	42,248

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.40

Risk factor: Low fruit and vegetable intake
Disease: Esophageal cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	20	22	20	21	19	20	20	22	17	18	13	13	18	19	19
Europe and Central Asia	NA	NA	NA	NA	20	22	21	23	20	22	21	23	16	18	12	13	19	19	19
Latin America and the Caribbean	NA	NA	NA	NA	26	27	27	23	25	26	24	25	18	19	13	13	22	20	21
Middle East and North Africa	NA	NA	NA	NA	22	20	17	18	16	20	15	17	12	14	8	9	14	16	15
South Asia	NA	NA	NA	NA	23	25	23	25	23	25	23	25	18	19	13	14	21	22	21
Sub-Saharan Africa	NA	NA	NA	NA	25	24	19	22	19	24	17	21	12	17	7	11	16	20	17
Low- and middle-income countries	NA	NA	NA	NA	22	24	21	23	20	22	21	23	17	18	12	13	19	20	19
High-income countries	NA	NA	NA	NA	19	20	18	18	16	16	14	14	11	11	8	8	13	11	12
WORLD	NA	NA	NA	NA	22	24	21	23	19	22	20	22	16	18	11	12	18	19	18
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	20	22	20	21	19	20	20	22	17	18	13	13	19	20	19
Europe and Central Asia	NA	NA	NA	NA	20	22	21	23	20	22	21	23	16	18	12	13	20	21	20
Latin America and the Caribbean	NA	NA	NA	NA	26	27	27	23	25	26	24	25	18	19	13	13	23	22	23
Middle East and North Africa	NA	NA	NA	NA	22	20	17	18	16	20	15	17	12	14	8	9	15	17	16
South Asia	NA	NA	NA	NA	23	25	23	25	23	25	23	25	18	19	13	14	22	23	22
Sub-Saharan Africa	NA	NA	NA	NA	25	24	19	22	19	24	17	21	12	17	7	11	17	21	19
Low- and middle-income countries	NA	NA	NA	NA	22	24	21	23	20	22	21	23	17	18	12	13	20	21	20
High-income countries	NA	NA	NA	NA	19	20	18	18	16	16	14	14	11	11	8	8	14	13	14
WORLD	NA	NA	NA	NA	22	24	21	23	19	22	20	22	16	18	11	13	19	20	19
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	20	22	20	21	19	20	20	22	17	18	13	13	19	20	19
Europe and Central Asia	NA	NA	NA	NA	20	22	21	23	20	22	21	23	16	18	12	13	20	21	20
Latin America and the Caribbean	NA	NA	NA	NA	26	27	27	23	25	26	24	25	18	19	13	13	23	22	23
Middle East and North Africa	NA	NA	NA	NA	22	20	17	18	16	20	15	17	12	14	8	9	15	17	16
South Asia	NA	NA	NA	NA	23	25	23	25	23	25	23	25	18	19	13	14	22	23	22
Sub-Saharan Africa	NA	NA	NA	NA	25	24	19	22	19	24	17	21	12	17	7	11	17	21	19
Low- and middle-income countries	NA	NA	NA	NA	22	24	21	23	20	22	21	23	17	18	12	13	20	21	20
High-income countries	NA	NA	NA	NA	19	20	18	18	16	16	14	14	11	11	8	8	14	13	13
WORLD	NA	NA	NA	NA	22	24	21	23	19	22	20	22	16	18	11	13	19	20	19
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	2	0	7	4	10	6	7	5	1	2	27	17	44
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	1	0	1	0	1	0	0	0	3	1	4
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	1	0	1	0	1	0	0	0	3	1	3
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
South Asia	NA	NA	NA	NA	0	0	1	1	2	2	4	3	2	2	0	1	9	8	17
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	1	1	1	1	0	0	0	0	2	2	4
Low- and middle-income countries	NA	NA	NA	NA	0	0	3	1	12	7	17	10	10	8	2	3	44	29	73
High-income countries	NA	NA	NA	NA	0	0	0	0	2	0	2	0	1	0	1	0	6	2	7
WORLD	NA	NA	NA	NA	0	0	3	1	13	7	19	10	12	8	3	3	50	30	80
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	3	1	37	11	126	81	141	85	63	52	6	9	377	240	616
Europe and Central Asia	NA	NA	NA	NA	0	0	2	1	17	3	16	5	5	4	0	1	42	15	57
Latin America and the Caribbean	NA	NA	NA	NA	0	0	3	1	16	4	11	4	5	2	1	1	36	12	48
Middle East and North Africa	NA	NA	NA	NA	0	0	1	1	2	2	2	1	1	1	0	0	6	5	11
South Asia	NA	NA	NA	NA	2	3	14	12	40	43	55	41	16	16	2	5	130	119	249
Sub-Saharan Africa	NA	NA	NA	NA	1	0	4	3	17	11	10	8	4	4	0	1	36	27	63
Low- and middle-income countries	NA	NA	NA	NA	6	5	62	29	218	145	236	144	94	81	11	16	627	419	1,045
High-income countries	NA	NA	NA	NA	0	0	4	1	30	5	25	5	13	5	2	2	75	18	92
WORLD	NA	NA	NA	NA	7	5	66	29	248	149	260	149	107	85	13	18	702	436	1,138
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	3	1	37	11	128	82	142	86	63	53	6	9	380	242	622
Europe and Central Asia	NA	NA	NA	NA	0	0	2	1	18	3	16	5	6	4	0	1	43	15	57
Latin America and the Caribbean	NA	NA	NA	NA	0	0	3	1	16	4	12	4	5	3	1	1	37	12	49
Middle East and North Africa	NA	NA	NA	NA	0	0	1	1	2	2	2	1	1	1	0	0	6	5	11
South Asia	NA	NA	NA	NA	2	3	14	12	40	43	55	41	17	17	2	5	131	120	250
Sub-Saharan Africa	NA	NA	NA	NA	1	0	4	3	17	12	10	8	4	4	0	1	36	28	64
Low- and middle-income countries	NA	NA	NA	NA	6	5	62	29	220	145	238	145	95	81	11	16	632	421	1,054
High-income countries	NA	NA	NA	NA	0	0	4	1	31	5	25	5	13	5	3	2	77	18	95
WORLD	NA	NA	NA	NA	7	5	67	29	251	150	263	150	108	86	13	18	709	439	1,148

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.41

Risk factor: Low fruit and vegetable intake
Disease: Stomach cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	20	22	20	21	19	20	20	22	17	18	13	13	18	19	18
Europe and Central Asia	NA	NA	NA	NA	20	22	21	23	20	22	21	23	16	18	12	13	19	20	19
Latin America and the Caribbean	NA	NA	NA	NA	26	27	27	23	25	26	24	25	18	19	13	13	21	20	21
Middle East and North Africa	NA	NA	NA	NA	22	20	17	18	16	20	15	17	12	14	8	9	14	16	15
South Asia	NA	NA	NA	NA	23	25	23	25	23	25	23	25	18	19	13	14	20	21	21
Sub-Saharan Africa	NA	NA	NA	NA	25	24	19	22	19	24	17	21	12	17	7	11	15	20	17
Low- and middle-income countries	NA	NA	NA	NA	21	23	21	22	20	21	21	23	17	18	13	13	18	19	19
High-income countries	NA	NA	NA	NA	19	20	18	18	16	16	14	14	11	11	8	8	12	11	12
WORLD	NA	NA	NA	NA	21	23	20	21	19	21	20	22	15	17	11	12	17	18	18
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	20	22	20	21	19	20	20	22	17	18	13	13	19	20	19
Europe and Central Asia	NA	NA	NA	NA	20	22	21	23	20	22	21	23	16	18	12	13	20	21	20
Latin America and the Caribbean	NA	NA	NA	NA	26	27	27	23	25	26	24	25	18	19	13	13	23	22	22
Middle East and North Africa	NA	NA	NA	NA	22	20	17	18	16	20	15	17	12	14	8	9	15	17	16
South Asia	NA	NA	NA	NA	23	25	23	25	23	25	23	25	18	19	13	14	22	23	22
Sub-Saharan Africa	NA	NA	NA	NA	25	24	19	22	19	24	17	21	12	17	7	11	17	21	19
Low- and middle-income countries	NA	NA	NA	NA	21	23	21	22	20	21	21	23	17	18	13	13	19	20	20
High-income countries	NA	NA	NA	NA	19	20	18	18	16	16	14	14	11	11	8	8	13	13	13
WORLD	NA	NA	NA	NA	21	23	20	21	19	21	20	22	15	17	11	12	18	19	19
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	20	22	20	21	19	20	20	22	17	18	13	13	19	20	19
Europe and Central Asia	NA	NA	NA	NA	20	22	21	23	20	22	21	23	16	18	12	13	20	21	20
Latin America and the Caribbean	NA	NA	NA	NA	26	27	27	23	25	26	24	25	18	19	13	13	23	22	22
Middle East and North Africa	NA	NA	NA	NA	22	20	17	18	16	20	15	17	12	14	8	9	15	17	16
South Asia	NA	NA	NA	NA	23	25	23	25	23	25	23	25	18	19	13	14	22	23	22
Sub-Saharan Africa	NA	NA	NA	NA	25	24	19	22	19	24	17	21	12	17	7	11	17	21	19
Low- and middle-income countries	NA	NA	NA	NA	21	23	21	22	20	21	21	23	17	18	13	13	19	20	20
High-income countries	NA	NA	NA	NA	19	20	18	18	16	16	14	14	11	11	8	8	13	13	13
WORLD	NA	NA	NA	NA	21	23	20	21	19	21	20	22	15	17	11	12	18	19	19
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	3	3	14	7	17	8	13	9	3	4	51	31	82
Europe and Central Asia	NA	NA	NA	NA	0	0	1	1	3	1	4	2	3	3	0	1	11	8	19
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	0	2	1	2	1	2	1	1	1	7	5	12
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	2	1	3
South Asia	NA	NA	NA	NA	0	0	1	0	1	1	2	1	1	1	0	1	6	4	9
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	1	1	1	1	1	1	0	0	3	3	6
Low- and middle-income countries	NA	NA	NA	NA	1	1	5	4	22	11	27	14	19	15	5	7	79	51	130
High-income countries	NA	NA	NA	NA	0	0	0	0	2	1	3	1	3	2	2	2	11	6	17
WORLD	NA	NA	NA	NA	1	1	6	5	24	12	30	15	23	16	7	8	90	58	147
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	15	11	73	68	267	134	231	120	113	92	17	22	716	447	1,163
Europe and Central Asia	NA	NA	NA	NA	2	2	16	14	53	27	59	38	27	28	2	4	158	113	271
Latin America and the Caribbean	NA	NA	NA	NA	3	2	12	10	32	21	29	18	16	13	4	4	95	68	163
Middle East and North Africa	NA	NA	NA	NA	1	1	3	4	7	6	6	4	4	3	0	0	21	18	39
South Asia	NA	NA	NA	NA	4	3	12	7	26	18	30	17	10	7	2	3	84	55	139
Sub-Saharan Africa	NA	NA	NA	NA	2	2	6	6	19	19	10	12	5	6	1	1	43	48	91
Low- and middle-income countries	NA	NA	NA	NA	26	22	122	109	404	225	364	208	175	149	26	35	1,117	748	1,865
High-income countries	NA	NA	NA	NA	1	1	10	9	40	20	41	19	29	19	7	8	129	77	206
WORLD	NA	NA	NA	NA	27	23	133	118	443	245	406	228	204	169	34	43	1,246	825	2,072
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	15	12	74	69	271	135	234	121	115	93	17	23	726	453	1,178
Europe and Central Asia	NA	NA	NA	NA	2	2	16	14	54	27	60	38	27	29	2	4	161	115	275
Latin America and the Caribbean	NA	NA	NA	NA	3	2	12	11	33	21	29	18	16	13	4	4	96	69	165
Middle East and North Africa	NA	NA	NA	NA	1	1	3	4	7	6	6	4	4	3	0	0	22	18	39
South Asia	NA	NA	NA	NA	4	3	12	7	26	18	30	17	11	7	2	3	85	55	140
Sub-Saharan Africa	NA	NA	NA	NA	2	2	6	6	19	20	11	13	5	7	1	1	44	48	92
Low- and middle-income countries	NA	NA	NA	NA	26	22	123	110	409	228	370	211	178	151	27	35	1,132	757	1,889
High-income countries	NA	NA	NA	NA	1	1	10	10	41	20	43	20	30	20	8	9	134	80	214
WORLD	NA	NA	NA	NA	27	23	134	120	450	248	412	231	208	171	35	44	1,266	837	2,103

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.42

Risk factor: Low fruit and vegetable intake
Disease: Colon and rectal cancers

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	2	2	2
Europe and Central Asia	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	2	3	3
Latin America and the Caribbean	NA	NA	NA	NA	3	4	4	1	3	4	3	3	3	3	0	0	3	2	2
Middle East and North Africa	NA	NA	NA	NA	3	3	2	2	2	3	2	2	2	2	0	0	2	2	2
South Asia	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3
Sub-Saharan Africa	NA	NA	NA	NA	3	3	3	3	2	3	2	3	2	3	0	0	2	3	2
Low- and middle-income countries	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	2	2	2
High-income countries	NA	NA	NA	NA	3	3	2	2	2	2	2	2	2	2	0	0	1	1	1
WORLD	NA	NA	NA	NA	3	3	3	3	2	3	2	3	2	3	0	0	2	2	2
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3
Europe and Central Asia	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3
Latin America and the Caribbean	NA	NA	NA	NA	3	4	4	1	3	4	3	3	3	3	0	0	3	3	3
Middle East and North Africa	NA	NA	NA	NA	3	3	2	2	2	3	2	2	2	2	0	0	2	2	2
South Asia	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3
Sub-Saharan Africa	NA	NA	NA	NA	3	3	3	3	2	3	2	3	2	3	0	0	2	3	3
Low- and middle-income countries	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3
High-income countries	NA	NA	NA	NA	3	3	2	2	2	2	2	2	2	2	0	0	2	2	2
WORLD	NA	NA	NA	NA	3	3	3	3	2	3	2	3	2	3	0	0	2	2	2
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3
Europe and Central Asia	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3
Latin America and the Caribbean	NA	NA	NA	NA	3	4	4	1	3	4	3	3	3	3	0	0	3	3	3
Middle East and North Africa	NA	NA	NA	NA	3	3	2	2	2	3	2	2	2	2	0	0	2	2	2
South Asia	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3
Sub-Saharan Africa	NA	NA	NA	NA	3	3	3	3	2	3	2	3	2	3	0	0	2	3	3
Low- and middle-income countries	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	0	0	3	3	3
High-income countries	NA	NA	NA	NA	3	3	2	2	2	2	2	2	2	2	0	0	2	2	2
WORLD	NA	NA	NA	NA	3	3	3	3	2	3	2	3	2	3	0	0	2	2	2
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	1	1	1	1	0	0	2	2	4
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	1	0	0	1	1	2
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	1	1	1	1	2	2	0	0	5	4	9
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	1	0	1	1	0	0	2	1	3
WORLD	NA	NA	NA	NA	0	0	0	0	1	1	2	2	2	2	0	0	6	6	12
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	1	4	5	9	9	9	9	6	7	0	0	30	29	59
Europe and Central Asia	NA	NA	NA	NA	0	0	1	1	4	4	6	6	4	6	0	0	16	18	33
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	0	2	2	2	2	1	2	0	0	7	7	13
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	1	1	0	0	0	0	0	0	2	2	3
South Asia	NA	NA	NA	NA	1	0	2	1	2	2	2	2	1	1	0	0	8	6	15
Sub-Saharan Africa	NA	NA	NA	NA	0	0	1	1	1	1	1	1	1	1	0	0	4	4	7
Low- and middle-income countries	NA	NA	NA	NA	3	1	10	8	19	19	20	20	14	17	0	0	66	65	131
High-income countries	NA	NA	NA	NA	0	0	2	1	7	5	7	5	7	7	0	0	23	19	42
WORLD	NA	NA	NA	NA	3	2	11	10	26	24	27	25	21	24	0	0	89	84	173
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	1	5	5	10	9	9	9	6	7	0	0	31	31	62
Europe and Central Asia	NA	NA	NA	NA	0	0	1	1	5	4	6	7	5	6	0	0	17	19	36
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	0	2	2	2	2	2	2	0	0	7	7	14
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	1	1	0	0	0	0	0	0	2	2	4
South Asia	NA	NA	NA	NA	1	0	2	1	2	2	2	2	1	1	0	0	9	6	15
Sub-Saharan Africa	NA	NA	NA	NA	0	0	1	1	1	1	1	1	1	1	0	0	4	4	7
Low- and middle-income countries	NA	NA	NA	NA	3	1	10	9	20	20	21	21	14	17	0	0	69	69	138
High-income countries	NA	NA	NA	NA	0	0	2	2	8	6	9	6	8	9	0	0	28	23	51
WORLD	NA	NA	NA	NA	3	2	12	11	29	27	30	27	23	26	0	0	96	92	189

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.43

Risk factor: Low fruit and vegetable intake
Disease: Trachea, bronchus, and lung cancers

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	13	14	13	14	12	13	13	15	11	13	10	10	12	13	12
Europe and Central Asia	NA	NA	NA	NA	13	15	14	15	13	14	13	15	11	12	9	10	13	13	13
Latin America and the Caribbean	NA	NA	NA	NA	17	18	17	14	16	17	16	16	12	13	10	10	14	14	14
Middle East and North Africa	NA	NA	NA	NA	14	13	11	12	10	13	9	11	8	10	6	7	9	11	9
South Asia	NA	NA	NA	NA	15	16	15	16	15	17	15	16	12	13	10	11	14	15	14
Sub-Saharan Africa	NA	NA	NA	NA	16	16	12	14	12	16	11	14	8	11	5	8	11	13	11
Low- and middle-income countries	NA	NA	NA	NA	14	15	14	14	13	14	13	15	11	13	10	10	13	13	13
High-income countries	NA	NA	NA	NA	12	13	11	12	10	10	9	9	7	8	6	6	8	8	8
WORLD	NA	NA	NA	NA	14	15	13	14	12	13	12	13	10	10	8	8	11	11	11
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	13	14	13	14	12	13	13	15	11	13	10	10	12	13	13
Europe and Central Asia	NA	NA	NA	NA	13	15	14	15	13	14	13	15	11	12	9	10	13	14	13
Latin America and the Caribbean	NA	NA	NA	NA	17	18	17	14	16	17	16	16	12	13	10	10	15	15	15
Middle East and North Africa	NA	NA	NA	NA	14	13	11	12	10	13	9	11	8	10	6	7	9	11	10
South Asia	NA	NA	NA	NA	15	16	15	16	15	17	15	16	12	13	10	11	14	16	15
Sub-Saharan Africa	NA	NA	NA	NA	16	16	12	14	12	16	11	14	8	11	5	8	11	14	12
Low- and middle-income countries	NA	NA	NA	NA	14	15	14	14	13	14	13	15	11	13	10	10	13	14	13
High-income countries	NA	NA	NA	NA	12	13	11	12	10	10	9	9	7	8	6	6	8	9	9
WORLD	NA	NA	NA	NA	14	15	13	14	12	13	12	13	10	10	8	8	11	12	12
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	13	14	13	14	12	13	13	15	11	13	10	10	12	13	13
Europe and Central Asia	NA	NA	NA	NA	13	15	14	15	13	14	13	15	11	12	9	10	13	14	13
Latin America and the Caribbean	NA	NA	NA	NA	17	18	17	14	16	17	16	16	12	13	10	10	15	15	15
Middle East and North Africa	NA	NA	NA	NA	14	13	11	12	10	13	9	11	8	10	6	7	9	11	10
South Asia	NA	NA	NA	NA	15	16	15	16	15	17	15	16	12	13	10	11	14	16	15
Sub-Saharan Africa	NA	NA	NA	NA	16	16	12	14	12	16	11	14	8	11	5	8	11	14	12
Low- and middle-income countries	NA	NA	NA	NA	14	15	14	14	13	14	13	15	11	13	10	10	13	14	13
High-income countries	NA	NA	NA	NA	12	13	11	12	10	10	9	9	7	8	6	6	8	9	9
WORLD	NA	NA	NA	NA	14	15	13	14	12	13	12	13	10	10	8	8	11	12	12
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	1	1	7	4	12	5	9	5	2	1	32	16	48
Europe and Central Asia	NA	NA	NA	NA	0	0	1	0	5	1	7	1	4	1	1	0	17	4	21
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	1	1	2	1	1	1	0	0	5	2	8
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
South Asia	NA	NA	NA	NA	0	0	1	0	4	1	6	1	3	1	1	0	15	4	18
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Low- and middle-income countries	NA	NA	NA	NA	0	0	3	2	18	6	28	9	18	8	4	2	71	27	98
High-income countries	NA	NA	NA	NA	0	0	1	0	5	2	7	3	8	4	3	2	25	12	36
WORLD	NA	NA	NA	NA	0	0	4	2	23	9	35	12	27	12	7	4	96	39	135
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	3	1	35	21	135	72	166	78	80	55	9	7	428	235	664
Europe and Central Asia	NA	NA	NA	NA	1	1	15	5	87	17	97	19	38	13	3	2	241	56	297
Latin America and the Caribbean	NA	NA	NA	NA	1	1	5	4	25	13	24	11	13	6	2	1	71	36	107
Middle East and North Africa	NA	NA	NA	NA	1	0	3	2	7	3	6	2	3	1	0	0	20	8	28
South Asia	NA	NA	NA	NA	3	1	16	7	73	22	76	18	31	8	4	1	203	57	262
Sub-Saharan Africa	NA	NA	NA	NA	0	0	2	1	9	3	6	2	2	1	0	0	18	8	26
Low- and middle-income countries	NA	NA	NA	NA	9	4	76	39	335	130	375	130	167	84	19	12	980	400	1,381
High-income countries	NA	NA	NA	NA	1	0	14	10	93	45	100	46	74	40	15	11	296	151	447
WORLD	NA	NA	NA	NA	9	5	90	49	427	175	474	176	240	124	35	23	1,276	552	1,828
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	3	1	35	21	136	73	168	79	81	56	10	8	433	238	671
Europe and Central Asia	NA	NA	NA	NA	1	1	15	5	88	17	98	19	39	13	3	2	245	56	301
Latin America and the Caribbean	NA	NA	NA	NA	1	1	5	4	25	13	25	11	13	6	3	1	72	36	108
Middle East and North Africa	NA	NA	NA	NA	1	0	3	2	7	3	6	2	3	1	0	0	20	8	28
South Asia	NA	NA	NA	NA	3	1	16	7	73	22	77	18	31	8	4	1	205	57	262
Sub-Saharan Africa	NA	NA	NA	NA	0	0	2	1	9	4	6	2	2	1	0	0	18	9	27
Low- and middle-income countries	NA	NA	NA	NA	9	4	76	40	338	131	379	131	170	86	20	12	992	405	1,397
High-income countries	NA	NA	NA	NA	1	0	14	10	95	46	102	47	76	41	16	11	304	155	460
WORLD	NA	NA	NA	NA	10	5	90	50	433	177	482	179	246	126	36	23	1,297	560	1,856

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.44

Risk factor: Low fruit and vegetable intake
Disease: Ischemic heart disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	31	33	30	32	29	31	31	34	24	26	19	19	26	26	26
Europe and Central Asia	NA	NA	NA	NA	31	34	33	36	31	34	32	35	24	26	17	19	27	25	26
Latin America and the Caribbean	NA	NA	NA	NA	40	40	40	36	38	39	37	38	27	27	20	19	30	28	29
Middle East and North Africa	NA	NA	NA	NA	33	31	27	29	26	31	23	26	18	21	12	14	21	22	21
South Asia	NA	NA	NA	NA	36	38	35	38	35	38	35	37	25	28	19	20	30	31	31
Sub-Saharan Africa	NA	NA	NA	NA	38	37	30	34	29	36	26	33	18	24	11	16	23	27	25
Low- and middle-income countries	NA	NA	NA	NA	34	36	33	35	32	35	32	35	24	26	18	19	27	27	27
High-income countries	NA	NA	NA	NA	30	31	28	28	25	25	22	23	16	17	12	12	17	15	16
WORLD	NA	NA	NA	NA	34	36	32	35	31	35	31	34	22	25	16	17	25	25	25
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	31	33	30	32	29	31	31	34	24	26	19	19	28	29	28
Europe and Central Asia	NA	NA	NA	NA	31	34	33	36	31	34	32	35	24	26	17	19	29	28	28
Latin America and the Caribbean	NA	NA	NA	NA	40	40	40	36	38	39	37	38	27	27	20	19	34	32	33
Middle East and North Africa	NA	NA	NA	NA	33	31	27	29	26	31	23	26	18	21	12	14	23	25	23
South Asia	NA	NA	NA	NA	36	38	35	38	35	38	35	37	25	28	19	20	32	34	33
Sub-Saharan Africa	NA	NA	NA	NA	38	37	30	34	29	36	26	33	18	24	11	16	25	30	27
Low- and middle-income countries	NA	NA	NA	NA	34	36	33	35	32	35	32	35	24	26	18	19	29	30	30
High-income countries	NA	NA	NA	NA	30	31	28	28	25	25	22	23	16	17	12	12	20	17	19
WORLD	NA	NA	NA	NA	34	36	32	35	31	35	31	34	22	25	16	17	28	29	28
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	31	33	30	32	29	31	31	34	24	26	19	19	28	29	28
Europe and Central Asia	NA	NA	NA	NA	31	34	33	36	31	34	32	35	24	26	17	19	29	28	29
Latin America and the Caribbean	NA	NA	NA	NA	40	40	40	36	38	39	37	38	27	27	20	19	34	32	33
Middle East and North Africa	NA	NA	NA	NA	33	31	27	29	26	31	23	26	18	21	12	14	23	25	24
South Asia	NA	NA	NA	NA	36	38	35	38	35	38	35	37	25	28	19	20	32	34	33
Sub-Saharan Africa	NA	NA	NA	NA	38	37	30	34	29	36	26	33	18	24	11	16	25	30	27
Low- and middle-income countries	NA	NA	NA	NA	34	36	33	35	32	35	32	35	24	26	18	19	29	30	30
High-income countries	NA	NA	NA	NA	30	31	28	28	25	25	22	23	16	17	12	12	20	18	19
WORLD	NA	NA	NA	NA	34	36	32	35	31	35	31	34	22	25	16	17	28	29	28
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	3	2	9	5	30	18	46	38	46	48	20	36	155	147	301
Europe and Central Asia	NA	NA	NA	NA	1	0	12	3	48	15	72	46	63	81	23	73	220	216	436
Latin America and the Caribbean	NA	NA	NA	NA	1	0	4	1	15	7	18	11	16	12	9	11	61	43	105
Middle East and North Africa	NA	NA	NA	NA	1	0	3	1	10	6	11	8	10	10	3	4	39	30	69
South Asia	NA	NA	NA	NA	4	7	17	12	85	47	102	87	76	75	25	25	309	254	563
Sub-Saharan Africa	NA	NA	NA	NA	0	0	2	1	11	9	14	15	11	13	2	5	41	44	85
Low- and middle-income countries	NA	NA	NA	NA	9	10	48	24	200	103	263	205	221	238	83	155	824	735	1,559
High-income countries	NA	NA	NA	NA	0	0	4	1	22	6	29	12	37	27	30	51	123	96	219
WORLD	NA	NA	NA	NA	9	10	52	25	222	108	292	217	259	265	113	206	947	831	1,777
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	70	52	221	129	565	358	622	568	408	488	100	179	1,987	1,774	3,761
Europe and Central Asia	NA	NA	NA	NA	25	7	290	62	905	292	980	688	572	821	104	336	2,877	2,207	5,083
Latin America and the Caribbean	NA	NA	NA	NA	16	7	86	36	275	140	241	167	140	125	40	53	798	527	1,325
Middle East and North Africa	NA	NA	NA	NA	22	11	67	28	196	120	153	125	93	101	16	23	548	407	955
South Asia	NA	NA	NA	NA	98	193	406	303	1,587	940	1,380	1,311	677	783	124	137	4,273	3,667	7,940
Sub-Saharan Africa	NA	NA	NA	NA	9	6	51	27	211	185	184	228	96	140	12	27	564	614	1,178
Low- and middle-income countries	NA	NA	NA	NA	242	275	1,122	586	3,739	2,035	3,560	3,087	1,986	2,458	396	755	11,046	9,196	20,242
High-income countries	NA	NA	NA	NA	8	2	104	26	415	110	385	180	325	267	130	208	1,367	793	2,160
WORLD	NA	NA	NA	NA	250	277	1,227	611	4,154	2,145	3,945	3,267	2,311	2,726	527	963	12,413	9,989	22,402
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	101	82	245	144	603	385	652	595	417	498	102	181	2,121	1,885	4,006
Europe and Central Asia	NA	NA	NA	NA	31	11	311	72	939	313	1,012	721	582	837	105	340	2,981	2,294	5,275
Latin America and the Caribbean	NA	NA	NA	NA	28	15	98	41	293	152	257	177	144	128	41	54	861	568	1,429
Middle East and North Africa	NA	NA	NA	NA	30	17	75	32	207	127	160	131	95	103	16	23	584	433	1,016
South Asia	NA	NA	NA	NA	145	230	462	347	1,684	1,013	1,453	1,381	694	800	127	139	4,565	3,911	8,476
Sub-Saharan Africa	NA	NA	NA	NA	16	8	57	32	225	198	193	241	98	142	12	28	601	649	1,250
Low- and middle-income countries	NA	NA	NA	NA	351	364	1,248	667	3,952	2,190	3,728	3,245	2,030	2,508	403	765	11,712	9,739	21,452
High-income countries	NA	NA	NA	NA	11	6	119	34	457	132	414	202	342	285	135	216	1,478	875	2,353
WORLD	NA	NA	NA	NA	363	370	1,367	701	4,409	2,322	4,142	3,447	2,373	2,793	538	981	13,191	10,614	23,805

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.45

Risk factor: Low fruit and vegetable intake
Disease: Cerebrovascular disease

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	6	6	6	6	7	7	8	9	8	9	7	7	8	8	8
Europe and Central Asia	NA	NA	NA	NA	10	11	10	11	11	12	12	14	11	12	8	9	11	11	11
Latin America and the Caribbean	NA	NA	NA	NA	11	12	11	10	12	13	13	14	11	12	9	9	11	11	11
Middle East and North Africa	NA	NA	NA	NA	9	9	7	8	8	10	8	9	7	9	6	6	7	8	7
South Asia	NA	NA	NA	NA	10	11	10	11	11	12	12	13	11	12	8	9	11	12	11
Sub-Saharan Africa	NA	NA	NA	NA	11	10	8	10	9	12	9	12	8	10	5	7	8	10	9
Low- and middle-income countries	NA	NA	NA	NA	9	10	8	9	9	10	10	12	9	10	8	8	9	10	10
High-income countries	NA	NA	NA	NA	9	9	8	9	9	8	8	8	7	7	6	6	7	6	6
WORLD	NA	NA	NA	NA	9	10	8	9	9	10	10	12	9	10	7	8	9	9	9
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	6	6	6	6	7	7	8	9	8	9	7	7	8	8	8
Europe and Central Asia	NA	NA	NA	NA	10	11	10	11	11	12	12	14	11	12	8	9	11	12	11
Latin America and the Caribbean	NA	NA	NA	NA	11	12	11	10	12	13	13	14	11	12	9	9	12	12	12
Middle East and North Africa	NA	NA	NA	NA	9	9	7	8	8	10	8	9	7	9	6	6	7	8	7
South Asia	NA	NA	NA	NA	10	11	10	11	11	12	12	13	11	12	8	9	11	12	11
Sub-Saharan Africa	NA	NA	NA	NA	11	10	8	10	9	12	9	12	8	10	5	7	8	11	10
Low- and middle-income countries	NA	NA	NA	NA	9	10	8	9	9	10	10	12	9	10	7	8	9	10	10
High-income countries	NA	NA	NA	NA	9	9	8	9	9	8	8	8	7	7	6	6	7	7	7
WORLD	NA	NA	NA	NA	9	10	8	9	9	10	10	12	9	10	7	8	9	10	9
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	6	6	8	8	9	9	10	11	9	10	7	8	9	10	9
Europe and Central Asia	NA	NA	NA	NA	10	11	12	14	12	14	14	15	11	12	9	10	12	13	12
Latin America and the Caribbean	NA	NA	NA	NA	11	12	14	13	15	15	15	16	12	12	9	9	14	13	13
Middle East and North Africa	NA	NA	NA	NA	9	9	9	10	10	12	9	10	8	9	6	6	8	9	8
South Asia	NA	NA	NA	NA	10	11	12	12	13	14	14	15	11	12	9	9	12	13	13
Sub-Saharan Africa	NA	NA	NA	NA	11	10	9	10	10	13	10	12	8	11	5	7	9	11	10
Low- and middle-income countries	NA	NA	NA	NA	9	10	10	11	11	12	12	13	10	11	8	9	11	11	11
High-income countries	NA	NA	NA	NA	9	9	11	12	11	11	10	10	8	8	6	6	9	8	9
WORLD	NA	NA	NA	NA	9	10	10	11	11	12	12	13	10	11	7	8	10	11	11
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	1	1	9	6	21	15	29	31	13	24	74	77	151
Europe and Central Asia	NA	NA	NA	NA	0	0	1	1	6	4	13	13	15	26	7	24	43	68	112
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	1	3	2	4	3	4	3	5	14	15	29	29
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	1	1	1	1	2	2	1	1	5	5	10
South Asia	NA	NA	NA	NA	0	0	1	1	9	6	17	17	17	20	6	9	50	53	104
Sub-Saharan Africa	NA	NA	NA	NA	0	0	1	1	3	4	3	6	3	7	1	3	12	21	33
Low- and middle-income countries	NA	NA	NA	NA	2	1	6	4	30	25	60	55	71	91	31	66	198	241	439
High-income countries	NA	NA	NA	NA	0	0	1	0	2	1	4	2	7	8	8	18	21	29	51
WORLD	NA	NA	NA	NA	2	1	6	4	32	26	63	57	78	98	39	83	220	270	489
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	9	5	33	22	173	128	280	219	258	317	66	123	819	815	1,634
Europe and Central Asia	NA	NA	NA	NA	8	5	31	20	113	84	181	192	139	265	30	115	503	681	1,184
Latin America and the Caribbean	NA	NA	NA	NA	5	5	18	16	50	48	48	46	38	44	14	21	172	179	352
Middle East and North Africa	NA	NA	NA	NA	6	3	4	4	13	15	15	18	14	20	3	6	57	64	121
South Asia	NA	NA	NA	NA	11	7	22	15	159	127	235	256	152	213	31	45	610	664	1,274
Sub-Saharan Africa	NA	NA	NA	NA	11	9	21	19	50	87	44	93	29	71	5	16	161	296	457
Low- and middle-income countries	NA	NA	NA	NA	50	33	130	97	557	489	805	824	630	931	150	326	2,321	2,700	5,021
High-income countries	NA	NA	NA	NA	2	2	12	9	41	26	47	36	61	75	34	72	198	220	418
WORLD	NA	NA	NA	NA	52	35	142	106	598	515	852	859	691	1,006	184	399	2,519	2,920	5,439
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	9	5	66	45	307	227	451	344	343	414	77	142	1,254	1,178	2,431
Europe and Central Asia	NA	NA	NA	NA	8	5	44	33	157	126	252	275	178	329	35	129	674	896	1,570
Latin America and the Caribbean	NA	NA	NA	NA	5	5	31	30	82	79	77	71	51	57	16	25	263	267	531
Middle East and North Africa	NA	NA	NA	NA	6	3	8	6	20	22	22	24	19	24	4	6	79	86	165
South Asia	NA	NA	NA	NA	11	7	33	22	227	178	326	344	188	256	35	51	818	858	1,677
Sub-Saharan Africa	NA	NA	NA	NA	11	9	24	23	59	107	53	112	33	80	6	18	186	348	534
Low- and middle-income countries	NA	NA	NA	NA	50	33	204	160	853	738	1,182	1,170	812	1,160	172	371	3,275	3,633	6,907
High-income countries	NA	NA	NA	NA	2	2	31	25	103	70	109	84	108	130	47	97	401	409	810
WORLD	NA	NA	NA	NA	53	35	236	185	956	808	1,291	1,255	920	1,290	219	468	3,676	4,042	7,718

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.46

Risk factor: Low fruit and vegetable intake
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	1	3	3	6	5	8	8	6	6	4	5	5	5	5
Europe and Central Asia	NA	NA	NA	NA	1	1	5	4	10	8	14	15	12	13	9	11	10	11	10
Latin America and the Caribbean	NA	NA	NA	NA	1	1	3	3	7	6	10	8	7	6	5	4	5	5	5
Middle East and North Africa	NA	NA	NA	NA	1	1	4	3	8	7	8	8	6	7	4	4	4	4	4
South Asia	NA	NA	NA	NA	1	1	3	3	9	8	12	12	9	9	6	6	5	5	5
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	3	3	5	7	4	6	2	4	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	1	1	2	2	7	6	10	10	8	8	5	6	5	5	5
High-income countries	NA	NA	NA	NA	1	1	3	2	6	4	6	5	5	4	3	3	5	4	4
WORLD	NA	NA	NA	NA	1	1	2	2	7	6	9	9	7	8	5	5	5	5	5
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	1	3	3	6	5	8	8	6	6	4	4	4	4	4
Europe and Central Asia	NA	NA	NA	NA	1	1	5	4	10	8	14	14	12	13	9	11	9	10	9
Latin America and the Caribbean	NA	NA	NA	NA	1	1	2	3	7	6	10	8	7	6	5	4	4	4	4
Middle East and North Africa	NA	NA	NA	NA	1	1	4	3	8	7	8	8	6	7	4	4	3	3	3
South Asia	NA	NA	NA	NA	1	1	3	3	9	8	12	12	9	9	6	6	4	3	4
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	3	3	5	6	4	6	2	4	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	1	1	2	2	7	6	10	10	8	8	5	6	3	3	3
High-income countries	NA	NA	NA	NA	0	1	3	2	6	4	6	5	5	4	3	3	5	4	4
WORLD	NA	NA	NA	NA	1	1	2	2	7	6	9	9	7	8	5	5	3	3	3
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	1	2	1	4	3	6	5	6	5	4	4	3	2	3
Europe and Central Asia	NA	NA	NA	NA	1	0	3	2	8	5	12	11	10	11	7	9	6	6	6
Latin America and the Caribbean	NA	NA	NA	NA	0	0	2	1	5	4	7	5	6	5	4	3	2	2	2
Middle East and North Africa	NA	NA	NA	NA	1	0	2	1	5	4	6	6	5	6	3	4	2	2	2
South Asia	NA	NA	NA	NA	1	1	2	2	7	5	10	9	8	8	5	5	3	2	3
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	2	3	4	5	4	5	2	3	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	0	0	2	1	5	4	8	7	7	7	5	5	2	2	2
High-income countries	NA	NA	NA	NA	0	0	2	1	4	2	5	3	4	3	3	3	3	2	3
WORLD	NA	NA	NA	NA	0	0	2	1	5	4	7	7	6	6	4	4	3	2	2
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	4	3	17	10	68	39	108	72	104	99	40	67	340	290	630
Europe and Central Asia	NA	NA	NA	NA	1	1	15	4	62	21	99	63	87	111	31	98	295	299	594
Latin America and the Caribbean	NA	NA	NA	NA	1	1	5	3	21	11	26	16	24	19	13	17	91	67	158
Middle East and North Africa	NA	NA	NA	NA	1	1	3	2	12	7	14	10	13	12	4	5	47	37	84
South Asia	NA	NA	NA	NA	4	7	20	14	101	58	131	109	99	98	33	36	389	322	712
Sub-Saharan Africa	NA	NA	NA	NA	1	1	4	2	16	16	19	23	15	22	4	8	59	71	130
Low- and middle-income countries	NA	NA	NA	NA	12	12	65	35	282	153	397	293	342	361	125	232	1,222	1,086	2,308
High-income countries	NA	NA	NA	NA	0	0	6	2	34	11	45	19	58	41	43	73	187	146	333
WORLD	NA	NA	NA	NA	13	13	71	38	315	163	442	313	399	402	168	305	1,408	1,233	2,641
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	102	71	405	256	1,276	783	1,448	1,078	927	1,013	199	340	4,355	3,542	7,897
Europe and Central Asia	NA	NA	NA	NA	36	15	356	103	1,179	428	1,339	948	786	1,138	140	457	3,836	3,089	6,925
Latin America and the Caribbean	NA	NA	NA	NA	26	15	125	67	399	227	356	248	213	191	61	80	1,179	829	2,008
Middle East and North Africa	NA	NA	NA	NA	31	15	78	38	226	146	182	149	116	126	21	29	654	504	1,158
South Asia	NA	NA	NA	NA	119	207	474	346	1,886	1,151	1,778	1,645	887	1,029	164	191	5,308	4,568	9,876
Sub-Saharan Africa	NA	NA	NA	NA	23	17	85	58	306	309	256	345	137	224	18	46	825	998	1,822
Low- and middle-income countries	NA	NA	NA	NA	336	341	1,523	868	5,272	3,043	5,359	4,414	3,065	3,720	602	1,143	16,157	13,529	29,686
High-income countries	NA	NA	NA	NA	12	6	146	56	625	211	605	291	509	413	190	301	2,088	1,278	3,366
WORLD	NA	NA	NA	NA	348	347	1,669	924	5,897	3,254	5,965	4,705	3,574	4,133	792	1,444	18,245	14,806	33,051
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	133	102	462	295	1,455	911	1,657	1,234	1,026	1,121	212	363	4,945	4,026	8,970
Europe and Central Asia	NA	NA	NA	NA	42	20	390	126	1,261	491	1,444	1,065	836	1,217	146	476	4,119	3,395	7,514
Latin America and the Caribbean	NA	NA	NA	NA	37	24	150	86	451	272	402	284	231	208	65	85	1,336	959	2,295
Middle East and North Africa	NA	NA	NA	NA	39	21	89	45	244	161	197	162	122	132	21	30	713	551	1,264
South Asia	NA	NA	NA	NA	166	245	540	397	2,052	1,276	1,943	1,803	941	1,090	171	199	5,812	5,008	10,820
Sub-Saharan Africa	NA	NA	NA	NA	29	19	93	65	330	341	274	376	143	235	19	47	888	1,085	1,973
Low- and middle-income countries	NA	NA	NA	NA	446	430	1,725	1,014	5,792	3,453	5,918	4,924	3,299	4,004	633	1,200	17,812	15,024	32,836
High-income countries	NA	NA	NA	NA	16	10	181	81	735	280	703	365	578	490	208	335	2,422	1,561	3,982
WORLD	NA	NA	NA	NA	462	440	1,906	1,095	6,527	3,732	6,620	5,289	3,878	4,493	841	1,535	20,234	16,584	36,819

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.47

Risk factor: Physical inactivity
Disease: Colon and rectal cancers

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	14	15	15	16	15	16	16	17	12	13	8	8	14	14	14
Europe and Central Asia	NA	NA	NA	NA	15	16	16	18	17	18	19	22	16	17	11	12	17	17	17
Latin America and the Caribbean	NA	NA	NA	NA	15	17	16	19	16	19	17	23	14	19	10	13	15	18	17
Middle East and North Africa	NA	NA	NA	NA	14	16	16	16	16	16	17	18	13	15	9	10	15	15	15
South Asia	NA	NA	NA	NA	14	15	15	16	15	16	17	17	13	14	8	10	14	14	14
Sub-Saharan Africa	NA	NA	NA	NA	13	14	14	15	15	15	16	16	12	12	8	8	13	13	13
Low- and middle-income countries	NA	NA	NA	NA	14	15	15	16	16	17	17	19	14	15	9	10	15	15	15
High-income countries	NA	NA	NA	NA	16	17	17	18	17	18	18	19	13	15	10	11	14	14	14
WORLD	NA	NA	NA	NA	14	15	16	16	16	17	17	19	14	15	10	10	14	15	15
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	14	15	15	16	15	16	16	17	12	13	8	8	15	15	15
Europe and Central Asia	NA	NA	NA	NA	15	16	16	18	17	18	19	22	16	17	11	12	17	18	18
Latin America and the Caribbean	NA	NA	NA	NA	15	17	16	19	16	19	17	23	14	19	10	13	16	19	18
Middle East and North Africa	NA	NA	NA	NA	14	16	16	16	16	16	17	18	13	15	9	10	15	16	16
South Asia	NA	NA	NA	NA	14	15	15	16	15	16	17	17	13	14	8	10	15	15	15
Sub-Saharan Africa	NA	NA	NA	NA	13	14	14	15	15	15	16	16	12	12	8	8	14	14	14
Low- and middle-income countries	NA	NA	NA	NA	14	15	15	16	16	17	17	19	14	15	9	10	15	16	16
High-income countries	NA	NA	NA	NA	16	17	17	18	17	18	18	19	13	15	10	11	15	16	16
WORLD	NA	NA	NA	NA	14	15	16	16	16	17	17	19	14	15	10	10	15	16	16
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	14	15	15	16	15	16	16	17	12	13	8	8	15	15	15
Europe and Central Asia	NA	NA	NA	NA	15	16	16	18	17	18	19	22	16	17	11	12	17	18	18
Latin America and the Caribbean	NA	NA	NA	NA	15	17	16	19	16	19	17	23	14	19	10	13	16	19	18
Middle East and North Africa	NA	NA	NA	NA	14	16	16	16	16	16	17	18	13	15	9	10	15	16	16
South Asia	NA	NA	NA	NA	14	15	15	16	15	16	17	17	13	14	8	10	15	15	15
Sub-Saharan Africa	NA	NA	NA	NA	13	14	14	15	15	15	16	16	12	12	8	8	14	14	14
Low- and middle-income countries	NA	NA	NA	NA	14	15	15	16	16	17	17	19	14	15	9	10	15	16	16
High-income countries	NA	NA	NA	NA	16	17	17	18	17	18	18	19	13	15	10	11	15	16	16
WORLD	NA	NA	NA	NA	14	15	16	17	16	17	17	19	14	15	10	10	15	16	16
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	1	1	3	3	4	3	3	3	1	1	12	11	22
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	1	1	3	3	3	3	1	1	8	8	16
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	1	1	1	1	1	1	0	1	3	3	6
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
South Asia	NA	NA	NA	NA	0	0	0	0	1	0	1	1	1	0	0	0	3	2	5
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3
Low- and middle-income countries	NA	NA	NA	NA	1	0	2	2	6	5	9	8	7	8	2	3	27	26	54
High-income countries	NA	NA	NA	NA	0	0	0	0	3	2	6	4	6	5	3	6	19	17	36
WORLD	NA	NA	NA	NA	1	0	3	2	9	8	15	12	13	13	5	9	46	44	90
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	7	3	25	25	56	50	52	48	24	26	4	6	168	159	326
Europe and Central Asia	NA	NA	NA	NA	1	1	7	7	26	25	40	41	24	33	3	5	101	112	213
Latin America and the Caribbean	NA	NA	NA	NA	1	1	4	6	10	13	10	14	7	10	2	3	34	47	81
Middle East and North Africa	NA	NA	NA	NA	1	1	3	3	4	3	3	3	2	2	0	0	13	11	24
South Asia	NA	NA	NA	NA	4	1	9	6	10	8	13	9	5	5	1	2	43	31	73
Sub-Saharan Africa	NA	NA	NA	NA	1	1	4	3	7	6	5	5	3	3	1	1	22	18	40
Low- and middle-income countries	NA	NA	NA	NA	15	7	54	50	113	106	123	120	64	78	10	18	380	378	758
High-income countries	NA	NA	NA	NA	1	1	12	10	58	45	75	56	55	55	15	25	216	192	408
WORLD	NA	NA	NA	NA	16	8	65	60	172	151	199	176	119	133	25	42	596	570	1,166
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	7	3	26	27	59	54	54	51	25	27	4	6	175	168	343
Europe and Central Asia	NA	NA	NA	NA	1	1	7	8	28	27	43	44	25	34	3	6	108	120	228
Latin America and the Caribbean	NA	NA	NA	NA	1	1	5	6	11	14	11	14	7	11	2	4	36	50	85
Middle East and North Africa	NA	NA	NA	NA	1	1	3	3	4	3	3	3	2	2	0	0	14	12	25
South Asia	NA	NA	NA	NA	4	1	9	6	11	9	13	10	5	5	1	2	43	32	75
Sub-Saharan Africa	NA	NA	NA	NA	1	1	4	3	7	6	6	5	3	3	1	1	22	19	41
Low- and middle-income countries	NA	NA	NA	NA	16	7	55	53	120	113	130	126	67	81	11	18	397	400	797
High-income countries	NA	NA	NA	NA	1	1	13	13	72	57	91	67	65	66	17	29	261	234	494
WORLD	NA	NA	NA	NA	17	9	68	66	192	170	221	194	132	148	28	47	658	633	1,291

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.48

Risk factor: Physical inactivity
Disease: Breast cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	8	NA	8	NA	10	NA	10	NA	8	NA	5	NA	9	9
Europe and Central Asia	NA	NA	NA	NA	NA	8	NA	9	NA	11	NA	13	NA	10	NA	7	NA	11	11
Latin America and the Caribbean	NA	NA	NA	NA	NA	9	NA	9	NA	12	NA	14	NA	11	NA	8	NA	11	11
Middle East and North Africa	NA	NA	NA	NA	NA	8	NA	9	NA	10	NA	11	NA	9	NA	6	NA	9	9
South Asia	NA	NA	NA	NA	NA	8	NA	8	NA	10	NA	10	NA	8	NA	6	NA	9	9
Sub-Saharan Africa	NA	NA	NA	NA	NA	8	NA	9	NA	9	NA	10	NA	8	NA	5	NA	9	9
Low- and middle-income countries	NA	NA	NA	NA	NA	8	NA	9	NA	10	NA	11	NA	9	NA	6	NA	10	10
High-income countries	NA	NA	NA	NA	NA	9	NA	10	NA	11	NA	12	NA	9	NA	7	NA	10	9
WORLD	NA	NA	NA	NA	NA	8	NA	9	NA	10	NA	11	NA	9	NA	6	NA	10	10
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	8	NA	8	NA	10	NA	10	NA	8	NA	5	NA	9	9
Europe and Central Asia	NA	NA	NA	NA	NA	8	NA	9	NA	11	NA	13	NA	10	NA	7	NA	11	11
Latin America and the Caribbean	NA	NA	NA	NA	NA	9	NA	9	NA	12	NA	14	NA	11	NA	8	NA	11	11
Middle East and North Africa	NA	NA	NA	NA	NA	8	NA	9	NA	10	NA	11	NA	9	NA	6	NA	10	10
South Asia	NA	NA	NA	NA	NA	8	NA	8	NA	10	NA	10	NA	8	NA	6	NA	9	9
Sub-Saharan Africa	NA	NA	NA	NA	NA	8	NA	9	NA	9	NA	10	NA	8	NA	5	NA	9	9
Low- and middle-income countries	NA	NA	NA	NA	NA	8	NA	9	NA	10	NA	11	NA	9	NA	6	NA	10	10
High-income countries	NA	NA	NA	NA	NA	9	NA	10	NA	11	NA	12	NA	9	NA	7	NA	10	10
WORLD	NA	NA	NA	NA	NA	8	NA	9	NA	10	NA	11	NA	9	NA	6	NA	10	10
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	8	NA	8	NA	10	NA	10	NA	8	NA	5	NA	9	9
Europe and Central Asia	NA	NA	NA	NA	NA	8	NA	9	NA	11	NA	13	NA	10	NA	7	NA	11	11
Latin America and the Caribbean	NA	NA	NA	NA	NA	9	NA	9	NA	12	NA	14	NA	11	NA	8	NA	11	11
Middle East and North Africa	NA	NA	NA	NA	NA	8	NA	9	NA	10	NA	11	NA	9	NA	6	NA	9	9
South Asia	NA	NA	NA	NA	NA	8	NA	8	NA	10	NA	10	NA	8	NA	6	NA	9	9
Sub-Saharan Africa	NA	NA	NA	NA	NA	8	NA	9	NA	9	NA	10	NA	8	NA	5	NA	9	9
Low- and middle-income countries	NA	NA	NA	NA	NA	8	NA	9	NA	10	NA	11	NA	9	NA	6	NA	10	10
High-income countries	NA	NA	NA	NA	NA	9	NA	10	NA	11	NA	12	NA	9	NA	7	NA	10	10
WORLD	NA	NA	NA	NA	NA	8	NA	9	NA	10	NA	11	NA	9	NA	6	NA	10	10
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	0	NA	1	NA	4	NA	2	NA	1	NA	0	NA	8	8
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	1	NA	2	NA	2	NA	2	NA	0	NA	7	7
Latin America and the Caribbean	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	1	NA	1	NA	0	NA	4	4
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	1	1
South Asia	NA	NA	NA	NA	NA	0	NA	1	NA	2	NA	2	NA	1	NA	1	NA	7	7
Sub-Saharan Africa	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	1	NA	1	NA	0	NA	3	3
Low- and middle-income countries	NA	NA	NA	NA	NA	0	NA	4	NA	11	NA	8	NA	5	NA	2	NA	30	30
High-income countries	NA	NA	NA	NA	NA	0	NA	1	NA	4	NA	4	NA	3	NA	3	NA	15	15
WORLD	NA	NA	NA	NA	NA	0	NA	5	NA	15	NA	12	NA	9	NA	4	NA	45	45
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	1	NA	33	NA	74	NA	30	NA	11	NA	2	NA	151	151
Europe and Central Asia	NA	NA	NA	NA	NA	1	NA	14	NA	42	NA	32	NA	16	NA	2	NA	107	107
Latin America and the Caribbean	NA	NA	NA	NA	NA	1	NA	12	NA	28	NA	16	NA	8	NA	2	NA	67	67
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	7	NA	11	NA	4	NA	2	NA	0	NA	24	24
South Asia	NA	NA	NA	NA	NA	1	NA	20	NA	44	NA	31	NA	11	NA	3	NA	111	111
Sub-Saharan Africa	NA	NA	NA	NA	NA	1	NA	9	NA	21	NA	13	NA	6	NA	1	NA	50	50
Low- and middle-income countries	NA	NA	NA	NA	NA	5	NA	93	NA	221	NA	127	NA	54	NA	10	NA	510	510
High-income countries	NA	NA	NA	NA	NA	1	NA	26	NA	82	NA	54	NA	35	NA	11	NA	209	209
WORLD	NA	NA	NA	NA	NA	5	NA	119	NA	303	NA	181	NA	88	NA	22	NA	719	719
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	1	NA	36	NA	78	NA	32	NA	11	NA	2	NA	160	160
Europe and Central Asia	NA	NA	NA	NA	NA	1	NA	15	NA	45	NA	34	NA	17	NA	3	NA	115	115
Latin America and the Caribbean	NA	NA	NA	NA	NA	1	NA	13	NA	30	NA	17	NA	8	NA	2	NA	72	72
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	7	NA	12	NA	4	NA	2	NA	0	NA	26	26
South Asia	NA	NA	NA	NA	NA	1	NA	21	NA	46	NA	33	NA	12	NA	3	NA	115	115
Sub-Saharan Africa	NA	NA	NA	NA	NA	1	NA	9	NA	22	NA	13	NA	6	NA	1	NA	52	52
Low- and middle-income countries	NA	NA	NA	NA	NA	5	NA	101	NA	233	NA	133	NA	57	NA	11	NA	540	540
High-income countries	NA	NA	NA	NA	NA	1	NA	36	NA	101	NA	63	NA	42	NA	13	NA	256	256
WORLD	NA	NA	NA	NA	NA	6	NA	138	NA	334	NA	196	NA	98	NA	24	NA	796	796

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.49

Risk factor: Physical inactivity
Disease: Diabetes mellitus

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	14	14	14	15	14	15	15	15	12	12	8	8	13	13	13
Europe and Central Asia	NA	NA	NA	NA	14	15	15	16	15	16	16	18	13	14	9	10	14	15	15
Latin America and the Caribbean	NA	NA	NA	NA	14	15	15	16	15	16	15	19	12	15	9	11	13	15	14
Middle East and North Africa	NA	NA	NA	NA	14	14	15	15	15	15	15	15	12	13	8	9	13	13	13
South Asia	NA	NA	NA	NA	14	14	14	14	14	14	15	15	11	12	7	8	12	13	13
Sub-Saharan Africa	NA	NA	NA	NA	14	14	15	15	15	15	15	16	12	12	8	8	13	14	13
Low- and middle-income countries	NA	NA	NA	NA	14	14	15	15	14	15	15	16	12	13	8	9	13	14	13
High-income countries	NA	NA	NA	NA	15	16	17	17	16	16	17	17	13	13	9	10	13	12	13
WORLD	NA	NA	NA	NA	14	14	15	15	15	15	15	16	12	13	8	9	13	13	13
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	14	14	14	15	14	15	15	15	12	12	8	8	14	14	14
Europe and Central Asia	NA	NA	NA	NA	14	15	15	16	15	16	16	18	13	14	9	10	15	15	15
Latin America and the Caribbean	NA	NA	NA	NA	14	15	15	16	15	16	15	19	12	15	9	11	14	16	15
Middle East and North Africa	NA	NA	NA	NA	14	14	15	15	15	15	15	15	12	13	8	9	14	14	14
South Asia	NA	NA	NA	NA	14	14	14	14	14	14	15	15	11	12	7	8	13	13	13
Sub-Saharan Africa	NA	NA	NA	NA	14	14	15	15	15	15	15	16	12	12	8	8	14	14	14
Low- and middle-income countries	NA	NA	NA	NA	14	14	15	15	14	15	15	16	12	13	8	9	14	14	14
High-income countries	NA	NA	NA	NA	15	16	17	17	16	16	17	17	13	13	9	10	15	14	14
WORLD	NA	NA	NA	NA	14	14	15	15	15	15	15	16	12	13	8	9	14	14	14
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	14	14	14	15	14	15	15	15	12	12	8	8	14	14	14
Europe and Central Asia	NA	NA	NA	NA	14	15	15	16	15	16	16	18	13	14	9	10	15	16	15
Latin America and the Caribbean	NA	NA	NA	NA	14	15	15	16	15	16	15	19	12	15	9	11	14	16	15
Middle East and North Africa	NA	NA	NA	NA	14	14	15	15	15	15	15	15	12	13	8	9	14	14	14
South Asia	NA	NA	NA	NA	14	14	14	14	14	14	15	15	11	12	7	8	13	13	13
Sub-Saharan Africa	NA	NA	NA	NA	14	14	15	15	15	15	15	16	12	12	8	8	14	14	14
Low- and middle-income countries	NA	NA	NA	NA	14	14	14	15	14	15	15	16	12	13	8	9	14	14	14
High-income countries	NA	NA	NA	NA	15	16	17	17	16	16	17	17	13	13	9	10	15	15	15
WORLD	NA	NA	NA	NA	14	14	15	15	15	15	16	16	12	13	8	9	14	14	14
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	1	1	3	3	4	6	4	6	1	2	13	18	30
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	1	1	1	2	1	2	0	0	3	5	8
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	0	2	3	3	4	2	4	1	2	9	14	24
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	1	1	1	1	0	0	2	2	4
South Asia	NA	NA	NA	NA	0	0	1	0	4	3	4	4	3	3	1	1	13	12	24
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	1	2	1	2	1	2	0	0	4	7	11
Low- and middle-income countries	NA	NA	NA	NA	1	1	3	2	11	11	14	20	11	17	4	6	44	57	101
High-income countries	NA	NA	NA	NA	0	0	1	0	2	1	3	2	4	5	2	5	12	14	26
WORLD	NA	NA	NA	NA	1	1	3	2	13	13	17	22	15	22	6	11	55	71	126
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	5	5	16	16	54	66	60	91	31	58	5	10	172	245	417
Europe and Central Asia	NA	NA	NA	NA	3	3	6	5	13	12	14	25	7	17	1	2	43	63	106
Latin America and the Caribbean	NA	NA	NA	NA	3	3	13	11	42	50	40	67	22	45	5	12	125	189	314
Middle East and North Africa	NA	NA	NA	NA	1	1	2	2	8	9	9	11	5	8	1	1	25	32	57
South Asia	NA	NA	NA	NA	12	8	17	9	67	54	52	64	27	33	6	5	181	173	353
Sub-Saharan Africa	NA	NA	NA	NA	3	4	9	9	20	36	16	37	8	19	1	3	58	107	165
Low- and middle-income countries	NA	NA	NA	NA	27	23	63	52	203	226	190	296	100	180	19	32	603	810	1,413
High-income countries	NA	NA	NA	NA	2	1	12	7	38	24	42	37	34	46	11	23	138	138	276
WORLD	NA	NA	NA	NA	29	25	75	59	241	250	233	332	134	226	29	55	741	947	1,689
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	16	15	56	58	101	121	78	114	37	68	6	11	294	386	680
Europe and Central Asia	NA	NA	NA	NA	5	5	16	18	27	34	23	40	10	25	1	4	82	127	209
Latin America and the Caribbean	NA	NA	NA	NA	5	5	23	25	57	79	47	85	25	54	5	14	162	263	425
Middle East and North Africa	NA	NA	NA	NA	4	5	12	15	16	20	12	15	6	10	1	2	52	66	118
South Asia	NA	NA	NA	NA	26	20	56	52	106	94	69	81	32	39	7	6	296	292	589
Sub-Saharan Africa	NA	NA	NA	NA	5	6	15	15	26	43	18	40	9	20	1	3	75	127	202
Low- and middle-income countries	NA	NA	NA	NA	62	56	178	182	334	392	247	376	120	215	22	39	962	1,261	2,223
High-income countries	NA	NA	NA	NA	7	4	50	38	111	94	77	80	49	72	14	31	308	319	628
WORLD	NA	NA	NA	NA	68	61	227	220	445	486	324	456	169	287	36	71	1,270	1,581	2,851

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.50

Risk factor: Physical inactivity
Disease: Ischemic heart disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	22	22	22	23	22	23	24	24	19	19	13	12	20	18	19
Europe and Central Asia	NA	NA	NA	NA	22	22	23	24	23	24	25	27	20	21	14	14	21	19	20
Latin America and the Caribbean	NA	NA	NA	NA	22	22	23	24	23	24	24	28	19	23	13	16	20	21	20
Middle East and North Africa	NA	NA	NA	NA	22	22	23	23	23	23	23	23	18	19	12	13	20	20	20
South Asia	NA	NA	NA	NA	22	22	22	22	22	22	23	23	17	18	12	13	19	19	19
Sub-Saharan Africa	NA	NA	NA	NA	22	22	23	24	23	24	24	24	18	19	12	13	20	20	20
Low- and middle-income countries	NA	NA	NA	NA	22	22	22	23	22	23	24	24	19	20	13	14	20	19	20
High-income countries	NA	NA	NA	NA	24	24	26	26	25	25	25	26	20	20	14	15	20	17	19
WORLD	NA	NA	NA	NA	22	22	23	23	23	23	24	24	19	20	13	14	20	19	19
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	22	22	22	23	22	23	24	24	19	19	13	12	21	20	21
Europe and Central Asia	NA	NA	NA	NA	22	22	23	24	23	24	25	27	20	21	14	14	22	21	22
Latin America and the Caribbean	NA	NA	NA	NA	22	22	23	24	23	24	24	28	19	23	13	16	21	23	22
Middle East and North Africa	NA	NA	NA	NA	22	22	23	23	23	23	23	23	18	19	12	13	21	21	21
South Asia	NA	NA	NA	NA	22	22	22	22	22	22	23	23	17	18	12	13	21	21	21
Sub-Saharan Africa	NA	NA	NA	NA	22	22	23	24	23	24	24	24	18	19	12	13	21	21	21
Low- and middle-income countries	NA	NA	NA	NA	22	22	22	23	22	23	24	24	19	20	13	14	21	21	21
High-income countries	NA	NA	NA	NA	24	24	26	26	25	25	25	26	20	20	14	15	22	20	21
WORLD	NA	NA	NA	NA	22	22	23	23	23	23	24	24	19	20	13	14	21	21	21
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	22	22	22	23	22	23	24	24	19	19	13	12	21	20	21
Europe and Central Asia	NA	NA	NA	NA	22	22	23	24	23	24	25	27	20	21	14	14	22	21	22
Latin America and the Caribbean	NA	NA	NA	NA	22	22	23	24	23	24	24	28	19	23	13	16	21	23	22
Middle East and North Africa	NA	NA	NA	NA	22	22	23	23	23	23	23	23	18	19	12	13	21	21	21
South Asia	NA	NA	NA	NA	22	22	22	22	22	22	23	23	17	18	12	13	21	21	21
Sub-Saharan Africa	NA	NA	NA	NA	22	22	23	24	23	24	24	24	18	19	12	13	21	21	21
Low- and middle-income countries	NA	NA	NA	NA	22	22	22	23	22	23	24	24	19	20	13	14	21	21	21
High-income countries	NA	NA	NA	NA	24	24	26	26	25	25	25	26	20	20	14	15	22	20	21
WORLD	NA	NA	NA	NA	22	22	23	23	23	23	24	24	19	20	13	14	21	21	21
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	2	1	7	4	23	13	35	27	35	34	14	23	116	102	218
Europe and Central Asia	NA	NA	NA	NA	1	0	8	2	35	10	56	34	53	66	18	54	172	166	338
Latin America and the Caribbean	NA	NA	NA	NA	0	0	2	1	9	4	11	8	11	10	6	9	40	33	73
Middle East and North Africa	NA	NA	NA	NA	1	0	2	1	9	4	12	7	10	9	3	4	37	26	64
South Asia	NA	NA	NA	NA	2	4	11	7	54	28	66	53	51	49	16	16	200	157	356
Sub-Saharan Africa	NA	NA	NA	NA	0	0	2	1	9	6	12	11	11	10	3	4	36	33	69
Low- and middle-income countries	NA	NA	NA	NA	6	6	32	15	139	66	193	141	172	178	59	111	601	517	1,118
High-income countries	NA	NA	NA	NA	0	0	4	1	22	6	33	14	46	32	35	60	140	113	253
WORLD	NA	NA	NA	NA	6	6	36	16	161	72	226	154	218	211	94	171	741	630	1,371
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	49	34	163	92	433	261	471	399	315	349	68	115	1,499	1,249	2,749
Europe and Central Asia	NA	NA	NA	NA	18	4	199	42	664	208	762	516	481	671	83	250	2,206	1,691	3,897
Latin America and the Caribbean	NA	NA	NA	NA	9	4	50	23	166	87	154	123	99	103	27	43	505	383	889
Middle East and North Africa	NA	NA	NA	NA	15	8	57	22	174	87	155	112	93	94	16	23	511	346	857
South Asia	NA	NA	NA	NA	59	111	256	179	999	549	899	799	458	512	76	85	2,746	2,235	4,981
Sub-Saharan Africa	NA	NA	NA	NA	5	3	39	19	166	120	165	169	95	108	14	22	484	441	925
Low- and middle-income countries	NA	NA	NA	NA	155	164	764	377	2,601	1,312	2,607	2,117	1,541	1,837	283	538	7,952	6,346	14,298
High-income countries	NA	NA	NA	NA	6	2	95	23	414	113	444	204	400	323	151	246	1,511	911	2,422
WORLD	NA	NA	NA	NA	161	166	859	400	3,016	1,425	3,051	2,321	1,942	2,160	435	784	9,464	7,256	16,720
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	71	54	181	102	463	281	494	419	322	355	69	116	1,599	1,326	2,926
Europe and Central Asia	NA	NA	NA	NA	22	7	213	48	689	223	787	540	489	684	84	253	2,284	1,755	4,040
Latin America and the Caribbean	NA	NA	NA	NA	16	8	57	27	177	95	164	130	102	106	27	44	543	411	954
Middle East and North Africa	NA	NA	NA	NA	20	12	64	25	184	93	163	117	95	96	16	23	542	366	908
South Asia	NA	NA	NA	NA	87	132	291	205	1,059	592	946	841	470	524	78	86	2,931	2,380	5,312
Sub-Saharan Africa	NA	NA	NA	NA	9	5	43	22	177	128	173	178	98	110	14	22	514	465	979
Low- and middle-income countries	NA	NA	NA	NA	225	219	849	429	2,749	1,412	2,728	2,225	1,575	1,874	288	545	8,413	6,704	15,117
High-income countries	NA	NA	NA	NA	9	5	109	31	457	136	478	229	421	344	157	256	1,630	999	2,629
WORLD	NA	NA	NA	NA	234	223	958	460	3,205	1,547	3,206	2,454	1,996	2,218	444	801	10,043	7,704	17,747

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.51

Risk factor
Disease: Physical inactivity
Cerebrovascular disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	3	3	3	3	4	4	5	5	4	5	3	3	4	4	4
Europe and Central Asia	NA	NA	NA	NA	5	6	6	7	7	8	9	10	8	9	6	6	7	8	8
Latin America and the Caribbean	NA	NA	NA	NA	5	5	5	6	6	8	7	10	7	9	5	7	6	8	7
Middle East and North Africa	NA	NA	NA	NA	4	5	5	5	6	6	7	7	6	7	5	5	6	6	6
South Asia	NA	NA	NA	NA	4	5	5	5	6	6	7	7	6	6	4	5	6	6	6
Sub-Saharan Africa	NA	NA	NA	NA	4	4	4	4	5	5	6	6	5	5	4	4	5	5	5
Low- and middle-income countries	NA	NA	NA	NA	4	4	4	5	5	5	6	7	6	6	4	5	5	6	6
High-income countries	NA	NA	NA	NA	5	6	6	6	7	7	8	8	6	7	5	6	6	6	6
WORLD	NA	NA	NA	NA	4	5	4	5	5	6	6	7	6	6	4	5	5	6	6
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	3	3	3	3	4	4	5	5	4	5	3	3	4	4	4
Europe and Central Asia	NA	NA	NA	NA	5	6	6	7	7	8	9	10	8	9	6	6	8	8	8
Latin America and the Caribbean	NA	NA	NA	NA	5	5	5	6	6	8	7	10	7	9	5	7	6	8	7
Middle East and North Africa	NA	NA	NA	NA	4	5	5	5	6	6	7	7	6	7	5	5	5	6	6
South Asia	NA	NA	NA	NA	4	5	5	5	6	6	7	7	6	6	4	5	6	6	6
Sub-Saharan Africa	NA	NA	NA	NA	4	4	4	4	5	5	6	6	5	5	4	4	5	5	5
Low- and middle-income countries	NA	NA	NA	NA	4	4	4	5	5	5	6	7	6	6	4	5	5	6	6
High-income countries	NA	NA	NA	NA	5	6	6	6	7	7	8	8	6	7	5	6	6	7	6
WORLD	NA	NA	NA	NA	4	5	4	5	5	6	6	7	6	6	4	5	5	6	6
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	3	3	4	5	5	5	6	6	5	5	3	3	5	5	5
Europe and Central Asia	NA	NA	NA	NA	5	6	6	8	8	9	10	11	8	9	6	6	8	9	9
Latin America and the Caribbean	NA	NA	NA	NA	5	5	6	8	7	9	8	12	7	10	5	7	7	9	8
Middle East and North Africa	NA	NA	NA	NA	4	5	6	6	7	7	8	8	7	7	5	5	6	7	6
South Asia	NA	NA	NA	NA	4	5	6	6	6	7	7	8	6	7	4	5	6	7	7
Sub-Saharan Africa	NA	NA	NA	NA	4	4	5	5	5	5	7	7	6	6	4	4	5	6	6
Low- and middle-income countries	NA	NA	NA	NA	4	4	5	6	6	6	7	8	6	7	4	5	6	7	6
High-income countries	NA	NA	NA	NA	5	6	8	8	9	9	9	10	7	8	5	6	8	8	8
WORLD	NA	NA	NA	NA	4	5	6	6	6	7	7	8	6	7	5	5	6	7	7
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	1	0	5	4	12	8	15	16	6	11	40	39	79
Europe and Central Asia	NA	NA	NA	NA	0	0	1	0	4	3	9	9	11	19	5	17	30	48	79
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	1	1	2	2	3	3	2	4	8	11	19
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	1	0	1	1	1	2	1	1	4	4	8
South Asia	NA	NA	NA	NA	0	0	0	0	4	3	9	9	9	11	3	4	26	28	54
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	1	2	2	3	2	4	1	2	7	11	18
Low- and middle-income countries	NA	NA	NA	NA	1	1	3	2	17	13	36	32	42	55	17	38	116	141	256
High-income countries	NA	NA	NA	NA	0	0	0	0	2	1	3	2	6	7	7	17	19	28	47
WORLD	NA	NA	NA	NA	1	1	3	2	18	14	39	35	49	62	24	55	135	169	303
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	4	2	19	12	100	73	161	121	136	160	31	55	451	424	875
Europe and Central Asia	NA	NA	NA	NA	4	3	17	12	70	53	128	138	103	198	22	78	344	480	824
Latin America and the Caribbean	NA	NA	NA	NA	2	2	8	10	24	28	26	34	23	35	8	17	91	126	217
Middle East and North Africa	NA	NA	NA	NA	3	1	3	2	9	9	13	14	12	16	3	5	44	48	92
South Asia	NA	NA	NA	NA	5	3	11	7	79	59	127	132	81	115	15	24	318	341	658
Sub-Saharan Africa	NA	NA	NA	NA	4	3	11	9	27	37	29	49	21	38	4	9	97	145	242
Low- and middle-income countries	NA	NA	NA	NA	23	15	68	52	309	258	485	488	376	562	83	188	1,344	1,563	2,908
High-income countries	NA	NA	NA	NA	1	1	8	7	32	22	44	35	56	71	31	70	172	206	378
WORLD	NA	NA	NA	NA	24	17	77	59	341	279	529	523	432	633	113	258	1,517	1,769	3,286
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	4	2	37	25	177	128	260	190	182	209	36	64	696	619	1,315
Europe and Central Asia	NA	NA	NA	NA	4	3	24	19	97	78	178	197	133	245	25	87	460	630	1,090
Latin America and the Caribbean	NA	NA	NA	NA	2	2	14	19	40	46	42	53	31	46	9	20	138	186	324
Middle East and North Africa	NA	NA	NA	NA	3	1	5	4	15	13	20	19	15	19	3	5	61	63	124
South Asia	NA	NA	NA	NA	5	3	16	10	113	83	176	178	101	139	17	27	426	439	866
Sub-Saharan Africa	NA	NA	NA	NA	4	3	13	10	32	45	35	59	23	43	5	10	112	170	282
Low- and middle-income countries	NA	NA	NA	NA	23	15	108	88	474	394	711	696	484	700	95	214	1,895	2,107	4,001
High-income countries	NA	NA	NA	NA	1	1	22	18	80	58	102	83	98	125	42	94	346	379	725
WORLD	NA	NA	NA	NA	24	17	130	106	555	452	813	779	583	824	137	308	2,241	2,485	4,726

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.52

Risk factor: Physical inactivity
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	1	2	2	3	4	4	5	4	4	2	3	3	3	3
Europe and Central Asia	NA	NA	NA	NA	1	1	3	3	7	7	10	12	9	11	7	8	7	9	8
Latin America and the Caribbean	NA	NA	NA	NA	0	1	2	2	4	6	6	8	5	7	3	4	3	5	4
Middle East and North Africa	NA	NA	NA	NA	1	1	3	3	7	6	8	8	6	7	4	4	4	4	4
South Asia	NA	NA	NA	NA	1	1	2	2	6	5	7	8	6	6	4	4	3	3	3
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	2	2	4	5	4	4	2	3	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	0	0	1	1	4	4	6	7	5	6	4	4	3	3	3
High-income countries	NA	NA	NA	NA	0	1	3	3	6	5	6	6	5	6	4	4	5	5	5
WORLD	NA	NA	NA	NA	0	0	2	1	4	4	6	7	5	6	4	4	3	4	3
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	1	1	2	3	3	4	5	4	4	2	2	2	2	2
Europe and Central Asia	NA	NA	NA	NA	1	1	3	3	7	7	10	11	9	11	7	8	6	8	7
Latin America and the Caribbean	NA	NA	NA	NA	0	1	1	2	4	6	6	8	5	7	3	4	2	4	3
Middle East and North Africa	NA	NA	NA	NA	1	1	3	3	6	6	8	8	6	7	4	4	3	3	3
South Asia	NA	NA	NA	NA	1	1	2	2	5	5	7	8	6	6	4	4	2	2	2
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	2	2	4	5	4	4	2	3	0	1	1
Low- and middle-income countries	NA	NA	NA	NA	0	0	1	1	4	4	6	7	5	6	3	4	2	2	2
High-income countries	NA	NA	NA	NA	0	1	3	3	6	5	6	6	5	6	4	4	5	5	5
WORLD	NA	NA	NA	NA	0	0	2	1	4	4	6	7	5	6	4	4	2	2	2
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	1	1	2	2	3	4	3	3	2	2	2	2	2
Europe and Central Asia	NA	NA	NA	NA	0	0	2	2	6	4	9	9	8	9	6	7	5	5	5
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	1	3	4	5	6	4	5	3	3	2	2	2
Middle East and North Africa	NA	NA	NA	NA	1	0	2	1	4	3	6	5	5	5	3	4	2	2	2
South Asia	NA	NA	NA	NA	0	1	1	1	4	3	6	6	5	5	3	3	2	2	2
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	2	2	3	4	3	4	2	2	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	1	1	3	3	5	5	5	5	3	3	2	2	2
High-income countries	NA	NA	NA	NA	0	0	2	2	4	3	5	5	4	4	3	3	3	3	3
WORLD	NA	NA	NA	NA	0	0	1	1	3	3	5	5	5	5	3	3	2	2	2
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	2	2	9	7	34	26	55	46	57	59	22	37	180	177	357
Europe and Central Asia	NA	NA	NA	NA	1	0	10	3	41	17	70	50	68	91	24	73	213	235	448
Latin America and the Caribbean	NA	NA	NA	NA	1	0	3	3	13	10	17	17	17	20	9	16	60	66	125
Middle East and North Africa	NA	NA	NA	NA	1	0	3	1	10	6	13	10	12	12	4	5	44	35	78
South Asia	NA	NA	NA	NA	3	4	12	9	62	36	81	69	64	65	20	22	242	205	446
Sub-Saharan Africa	NA	NA	NA	NA	0	0	3	2	12	11	16	18	14	17	4	6	49	55	104
Low- and middle-income countries	NA	NA	NA	NA	8	8	40	26	172	107	252	209	232	263	82	160	787	772	1,559
High-income countries	NA	NA	NA	NA	0	0	5	3	29	14	45	26	62	53	47	90	190	186	376
WORLD	NA	NA	NA	NA	8	8	46	28	201	121	297	235	294	316	130	250	977	958	1,935
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	65	45	223	178	643	524	744	690	506	604	108	188	2,290	2,228	4,518
Europe and Central Asia	NA	NA	NA	NA	26	11	229	79	772	339	944	751	615	934	108	338	2,694	2,453	5,147
Latin America and the Caribbean	NA	NA	NA	NA	16	11	76	63	241	206	231	254	151	201	41	77	755	812	1,568
Middle East and North Africa	NA	NA	NA	NA	20	11	66	37	195	120	180	144	111	121	20	30	592	462	1,054
South Asia	NA	NA	NA	NA	79	124	293	220	1,155	715	1,091	1,036	572	676	98	118	3,287	2,890	6,177
Sub-Saharan Africa	NA	NA	NA	NA	14	12	63	48	220	220	216	273	127	174	20	35	660	762	1,423
Low- and middle-income countries	NA	NA	NA	NA	220	214	950	624	3,227	2,124	3,406	3,148	2,082	2,711	394	786	10,279	9,607	19,887
High-income countries	NA	NA	NA	NA	11	6	127	73	542	286	606	385	545	530	207	375	2,038	1,655	3,693
WORLD	NA	NA	NA	NA	231	220	1,077	697	3,769	2,409	4,012	3,534	2,627	3,241	602	1,161	12,318	11,262	23,580
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	98	75	300	247	799	662	887	805	566	670	115	200	2,765	2,659	5,424
Europe and Central Asia	NA	NA	NA	NA	32	17	260	109	842	408	1,029	855	657	1,005	113	353	2,935	2,747	5,681
Latin America and the Caribbean	NA	NA	NA	NA	24	18	98	91	284	264	264	300	165	225	44	84	879	980	1,860
Middle East and North Africa	NA	NA	NA	NA	28	20	84	54	219	142	198	159	118	128	21	31	668	534	1,202
South Asia	NA	NA	NA	NA	122	158	372	293	1,289	824	1,204	1,142	608	718	103	124	3,697	3,259	6,956
Sub-Saharan Africa	NA	NA	NA	NA	20	15	75	59	243	245	233	296	133	182	21	36	723	833	1,556
Low- and middle-income countries	NA	NA	NA	NA	325	303	1,189	853	3,676	2,544	3,815	3,556	2,247	2,928	415	828	11,667	11,012	22,679
High-income countries	NA	NA	NA	NA	18	12	193	137	721	445	748	521	634	648	230	424	2,545	2,187	4,732
WORLD	NA	NA	NA	NA	343	315	1,383	990	4,397	2,989	4,564	4,078	2,881	3,576	645	1,251	14,212	13,199	27,411

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.53

Risk factor: Unsafe sex
Disease: Sexually transmitted diseases excluding HIV/AIDS

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of YLL (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of DALYs (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Attributable Mortality (thousands)																			
East Asia and Pacific	1	0	0	0	0	0	0	1	1	2	1	1	1	1	1	0	4	4	9
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Latin America and the Caribbean	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Middle East and North Africa	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	2	2	4
South Asia	12	25	0	0	0	0	1	1	7	6	6	4	5	2	2	1	33	38	71
Sub-Saharan Africa	17	12	0	0	1	12	10	8	17	6	3	2	0	1	0	0	48	42	90
Low- and middle-income countries	31	37	0	0	2	13	11	10	26	14	10	7	6	4	3	1	89	87	176
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
WORLD	31	37	0	0	2	13	11	10	26	14	10	7	6	4	3	1	89	88	176
Attributable YLL (thousands)																			
East Asia and Pacific	29	12	0	0	2	2	3	17	18	32	11	12	7	6	3	1	73	81	154
Europe and Central Asia	6	5	0	0	0	1	1	1	1	1	0	0	0	1	0	0	8	9	17
Latin America and the Caribbean	20	5	0	0	1	4	1	4	0	3	0	1	0	1	0	0	24	17	41
Middle East and North Africa	0	2	0	0	2	6	6	6	17	11	7	9	3	3	1	0	35	37	72
South Asia	349	759	0	0	2	3	14	24	128	119	89	52	43	19	12	4	637	981	1,618
Sub-Saharan Africa	525	355	0	0	38	341	229	202	335	128	38	32	0	17	0	0	1,166	1,076	2,241
Low- and middle-income countries	929	1,138	0	1	45	356	254	255	499	293	145	106	55	47	16	5	1,942	2,202	4,143
High-income countries	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1	2	5	7
WORLD	929	1,138	0	1	45	356	254	256	500	294	145	106	55	49	16	6	1,943	2,207	4,150
Attributable DALYs (thousands)																			
East Asia and Pacific	78	58	2	9	86	360	46	115	19	34	11	12	7	6	3	1	252	596	848
Europe and Central Asia	8	8	0	2	20	111	13	34	1	2	0	0	0	1	0	0	43	158	200
Latin America and the Caribbean	44	27	1	5	49	205	28	64	1	4	0	1	0	1	0	0	123	306	430
Middle East and North Africa	16	17	1	5	33	161	19	39	17	11	7	9	3	3	1	0	97	245	342
South Asia	581	978	8	26	276	904	146	276	131	124	89	53	43	19	12	4	1,286	2,383	3,669
Sub-Saharan Africa	775	602	6	21	238	1,001	285	359	336	130	38	32	0	17	0	0	1,680	2,163	3,842
Low- and middle-income countries	1,502	1,691	19	69	702	2,741	537	886	504	304	145	107	55	47	16	5	3,481	5,851	9,332
High-income countries	7	6	0	2	9	79	9	27	1	2	0	1	0	1	0	1	26	119	145
WORLD	1,509	1,697	19	71	711	2,820	546	913	505	306	146	108	55	49	16	6	3,507	5,970	9,477

Source: Authors' calculations.

Table 4A.54

Risk factor: Unsafe sex
Disease: HIV/AIDS

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	66	66	65	66	66	67	66	66	67	66	67	0	66	0	52	0	66	60	65
Europe and Central Asia	27	30	54	59	28	29	28	29	27	28	28	28	27	27	29	59	28	30	28
Latin America and the Caribbean	90	90	90	90	89	90	89	89	89	89	89	89	89	89	88	88	89	89	89
Middle East and North Africa	94	94	95	90	94	95	95	95	94	95	94	96	95	96	97	97	94	95	94
South Asia	80	80	80	79	79	79	79	79	79	79	79	85	79	85	85	85	79	79	79
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	98	98	99	99	93	98	92	97	91	96	94	90	94	87	95	37	93	97	95
High-income countries	62	60	70	66	63	65	67	68	69	70	67	68	68	67	69	68	67	68	67
WORLD	98	98	99	99	93	98	92	97	91	96	93	89	92	87	90	43	93	97	95
PAF of YLL (%)																			
East Asia and Pacific	66	66	65	66	66	67	66	66	67	66	67	0	66	0	52	0	66	63	65
Europe and Central Asia	27	30	54	59	28	29	28	29	27	28	28	28	27	27	29	59	28	30	28
Latin America and the Caribbean	90	90	90	90	89	90	89	89	89	89	89	89	89	89	88	88	89	89	89
Middle East and North Africa	94	94	95	90	94	95	95	95	94	95	94	96	95	96	97	97	94	95	94
South Asia	80	80	80	79	79	79	79	79	79	79	79	85	79	85	85	85	79	79	79
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	98	98	99	99	93	98	92	97	91	96	94	90	94	88	94	36	93	98	95
High-income countries	62	60	70	66	63	65	67	68	69	70	67	68	68	67	69	68	67	68	67
WORLD	98	98	99	99	93	98	92	97	91	96	93	89	92	87	89	41	93	97	95
PAF of DALYs (%)																			
East Asia and Pacific	66	66	65	66	66	67	66	66	67	66	67	0	66	0	52	0	66	63	66
Europe and Central Asia	27	30	54	59	28	29	28	29	27	28	28	28	27	27	29	59	28	30	28
Latin America and the Caribbean	90	90	90	90	89	90	89	89	89	89	89	89	89	89	88	88	89	89	89
Middle East and North Africa	94	94	95	90	94	95	95	95	94	95	94	96	95	96	97	97	94	95	94
South Asia	80	80	80	79	79	79	79	79	79	79	79	85	79	85	85	85	79	79	79
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	98	98	98	99	91	97	91	97	91	96	94	90	93	88	94	39	93	97	95
High-income countries	62	60	70	66	63	65	67	68	69	70	67	68	68	67	69	68	67	67	67
WORLD	98	98	98	99	91	97	91	97	90	96	93	89	91	87	88	44	92	97	95
Attributable Mortality (thousands)																			
East Asia and Pacific	2	2	0	0	10	3	28	6	11	5	1	0	0	0	0	0	52	16	68
Europe and Central Asia	0	0	0	0	1	0	4	0	2	0	0	0	0	0	0	0	7	1	8
Latin America and the Caribbean	3	3	1	1	10	8	24	11	8	3	1	0	0	0	0	0	48	26	74
Middle East and North Africa	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	1	3
South Asia	6	6	1	1	33	15	90	20	33	6	3	0	0	0	0	0	166	49	214
Sub-Saharan Africa	159	153	48	47	185	349	440	374	148	108	23	17	3	4	0	0	1,006	1,051	2,057
Low- and middle-income countries	170	163	51	50	240	376	587	411	201	123	27	17	4	4	0	0	1,281	1,145	2,425
High-income countries	0	0	0	0	1	0	6	2	4	1	1	0	0	0	0	0	11	3	15
WORLD	170	163	51	50	240	377	594	413	205	123	28	18	4	4	0	0	1,292	1,148	2,440
Attributable YLL (thousands)																			
East Asia and Pacific	60	47	7	6	269	86	689	148	213	110	12	0	1	0	0	0	1,251	396	1,647
Europe and Central Asia	2	2	3	3	35	10	89	11	30	4	2	0	0	0	0	0	161	30	190
Latin America and the Caribbean	80	78	36	35	276	223	592	282	163	62	13	4	2	1	0	0	1,162	685	1,847
Middle East and North Africa	8	8	1	1	14	12	21	11	6	3	0	0	0	0	0	0	50	35	85
South Asia	177	169	42	40	882	425	2,181	493	649	133	37	8	4	1	0	0	3,972	1,267	5,239
Sub-Saharan Africa	4,816	4,672	1,420	1,395	4,989	9,577	10,702	9,414	2,903	2,237	317	260	29	41	0	0	25,176	27,596	52,771
Low- and middle-income countries	5,144	4,976	1,510	1,480	6,464	10,332	14,272	10,358	3,963	2,548	383	272	36	42	1	0	31,772	30,008	61,780
High-income countries	1	1	1	1	19	10	147	50	73	18	8	2	2	1	0	0	250	82	332
WORLD	5,144	4,976	1,510	1,481	6,483	10,343	14,419	10,407	4,036	2,566	391	274	37	43	1	0	32,022	30,090	62,112
Attributable DALYs (thousands)																			
East Asia and Pacific	62	48	8	7	437	141	799	171	225	113	14	0	1	0	0	0	1,546	480	2,026
Europe and Central Asia	2	2	4	3	70	26	112	17	33	5	3	0	0	0	0	0	223	53	277
Latin America and the Caribbean	82	80	37	36	385	268	653	300	172	64	14	5	2	1	0	0	1,345	753	2,099
Middle East and North Africa	9	8	1	1	20	15	23	12	7	3	0	0	0	0	0	0	60	39	99
South Asia	181	173	45	43	1,117	568	2,322	544	663	138	39	8	5	1	0	0	4,371	1,475	5,846
Sub-Saharan Africa	4,894	4,748	1,451	1,431	6,041	11,057	11,257	9,961	2,994	2,298	325	266	29	41	0	0	26,992	29,803	56,795
Low- and middle-income countries	5,229	5,059	1,546	1,521	8,070	12,075	15,165	11,006	4,093	2,621	396	280	37	43	1	0	34,537	32,604	67,141
High-income countries	1	1	1	1	53	21	192	59	82	19	9	2	2	1	0	0	341	104	445
WORLD	5,230	5,060	1,547	1,522	8,123	12,095	15,357	11,065	4,176	2,641	406	282	39	43	1	0	34,878	32,708	67,586

Source: Authors' calculations.

Table 4A.55

Risk factor: Unsafe sex
Disease: Cervix uteri cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Europe and Central Asia	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Latin America and the Caribbean	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Middle East and North Africa	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
South Asia	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Sub-Saharan Africa	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Low- and middle-income countries	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
High-income countries	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
WORLD	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
PAF of YLL (%)																			
East Asia and Pacific	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Europe and Central Asia	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Latin America and the Caribbean	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Middle East and North Africa	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
South Asia	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Sub-Saharan Africa	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Low- and middle-income countries	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
High-income countries	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
WORLD	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
PAF of DALYs (%)																			
East Asia and Pacific	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Europe and Central Asia	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Latin America and the Caribbean	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Middle East and North Africa	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
South Asia	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Sub-Saharan Africa	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Low- and middle-income countries	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
High-income countries	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
WORLD	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	NA	100	100
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	0	NA	0	NA	2	NA	3	NA	14	NA	13	NA	11	NA	4	NA	47	47
Europe and Central Asia	NA	0	NA	0	NA	0	NA	3	NA	6	NA	4	NA	4	NA	2	NA	19	19
Latin America and the Caribbean	NA	0	NA	0	NA	1	NA	4	NA	9	NA	5	NA	5	NA	2	NA	26	26
Middle East and North Africa	NA	0	NA	0	NA	0	NA	1	NA	2	NA	1	NA	1	NA	0	NA	5	5
South Asia	NA	0	NA	0	NA	6	NA	5	NA	26	NA	26	NA	14	NA	7	NA	83	83
Sub-Saharan Africa	NA	0	NA	0	NA	1	NA	2	NA	12	NA	10	NA	9	NA	2	NA	38	38
Low- and middle-income countries	NA	0	NA	0	NA	11	NA	19	NA	68	NA	59	NA	44	NA	17	NA	218	218
High-income countries	NA	0	NA	0	NA	0	NA	3	NA	5	NA	3	NA	3	NA	3	NA	17	17
WORLD	NA	0	NA	0	NA	11	NA	22	NA	73	NA	62	NA	47	NA	20	NA	235	235
Attributable YLL (thousands)																			
East Asia and Pacific	NA	0	NA	0	NA	53	NA	82	NA	287	NA	189	NA	117	NA	22	NA	750	750
Europe and Central Asia	NA	0	NA	0	NA	11	NA	79	NA	117	NA	61	NA	45	NA	8	NA	321	321
Latin America and the Caribbean	NA	0	NA	0	NA	27	NA	109	NA	177	NA	80	NA	48	NA	12	NA	454	454
Middle East and North Africa	NA	0	NA	0	NA	10	NA	12	NA	36	NA	18	NA	8	NA	1	NA	86	86
South Asia	NA	0	NA	0	NA	159	NA	123	NA	519	NA	389	NA	145	NA	39	NA	1,375	1,375
Sub-Saharan Africa	NA	0	NA	0	NA	37	NA	62	NA	239	NA	158	NA	96	NA	14	NA	606	606
Low- and middle-income countries	NA	0	NA	1	NA	298	NA	468	NA	1,373	NA	896	NA	459	NA	96	NA	3,592	3,592
High-income countries	NA	0	NA	0	NA	6	NA	66	NA	96	NA	44	NA	34	NA	13	NA	260	260
WORLD	NA	0	NA	1	NA	304	NA	534	NA	1,469	NA	941	NA	494	NA	109	NA	3,852	3,852
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	0	NA	0	NA	65	NA	93	NA	308	NA	196	NA	120	NA	22	NA	805	805
Europe and Central Asia	NA	0	NA	0	NA	15	NA	93	NA	128	NA	64	NA	46	NA	9	NA	356	356
Latin America and the Caribbean	NA	0	NA	0	NA	33	NA	124	NA	191	NA	84	NA	49	NA	13	NA	494	494
Middle East and North Africa	NA	0	NA	0	NA	12	NA	14	NA	38	NA	19	NA	9	NA	1	NA	93	93
South Asia	NA	0	NA	1	NA	175	NA	129	NA	534	NA	397	NA	148	NA	40	NA	1,423	1,423
Sub-Saharan Africa	NA	0	NA	0	NA	41	NA	64	NA	247	NA	162	NA	98	NA	14	NA	627	627
Low- and middle-income countries	NA	0	NA	2	NA	341	NA	517	NA	1,446	NA	922	NA	469	NA	99	NA	3,797	3,797
High-income countries	NA	0	NA	0	NA	11	NA	90	NA	117	NA	50	NA	37	NA	14	NA	319	319
WORLD	NA	0	NA	2	NA	352	NA	607	NA	1,563	NA	972	NA	506	NA	113	NA	4,116	4,116

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.56

Risk factor: Unsafe sex
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	0	0	0	0	2	2	5	2	1	3	0	1	0	1	0	0	1	1	1
Europe and Central Asia	0	0	1	1	1	2	1	4	0	2	0	1	0	1	0	0	0	1	0
Latin America and the Caribbean	1	2	4	5	6	14	12	15	3	6	0	3	0	2	0	1	3	4	3
Middle East and North Africa	0	0	0	0	1	2	1	2	1	2	0	1	0	1	0	0	0	1	1
South Asia	1	2	1	0	7	4	13	5	4	5	1	3	0	1	0	1	3	3	3
Sub-Saharan Africa	7	8	17	16	35	52	53	57	26	27	6	8	1	4	0	1	19	22	20
Low- and middle-income countries	4	4	7	7	13	25	21	24	6	8	1	3	0	1	0	0	5	6	6
High-income countries	0	0	0	0	1	2	3	5	1	2	0	1	0	0	0	0	0	1	0
WORLD	4	4	7	7	13	25	20	23	5	8	1	3	0	1	0	0	5	6	5
PAF of YLL (%)																			
East Asia and Pacific	0	0	0	0	2	2	5	2	1	3	0	1	0	1	0	0	1	1	1
Europe and Central Asia	0	0	1	1	1	2	1	4	0	2	0	1	0	1	0	0	0	1	1
Latin America and the Caribbean	1	2	4	5	6	14	12	15	3	6	0	3	0	2	0	1	4	5	4
Middle East and North Africa	0	0	0	0	1	2	1	2	1	2	0	1	0	1	0	0	0	1	1
South Asia	1	2	1	0	7	4	13	5	4	5	1	3	0	1	0	1	3	3	3
Sub-Saharan Africa	7	8	17	16	35	52	53	57	27	27	6	8	1	4	0	1	19	23	21
Low- and middle-income countries	4	4	7	7	13	25	22	24	6	8	1	3	0	1	0	1	7	8	8
High-income countries	0	0	0	0	1	2	3	5	1	2	0	1	0	0	0	0	1	1	1
WORLD	4	4	7	7	12	25	21	23	5	8	1	3	0	1	0	0	6	8	7
PAF of DALYs (%)																			
East Asia and Pacific	0	0	0	0	2	3	3	2	1	2	0	1	0	1	0	0	1	1	1
Europe and Central Asia	0	0	0	0	1	3	1	2	0	1	0	1	0	0	0	0	0	1	1
Latin America and the Caribbean	1	1	1	1	4	7	7	7	2	4	0	2	0	1	0	1	3	3	3
Middle East and North Africa	0	0	0	0	1	4	1	2	0	1	0	1	0	0	0	0	0	1	1
South Asia	1	2	0	0	5	5	9	4	3	3	1	2	0	1	0	1	3	3	3
Sub-Saharan Africa	7	7	11	12	27	41	44	46	21	20	5	6	1	3	0	1	16	19	18
Low- and middle-income countries	3	3	4	4	9	16	15	14	4	5	1	2	0	1	0	0	5	6	6
High-income countries	0	0	0	0	1	2	2	2	0	1	0	0	0	0	0	0	0	1	1
WORLD	3	3	4	4	8	15	14	13	4	4	1	2	0	1	0	0	5	6	5
Attributable Mortality (thousands)																			
East Asia and Pacific	3	2	0	0	10	5	29	10	12	21	2	13	1	12	1	4	57	67	124
Europe and Central Asia	0	0	0	0	1	1	4	4	2	6	0	4	0	4	0	2	7	21	28
Latin America and the Caribbean	3	3	1	1	10	9	24	16	8	12	1	6	0	5	0	2	49	53	102
Middle East and North Africa	0	0	0	0	1	1	1	1	1	2	1	2	0	1	0	0	4	8	12
South Asia	17	30	1	1	33	21	91	26	40	38	9	30	5	16	2	8	199	170	369
Sub-Saharan Africa	177	165	48	47	186	362	450	384	165	126	25	29	3	14	0	2	1,054	1,130	2,185
Low- and middle-income countries	201	201	51	50	241	400	598	441	227	205	37	84	10	52	3	18	1,370	1,450	2,819
High-income countries	0	0	0	0	1	1	6	5	4	6	1	3	0	4	0	3	11	21	32
WORLD	201	201	51	50	242	400	604	445	231	210	38	87	10	56	3	21	1,381	1,470	2,851
Attributable YLL (thousands)																			
East Asia and Pacific	89	58	7	6	270	140	692	246	231	429	23	201	9	123	3	23	1,324	1,227	2,551
Europe and Central Asia	7	7	3	3	35	22	89	91	31	121	3	62	0	45	0	9	169	360	529
Latin America and the Caribbean	101	83	36	35	278	253	592	395	163	242	13	86	2	50	0	13	1,186	1,156	2,342
Middle East and North Africa	9	10	1	2	15	28	26	30	23	49	7	27	3	12	1	1	86	159	244
South Asia	525	928	43	41	883	587	2,195	640	777	770	126	449	48	165	12	42	4,609	3,623	8,231
Sub-Saharan Africa	5,341	5,027	1,420	1,396	5,027	9,955	10,931	9,678	3,238	2,603	356	450	29	154	1	14	26,341	29,278	55,619
Low- and middle-income countries	6,072	6,114	1,510	1,482	6,508	10,986	14,526	11,081	4,463	4,215	527	1,274	90	549	17	101	33,714	35,802	69,516
High-income countries	1	1	1	1	19	17	147	116	73	115	8	47	2	36	0	14	252	347	599
WORLD	6,073	6,115	1,511	1,483	6,528	11,002	14,673	11,197	4,536	4,330	536	1,322	92	585	17	116	33,965	36,149	70,115
Attributable DALYs (thousands)																			
East Asia and Pacific	139	107	10	16	523	566	845	379	243	455	25	209	9	126	3	24	1,797	1,881	3,678
Europe and Central Asia	10	10	4	6	90	151	125	144	34	135	3	65	0	47	0	9	266	567	833
Latin America and the Caribbean	126	107	38	41	434	505	681	488	173	259	15	89	2	51	0	13	1,468	1,554	3,022
Middle East and North Africa	25	26	2	6	53	187	43	64	24	52	7	28	3	12	1	1	157	376	534
South Asia	761	1,151	53	70	1,394	1,647	2,468	948	793	795	128	458	48	168	12	43	5,657	5,281	10,938
Sub-Saharan Africa	5,670	5,350	1,458	1,452	6,280	12,100	11,541	10,385	3,330	2,675	363	460	29	156	1	14	28,672	32,593	61,265
Low- and middle-income countries	6,731	6,750	1,565	1,591	8,773	15,157	15,702	12,409	4,598	4,372	542	1,309	92	559	17	104	38,018	42,252	80,270
High-income countries	8	7	1	3	62	111	201	176	83	138	10	53	2	39	0	15	367	542	909
WORLD	6,739	6,757	1,566	1,594	8,834	15,268	15,903	12,586	4,681	4,510	551	1,362	94	598	17	120	38,385	42,794	81,179

Source: Authors' calculations.

Table 4A.57

Risk factor: Alcohol use
Disease: Low birthweight

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Europe and Central Asia	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Latin America and the Caribbean	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
Middle East and North Africa	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
South Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Sub-Saharan Africa	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Low- and middle-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
High-income countries	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
WORLD	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
PAF of YLL (%)																			
East Asia and Pacific	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Europe and Central Asia	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Latin America and the Caribbean	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
Middle East and North Africa	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
South Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Sub-Saharan Africa	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Low- and middle-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
High-income countries	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
WORLD	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0	0
PAF of DALYs (%)																			
East Asia and Pacific	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Europe and Central Asia	4	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4	4
Latin America and the Caribbean	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
Middle East and North Africa	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	3
South Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Sub-Saharan Africa	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Low- and middle-income countries	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0	0
High-income countries	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	2
WORLD	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0	1
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Europe and Central Asia	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0	1
Latin America and the Caribbean	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	1
Middle East and North Africa	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	2
South Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	2
Sub-Saharan Africa	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	1
Low- and middle-income countries	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	6
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	3	6
Attributable YLL (thousands)																			
East Asia and Pacific	3	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	2	5
Europe and Central Asia	17	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	14	30
Latin America and the Caribbean	12	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	9	21
Middle East and North Africa	27	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27	18	46
South Asia	35	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	30	65
Sub-Saharan Africa	12	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	9	21
Low- and middle-income countries	105	83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	105	83	188
High-income countries	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2	4
WORLD	107	85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	107	85	192
Attributable DALYs (thousands)																			
East Asia and Pacific	3	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3	5
Europe and Central Asia	19	16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	16	34
Latin America and the Caribbean	15	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	13	28
Middle East and North Africa	30	21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	21	51
South Asia	37	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	33	71
Sub-Saharan Africa	13	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	10	22
Low- and middle-income countries	116	95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	116	95	211
High-income countries	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	3	7
WORLD	120	98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120	98	218

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.58

Risk factor: Alcohol use
Disease: Mouth and oropharynx cancers

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	30	11	32	11	32	11	29	8	27	4	27	4	30	8	23
Europe and Central Asia	NA	NA	NA	NA	44	31	42	31	43	31	38	26	33	24	32	24	39	26	37
Latin America and the Caribbean	NA	NA	NA	NA	38	29	39	31	39	29	35	26	25	20	25	20	34	24	31
Middle East and North Africa	NA	NA	NA	NA	10	4	9	3	9	3	6	2	4	1	4	2	7	2	5
South Asia	NA	NA	NA	NA	11	4	15	2	8	2	2	0	0	0	0	0	4	1	3
Sub-Saharan Africa	NA	NA	NA	NA	23	12	28	16	27	17	25	14	22	11	22	11	25	13	21
Low- and middle-income countries	NA	NA	NA	NA	19	10	25	9	25	8	15	5	12	5	10	4	18	6	14
High-income countries	NA	NA	NA	NA	41	32	41	31	41	31	35	26	32	23	32	23	36	26	33
WORLD	NA	NA	NA	NA	20	11	27	11	27	10	17	7	15	7	14	8	20	8	16
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	30	11	32	11	32	11	29	8	27	4	27	4	31	9	24
Europe and Central Asia	NA	NA	NA	NA	44	31	42	31	43	31	38	26	33	24	32	24	40	27	38
Latin America and the Caribbean	NA	NA	NA	NA	38	29	39	31	39	29	35	26	25	20	25	20	36	26	33
Middle East and North Africa	NA	NA	NA	NA	10	4	9	3	9	3	6	2	4	1	4	2	7	2	6
South Asia	NA	NA	NA	NA	11	4	15	2	8	2	2	0	0	0	0	0	6	1	4
Sub-Saharan Africa	NA	NA	NA	NA	23	12	28	16	27	17	25	14	22	11	22	11	25	14	22
Low- and middle-income countries	NA	NA	NA	NA	19	10	25	9	25	8	15	5	12	5	10	4	19	6	15
High-income countries	NA	NA	NA	NA	41	32	41	31	41	31	35	26	32	23	32	23	38	27	35
WORLD	NA	NA	NA	NA	20	11	27	11	27	10	17	7	15	7	14	8	22	8	18
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	30	11	32	11	32	11	29	8	27	4	27	4	31	9	24
Europe and Central Asia	NA	NA	NA	NA	44	31	42	31	43	31	38	26	33	24	32	24	40	27	38
Latin America and the Caribbean	NA	NA	NA	NA	38	29	39	31	39	29	35	26	25	20	25	20	36	25	33
Middle East and North Africa	NA	NA	NA	NA	10	4	9	3	9	3	6	2	4	1	4	2	7	2	6
South Asia	NA	NA	NA	NA	11	4	15	2	8	2	2	0	0	0	0	0	6	1	4
Sub-Saharan Africa	NA	NA	NA	NA	23	12	28	16	27	17	25	14	22	11	22	11	25	14	22
Low- and middle-income countries	NA	NA	NA	NA	19	10	25	9	25	8	15	5	12	5	10	4	19	6	15
High-income countries	NA	NA	NA	NA	41	32	41	31	41	31	35	26	32	23	32	23	38	27	35
WORLD	NA	NA	NA	NA	20	11	27	11	27	10	17	7	15	7	14	8	22	9	18
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	2	0	5	1	4	0	2	0	1	0	13	2	15
Europe and Central Asia	NA	NA	NA	NA	0	0	1	0	4	0	3	0	1	0	0	0	9	1	10
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	1	0	1	0	1	0	0	0	3	1	4
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	1	0	2	0	1	0	0	0	0	0	4	0	4
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	1	0	1	0	1	0	0	0	3	1	4
Low- and middle-income countries	NA	NA	NA	NA	1	0	4	0	13	2	9	1	4	1	1	1	33	5	38
High-income countries	NA	NA	NA	NA	0	0	1	0	4	1	3	1	2	1	1	1	11	3	14
WORLD	NA	NA	NA	NA	1	0	5	1	17	2	12	2	7	2	2	1	44	8	51
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	9	1	42	4	97	14	48	6	19	2	3	1	219	28	247
Europe and Central Asia	NA	NA	NA	NA	2	1	14	2	75	7	37	4	10	3	1	1	140	18	158
Latin America and the Caribbean	NA	NA	NA	NA	1	1	7	2	25	4	14	3	5	2	1	1	53	13	65
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	0	0	4	1	4
South Asia	NA	NA	NA	NA	7	1	24	1	33	3	10	0	0	0	0	0	74	5	79
Sub-Saharan Africa	NA	NA	NA	NA	2	0	7	1	19	5	13	3	6	2	1	0	48	12	60
Low- and middle-income countries	NA	NA	NA	NA	22	3	95	11	252	33	124	17	40	10	6	3	538	76	614
High-income countries	NA	NA	NA	NA	2	1	15	3	75	13	40	8	19	7	5	4	155	35	190
WORLD	NA	NA	NA	NA	23	3	110	14	327	45	163	25	59	17	11	7	693	111	804
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	10	1	43	4	100	14	50	6	19	2	3	1	225	29	253
Europe and Central Asia	NA	NA	NA	NA	2	1	14	2	77	7	38	4	11	3	1	1	144	19	163
Latin America and the Caribbean	NA	NA	NA	NA	1	1	7	2	26	4	14	3	5	2	1	1	54	13	67
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	0	0	4	1	5
South Asia	NA	NA	NA	NA	7	1	24	1	34	3	11	0	0	0	0	0	76	5	81
Sub-Saharan Africa	NA	NA	NA	NA	2	0	7	2	20	5	13	3	6	2	1	0	49	13	61
Low- and middle-income countries	NA	NA	NA	NA	22	3	96	11	258	34	127	17	41	10	7	3	552	79	631
High-income countries	NA	NA	NA	NA	2	1	16	4	79	13	42	9	21	7	5	4	164	38	202
WORLD	NA	NA	NA	NA	24	4	112	15	337	47	169	26	62	18	12	7	716	117	833

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.59

Risk factor: Alcohol use
Disease: Esophageal cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	40	18	42	18	41	19	39	13	36	7	36	7	39	12	29
Europe and Central Asia	NA	NA	NA	NA	49	41	48	40	49	40	45	36	41	34	41	34	45	35	42
Latin America and the Caribbean	NA	NA	NA	NA	44	36	45	37	46	36	43	33	35	29	35	29	41	31	38
Middle East and North Africa	NA	NA	NA	NA	15	6	14	5	13	4	10	3	5	2	6	3	9	3	7
South Asia	NA	NA	NA	NA	18	6	23	3	14	3	4	0	0	0	0	0	6	1	4
Sub-Saharan Africa	NA	NA	NA	NA	33	19	37	22	34	23	32	19	29	16	29	16	32	19	27
Low- and middle-income countries	NA	NA	NA	NA	32	12	37	14	37	16	31	11	30	8	27	8	32	11	24
High-income countries	NA	NA	NA	NA	48	41	48	41	47	40	43	36	41	33	41	33	43	34	41
WORLD	NA	NA	NA	NA	33	12	38	14	38	17	33	13	32	10	31	12	34	13	26
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	40	18	42	18	41	19	39	13	36	7	36	7	39	13	30
Europe and Central Asia	NA	NA	NA	NA	49	41	48	40	49	40	45	36	41	34	41	34	46	36	44
Latin America and the Caribbean	NA	NA	NA	NA	44	36	45	37	46	36	43	33	35	29	35	29	43	33	40
Middle East and North Africa	NA	NA	NA	NA	15	6	14	5	13	4	10	3	5	2	6	3	10	3	7
South Asia	NA	NA	NA	NA	18	6	23	3	14	3	4	0	0	0	0	0	8	1	5
Sub-Saharan Africa	NA	NA	NA	NA	33	19	37	22	34	23	32	19	29	16	29	16	33	20	28
Low- and middle-income countries	NA	NA	NA	NA	32	12	37	14	37	16	31	11	30	8	28	8	33	12	25
High-income countries	NA	NA	NA	NA	48	41	48	41	47	40	43	36	41	33	41	33	44	36	43
WORLD	NA	NA	NA	NA	33	12	38	14	38	17	33	13	32	10	31	12	35	13	27
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	40	18	42	18	41	19	39	13	36	7	36	7	39	13	30
Europe and Central Asia	NA	NA	NA	NA	49	41	48	40	49	40	45	36	41	34	41	34	46	36	44
Latin America and the Caribbean	NA	NA	NA	NA	44	36	45	37	46	36	43	33	35	29	35	29	43	33	40
Middle East and North Africa	NA	NA	NA	NA	15	6	14	5	13	4	10	3	5	2	6	3	10	3	7
South Asia	NA	NA	NA	NA	18	6	23	3	14	3	4	0	0	0	0	0	8	1	5
Sub-Saharan Africa	NA	NA	NA	NA	33	19	37	22	34	23	32	19	29	16	29	16	33	20	28
Low- and middle-income countries	NA	NA	NA	NA	32	12	37	14	37	16	31	11	30	8	28	8	33	12	25
High-income countries	NA	NA	NA	NA	48	41	48	41	47	40	43	36	41	33	41	33	44	36	43
WORLD	NA	NA	NA	NA	33	12	38	14	38	17	33	13	32	10	31	12	35	13	27
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	3	0	15	4	20	3	15	2	3	1	57	10	67
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	2	0	3	1	1	1	0	0	7	2	9
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	2	0	2	0	1	0	1	0	5	1	6
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	0	0	3	0	3
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	2	1	1	0	1	0	0	0	5	2	6
Low- and middle-income countries	NA	NA	NA	NA	0	0	5	1	22	5	26	5	18	3	5	2	76	16	92
High-income countries	NA	NA	NA	NA	0	0	1	0	5	1	6	1	5	1	3	2	19	5	24
WORLD	NA	NA	NA	NA	0	0	5	1	27	6	32	5	24	5	7	3	95	20	116
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	6	1	78	10	277	75	270	49	136	20	18	5	785	159	944
Europe and Central Asia	NA	NA	NA	NA	0	0	5	2	42	6	35	8	14	7	1	2	98	26	124
Latin America and the Caribbean	NA	NA	NA	NA	0	0	6	1	29	5	20	5	10	4	3	2	67	17	85
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	2	0	1	0	0	0	0	0	4	1	5
South Asia	NA	NA	NA	NA	2	1	14	1	24	4	9	0	0	0	0	0	49	7	55
Sub-Saharan Africa	NA	NA	NA	NA	1	0	8	3	31	11	20	7	9	4	2	1	70	26	96
Low- and middle-income countries	NA	NA	NA	NA	9	2	112	17	404	102	355	70	169	35	24	9	1,073	236	1,309
High-income countries	NA	NA	NA	NA	0	0	12	2	91	12	78	13	49	14	12	8	242	49	291
WORLD	NA	NA	NA	NA	10	3	124	19	495	115	433	83	218	49	36	17	1,315	285	1,600
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	6	1	79	10	279	75	273	49	138	20	18	5	793	160	953
Europe and Central Asia	NA	NA	NA	NA	0	0	5	2	43	6	35	8	14	7	2	2	99	26	125
Latin America and the Caribbean	NA	NA	NA	NA	0	0	6	1	29	5	21	5	10	4	3	2	68	18	86
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	2	0	1	0	0	0	0	0	4	1	5
South Asia	NA	NA	NA	NA	2	1	14	1	24	4	9	0	0	0	0	0	49	7	56
Sub-Saharan Africa	NA	NA	NA	NA	1	0	8	3	31	11	20	7	9	4	2	1	70	26	96
Low- and middle-income countries	NA	NA	NA	NA	10	2	113	17	408	103	359	71	171	35	24	9	1,083	238	1,321
High-income countries	NA	NA	NA	NA	1	0	12	2	93	13	80	13	51	14	13	8	248	50	299
WORLD	NA	NA	NA	NA	10	3	124	19	500	116	439	84	221	50	37	17	1,332	288	1,610

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.60

Risk factor: Alcohol use
Disease: Liver cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	31	12	33	11	32	12	30	8	27	4	27	4	30	8	24
Europe and Central Asia	NA	NA	NA	NA	43	34	41	33	43	34	38	29	32	26	32	26	37	28	34
Latin America and the Caribbean	NA	NA	NA	NA	35	27	36	28	36	27	33	25	25	21	26	21	31	23	27
Middle East and North Africa	NA	NA	NA	NA	10	4	10	3	9	3	7	2	4	1	4	2	7	2	5
South Asia	NA	NA	NA	NA	12	4	16	2	8	2	2	0	0	0	0	0	6	1	4
Sub-Saharan Africa	NA	NA	NA	NA	28	14	33	18	31	18	28	15	24	12	24	12	29	15	24
Low- and middle-income countries	NA	NA	NA	NA	28	10	32	13	31	13	29	11	26	8	25	8	29	10	23
High-income countries	NA	NA	NA	NA	41	34	41	32	40	32	35	28	32	25	32	25	35	26	32
WORLD	NA	NA	NA	NA	28	11	32	13	32	15	30	13	27	12	27	15	30	13	25
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	31	12	33	11	32	12	30	8	27	4	27	4	31	9	25
Europe and Central Asia	NA	NA	NA	NA	43	34	41	33	43	34	38	29	32	26	32	26	39	29	35
Latin America and the Caribbean	NA	NA	NA	NA	35	27	36	28	36	27	33	25	25	21	26	21	32	24	28
Middle East and North Africa	NA	NA	NA	NA	10	4	10	3	9	3	7	2	4	1	4	2	7	3	5
South Asia	NA	NA	NA	NA	12	4	16	2	8	2	2	0	0	0	0	0	7	2	5
Sub-Saharan Africa	NA	NA	NA	NA	28	14	33	18	31	18	28	15	24	12	24	12	29	15	25
Low- and middle-income countries	NA	NA	NA	NA	28	10	32	13	31	13	29	11	26	8	25	8	30	11	24
High-income countries	NA	NA	NA	NA	41	34	41	32	40	32	35	28	32	25	32	25	36	27	33
WORLD	NA	NA	NA	NA	28	11	32	13	32	15	30	13	27	12	27	14	30	13	25
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	31	12	33	11	32	12	30	8	27	4	27	4	31	9	25
Europe and Central Asia	NA	NA	NA	NA	43	34	41	33	43	34	38	29	32	26	32	26	38	29	35
Latin America and the Caribbean	NA	NA	NA	NA	35	27	36	28	36	27	33	25	25	21	26	21	32	24	28
Middle East and North Africa	NA	NA	NA	NA	10	4	10	3	9	3	7	2	4	1	4	2	7	3	5
South Asia	NA	NA	NA	NA	12	4	16	2	8	2	2	0	0	0	0	0	7	2	5
Sub-Saharan Africa	NA	NA	NA	NA	28	14	33	18	31	18	28	15	24	12	24	12	29	15	25
Low- and middle-income countries	NA	NA	NA	NA	28	10	32	13	31	13	29	11	26	8	25	8	30	11	24
High-income countries	NA	NA	NA	NA	41	34	41	32	40	32	35	28	32	25	32	25	36	27	33
WORLD	NA	NA	NA	NA	28	11	32	13	32	15	30	13	27	12	27	14	30	13	25
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	2	0	9	1	32	3	22	2	14	1	3	0	82	8	90
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	2	1	2	1	2	1	0	0	6	3	9
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	1	1	1	1	1	1	0	0	3	2	6
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Sub-Saharan Africa	NA	NA	NA	NA	0	0	1	0	3	1	2	0	1	0	0	0	9	2	11
Low- and middle-income countries	NA	NA	NA	NA	2	1	12	2	38	5	28	4	18	3	4	1	102	16	117
High-income countries	NA	NA	NA	NA	0	0	1	0	6	1	8	2	7	3	3	3	24	9	33
WORLD	NA	NA	NA	NA	2	1	13	2	44	6	35	6	25	6	7	4	126	25	150
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	44	8	223	29	607	59	299	33	128	11	15	2	1,317	142	1,460
Europe and Central Asia	NA	NA	NA	NA	2	1	8	3	32	12	30	14	14	11	2	2	88	43	131
Latin America and the Caribbean	NA	NA	NA	NA	2	1	5	4	16	11	13	9	7	6	2	2	44	33	77
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	2	1	2	0	1	0	0	0	6	1	7
South Asia	NA	NA	NA	NA	3	2	8	1	7	1	1	0	0	0	0	0	20	3	24
Sub-Saharan Africa	NA	NA	NA	NA	8	3	35	9	62	14	31	7	11	4	2	1	150	38	188
Low- and middle-income countries	NA	NA	NA	NA	59	15	281	45	726	97	376	63	161	34	21	7	1,625	262	1,887
High-income countries	NA	NA	NA	NA	2	1	20	5	104	21	101	28	63	31	14	12	305	97	402
WORLD	NA	NA	NA	NA	62	16	301	50	831	118	477	91	225	64	35	19	1,930	359	2,289
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	45	8	224	29	610	60	301	33	130	11	16	2	1,326	143	1,469
Europe and Central Asia	NA	NA	NA	NA	2	1	8	3	32	12	30	14	14	11	2	2	88	43	132
Latin America and the Caribbean	NA	NA	NA	NA	2	1	5	4	16	11	13	9	7	6	2	2	44	33	78
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	2	1	2	0	1	0	0	0	6	1	7
South Asia	NA	NA	NA	NA	3	2	8	1	7	1	1	0	0	0	0	0	20	3	24
Sub-Saharan Africa	NA	NA	NA	NA	8	3	35	9	62	14	32	7	12	5	2	1	150	38	189
Low- and middle-income countries	NA	NA	NA	NA	60	15	282	46	730	98	379	63	163	34	21	8	1,635	264	1,898
High-income countries	NA	NA	NA	NA	2	1	20	5	106	21	102	29	65	31	15	12	310	99	409
WORLD	NA	NA	NA	NA	62	16	302	51	836	119	482	92	227	65	36	20	1,945	362	2,307

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.61

Risk factor: Alcohol use
Disease: Breast cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	0	NA	0	NA	4	NA	3	NA	1	NA	1	NA	3	3
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	12	NA	10	NA	9	NA	9	NA	9	9
Latin America and the Caribbean	NA	NA	NA	NA	NA	0	NA	0	NA	9	NA	8	NA	7	NA	7	NA	7	7
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	1	NA	1	1
South Asia	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	0	0
Sub-Saharan Africa	NA	NA	NA	NA	NA	0	NA	0	NA	6	NA	4	NA	3	NA	3	NA	4	4
Low- and middle-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	5	NA	4	NA	4	NA	4	NA	4	4
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	12	NA	10	NA	8	NA	8	NA	9	9
WORLD	NA	NA	NA	NA	NA	0	NA	0	NA	7	NA	6	NA	6	NA	6	NA	5	5
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	0	NA	0	NA	4	NA	3	NA	1	NA	1	NA	3	3
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	12	NA	10	NA	9	NA	9	NA	9	9
Latin America and the Caribbean	NA	NA	NA	NA	NA	0	NA	0	NA	9	NA	8	NA	7	NA	7	NA	7	7
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	1	NA	1	1
South Asia	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	0	0
Sub-Saharan Africa	NA	NA	NA	NA	NA	0	NA	0	NA	6	NA	4	NA	3	NA	3	NA	4	4
Low- and middle-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	5	NA	4	NA	4	NA	3	NA	4	4
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	12	NA	10	NA	8	NA	8	NA	9	9
WORLD	NA	NA	NA	NA	NA	0	NA	0	NA	7	NA	6	NA	6	NA	6	NA	5	5
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	0	NA	0	NA	4	NA	3	NA	1	NA	1	NA	3	3
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	12	NA	10	NA	9	NA	9	NA	9	9
Latin America and the Caribbean	NA	NA	NA	NA	NA	0	NA	0	NA	9	NA	8	NA	7	NA	7	NA	6	6
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	1	NA	0	0
South Asia	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	0	0
Sub-Saharan Africa	NA	NA	NA	NA	NA	0	NA	0	NA	6	NA	4	NA	3	NA	3	NA	4	4
Low- and middle-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	5	NA	4	NA	4	NA	3	NA	4	4
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	12	NA	10	NA	8	NA	8	NA	9	9
WORLD	NA	NA	NA	NA	NA	0	NA	0	NA	7	NA	6	NA	6	NA	6	NA	5	5
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	0	NA	0	NA	2	NA	1	NA	0	NA	0	NA	2	2
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	2	NA	2	NA	1	NA	1	NA	6	6
Latin America and the Caribbean	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	1	NA	0	NA	0	NA	3	3
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	0
South Asia	NA	NA	NA	NA	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	0
Sub-Saharan Africa	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	6	NA	3	NA	2	NA	1	NA	12	12
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	4	NA	3	NA	3	NA	3	NA	14	14
WORLD	NA	NA	NA	NA	NA	0	NA	0	NA	10	NA	6	NA	5	NA	4	NA	26	26
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	0	NA	0	NA	31	NA	8	NA	2	NA	0	NA	42	42
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	46	NA	25	NA	14	NA	3	NA	87	87
Latin America and the Caribbean	NA	NA	NA	NA	NA	0	NA	0	NA	23	NA	10	NA	5	NA	2	NA	39	39
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	1	1
South Asia	NA	NA	NA	NA	NA	0	NA	0	NA	3	NA	0	NA	0	NA	0	NA	3	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	0	NA	0	NA	12	NA	6	NA	3	NA	1	NA	21	21
Low- and middle-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	116	NA	49	NA	23	NA	6	NA	193	193
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	87	NA	46	NA	32	NA	14	NA	179	179
WORLD	NA	NA	NA	NA	NA	0	NA	0	NA	203	NA	95	NA	55	NA	20	NA	373	373
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	0	NA	0	NA	33	NA	8	NA	2	NA	1	NA	44	44
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	49	NA	27	NA	15	NA	3	NA	93	93
Latin America and the Caribbean	NA	NA	NA	NA	NA	0	NA	0	NA	24	NA	10	NA	5	NA	2	NA	41	41
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	0	NA	1	NA	0	NA	0	NA	0	NA	1	1
South Asia	NA	NA	NA	NA	NA	0	NA	0	NA	3	NA	0	NA	0	NA	0	NA	3	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	0	NA	0	NA	13	NA	6	NA	3	NA	1	NA	22	22
Low- and middle-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	123	NA	52	NA	24	NA	6	NA	205	205
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	107	NA	53	NA	38	NA	17	NA	215	215
WORLD	NA	NA	NA	NA	NA	0	NA	0	NA	230	NA	105	NA	62	NA	23	NA	420	420

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.62

Risk factor: Alcohol use
Disease: Selected other neoplasms

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	9	3	9	3	9	3	8	2	7	1	7	1	8	2	4
Europe and Central Asia	NA	NA	NA	NA	14	9	13	9	14	9	12	8	9	7	9	7	11	8	9
Latin America and the Caribbean	NA	NA	NA	NA	11	8	11	8	11	8	10	7	7	5	7	5	8	6	7
Middle East and North Africa	NA	NA	NA	NA	2	1	2	1	2	1	2	0	1	0	1	0	1	0	1
South Asia	NA	NA	NA	NA	3	1	4	0	2	0	0	0	0	0	0	0	2	0	1
Sub-Saharan Africa	NA	NA	NA	NA	7	3	9	4	8	4	7	3	6	3	6	3	6	3	4
Low- and middle-income countries	NA	NA	NA	NA	5	3	6	3	7	3	6	3	4	2	4	2	5	3	4
High-income countries	NA	NA	NA	NA	13	9	13	9	13	9	10	7	9	7	9	6	10	7	8
WORLD	NA	NA	NA	NA	6	4	7	4	8	4	7	4	7	4	8	5	7	4	6
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	9	3	9	3	9	3	8	2	7	1	7	1	7	2	4
Europe and Central Asia	NA	NA	NA	NA	14	9	13	9	14	9	12	8	9	7	9	7	11	8	10
Latin America and the Caribbean	NA	NA	NA	NA	11	8	11	8	11	8	10	7	7	5	7	5	8	6	7
Middle East and North Africa	NA	NA	NA	NA	2	1	2	1	2	1	2	0	1	0	1	0	2	1	1
South Asia	NA	NA	NA	NA	3	1	4	0	2	0	0	0	0	0	0	0	2	0	1
Sub-Saharan Africa	NA	NA	NA	NA	7	3	9	4	8	4	7	3	6	3	6	3	5	3	4
Low- and middle-income countries	NA	NA	NA	NA	5	3	6	3	7	3	6	3	4	2	4	2	5	2	4
High-income countries	NA	NA	NA	NA	13	9	13	9	13	9	10	7	9	7	9	6	10	7	9
WORLD	NA	NA	NA	NA	6	4	7	4	8	4	7	4	7	4	8	5	6	4	5
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	9	3	9	3	9	3	8	2	7	1	7	1	7	2	4
Europe and Central Asia	NA	NA	NA	NA	14	9	13	9	14	9	12	8	9	7	9	7	11	8	10
Latin America and the Caribbean	NA	NA	NA	NA	11	8	11	8	11	8	10	7	7	5	7	5	8	6	7
Middle East and North Africa	NA	NA	NA	NA	2	1	2	1	2	1	2	0	1	0	1	0	2	1	1
South Asia	NA	NA	NA	NA	3	1	4	0	2	0	0	0	0	0	0	0	2	0	1
Sub-Saharan Africa	NA	NA	NA	NA	7	3	9	4	8	4	7	3	6	3	6	3	5	3	4
Low- and middle-income countries	NA	NA	NA	NA	5	3	6	3	7	3	6	3	4	2	4	2	5	2	4
High-income countries	NA	NA	NA	NA	13	9	13	9	13	9	10	7	9	7	9	6	10	7	9
WORLD	NA	NA	NA	NA	6	4	7	4	8	4	7	4	7	4	8	5	6	4	5
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	1	0	1	0	0	0	0	0	2	1	3
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	1	1	1	1	3	2	5
WORLD	NA	NA	NA	NA	0	0	0	0	1	1	1	0	1	1	1	1	5	3	8
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	2	1	5	2	2	1	1	0	0	0	11	4	15
Europe and Central Asia	NA	NA	NA	NA	1	0	1	1	2	2	2	1	1	1	0	0	7	5	12
Latin America and the Caribbean	NA	NA	NA	NA	1	1	2	1	3	2	2	1	1	1	0	0	8	6	14
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	0	0	3	1	4
South Asia	NA	NA	NA	NA	2	0	1	0	1	0	0	0	0	0	0	0	3	1	4
Sub-Saharan Africa	NA	NA	NA	NA	1	0	1	1	1	1	1	1	0	0	0	0	5	3	8
Low- and middle-income countries	NA	NA	NA	NA	7	2	7	4	13	7	7	3	3	2	1	1	38	19	57
High-income countries	NA	NA	NA	NA	1	1	3	2	7	4	7	4	7	5	4	4	29	19	48
WORLD	NA	NA	NA	NA	8	3	10	6	20	11	13	7	11	7	5	5	67	38	105
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	2	1	5	2	2	1	1	0	0	0	11	4	15
Europe and Central Asia	NA	NA	NA	NA	1	0	1	1	2	2	2	1	1	1	0	0	7	5	12
Latin America and the Caribbean	NA	NA	NA	NA	1	1	2	1	3	2	2	1	1	1	0	0	8	6	14
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	0	0	3	1	4
South Asia	NA	NA	NA	NA	2	0	1	0	1	0	0	0	0	0	0	0	3	1	4
Sub-Saharan Africa	NA	NA	NA	NA	1	0	1	1	1	1	1	1	0	0	0	0	5	3	8
Low- and middle-income countries	NA	NA	NA	NA	7	2	7	4	13	7	7	3	3	2	1	1	38	19	57
High-income countries	NA	NA	NA	NA	1	1	3	2	7	4	7	4	7	5	4	4	29	19	48
WORLD	NA	NA	NA	NA	8	3	10	6	20	11	13	7	11	7	5	5	67	38	105

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.63

Risk factor: Alcohol use
Disease: Diabetes mellitus

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	–1	–1	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	–7	–5	–7	–6	–6	–5	–4	–4	–3	–4	–3	–5	–4	–5	–4
WORLD	NA	NA	NA	NA	0	0	–1	0	–1	0	–1	0	–1	–1	–1	–2	–1	–1	–1
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	–1	–1	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	–7	–5	–7	–6	–6	–5	–4	–4	–3	–4	–3	–5	–4	–4	–4
WORLD	NA	NA	NA	NA	0	0	–1	0	–1	0	–1	0	–1	–1	–1	–2	–1	–1	–1
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	–1	–1	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	–7	–5	–7	–6	–6	–5	–4	–4	–3	–4	–3	–5	–5	–5	–5
WORLD	NA	NA	NA	NA	–1	0	–1	–1	–1	–1	–1	–1	–1	–1	–1	–2	–1	–1	–1
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	0	0	0	0	–1	0	–1	–1	–1	–1	–1	–3	–3	–5	–9
WORLD	NA	NA	NA	NA	0	0	0	0	–1	0	–1	–1	–1	–1	–1	–3	–3	–5	–9
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	–1	0	–5	–2	–14	–7	–10	–9	–8	–14	–4	–12	–41	–44	–86
WORLD	NA	NA	NA	NA	–1	0	–5	–2	–14	–7	–10	–9	–8	–14	–4	–12	–41	–44	–85
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	–1
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	2	0	0	0	0	0	0	0	0	0	2	2
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	2	0	0	0	0	0	0	0	0	0	1	1
High-income countries	NA	NA	NA	NA	–3	–1	–21	–14	–41	–29	–19	–19	–12	–21	–5	–16	–99	–100	–200
WORLD	NA	NA	NA	NA	–3	–1	–21	–12	–41	–29	–19	–19	–12	–21	–5	–17	–100	–99	–199

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.64

Risk factor: Alcohol use
Disease: Unipolar depressive disorders

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1
Europe and Central Asia	NA	NA	NA	NA	6	1	6	1	6	1	6	1	6	1	6	1	6	1	3
Latin America and the Caribbean	NA	NA	NA	NA	7	1	7	1	7	1	7	1	7	1	7	1	7	1	3
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	*	0	2	0	2	0	2	0	*	0	*	0	2	0	1
Sub-Saharan Africa	NA	NA	NA	NA	*	0	2	*	2	*	*	*	*	*	*	*	2	0	1
Low- and middle-income countries	NA	NA	NA	NA	4	0	2	0	2	0	2	0	6	1	6	1	2	0	
High-income countries	NA	NA	NA	NA	8	2	8	2	7	2	8	2	8	2	8	2	8	2	4
WORLD	NA	NA	NA	NA	6	1	2	0	2	0	3	0	8	2	8	2	3	1	2
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1
Europe and Central Asia	NA	NA	NA	NA	6	1	6	1	6	1	6	1	6	1	6	1	6	1	3
Latin America and the Caribbean	NA	NA	NA	NA	7	1	7	1	7	1	7	1	7	1	7	1	7	1	3
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	*	0	2	0	2	0	2	0	*	0	*	0	2	0	1
Sub-Saharan Africa	NA	NA	NA	NA	*	0	2	*	2	*	*	*	*	*	*	*	2	0	1
Low- and middle-income countries	NA	NA	NA	NA	4	0	2	0	2	0	2	0	6	1	6	1	2	0	1
High-income countries	NA	NA	NA	NA	8	2	8	2	7	2	8	2	8	2	8	2	8	2	4
WORLD	NA	NA	NA	NA	6	1	2	0	2	0	3	0	8	2	8	2	2	0	1
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1
Europe and Central Asia	NA	NA	NA	NA	6	1	6	1	6	1	6	1	6	1	6	1	5	1	3
Latin America and the Caribbean	NA	NA	NA	NA	7	1	7	1	7	1	7	1	7	1	7	1	6	1	3
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1
Sub-Saharan Africa	NA	NA	NA	NA	2	0	2	0	2	0	2	0	2	0	2	0	2	0	1
Low- and middle-income countries	NA	NA	NA	NA	3	0	3	0	3	0	3	0	3	0	3	0	2	0	1
High-income countries	NA	NA	NA	NA	8	2	8	2	7	2	8	2	8	2	8	2	7	2	4
WORLD	NA	NA	NA	NA	3	1	4	1	4	1	4	1	5	1	5	1	3	0	2
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	0	0	2	0	2
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	0	0	2	0	2
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
WORLD	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	0	0	3	0	3
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	38	0	34	0	24	0	7	0	1	0	0	0	105	0	105
Europe and Central Asia	NA	NA	NA	NA	29	6	27	9	19	6	7	3	2	1	0	0	83	25	109
Latin America and the Caribbean	NA	NA	NA	NA	43	11	41	11	22	6	7	2	1	0	0	0	116	30	146
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	40	0	33	0	18	0	5	0	1	0	0	0	97	0	97
Sub-Saharan Africa	NA	NA	NA	NA	9	0	7	0	3	0	1	0	0	0	0	0	20	0	20
Low- and middle-income countries	NA	NA	NA	NA	159	18	142	20	88	12	27	5	6	1	1	0	422	56	478
High-income countries	NA	NA	NA	NA	70	30	77	33	46	25	21	8	6	3	2	2	222	101	323
WORLD	NA	NA	NA	NA	229	47	219	53	134	37	47	13	12	5	3	2	644	156	800

Source: Authors' calculations.

Note: NA = not applicable.

*The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.65

Risk factor: Alcohol use
Disease: Epilepsy

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	36	8	39	7	41	10	38	6	34	3	34	3	30	6	19
Europe and Central Asia	NA	NA	NA	NA	59	46	57	45	61	48	54	41	42	35	42	35	52	39	48
Latin America and the Caribbean	NA	NA	NA	NA	43	34	46	36	48	37	43	34	30	25	30	25	38	29	34
Middle East and North Africa	NA	NA	NA	NA	13	6	12	5	13	5	10	2	6	2	6	3	9	3	7
South Asia	NA	NA	NA	NA	9	7	18	3	8	3	2	0	0	0	0	0	3	2	2
Sub-Saharan Africa	NA	NA	NA	NA	43	20	50	26	48	29	45	22	38	17	38	17	38	17	30
Low- and middle-income countries	NA	NA	NA	NA	36	15	44	18	45	20	40	16	27	11	27	11	28	11	21
High-income countries	NA	NA	NA	NA	55	44	55	40	55	44	47	37	41	33	41	33	49	35	43
WORLD	NA	NA	NA	NA	37	16	45	20	46	22	41	19	29	15	30	18	30	13	22
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	36	8	39	7	41	10	38	6	34	3	34	3	28	6	18
Europe and Central Asia	NA	NA	NA	NA	59	46	57	45	61	48	54	41	42	35	42	35	51	38	46
Latin America and the Caribbean	NA	NA	NA	NA	43	34	46	36	48	37	43	34	30	25	30	25	37	28	33
Middle East and North Africa	NA	NA	NA	NA	13	6	12	5	13	5	10	2	6	2	6	3	9	3	7
South Asia	NA	NA	NA	NA	9	7	18	3	8	3	2	0	0	0	0	0	2	2	2
Sub-Saharan Africa	NA	NA	NA	NA	43	20	50	26	48	29	45	22	38	17	38	17	36	15	27
Low- and middle-income countries	NA	NA	NA	NA	36	15	44	18	45	20	40	16	27	11	27	11	26	10	19
High-income countries	NA	NA	NA	NA	55	44	55	40	55	44	47	37	41	33	41	33	49	35	44
WORLD	NA	NA	NA	NA	37	16	45	20	46	22	41	19	29	15	30	17	27	11	20
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	36	8	39	7	41	10	38	6	34	3	34	3	27	5	17
Europe and Central Asia	NA	NA	NA	NA	59	46	57	45	61	48	54	41	42	35	42	35	48	36	43
Latin America and the Caribbean	NA	NA	NA	NA	43	34	46	36	48	37	43	34	30	25	30	25	31	24	28
Middle East and North Africa	NA	NA	NA	NA	13	6	12	5	13	5	10	2	6	2	6	3	8	3	6
South Asia	NA	NA	NA	NA	9	7	18	3	8	3	2	0	0	0	0	0	5	2	3
Sub-Saharan Africa	NA	NA	NA	NA	43	20	50	26	48	29	45	22	38	17	38	17	31	13	23
Low- and middle-income countries	NA	NA	NA	NA	32	16	40	18	41	20	36	16	26	12	26	12	23	10	17
High-income countries	NA	NA	NA	NA	55	44	55	40	55	44	47	37	41	33	41	33	44	33	39
WORLD	NA	NA	NA	NA	34	17	42	20	43	23	38	20	29	17	30	20	24	12	18
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	2	0	1	0	0	0	0	0	0	0	4	1	5
Europe and Central Asia	NA	NA	NA	NA	1	0	1	0	1	0	0	0	0	0	0	0	3	1	4
Latin America and the Caribbean	NA	NA	NA	NA	1	0	1	0	0	0	0	0	0	0	0	0	2	1	3
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Sub-Saharan Africa	NA	NA	NA	NA	2	1	3	1	2	1	1	0	0	0	0	0	9	2	11
Low- and middle-income countries	NA	NA	NA	NA	5	2	6	1	4	1	2	0	1	0	0	0	18	6	24
High-income countries	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	0	0	3	1	4
WORLD	NA	NA	NA	NA	6	2	7	2	5	2	2	1	1	1	1	0	21	7	28
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	34	7	40	5	12	3	3	0	1	0	0	0	90	15	106
Europe and Central Asia	NA	NA	NA	NA	21	11	25	10	17	6	3	1	1	1	0	0	67	28	95
Latin America and the Caribbean	NA	NA	NA	NA	15	7	15	7	7	3	2	1	1	0	0	0	40	19	58
Middle East and North Africa	NA	NA	NA	NA	3	1	1	0	1	0	0	0	0	0	0	0	6	2	7
South Asia	NA	NA	NA	NA	5	7	4	1	1	1	0	0	0	0	0	0	10	8	18
Sub-Saharan Africa	NA	NA	NA	NA	65	20	63	13	39	14	15	3	4	2	1	1	188	53	241
Low- and middle-income countries	NA	NA	NA	NA	143	53	148	35	77	26	23	7	7	3	2	1	401	125	526
High-income countries	NA	NA	NA	NA	9	5	18	6	13	6	4	2	2	2	1	1	48	22	71
WORLD	NA	NA	NA	NA	152	58	167	41	90	32	27	9	10	5	3	2	449	147	596
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	71	14	69	10	29	6	9	2	4	0	1	0	184	33	217
Europe and Central Asia	NA	NA	NA	NA	33	20	34	17	23	11	6	4	2	2	0	1	98	55	153
Latin America and the Caribbean	NA	NA	NA	NA	52	37	39	26	21	14	6	5	2	2	0	1	120	84	204
Middle East and North Africa	NA	NA	NA	NA	6	2	3	1	2	1	0	0	0	0	0	0	11	4	15
South Asia	NA	NA	NA	NA	20	17	16	2	3	2	0	0	0	0	0	0	39	22	60
Sub-Saharan Africa	NA	NA	NA	NA	98	36	77	20	43	17	16	4	5	2	1	1	240	79	319
Low- and middle-income countries	NA	NA	NA	NA	279	126	238	77	120	51	38	15	12	7	3	2	692	277	968
High-income countries	NA	NA	NA	NA	30	20	36	18	26	16	10	7	6	6	2	3	110	69	179
WORLD	NA	NA	NA	NA	310	145	274	95	146	66	48	22	18	13	5	5	802	346	1,147

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.66

Risk factor: Alcohol use
Disease: Alcohol use disorders

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of YLL (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of DALYs (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	0	0	1	0	3	1	4	1	2	0	1	0	0	0	11	2	12
Europe and Central Asia	0	0	0	0	0	0	2	0	3	1	2	0	1	0	0	0	8	2	10
Latin America and the Caribbean	0	0	0	0	1	0	5	0	6	0	2	0	1	0	0	0	15	1	17
Middle East and North Africa	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	3	0	3
South Asia	0	0	0	0	2	0	3	0	4	0	2	0	1	0	0	0	12	1	13
Sub-Saharan Africa	0	0	0	0	0	0	2	1	2	1	1	0	1	0	0	0	5	2	7
Low- and middle-income countries	0	0	0	0	5	0	16	2	19	3	9	2	4	1	1	0	54	8	62
High-income countries	0	0	0	0	0	0	4	1	8	2	4	1	2	1	1	0	18	4	23
WORLD	0	0	0	0	5	0	20	3	27	5	13	2	6	2	2	0	72	12	84
Attributable YLL (thousands)																			
East Asia and Pacific	0	0	0	0	17	4	73	13	80	14	25	3	7	1	1	0	205	35	239
Europe and Central Asia	1	0	1	0	5	1	44	7	66	15	26	7	5	2	0	0	148	32	180
Latin America and the Caribbean	1	0	0	0	27	2	114	10	111	9	31	4	12	1	2	0	297	27	324
Middle East and North Africa	0	0	0	0	22	1	33	2	12	2	2	0	1	0	0	0	70	5	75
South Asia	0	0	0	0	52	0	79	0	68	8	29	6	5	2	1	1	236	16	252
Sub-Saharan Africa	0	0	0	0	6	2	41	13	31	13	9	4	5	5	1	0	92	37	128
Low- and middle-income countries	2	0	1	0	129	10	385	45	369	61	122	23	35	11	5	1	1,048	152	1,200
High-income countries	0	0	0	0	9	2	90	21	146	38	55	13	18	6	3	1	320	81	402
WORLD	2	0	1	0	138	12	475	67	514	98	177	36	53	17	8	2	1,368	233	1,601
Attributable DALYs (thousands)																			
East Asia and Pacific	0	0	33	17	1,475	217	1,510	190	657	75	100	7	18	2	3	0	3,796	507	4,303
Europe and Central Asia	1	0	14	4	620	110	561	100	294	61	56	13	10	3	1	0	1,557	292	1,849
Latin America and the Caribbean	1	0	30	8	1,271	296	590	129	371	77	72	15	18	3	2	1	2,355	528	2,883
Middle East and North Africa	0	0	0	0	23	1	34	2	13	2	2	0	1	0	0	0	73	5	79
South Asia	0	0	15	6	363	13	533	12	189	10	43	6	9	2	2	1	1,153	49	1,202
Sub-Saharan Africa	0	0	10	6	274	25	197	26	97	19	15	4	6	5	1	0	600	85	685
Low- and middle-income countries	2	0	101	41	4,027	661	3,425	460	1,620	243	289	44	62	15	8	2	9,534	1,467	11,001
High-income countries	0	0	25	8	1,289	341	1,269	312	592	143	107	26	38	12	7	2	3,328	843	4,171
WORLD	2	0	126	49	5,316	1,003	4,694	771	2,213	386	396	70	100	27	15	4	12,862	2,310	15,172

Source: Authors' calculations.

Table 4A.67

Risk factor: Alcohol use
Disease: Hypertensive heart disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	27	10	29	10	26	10	24	7	22	4	22	4	24	5	14
Europe and Central Asia	NA	NA	NA	NA	39	29	38	28	31	26	28	23	25	21	25	21	28	22	24
Latin America and the Caribbean	NA	NA	NA	NA	33	25	35	27	28	21	26	19	21	17	21	17	24	18	21
Middle East and North Africa	NA	NA	NA	NA	9	3	8	3	7	2	5	1	3	1	3	2	4	1	3
South Asia	NA	NA	NA	NA	10	4	14	1	7	1	2	0	0	0	0	0	3	0	2
Sub-Saharan Africa	NA	NA	NA	NA	22	11	26	14	22	13	20	11	17	9	17	9	20	10	14
Low- and middle-income countries	NA	NA	NA	NA	20	11	26	13	22	11	20	10	17	8	18	9	19	9	14
High-income countries	NA	NA	NA	NA	37	29	37	28	30	25	27	22	25	20	25	20	26	20	23
WORLD	NA	NA	NA	NA	21	12	27	14	22	12	20	10	18	9	20	12	20	11	15
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	27	10	29	10	26	10	24	7	22	4	22	4	24	6	16
Europe and Central Asia	NA	NA	NA	NA	39	29	38	28	31	26	28	23	25	21	25	21	29	23	26
Latin America and the Caribbean	NA	NA	NA	NA	33	25	35	27	28	21	26	19	21	17	21	17	26	19	22
Middle East and North Africa	NA	NA	NA	NA	9	3	8	3	7	2	5	1	3	1	3	2	5	2	3
South Asia	NA	NA	NA	NA	10	4	14	1	7	1	2	0	0	0	0	0	5	1	3
Sub-Saharan Africa	NA	NA	NA	NA	22	11	26	14	22	13	20	11	17	9	17	9	20	11	14
Low- and middle-income countries	NA	NA	NA	NA	20	11	26	13	22	11	20	10	17	8	18	8	20	9	15
High-income countries	NA	NA	NA	NA	37	29	37	28	30	25	27	22	25	20	25	20	28	21	24
WORLD	NA	NA	NA	NA	21	12	27	14	22	12	20	10	18	9	19	11	21	11	16
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	27	10	29	10	26	10	24	7	22	4	22	4	24	6	15
Europe and Central Asia	NA	NA	NA	NA	39	29	38	28	31	26	28	23	25	21	25	21	29	22	25
Latin America and the Caribbean	NA	NA	NA	NA	33	25	35	27	28	21	26	19	21	17	21	17	26	19	22
Middle East and North Africa	NA	NA	NA	NA	9	3	8	3	7	2	5	1	3	1	3	2	5	2	3
South Asia	NA	NA	NA	NA	10	4	14	1	7	1	2	0	0	0	0	0	5	1	3
Sub-Saharan Africa	NA	NA	NA	NA	22	11	26	14	22	13	20	11	17	9	17	9	20	11	14
Low- and middle-income countries	NA	NA	NA	NA	20	11	26	13	22	11	20	9	17	8	18	8	20	9	14
High-income countries	NA	NA	NA	NA	37	29	37	28	30	25	27	22	25	20	25	20	28	21	24
WORLD	NA	NA	NA	NA	21	12	27	14	22	12	20	10	18	9	19	12	21	11	15
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	2	0	7	2	11	2	12	2	6	2	39	9	48
Europe and Central Asia	NA	NA	NA	NA	0	0	1	0	3	2	4	3	4	5	2	4	13	14	27
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	0	2	1	2	2	2	2	2	3	10	9	18
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2
South Asia	NA	NA	NA	NA	0	0	0	0	1	0	0	0	0	0	0	0	2	0	2
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	1	1	1	1	1	1	1	1	5	4	9
Low- and middle-income countries	NA	NA	NA	NA	1	0	4	2	14	6	19	8	20	10	11	10	70	36	106
High-income countries	NA	NA	NA	NA	0	0	1	0	2	1	2	1	3	3	5	11	13	16	29
WORLD	NA	NA	NA	NA	1	0	5	2	16	7	21	9	23	14	16	21	82	52	135
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	8	2	47	10	135	40	151	36	106	21	33	10	479	118	597
Europe and Central Asia	NA	NA	NA	NA	3	1	19	8	52	32	52	45	33	49	8	19	168	154	321
Latin America and the Caribbean	NA	NA	NA	NA	4	3	15	12	34	25	30	23	22	22	10	14	115	99	215
Middle East and North Africa	NA	NA	NA	NA	1	0	3	1	8	2	7	2	3	2	1	1	23	7	30
South Asia	NA	NA	NA	NA	4	1	11	1	14	3	3	0	0	0	0	0	33	4	37
Sub-Saharan Africa	NA	NA	NA	NA	2	1	11	7	21	18	16	17	10	13	3	4	63	60	123
Low- and middle-income countries	NA	NA	NA	NA	21	8	106	38	265	120	259	122	175	106	56	48	881	442	1,323
High-income countries	NA	NA	NA	NA	2	1	14	6	34	16	28	18	30	33	20	43	127	117	244
WORLD	NA	NA	NA	NA	23	9	120	44	299	136	286	140	204	139	76	91	1,009	558	1,567
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	8	2	50	11	144	43	162	38	121	23	42	12	527	127	655
Europe and Central Asia	NA	NA	NA	NA	3	2	20	8	54	33	55	47	36	52	10	22	178	165	342
Latin America and the Caribbean	NA	NA	NA	NA	4	3	16	12	36	26	32	25	24	24	13	18	125	108	232
Middle East and North Africa	NA	NA	NA	NA	1	0	3	1	9	2	7	2	4	2	1	1	24	7	31
South Asia	NA	NA	NA	NA	4	1	12	1	15	3	4	0	0	0	0	0	35	5	40
Sub-Saharan Africa	NA	NA	NA	NA	2	1	11	7	22	19	17	18	12	14	4	5	69	65	134
Low- and middle-income countries	NA	NA	NA	NA	22	9	111	40	280	126	277	129	196	115	71	58	958	477	1,434
High-income countries	NA	NA	NA	NA	2	1	14	6	36	17	30	19	34	37	30	64	145	144	289
WORLD	NA	NA	NA	NA	24	9	126	46	316	142	307	148	230	152	101	122	1,103	620	1,723

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.68

Risk factor: Alcohol use
Disease: Ischemic heart disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	2	0	3	0	4	0	2	0	1	0	1	0	2	0	1
Europe and Central Asia	NA	NA	NA	NA	13	2	14	2	13	2	13	2	13	2	13	2	13	2	7
Latin America and the Caribbean	NA	NA	NA	NA	14	2	14	2	15	2	15	2	13	1	12	1	14	1	8
Middle East and North Africa	NA	NA	NA	NA	1	0	1	0	1	0	1	0	0	0	0	0	1	0	0
South Asia	NA	NA	NA	NA	5	0	11	0	13	0	3	0	0	0	0	0	4	0	3
Sub-Saharan Africa	NA	NA	NA	NA	5	0	5	0	5	0	5	0	4	0	4	0	5	0	2
Low- and middle-income countries	NA	NA	NA	NA	5	0	9	0	10	0	6	1	5	1	5	1	7	1	4
High-income	NA	NA	NA	NA	−13	−11	−15	−13	−15	−12	−14	−11	−14	−10	−14	−10	−14	−10	−12
WORLD	NA	NA	NA	NA	4	0	7	0	7	0	4	0	1	−1	−1	−3	3	−1	1
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	2	0	3	0	4	0	2	0	1	0	1	0	2	0	1
Europe and Central Asia	NA	NA	NA	NA	13	2	14	2	13	2	13	2	13	2	13	2	13	2	8
Latin America and the Caribbean	NA	NA	NA	NA	14	2	14	2	15	2	15	2	13	1	12	1	14	2	9
Middle East and North Africa	NA	NA	NA	NA	1	0	1	0	1	0	1	0	0	0	0	0	1	0	0
South Asia	NA	NA	NA	NA	5	0	11	0	13	0	3	0	0	0	0	0	6	0	4
Sub-Saharan Africa	NA	NA	NA	NA	5	0	5	0	5	0	5	0	4	0	4	0	5	0	2
Low- and middle-income countries	NA	NA	NA	NA	5	0	9	0	10	0	6	1	5	1	5	1	7	1	4
High-income countries	NA	NA	NA	NA	−13	−11	−15	−13	−15	−12	−14	−11	−14	−10	−14	−10	−14	−10	−13
WORLD	NA	NA	NA	NA	4	0	7	0	7	0	4	0	1	−1	−1	−2	4	−1	2
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	2	0	3	0	4	0	2	0	1	0	1	0	2	0	1
Europe and Central Asia	NA	NA	NA	NA	13	2	14	2	13	2	13	2	13	2	13	2	13	2	8
Latin America and the Caribbean	NA	NA	NA	NA	14	2	14	2	15	2	15	2	13	1	12	1	14	2	9
Middle East and North Africa	NA	NA	NA	NA	1	0	1	0	1	0	1	0	0	0	0	0	1	0	0
South Asia	NA	NA	NA	NA	5	0	11	0	13	0	3	0	0	0	0	0	6	0	4
Sub-Saharan Africa	NA	NA	NA	NA	5	0	5	0	5	0	5	0	4	0	4	0	5	0	2
Low- and middle-income countries	NA	NA	NA	NA	5	0	9	0	10	0	6	1	5	1	5	1	7	1	4
High-income countries	NA	NA	NA	NA	−13	−11	−15	−13	−15	−12	−14	−11	−14	−10	−14	−10	−14	−10	−13
WORLD	NA	NA	NA	NA	4	0	7	0	7	−1	3	0	1	−1	−1	−2	4	−1	2
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	1	0	4	0	3	0	2	0	1	0	11	0	11
Europe and Central Asia	NA	NA	NA	NA	0	0	5	0	20	1	29	3	35	6	17	7	107	17	124
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	0	6	0	7	1	8	0	5	1	28	2	30
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	NA	NA	NA	NA	1	0	5	0	32	0	9	0	0	0	0	0	46	0	46
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	2	0	3	0	2	0	1	0	8	0	8
Low- and middle-income countries	NA	NA	NA	NA	1	0	13	0	64	1	52	3	46	7	24	8	201	19	220
High-income countries	NA	NA	NA	NA	0	0	−2	0	−13	−3	−18	−6	−32	−16	−35	−41	−101	−66	−167
WORLD	NA	NA	NA	NA	1	0	11	0	51	−1	33	−3	14	−9	−11	−33	100	−46	53
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	5	0	22	0	78	0	40	0	17	0	5	0	166	0	166
Europe and Central Asia	NA	NA	NA	NA	11	0	123	4	376	17	399	39	312	64	77	35	1,299	159	1,458
Latin America and the Caribbean	NA	NA	NA	NA	6	0	30	2	110	7	98	9	68	5	24	3	336	26	362
Middle East and North Africa	NA	NA	NA	NA	1	0	3	0	8	0	7	0	0	0	0	0	17	0	17
South Asia	NA	NA	NA	NA	14	0	127	0	590	0	119	0	0	0	0	0	850	0	850
Sub-Saharan Africa	NA	NA	NA	NA	1	0	8	0	36	0	35	0	21	0	4	0	106	0	106
Low- and middle-income countries	NA	NA	NA	NA	36	1	314	5	1,198	24	698	48	419	69	111	37	2,775	184	2,960
High-income countries	NA	NA	NA	NA	−3	−1	−56	−12	−245	−54	−244	−86	−284	−157	−152	−169	−984	−479	−1,463
WORLD	NA	NA	NA	NA	33	0	258	−6	953	−29	453	−39	135	−89	−41	−131	1,791	−295	1,497
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	7	0	24	0	83	0	42	0	17	0	5	0	178	0	178
Europe and Central Asia	NA	NA	NA	NA	13	1	132	4	391	19	412	41	318	65	78	35	1,344	164	1,508
Latin America and the Caribbean	NA	NA	NA	NA	10	1	34	2	117	8	104	9	70	5	25	3	361	28	388
Middle East and North Africa	NA	NA	NA	NA	1	0	3	0	8	0	7	0	0	0	0	0	19	0	19
South Asia	NA	NA	NA	NA	20	0	145	0	626	0	125	0	0	0	0	0	916	0	916
Sub-Saharan Africa	NA	NA	NA	NA	2	0	9	0	39	0	37	0	21	0	4	0	113	0	113
Low- and middle-income countries	NA	NA	NA	NA	52	1	348	6	1,264	26	727	50	427	70	113	38	2,931	192	3,123
High-income countries	NA	NA	NA	NA	−5	−2	−64	−16	−270	−64	−263	−97	−299	−168	−158	−175	−1,057	−522	−1,579
WORLD	NA	NA	NA	NA	48	−1	284	−9	994	−38	464	−47	128	−98	−45	−137	1,873	−330	1,543

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.69

Risk factor: Alcohol use
Disease: Cerebrovascular disease

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	14	1	17	0	15	0	13	0	11	0	10	0	12	0	6
Europe and Central Asia	NA	NA	NA	NA	19	6	19	7	19	6	15	3	10	2	9	1	13	2	7
Latin America and the Caribbean	NA	NA	NA	NA	15	11	17	14	15	10	13	7	7	3	6	2	10	5	7
Middle East and North Africa	NA	NA	NA	NA	3	1	5	1	3	0	2	0	1	0	1	0	2	0	1
South Asia	NA	NA	NA	NA	3	2	6	0	3	0	0	0	0	0	0	0	1	0	0
Sub-Saharan Africa	NA	NA	NA	NA	13	2	16	3	13	5	10	3	8	1	7	1	10	2	5
Low- and middle-income countries	NA	NA	NA	NA	11	3	15	4	12	2	10	1	8	1	7	1	9	1	5
High-income countries	NA	NA	NA	NA	16	–28	16	–32	14	–27	11	–26	7	–25	6	–28	8	–27	–13
WORLD	NA	NA	NA	NA	11	1	15	1	12	1	10	0	8	–2	7	–7	9	–3	2
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	14	1	17	0	15	0	13	0	11	0	10	0	13	0	7
Europe and Central Asia	NA	NA	NA	NA	19	6	19	7	19	6	15	3	10	2	9	1	14	3	8
Latin America and the Caribbean	NA	NA	NA	NA	15	11	17	14	15	10	13	7	7	3	6	2	12	7	9
Middle East and North Africa	NA	NA	NA	NA	3	1	5	1	3	0	2	0	1	0	1	0	2	0	1
South Asia	NA	NA	NA	NA	3	2	6	0	3	0	0	0	0	0	0	0	1	0	1
Sub-Saharan Africa	NA	NA	NA	NA	13	2	16	3	13	5	10	3	8	1	7	1	11	3	6
Low- and middle-income countries	NA	NA	NA	NA	11	3	15	4	12	2	10	1	8	1	7	1	10	1	6
High-income countries	NA	NA	NA	NA	16	–28	16	–32	14	–27	11	–26	7	–25	6	–28	9	–27	–10
WORLD	NA	NA	NA	NA	11	1	15	1	12	1	10	0	8	–2	7	–6	10	–2	4
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	14	1	14	0	13	0	11	0	10	0	9	0	11	0	6
Europe and Central Asia	NA	NA	NA	NA	19	6	17	5	18	5	14	3	9	2	9	1	13	3	7
Latin America and the Caribbean	NA	NA	NA	NA	15	11	15	11	13	8	11	6	6	3	6	2	10	6	8
Middle East and North Africa	NA	NA	NA	NA	3	1	4	0	3	0	2	0	1	0	1	0	2	0	1
South Asia	NA	NA	NA	NA	3	2	6	0	2	0	0	0	0	0	0	0	1	0	1
Sub-Saharan Africa	NA	NA	NA	NA	13	2	15	3	12	4	10	2	7	1	7	1	10	2	6
Low- and middle-income countries	NA	NA	NA	NA	11	3	13	3	11	2	9	1	7	1	7	1	9	1	5
High-income countries	NA	NA	NA	NA	16	–28	12	–37	10	–32	7	–28	5	–27	5	–29	7	–29	–11
WORLD	NA	NA	NA	NA	11	1	13	–2	11	–1	9	–1	7	–3	6	–7	9	–3	3
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	4	0	21	0	32	0	37	0	18	0	114	0	114
Europe and Central Asia	NA	NA	NA	NA	1	0	2	0	10	2	16	3	15	5	7	4	52	15	67
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	1	3	2	3	2	3	1	2	1	13	7	20
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	NA	NA	NA	NA	0	0	1	0	2	0	1	0	0	0	0	0	3	0	3
Sub-Saharan Africa	NA	NA	NA	NA	0	0	2	0	4	2	4	1	3	1	2	0	14	5	19
Low- and middle-income countries	NA	NA	NA	NA	2	0	10	2	40	6	57	6	58	7	30	5	197	27	224
High-income countries	NA	NA	NA	NA	0	0	1	–1	3	–4	5	–7	7	–25	9	–87	26	–126	–100
WORLD	NA	NA	NA	NA	2	0	11	0	44	2	61	–1	66	–18	39	–82	223	–99	124
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	22	1	99	0	394	0	432	0	330	0	92	0	1,369	1	1,370
Europe and Central Asia	NA	NA	NA	NA	15	3	57	12	195	44	222	45	134	56	34	18	656	178	834
Latin America and the Caribbean	NA	NA	NA	NA	7	5	26	23	60	39	46	24	24	12	10	6	174	108	282
Middle East and North Africa	NA	NA	NA	NA	2	0	3	0	6	1	3	1	2	0	0	0	16	2	18
South Asia	NA	NA	NA	NA	4	1	14	0	36	0	9	0	0	0	0	0	62	1	64
Sub-Saharan Africa	NA	NA	NA	NA	12	1	40	7	66	33	49	21	30	8	8	2	206	73	279
Low- and middle-income countries	NA	NA	NA	NA	63	11	239	42	757	117	761	91	520	76	144	26	2,484	363	2,847
High-income countries	NA	NA	NA	NA	4	–5	23	–34	65	–85	62	–109	64	–252	40	–359	259	–845	–586
WORLD	NA	NA	NA	NA	67	5	262	8	822	32	823	–18	584	–177	184	–333	2,743	–482	2,261
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	22	1	119	0	462	0	497	0	357	0	96	0	1,553	1	1,553
Europe and Central Asia	NA	NA	NA	NA	15	3	65	13	225	48	256	48	148	58	36	17	745	188	932
Latin America and the Caribbean	NA	NA	NA	NA	7	5	32	26	73	43	54	26	26	12	10	6	203	119	322
Middle East and North Africa	NA	NA	NA	NA	2	0	3	0	7	1	4	1	2	0	0	0	18	2	20
South Asia	NA	NA	NA	NA	4	1	16	0	39	0	9	0	0	0	0	0	67	1	68
Sub-Saharan Africa	NA	NA	NA	NA	12	1	42	7	71	34	53	22	31	8	8	2	217	75	292
Low- and middle-income countries	NA	NA	NA	NA	63	11	276	47	875	126	873	97	565	79	150	26	2,802	386	3,188
High-income countries	NA	NA	NA	NA	4	–5	33	–79	95	–204	82	–228	75	–411	43	–466	331	–1,394	–1,063
WORLD	NA	NA	NA	NA	67	5	309	–32	970	–78	955	–131	639	–332	194	–440	3,134	–1,008	2,126

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.70

Risk factor: Alcohol use
Disease: Cirrhosis of the liver

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	45	10	49	9	48	9	45	6	40	3	40	3	45	6	31
Europe and Central Asia	NA	NA	NA	NA	69	55	67	54	70	55	62	47	50	40	50	41	64	48	58
Latin America and the Caribbean	NA	NA	NA	NA	56	46	59	49	57	45	51	42	34	30	34	30	52	39	49
Middle East and North Africa	NA	NA	NA	NA	17	8	16	7	16	7	12	3	8	2	8	3	12	4	8
South Asia	NA	NA	NA	NA	12	11	23	4	8	4	2	0	0	0	0	0	7	3	5
Sub-Saharan Africa	NA	NA	NA	NA	50	25	58	33	56	35	53	27	46	20	46	20	53	28	44
Low- and middle-income countries	NA	NA	NA	NA	34	15	49	21	43	22	37	19	29	13	26	11	38	16	30
High-income countries	NA	NA	NA	NA	66	53	65	49	64	51	56	43	49	39	49	39	58	44	54
WORLD	NA	NA	NA	NA	34	15	52	24	46	26	41	22	33	17	31	18	41	20	34
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	45	10	49	9	48	9	45	6	40	3	40	3	45	7	32
Europe and Central Asia	NA	NA	NA	NA	69	55	67	54	70	55	62	47	50	40	50	41	66	50	60
Latin America and the Caribbean	NA	NA	NA	NA	56	46	59	49	57	45	51	42	34	30	34	30	54	42	52
Middle East and North Africa	NA	NA	NA	NA	17	8	16	7	16	7	12	3	8	2	8	3	12	4	9
South Asia	NA	NA	NA	NA	12	11	23	4	8	4	2	0	0	0	0	0	8	3	6
Sub-Saharan Africa	NA	NA	NA	NA	50	25	58	33	56	35	53	27	46	20	46	20	54	29	45
Low- and middle-income countries	NA	NA	NA	NA	34	15	49	21	43	22	37	19	29	13	26	11	39	16	30
High-income countries	NA	NA	NA	NA	66	53	65	49	64	51	56	43	49	39	49	39	60	46	56
WORLD	NA	NA	NA	NA	34	15	52	24	46	26	41	22	33	17	30	17	42	19	34
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	45	10	49	9	48	9	45	6	40	3	40	3	45	7	32
Europe and Central Asia	NA	NA	NA	NA	69	55	67	54	70	55	62	47	50	40	50	41	66	50	60
Latin America and the Caribbean	NA	NA	NA	NA	56	46	59	49	57	45	51	42	34	30	34	30	55	42	52
Middle East and North Africa	NA	NA	NA	NA	17	8	16	7	16	7	12	3	8	2	8	3	12	4	9
South Asia	NA	NA	NA	NA	12	11	23	4	8	4	2	0	0	0	0	0	8	3	6
Sub-Saharan Africa	NA	NA	NA	NA	50	25	58	33	56	35	53	27	46	20	46	20	54	29	44
Low- and middle-income countries	NA	NA	NA	NA	36	15	49	21	43	22	37	19	29	13	27	11	39	16	30
High-income countries	NA	NA	NA	NA	66	53	65	49	64	51	56	43	49	39	49	39	60	46	56
WORLD	NA	NA	NA	NA	36	16	52	25	46	26	41	22	33	17	31	17	42	19	34
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	2	0	9	1	21	1	13	1	8	0	3	0	56	4	60
Europe and Central Asia	NA	NA	NA	NA	1	0	8	2	17	7	11	5	4	3	1	1	42	19	60
Latin America and the Caribbean	NA	NA	NA	NA	1	0	7	1	12	2	6	2	3	1	1	1	29	7	36
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	1	0	1	0	0	0	0	0	2	1	3
South Asia	NA	NA	NA	NA	1	1	3	0	3	1	0	0	0	0	0	0	7	2	9
Sub-Saharan Africa	NA	NA	NA	NA	1	0	3	1	7	2	5	2	3	1	1	0	20	6	26
Low- and middle-income countries	NA	NA	NA	NA	6	2	31	5	61	13	35	9	19	6	5	2	157	38	195
High-income countries	NA	NA	NA	NA	0	0	6	2	19	5	12	4	7	4	2	2	47	16	63
WORLD	NA	NA	NA	NA	6	2	37	7	80	18	47	13	26	10	8	5	204	55	258
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	50	6	224	15	406	30	173	13	76	5	14	1	943	71	1,014
Europe and Central Asia	NA	NA	NA	NA	32	13	184	58	328	133	145	76	39	35	4	6	732	320	1,052
Latin America and the Caribbean	NA	NA	NA	NA	23	5	168	24	230	44	83	27	23	12	5	3	530	116	646
Middle East and North Africa	NA	NA	NA	NA	3	1	3	1	18	6	10	2	3	1	1	0	39	11	50
South Asia	NA	NA	NA	NA	24	30	69	7	51	13	6	0	0	0	0	0	151	51	202
Sub-Saharan Africa	NA	NA	NA	NA	19	6	81	16	136	46	62	25	31	10	4	1	334	104	438
Low- and middle-income countries	NA	NA	NA	NA	151	60	730	122	1,168	271	480	143	172	62	27	12	2,729	672	3,401
High-income countries	NA	NA	NA	NA	5	2	151	40	362	99	163	55	62	40	11	11	755	247	1,002
WORLD	NA	NA	NA	NA	156	62	881	163	1,531	370	642	198	235	102	38	24	3,483	919	4,403
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	73	8	282	22	476	39	196	16	87	6	16	2	1,131	93	1,224
Europe and Central Asia	NA	NA	NA	NA	45	18	226	80	375	162	160	87	44	40	4	7	853	394	1,247
Latin America and the Caribbean	NA	NA	NA	NA	37	7	208	34	265	55	92	32	26	14	6	4	634	147	781
Middle East and North Africa	NA	NA	NA	NA	4	1	4	2	21	7	11	2	4	1	1	0	46	14	60
South Asia	NA	NA	NA	NA	30	34	84	9	59	15	7	0	0	0	0	0	180	59	240
Sub-Saharan Africa	NA	NA	NA	NA	32	9	101	23	156	56	74	32	36	12	5	2	404	133	537
Low- and middle-income countries	NA	NA	NA	NA	221	78	905	170	1,352	335	541	170	197	73	32	15	3,248	841	4,089
High-income countries	NA	NA	NA	NA	9	4	194	57	421	121	182	65	70	48	13	14	889	310	1,199
WORLD	NA	NA	NA	NA	230	82	1,099	227	1,773	456	723	235	267	121	45	29	4,137	1,150	5,287

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.71

Risk factor: Alcohol use
Disease: Road traffic accidents

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	9	5	9	6	27	7	30	10	13	8	11	6	11	6	11	6	22	8	18
Europe and Central Asia	23	15	26	18	66	23	70	32	47	26	40	19	39	19	36	19	57	23	48
Latin America and the Caribbean	16	11	17	11	54	13	58	19	34	15	28	11	28	11	28	11	45	14	39
Middle East and North Africa	3	2	3	2	8	3	10	4	4	3	3	2	3	2	3	1	6	3	5
South Asia	4	2	4	3	20	3	23	5	10	4	8	3	8	3	8	3	16	3	12
Sub-Saharan Africa	12	8	13	8	38	10	42	14	22	11	18	8	17	8	17	7	25	9	20
Low- and middle-income countries	9	5	10	7	31	8	35	11	18	9	15	7	13	7	13	7	24	8	20
High-income countries	19	12	19	12	40	15	43	20	22	16	18	12	19	13	19	13	32	15	27
WORLD	10	5	11	7	32	9	35	12	18	9	15	8	14	8	14	8	25	9	21
PAF of YLL (%)																			
East Asia and Pacific	9	5	9	6	27	7	30	10	13	8	11	6	11	6	11	6	23	8	19
Europe and Central Asia	23	15	26	18	66	23	70	32	47	26	40	19	39	19	36	19	59	24	50
Latin America and the Caribbean	16	11	17	11	54	13	58	19	34	15	28	11	28	11	28	11	47	14	40
Middle East and North Africa	3	2	3	2	8	3	10	4	4	3	3	2	3	2	3	1	6	3	5
South Asia	4	2	4	3	20	3	23	5	10	4	8	3	8	3	8	3	16	3	13
Sub-Saharan Africa	12	8	13	8	38	10	42	14	22	11	18	8	17	8	17	7	25	9	20
Low- and middle-income countries	9	5	10	7	31	8	35	11	18	9	15	7	13	7	13	7	25	8	21
High-income countries	19	12	19	12	40	15	43	20	22	16	18	12	19	13	19	13	35	16	29
WORLD	10	5	11	7	32	9	35	12	18	9	15	8	14	8	14	8	26	9	21
PAF of DALYs (%)																			
East Asia and Pacific	8	4	8	5	25	6	28	9	13	8	11	6	11	6	11	6	22	7	17
Europe and Central Asia	21	14	23	15	62	21	66	29	45	24	39	18	38	18	35	19	56	22	47
Latin America and the Caribbean	14	9	15	9	50	12	54	17	32	14	27	10	27	10	27	11	43	12	36
Middle East and North Africa	3	2	3	2	7	3	9	4	4	3	3	2	3	2	3	1	6	2	5
South Asia	3	2	4	2	18	3	22	4	10	4	8	3	8	3	8	3	15	3	11
Sub-Saharan Africa	11	7	12	8	35	9	40	13	21	10	17	8	16	8	16	7	24	9	19
Low- and middle-income countries	8	5	9	6	29	7	33	11	17	8	14	7	13	7	13	6	23	7	19
High-income countries	18	11	17	11	38	14	41	18	21	15	18	12	18	12	19	13	33	14	28
WORLD	8	5	9	6	30	8	33	11	17	9	15	7	14	8	14	8	24	8	19
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	1	0	23	1	21	3	7	2	2	1	1	0	0	0	57	8	64
Europe and Central Asia	0	0	1	0	12	1	13	1	6	1	2	1	1	1	0	0	35	5	40
Latin America and the Caribbean	0	0	1	0	13	1	11	1	4	0	1	0	1	0	0	0	31	3	34
Middle East and North Africa	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	4	1	5
South Asia	0	0	1	0	9	0	12	0	4	1	1	0	1	0	0	0	27	2	30
Sub-Saharan Africa	1	1	5	2	10	1	12	1	4	1	1	0	1	0	0	0	35	6	40
Low- and middle-income countries	3	1	9	3	68	4	70	7	25	5	8	2	5	1	2	1	190	24	213
High-income countries	0	0	0	0	11	1	9	1	3	1	1	0	1	1	1	0	28	5	33
WORLD	3	1	9	3	79	6	79	8	28	6	10	2	6	2	2	1	217	29	246
Attributable YLL (thousands)																			
East Asia and Pacific	12	5	34	13	628	32	521	68	129	39	33	8	13	4	2	1	1,372	172	1,544
Europe and Central Asia	5	3	19	7	329	31	303	32	121	21	31	8	11	5	1	1	820	109	929
Latin America and the Caribbean	8	4	19	7	342	18	267	18	81	9	18	3	8	2	2	0	745	60	805
Middle East and North Africa	5	2	7	2	43	4	35	4	9	2	3	1	1	1	0	0	104	16	119
South Asia	5	4	16	8	242	9	296	12	69	12	12	2	7	1	2	0	650	49	698
Sub-Saharan Africa	42	17	156	58	278	30	281	29	76	15	18	4	6	2	1	0	859	155	1,013
Low- and middle-income countries	76	34	251	95	1,863	124	1,703	163	487	98	116	27	45	15	8	3	4,549	559	5,108
High-income countries	6	3	13	6	312	36	210	31	65	19	19	7	12	7	4	2	639	109	748
WORLD	82	37	264	101	2,175	159	1,913	193	552	116	135	34	57	22	12	5	5,188	668	5,856
Attributable DALYs (thousands)																			
East Asia and Pacific	16	8	44	20	715	43	587	81	141	44	35	9	13	5	2	1	1,554	211	1,765
Europe and Central Asia	6	4	24	10	377	40	338	40	131	25	32	9	11	6	1	1	920	134	1,055
Latin America and the Caribbean	11	6	26	10	408	25	310	23	91	11	20	3	8	2	2	0	876	80	956
Middle East and North Africa	5	2	9	3	54	5	42	5	11	2	3	1	2	1	0	0	126	20	145
South Asia	8	7	25	14	296	12	330	15	77	14	13	3	7	2	2	0	757	67	824
Sub-Saharan Africa	48	23	175	72	336	35	320	34	88	17	20	5	6	2	1	0	993	187	1,181
Low- and middle-income countries	94	49	302	130	2,186	160	1,927	198	539	113	122	29	47	16	8	3	5,226	699	5,924
High-income countries	7	3	16	7	350	43	233	36	71	22	20	8	12	7	4	2	712	128	840
WORLD	101	53	318	138	2,536	203	2,160	234	610	134	142	37	60	23	12	6	5,938	827	6,765

Source: Authors' calculations.

Table 4A.72

Risk factor: Alcohol use
Disease: Poisonings

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	20	14	10	9	10	9	10	8	5	4	5	4	10	7	9
Europe and Central Asia	NA	NA	NA	NA	63	40	44	29	44	29	44	29	26	15	25	14	46	28	41
Latin America and the Caribbean	NA	NA	NA	NA	44	23	25	15	24	16	25	15	15	7	15	7	26	11	22
Middle East and North Africa	NA	NA	NA	NA	5	4	3	3	2	2	3	2	1	1	1	1	3	2	3
South Asia	NA	NA	NA	NA	16	7	8	4	8	4	8	4	4	2	4	2	8	4	6
Sub-Saharan Africa	NA	NA	NA	NA	27	17	17	11	16	11	16	10	*	4	*	0	12	8	11
Low- and middle-income countries	NA	NA	NA	NA	34	16	28	13	25	14	24	10	10	5	7	4	24	10	19
High-income countries	NA	NA	NA	NA	32	25	18	16	17	16	17	16	9	8	10	9	20	16	19
WORLD	NA	NA	NA	NA	34	17	27	13	25	14	23	10	10	5	7	5	24	11	19
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	20	14	10	9	10	9	10	8	5	4	5	4	11	7	9
Europe and Central Asia	NA	NA	NA	NA	63	40	44	29	44	29	44	29	26	15	25	14	46	29	42
Latin America and the Caribbean	NA	NA	NA	NA	44	23	25	15	24	16	25	15	15	7	15	7	27	11	22
Middle East and North Africa	NA	NA	NA	NA	5	4	3	3	2	2	3	2	1	1	1	1	3	2	3
South Asia	NA	NA	NA	NA	16	7	8	4	8	4	8	4	4	2	4	2	9	4	6
Sub-Saharan Africa	NA	NA	NA	NA	27	17	17	11	16	11	16	10	*	4	*	0	12	8	10
Low- and middle-income countries	NA	NA	NA	NA	34	16	28	13	25	14	24	10	10	5	7	4	24	10	19
High-income countries	NA	NA	NA	NA	32	25	18	16	17	16	17	16	9	8	10	9	21	17	20
WORLD	NA	NA	NA	NA	34	17	26	13	25	14	23	10	10	5	7	5	24	11	19
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	20	14	10	9	10	9	10	8	5	4	5	4	10	7	9
Europe and Central Asia	NA	NA	NA	NA	63	40	44	29	44	28	44	29	26	15	25	14	46	28	42
Latin America and the Caribbean	NA	NA	NA	NA	41	19	24	12	23	13	24	13	14	7	14	7	25	10	20
Middle East and North Africa	NA	NA	NA	NA	5	4	3	3	2	2	3	2	1	1	1	1	3	2	3
South Asia	NA	NA	NA	NA	16	7	8	4	8	4	8	4	4	2	4	2	9	4	6
Sub-Saharan Africa	NA	NA	NA	NA	27	17	17	11	16	11	16	10	2	4	2	0	11	8	10
Low- and middle-income countries	NA	NA	NA	NA	34	16	27	13	25	14	23	10	10	5	7	4	24	10	19
High-income countries	NA	NA	NA	NA	31	23	18	15	16	15	16	14	9	8	10	9	21	16	19
WORLD	NA	NA	NA	NA	34	16	26	13	25	14	23	10	10	5	7	5	24	11	19
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	2	1	1	1	1	1	1	0	0	0	0	0	5	2	7
Europe and Central Asia	NA	NA	NA	NA	7	1	12	2	13	3	5	1	1	0	0	0	37	7	44
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	1	0	1	0	1	0	1	0	0	0	0	0	4	2	6
Sub-Saharan Africa	NA	NA	NA	NA	1	1	1	0	0	0	0	0	0	0	0	0	3	1	4
Low- and middle-income countries	NA	NA	NA	NA	12	3	14	3	16	4	6	2	1	1	0	0	50	12	62
High-income countries	NA	NA	NA	NA	1	0	1	0	1	0	0	0	0	0	0	0	3	1	4
WORLD	NA	NA	NA	NA	13	3	16	3	17	4	6	2	1	1	0	0	53	13	66
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	46	17	27	15	25	12	10	5	2	1	0	0	111	51	162
Europe and Central Asia	NA	NA	NA	NA	200	28	275	39	258	52	65	19	6	3	0	0	804	142	946
Latin America and the Caribbean	NA	NA	NA	NA	7	1	4	1	2	0	1	0	0	0	0	0	14	2	16
Middle East and North Africa	NA	NA	NA	NA	2	1	1	0	1	0	0	0	0	0	0	0	3	1	5
South Asia	NA	NA	NA	NA	35	10	14	5	26	7	7	8	1	1	0	0	85	32	116
Sub-Saharan Africa	NA	NA	NA	NA	33	15	24	7	8	3	2	3	0	0	0	0	68	28	97
Low- and middle-income countries	NA	NA	NA	NA	323	73	346	68	319	75	86	34	9	5	1	1	1,085	257	1,342
High-income countries	NA	NA	NA	NA	27	6	29	9	12	5	2	1	0	0	0	0	70	22	92
WORLD	NA	NA	NA	NA	351	79	374	78	331	80	88	35	9	6	1	1	1,155	279	1,434
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	46	17	27	16	25	12	10	5	2	1	0	0	112	52	164
Europe and Central Asia	NA	NA	NA	NA	200	29	275	40	259	53	65	19	6	3	0	0	807	143	950
Latin America and the Caribbean	NA	NA	NA	NA	8	2	4	1	2	0	1	0	0	0	0	0	14	3	17
Middle East and North Africa	NA	NA	NA	NA	2	1	1	0	1	0	0	0	0	0	0	0	3	1	5
South Asia	NA	NA	NA	NA	36	10	15	6	26	8	7	8	1	1	0	0	85	32	117
Sub-Saharan Africa	NA	NA	NA	NA	34	15	25	7	8	3	2	3	0	0	0	0	69	29	97
Low- and middle-income countries	NA	NA	NA	NA	325	74	347	69	322	76	87	34	9	5	1	1	1,090	260	1,350
High-income countries	NA	NA	NA	NA	28	6	29	10	12	6	2	1	0	0	0	0	71	23	94
WORLD	NA	NA	NA	NA	353	80	375	79	334	82	88	35	9	6	1	1	1,161	283	1,444

Source: Authors' calculations.

Note: NA = not applicable.

*The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.73

Risk factor: Alcohol use
Disease: Falls

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	15	8	15	8	15	8	11	5	8	2	8	2	12	4	9
Europe and Central Asia	NA	NA	NA	NA	51	26	52	25	51	25	42	17	31	7	28	7	44	12	34
Latin America and the Caribbean	NA	NA	NA	NA	36	14	37	15	37	15	30	10	22	4	22	4	29	6	22
Middle East and North Africa	NA	NA	NA	NA	3	2	4	3	4	2	3	1	2	1	2	1	3	1	2
South Asia	NA	NA	NA	NA	12	4	12	4	12	4	9	2	6	1	6	1	8	2	5
Sub-Saharan Africa	NA	NA	NA	NA	21	8	23	10	23	10	18	6	13	3	12	3	13	4	10
Low- and middle-income countries	NA	NA	NA	NA	18	7	21	9	22	8	16	5	10	2	10	3	15	4	11
High-income countries	NA	NA	NA	NA	23	15	25	16	25	17	20	11	15	5	15	5	18	6	12
WORLD	NA	NA	NA	NA	18	8	22	9	22	9	16	6	11	3	12	4	15	4	11
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	15	8	15	8	15	8	11	5	8	2	8	2	12	5	10
Europe and Central Asia	NA	NA	NA	NA	51	26	52	25	51	25	42	17	31	7	28	7	46	16	39
Latin America and the Caribbean	NA	NA	NA	NA	36	14	37	15	37	15	30	10	22	4	22	4	30	7	25
Middle East and North Africa	NA	NA	NA	NA	3	2	4	3	4	2	3	1	2	1	2	1	2	1	2
South Asia	NA	NA	NA	NA	12	4	12	4	12	4	9	2	6	1	6	1	8	2	6
Sub-Saharan Africa	NA	NA	NA	NA	21	8	23	10	23	10	18	6	13	3	12	3	11	3	9
Low- and middle-income countries	NA	NA	NA	NA	18	7	21	9	22	8	16	5	10	2	9	3	15	4	12
High-income countries	NA	NA	NA	NA	23	15	25	16	25	17	20	11	15	5	15	5	20	8	15
WORLD	NA	NA	NA	NA	18	8	22	9	23	9	17	6	11	3	11	4	16	5	12
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	10	4	12	6	13	6	10	4	7	2	7	2	8	3	6
Europe and Central Asia	NA	NA	NA	NA	30	14	39	17	43	19	35	12	23	5	22	5	29	10	24
Latin America and the Caribbean	NA	NA	NA	NA	21	7	26	8	30	10	24	6	17	3	18	3	17	4	13
Middle East and North Africa	NA	NA	NA	NA	2	1	3	1	3	1	2	1	2	1	2	0	1	0	1
South Asia	NA	NA	NA	NA	7	3	9	3	10	3	8	2	5	1	6	1	5	1	3
Sub-Saharan Africa	NA	NA	NA	NA	14	5	18	6	20	7	15	5	11	2	9	2	7	2	5
Low- and middle-income countries	NA	NA	NA	NA	12	4	16	6	19	6	14	4	9	2	9	2	10	2	7
High-income countries	NA	NA	NA	NA	13	8	17	9	20	11	16	8	12	3	13	4	14	5	10
WORLD	NA	NA	NA	NA	12	4	16	6	19	7	14	5	9	2	10	3	10	3	7
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	2	0	2	0	2	0	1	0	1	0	1	0	9	2	11
Europe and Central Asia	NA	NA	NA	NA	1	0	3	0	4	0	2	0	1	0	0	0	11	1	12
Latin America and the Caribbean	NA	NA	NA	NA	1	0	1	0	1	0	0	0	0	0	0	0	3	0	3
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	1	0	1	0	1	0	1	0	1	0	1	0	5	1	6
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	1	0	0	0	0	0	0	0	2	0	2
Low- and middle-income countries	NA	NA	NA	NA	5	1	7	1	8	1	4	1	3	1	2	1	30	5	34
High-income countries	NA	NA	NA	NA	0	0	1	0	1	0	1	0	1	0	2	1	6	2	8
WORLD	NA	NA	NA	NA	5	1	8	1	10	1	5	1	4	1	4	2	36	7	43
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	51	7	51	8	47	10	15	4	7	2	3	1	174	32	206
Europe and Central Asia	NA	NA	NA	NA	36	4	66	6	69	7	22	3	7	2	2	1	203	24	226
Latin America and the Caribbean	NA	NA	NA	NA	14	1	17	1	14	1	5	1	2	0	1	0	55	4	58
Middle East and North Africa	NA	NA	NA	NA	1	0	1	0	1	0	0	0	0	0	0	0	4	1	5
South Asia	NA	NA	NA	NA	27	4	24	3	20	5	11	2	8	1	3	0	93	16	109
Sub-Saharan Africa	NA	NA	NA	NA	9	1	9	1	11	1	3	1	2	0	0	0	34	4	38
Low- and middle-income countries	NA	NA	NA	NA	139	18	168	18	163	24	57	10	26	6	10	4	563	80	643
High-income countries	NA	NA	NA	NA	9	1	18	2	24	5	12	3	9	3	8	5	80	19	99
WORLD	NA	NA	NA	NA	148	19	186	21	188	29	68	13	36	9	18	9	643	99	742
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	85	16	67	14	53	13	17	5	8	3	3	2	234	52	286
Europe and Central Asia	NA	NA	NA	NA	79	11	88	9	81	9	27	4	10	3	3	2	287	38	325
Latin America and the Caribbean	NA	NA	NA	NA	32	3	25	2	18	2	6	1	3	1	2	1	86	8	94
Middle East and North Africa	NA	NA	NA	NA	4	1	2	0	1	0	0	0	0	0	0	0	8	2	10
South Asia	NA	NA	NA	NA	48	10	32	5	24	6	12	2	8	1	3	0	127	25	152
Sub-Saharan Africa	NA	NA	NA	NA	15	2	12	1	12	2	4	1	2	0	0	0	45	6	52
Low- and middle-income countries	NA	NA	NA	NA	263	42	226	32	189	32	66	13	31	8	11	4	787	132	919
High-income countries	NA	NA	NA	NA	23	5	28	5	31	7	15	5	12	5	9	6	117	33	150
WORLD	NA	NA	NA	NA	286	47	254	37	220	39	81	18	43	12	21	11	904	165	1,069

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.74

Risk factor: Alcohol use
Disease: Drownings

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	18	15	22	19	21	19	17	15	17	15	17	15	10	8	9
Europe and Central Asia	NA	NA	NA	NA	57	40	64	48	64	47	56	40	54	39	53	40	54	33	50
Latin America and the Caribbean	NA	NA	NA	NA	42	25	48	30	48	30	40	23	39	23	39	24	34	11	30
Middle East and North Africa	NA	NA	NA	NA	5	5	8	9	9	8	8	7	7	4	5	2	4	2	4
South Asia	NA	NA	NA	NA	13	7	17	9	17	9	13	7	14	7	14	7	10	4	8
Sub-Saharan Africa	NA	NA	NA	NA	27	18	33	23	33	23	27	18	27	16	24	3	20	10	18
Low- and middle-income countries	NA	NA	NA	NA	23	14	34	19	34	20	27	15	22	14	18	14	18	8	15
High-income countries	NA	NA	NA	NA	26	23	33	29	33	31	27	25	27	25	26	24	25	21	24
WORLD	NA	NA	NA	NA	23	14	34	19	34	20	27	16	23	16	20	17	18	9	15
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	18	15	22	19	21	19	17	15	17	15	17	15	8	6	8
Europe and Central Asia	NA	NA	NA	NA	57	40	64	48	64	47	56	40	54	39	53	40	52	31	48
Latin America and the Caribbean	NA	NA	NA	NA	42	25	48	30	48	30	40	23	39	23	39	24	32	10	28
Middle East and North Africa	NA	NA	NA	NA	5	5	8	9	9	8	8	7	7	4	5	2	3	2	3
South Asia	NA	NA	NA	NA	13	7	17	9	17	9	13	7	14	7	14	7	9	4	7
Sub-Saharan Africa	NA	NA	NA	NA	27	18	33	23	33	23	27	18	27	16	24	3	18	9	16
Low- and middle-income countries	NA	NA	NA	NA	23	14	34	19	34	20	27	15	22	14	18	14	16	7	13
High-income countries	NA	NA	NA	NA	26	23	33	29	33	31	27	25	27	25	26	24	24	18	22
WORLD	NA	NA	NA	NA	23	14	34	19	34	20	27	16	23	16	20	16	17	7	14
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	18	15	22	19	21	19	17	15	17	15	17	15	8	6	8
Europe and Central Asia	NA	NA	NA	NA	57	40	64	48	64	47	56	40	54	39	53	40	52	30	48
Latin America and the Caribbean	NA	NA	NA	NA	42	24	48	30	48	30	40	22	39	22	39	24	32	10	28
Middle East and North Africa	NA	NA	NA	NA	5	5	8	9	9	8	8	7	7	4	5	2	3	2	3
South Asia	NA	NA	NA	NA	13	7	17	9	17	9	13	7	14	7	14	7	9	4	7
Sub-Saharan Africa	NA	NA	NA	NA	27	18	33	23	33	23	27	18	25	15	24	3	18	9	16
Low- and middle-income countries	NA	NA	NA	NA	23	14	34	19	34	20	27	15	22	14	18	14	16	7	13
High-income countries	NA	NA	NA	NA	26	22	33	29	33	31	27	24	27	25	26	24	24	18	22
WORLD	NA	NA	NA	NA	23	14	34	19	34	20	27	16	23	16	20	16	17	7	14
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	4	1	2	1	1	1	1	0	0	0	0	0	9	4	13
Europe and Central Asia	NA	NA	NA	NA	4	0	6	1	4	1	1	0	0	0	0	0	15	2	18
Latin America and the Caribbean	NA	NA	NA	NA	2	0	1	0	1	0	0	0	0	0	0	0	5	0	6
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	2	1	2	0	1	0	0	0	0	0	0	0	6	2	7
Sub-Saharan Africa	NA	NA	NA	NA	3	1	4	0	3	0	0	0	0	0	0	0	10	1	12
Low- and middle-income countries	NA	NA	NA	NA	15	3	15	2	10	2	3	1	2	1	1	1	46	10	55
High-income countries	NA	NA	NA	NA	1	0	1	0	1	0	0	0	0	0	0	0	3	1	4
WORLD	NA	NA	NA	NA	16	3	15	3	11	2	3	1	2	1	1	1	48	11	59
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	110	26	49	30	29	17	9	6	4	5	1	2	202	86	288
Europe and Central Asia	NA	NA	NA	NA	105	13	134	14	80	11	20	4	5	2	0	1	344	44	388
Latin America and the Caribbean	NA	NA	NA	NA	67	5	36	2	16	1	4	0	1	0	0	0	125	9	134
Middle East and North Africa	NA	NA	NA	NA	6	1	2	1	1	0	0	0	0	0	0	0	10	2	12
South Asia	NA	NA	NA	NA	59	16	37	9	20	5	5	2	3	2	1	0	124	34	158
Sub-Saharan Africa	NA	NA	NA	NA	79	20	101	6	51	8	4	2	0	0	0	0	234	36	271
Low- and middle-income countries	NA	NA	NA	NA	426	80	358	62	197	43	41	15	14	9	3	3	1,040	211	1,251
High-income countries	NA	NA	NA	NA	15	2	15	3	13	3	5	2	3	3	1	2	52	14	66
WORLD	NA	NA	NA	NA	441	82	373	64	210	46	46	17	17	12	4	5	1,092	226	1,317
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	110	26	49	30	29	17	9	6	4	5	1	2	203	86	289
Europe and Central Asia	NA	NA	NA	NA	106	13	134	14	80	11	20	4	5	2	0	1	344	44	389
Latin America and the Caribbean	NA	NA	NA	NA	67	5	36	2	16	1	4	0	1	0	0	0	125	9	134
Middle East and North Africa	NA	NA	NA	NA	6	1	2	1	1	0	0	0	0	0	0	0	10	2	12
South Asia	NA	NA	NA	NA	59	16	37	9	20	5	5	2	3	2	1	0	124	34	158
Sub-Saharan Africa	NA	NA	NA	NA	79	20	101	6	51	8	4	2	0	0	0	0	235	37	271
Low- and middle-income countries	NA	NA	NA	NA	427	81	359	62	197	43	41	15	14	9	3	3	1,041	212	1,253
High-income countries	NA	NA	NA	NA	15	2	15	3	13	3	5	2	3	3	1	2	52	15	67
WORLD	NA	NA	NA	NA	442	82	374	65	210	46	46	17	17	12	4	5	1,093	227	1,320

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.75

Risk factor: Alcohol use
Disease: Other unintentional injuries

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	10	3	10	3	20	13	20	13	17	10	16	11	16	11	16	11	17	9	14
Europe and Central Asia	22	7	23	7	57	34	58	36	53	31	53	32	50	31	47	29	53	30	48
Latin America and the Caribbean	15	5	16	5	45	22	45	23	38	19	38	19	38	19	38	19	37	16	32
Middle East and North Africa	3	1	3	1	6	4	6	5	5	3	5	4	5	3	4	3	5	3	4
South Asia	4	1	4	1	16	7	16	7	13	5	13	5	13	5	13	5	13	5	9
Sub-Saharan Africa	13	4	13	4	30	17	32	18	27	14	25	14	25	12	23	11	25	10	21
Low- and middle-income countries	10	3	9	2	28	11	31	14	29	12	28	13	23	11	22	12	25	9	20
High-income countries	17	5	17	5	31	25	31	25	27	22	27	22	28	22	27	22	28	21	25
WORLD	11	3	9	2	28	12	31	15	29	13	28	14	25	13	24	16	25	10	20
PAF of YLL (%)																			
East Asia and Pacific	10	3	10	3	20	13	20	13	17	10	16	11	16	11	16	11	17	8	14
Europe and Central Asia	22	7	23	7	57	34	58	36	53	31	53	32	50	31	47	29	53	29	48
Latin America and the Caribbean	15	5	16	5	45	22	45	23	38	19	38	19	38	19	38	19	37	14	31
Middle East and North Africa	3	1	3	1	6	4	6	5	5	3	5	4	5	3	4	3	5	2	4
South Asia	4	1	4	1	16	7	16	7	13	5	13	5	13	5	13	5	12	4	9
Sub-Saharan Africa	13	4	13	4	30	17	32	18	27	14	25	14	25	12	23	11	25	9	20
Low- and middle-income countries	10	3	9	2	28	11	30	14	29	12	28	13	24	11	21	11	24	8	19
High-income countries	17	5	17	5	31	25	31	25	27	22	27	22	28	22	27	22	28	20	25
WORLD	11	3	9	2	28	12	30	15	29	13	28	14	25	13	24	15	25	9	19
PAF of DALYs (%)																			
East Asia and Pacific	8	2	6	1	15	8	16	9	13	7	12	8	13	9	14	10	12	6	10
Europe and Central Asia	16	6	13	4	43	23	49	28	47	26	45	27	40	26	34	24	41	21	36
Latin America and the Caribbean	11	4	9	3	32	14	34	15	30	14	30	15	32	17	33	18	25	10	22
Middle East and North Africa	2	0	1	0	4	2	3	3	3	2	4	3	4	2	3	2	3	1	2
South Asia	3	1	3	1	11	5	12	4	10	4	10	4	11	4	11	4	8	3	6
Sub-Saharan Africa	9	3	8	3	23	10	24	12	21	9	19	8	21	9	18	9	17	7	13
Low- and middle-income countries	7	2	5	2	19	7	22	9	22	8	22	9	20	9	18	10	16	6	12
High-income countries	11	3	10	2	20	13	22	14	21	14	22	16	25	19	25	20	20	13	17
WORLD	7	2	6	2	19	7	22	9	22	9	22	10	21	11	21	14	16	6	12
Attributable Mortality (thousands)																			
East Asia and Pacific	1	1	1	0	6	1	6	1	4	1	1	1	1	1	0	1	21	6	27
Europe and Central Asia	1	0	1	0	10	1	14	2	15	2	6	1	2	1	0	1	50	8	58
Latin America and the Caribbean	1	0	1	0	6	1	5	0	4	0	2	0	2	0	1	1	21	3	25
Middle East and North Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	0	0	1	0	6	2	5	1	3	1	2	1	1	1	1	0	19	6	25
Sub-Saharan Africa	2	0	1	0	11	1	5	1	2	0	1	0	1	0	0	0	23	3	27
Low- and middle-income countries	5	2	4	1	39	5	37	6	28	5	13	3	7	3	3	3	135	27	162
High-income countries	0	0	0	0	1	0	2	0	2	1	2	1	3	1	3	4	14	7	21
WORLD	5	2	4	1	41	6	39	6	30	6	14	3	9	4	6	6	149	34	183
Attributable YLL (thousands)																			
East Asia and Pacific	37	18	23	4	160	31	158	36	73	19	17	8	7	6	2	3	477	125	602
Europe and Central Asia	18	4	17	2	276	27	346	42	288	47	90	21	21	11	2	3	1,058	156	1,214
Latin America and the Caribbean	27	7	16	3	174	16	131	11	70	8	26	5	14	4	5	4	462	58	520
Middle East and North Africa	4	1	3	1	11	2	4	1	3	1	2	1	1	0	0	0	27	7	34
South Asia	12	6	22	5	167	53	127	28	61	19	23	8	12	6	3	2	427	127	554
Sub-Saharan Africa	59	13	29	10	290	23	126	25	46	10	16	2	8	2	1	1	574	84	658
Low- and middle-income countries	157	49	109	24	1,077	152	891	142	541	103	173	44	63	30	14	13	3,025	557	3,582
High-income countries	7	1	5	1	38	6	51	9	46	11	25	9	22	14	13	15	206	66	272
WORLD	164	50	114	25	1,116	158	942	151	586	114	199	53	85	44	27	27	3,232	623	3,854
Attributable DALYs (thousands)																			
East Asia and Pacific	46	20	45	9	226	72	204	65	91	31	23	13	9	8	3	4	648	221	869
Europe and Central Asia	28	5	42	4	368	45	405	55	320	54	103	25	25	12	3	3	1,294	204	1,497
Latin America and the Caribbean	39	8	41	5	263	30	179	19	90	12	32	6	16	5	6	4	666	88	754
Middle East and North Africa	5	1	7	1	24	7	8	3	5	1	2	1	1	0	0	0	52	14	66
South Asia	23	6	43	14	261	90	176	48	80	25	29	10	14	7	4	2	631	204	835
Sub-Saharan Africa	87	18	75	19	385	57	166	39	61	15	21	3	9	2	1	1	804	155	959
Low- and middle-income countries	229	58	252	52	1,527	301	1,138	231	646	137	211	58	75	35	17	14	4,095	886	4,981
High-income countries	11	2	15	3	63	21	74	23	60	19	31	13	25	16	14	16	291	114	405
WORLD	239	60	267	54	1,590	322	1,211	254	706	157	242	72	100	51	31	30	4,386	1,000	5,386

Source: Authors' calculations.

Table 4A.76

Risk factor: Alcohol use
Disease: Self-inflicted injuries

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	10	6	10	6	7	5	7	5	3	3	3	3	8	5	7
Europe and Central Asia	NA	NA	NA	NA	40	17	40	18	32	15	33	16	17	10	16	11	35	15	31
Latin America and the Caribbean	NA	NA	NA	NA	27	10	27	11	21	9	21	9	10	6	10	5	23	9	20
Middle East and North Africa	NA	NA	NA	NA	2	1	2	1	2	1	2	1	1	1	1	1	2	1	2
South Asia	NA	NA	NA	NA	8	3	8	3	6	2	5	2	2	1	2	1	7	3	5
Sub-Saharan Africa	NA	NA	NA	NA	17	6	18	7	13	5	13	6	6	3	6	3	14	6	12
Low- and middle-income countries	NA	NA	NA	NA	15	5	18	6	15	5	14	6	6	4	5	4	15	5	11
High-income countries	NA	NA	NA	NA	17	11	18	11	13	9	13	9	6	6	6	6	14	9	13
WORLD	NA	NA	NA	NA	16	5	18	6	15	6	14	6	6	4	5	4	14	5	11
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	10	6	10	6	7	5	7	5	3	3	3	3	9	5	7
Europe and Central Asia	NA	NA	NA	NA	40	17	40	18	32	15	33	16	17	10	16	11	36	15	33
Latin America and the Caribbean	NA	NA	NA	NA	27	10	27	11	21	9	21	9	10	6	10	5	25	9	21
Middle East and North Africa	NA	NA	NA	NA	2	1	2	1	2	1	2	1	1	1	1	1	2	1	2
South Asia	NA	NA	NA	NA	8	3	8	3	6	2	5	2	2	1	2	1	7	3	5
Sub-Saharan Africa	NA	NA	NA	NA	17	6	18	7	13	5	13	6	6	3	6	3	15	6	13
Low- and middle-income countries	NA	NA	NA	NA	15	5	18	6	15	5	14	6	6	4	5	4	15	5	11
High-income countries	NA	NA	NA	NA	17	11	18	11	13	9	13	9	6	6	6	6	15	10	14
WORLD	NA	NA	NA	NA	16	5	18	6	15	6	14	7	6	4	5	4	15	5	11
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	10	6	10	6	7	5	7	5	3	3	3	3	8	5	7
Europe and Central Asia	NA	NA	NA	NA	39	16	39	17	32	15	33	16	17	10	16	11	35	15	32
Latin America and the Caribbean	NA	NA	NA	NA	27	9	27	11	21	9	21	9	10	6	10	5	24	8	20
Middle East and North Africa	NA	NA	NA	NA	2	1	2	1	2	1	2	1	1	1	1	1	2	1	1
South Asia	NA	NA	NA	NA	8	3	8	3	6	2	5	2	2	1	2	1	7	2	5
Sub-Saharan Africa	NA	NA	NA	NA	16	5	18	7	13	5	13	6	6	3	6	3	14	5	12
Low- and middle-income countries	NA	NA	NA	NA	15	4	17	6	15	5	14	6	6	4	5	4	15	5	10
High-income countries	NA	NA	NA	NA	17	10	18	10	13	9	13	9	6	6	6	6	15	9	13
WORLD	NA	NA	NA	NA	15	5	17	6	15	6	14	6	6	4	5	4	15	5	11
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	4	2	4	3	2	2	2	1	0	0	0	0	13	8	21
Europe and Central Asia	NA	NA	NA	NA	9	1	12	1	9	1	4	0	1	0	0	0	34	3	38
Latin America and the Caribbean	NA	NA	NA	NA	2	0	2	0	1	0	0	0	0	0	0	0	5	1	6
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	4	1	3	1	1	0	0	0	0	0	0	0	9	2	12
Sub-Saharan Africa	NA	NA	NA	NA	2	0	1	0	1	0	0	0	0	0	0	0	4	0	4
Low- and middle-income countries	NA	NA	NA	NA	21	5	22	4	14	3	6	2	2	1	1	0	66	15	81
High-income countries	NA	NA	NA	NA	3	0	5	1	3	1	2	0	1	0	0	0	13	3	16
WORLD	NA	NA	NA	NA	24	5	26	5	18	4	8	2	2	1	1	1	79	18	97
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	110	59	97	68	46	36	23	14	4	5	1	1	283	182	465
Europe and Central Asia	NA	NA	NA	NA	243	20	281	20	172	15	51	8	10	3	1	1	758	66	824
Latin America and the Caribbean	NA	NA	NA	NA	61	8	41	4	18	2	6	1	1	0	0	0	128	14	142
Middle East and North Africa	NA	NA	NA	NA	2	1	1	0	1	0	0	0	0	0	0	0	4	1	5
South Asia	NA	NA	NA	NA	116	41	75	16	24	6	4	1	1	0	0	0	220	64	284
Sub-Saharan Africa	NA	NA	NA	NA	44	5	31	3	15	2	4	0	1	0	0	0	94	11	105
Low- and middle-income countries	NA	NA	NA	NA	576	133	526	111	275	61	88	23	17	9	3	2	1,486	339	1,825
High-income countries	NA	NA	NA	NA	73	13	110	20	66	16	21	6	5	2	2	1	276	58	335
WORLD	NA	NA	NA	NA	649	146	636	131	342	76	109	29	22	11	4	3	1,762	398	2,160
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	111	60	98	70	47	37	23	14	5	5	1	1	285	187	472
Europe and Central Asia	NA	NA	NA	NA	247	20	284	20	173	15	51	8	10	3	1	1	766	68	834
Latin America and the Caribbean	NA	NA	NA	NA	61	8	42	4	18	2	6	1	1	0	0	0	129	15	144
Middle East and North Africa	NA	NA	NA	NA	2	1	1	0	1	0	0	0	0	0	0	0	4	1	5
South Asia	NA	NA	NA	NA	119	44	76	16	24	6	4	1	1	0	0	0	225	68	292
Sub-Saharan Africa	NA	NA	NA	NA	45	6	31	4	15	2	4	0	1	0	0	0	95	12	107
Low- and middle-income countries	NA	NA	NA	NA	586	140	531	114	277	62	89	24	17	9	3	2	1,504	350	1,854
High-income countries	NA	NA	NA	NA	74	14	112	21	67	16	21	6	5	3	2	1	280	61	341
WORLD	NA	NA	NA	NA	660	154	643	135	344	78	110	30	22	12	4	3	1,784	411	2,195

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.77

Risk factor: Alcohol use
Disease: Violence

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	7	7	7	7	18	16	19	16	19	16	19	16	18	16	18	16	18	15	18
Europe and Central Asia	26	25	24	25	59	45	60	46	60	45	60	46	59	46	58	46	59	45	56
Latin America and the Caribbean	14	14	14	14	44	28	44	29	44	28	44	28	43	28	43	29	43	27	42
Middle East and North Africa	3	3	3	4	8	10	8	9	7	7	8	4	9	6	5	8	8	8	8
South Asia	3	3	3	4	14	8	14	8	14	8	14	8	15	8	15	8	13	7	11
Sub-Saharan Africa	11	11	11	11	31	22	32	22	32	21	31	21	30	22	30	23	30	19	28
Low- and middle-income countries	9	9	10	10	33	21	34	22	35	22	34	21	29	23	22	29	32	20	30
High-income countries	15	15	15	15	28	29	29	29	29	30	29	30	29	30	30	31	28	28	28
WORLD	10	9	10	10	33	22	34	23	34	22	34	21	29	23	22	29	32	21	30
PAF of YLL (%)																			
East Asia and Pacific	7	7	7	7	18	16	19	16	19	16	19	16	18	16	18	16	18	15	18
Europe and Central Asia	26	25	24	25	59	45	60	46	60	45	60	46	59	46	58	46	59	45	55
Latin America and the Caribbean	14	14	14	14	44	28	44	29	44	28	44	28	43	28	43	29	43	27	42
Middle East and North Africa	3	3	3	4	8	10	8	9	7	7	8	4	9	6	5	8	8	8	8
South Asia	3	3	3	4	14	8	14	8	14	8	14	8	15	8	15	8	13	7	11
Sub-Saharan Africa	11	11	11	11	31	22	32	22	32	21	31	21	30	22	30	23	30	19	27
Low- and middle-income countries	9	9	10	10	33	21	34	22	35	22	34	21	29	22	22	28	32	20	30
High-income countries	15	15	15	15	28	29	29	29	29	30	29	30	29	30	30	31	28	27	27
WORLD	10	9	10	10	33	22	34	23	35	22	34	21	29	23	22	29	32	20	30
PAF of DALYs (%)																			
East Asia and Pacific	7	7	5	5	16	13	17	14	18	15	18	16	17	16	17	14	16	13	15
Europe and Central Asia	24	24	16	18	46	35	51	38	56	42	57	44	55	43	49	41	50	38	47
Latin America and the Caribbean	12	13	8	10	35	21	35	23	39	25	40	26	38	25	35	24	34	21	33
Middle East and North Africa	3	3	2	3	5	7	6	7	6	6	7	4	8	6	5	7	5	6	6
South Asia	3	3	2	3	12	7	12	7	13	8	13	8	14	8	15	7	11	6	9
Sub-Saharan Africa	9	11	7	10	26	18	28	20	29	20	29	20	26	21	23	22	24	17	23
Low- and middle-income countries	8	8	6	8	27	18	29	20	32	21	32	21	27	22	21	25	27	17	25
High-income countries	15	15	11	12	24	25	25	26	26	28	27	29	26	28	25	26	24	24	24
WORLD	9	9	6	8	27	18	29	20	32	21	32	21	27	22	21	25	27	18	25
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	0	0	5	1	6	1	3	1	1	0	0	0	0	0	15	3	18
Europe and Central Asia	0	0	0	0	7	1	11	2	8	2	2	1	1	1	0	0	30	8	38
Latin America and the Caribbean	0	0	0	0	28	1	15	1	6	0	2	0	1	0	0	0	52	3	55
Middle East and North Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	0	0	0	0	2	0	2	0	1	0	0	0	0	0	0	0	7	2	9
Sub-Saharan Africa	0	0	0	1	17	2	10	2	4	1	1	0	0	0	0	0	33	6	39
Low- and middle-income countries	1	0	1	1	59	6	44	6	23	4	6	2	3	1	1	1	138	22	160
High-income countries	0	0	0	0	2	0	2	1	1	0	0	0	0	0	0	0	5	2	7
WORLD	1	1	1	1	61	7	46	7	23	5	7	2	3	2	1	1	143	24	166
Attributable YLL (thousands)																			
East Asia and Pacific	2	1	3	2	149	20	137	24	55	13	11	4	3	2	1	0	362	67	429
Europe and Central Asia	2	2	3	2	182	40	265	54	164	42	35	15	8	9	1	2	659	166	825
Latin America and the Caribbean	2	2	6	3	760	38	368	24	118	9	21	2	6	1	1	0	1,282	79	1,361
Middle East and North Africa	0	0	0	0	8	2	4	1	2	0	1	0	0	0	0	0	14	4	19
South Asia	1	2	2	2	65	13	50	11	23	10	5	4	4	2	2	0	153	43	196
Sub-Saharan Africa	9	9	13	16	454	57	247	41	84	16	16	4	4	2	0	1	827	144	971
Low- and middle-income countries	17	15	26	25	1,617	170	1,071	156	446	90	89	29	26	15	5	3	3,298	503	3,801
High-income countries	3	2	1	1	56	13	37	15	15	7	3	2	1	1	0	0	116	42	157
WORLD	20	17	28	27	1,673	183	1,108	171	461	96	92	31	27	16	5	4	3,414	545	3,958
Attributable DALYs (thousands)																			
East Asia and Pacific	3	1	5	3	171	24	150	27	57	14	12	4	3	2	1	0	402	75	477
Europe and Central Asia	2	2	5	3	233	51	304	64	173	45	36	16	9	9	1	2	762	192	955
Latin America and the Caribbean	3	2	12	4	972	50	456	31	132	10	23	2	7	1	1	0	1,606	100	1,706
Middle East and North Africa	0	0	0	0	11	3	5	2	2	1	1	0	0	0	0	0	19	6	24
South Asia	1	2	3	3	77	15	57	13	25	10	6	4	4	2	2	0	176	49	225
Sub-Saharan Africa	11	9	23	18	551	69	282	45	91	17	17	4	5	2	1	1	980	163	1,143
Low- and middle-income countries	20	16	48	32	2,015	213	1,254	181	481	96	93	30	28	16	6	4	3,944	586	4,530
High-income countries	3	2	2	2	66	15	43	17	17	7	3	2	1	1	0	0	135	47	181
WORLD	22	18	50	33	2,081	228	1,297	198	497	103	96	32	29	17	6	4	4,079	633	4,711

Source: Authors' calculations.

Table 4A.78

Risk factor: Alcohol use
Disease: Other intentional injuries

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	13	11	13	10	12	9	12	9	5	4	6	4	12	9	11
Europe and Central Asia	NA	NA	NA	NA	46	31	45	33	44	26	41	35	*	19	33	16	45	28	39
Latin America and the Caribbean	NA	NA	NA	NA	36	22	35	21	35	*	32	22	20	11	18	7	35	16	34
Middle East and North Africa	NA	NA	NA	NA	2	2	3	2	2	2	2	2	1	1	1	1	2	1	2
South Asia	NA	NA	NA	NA	10	5	10	6	10	5	10	6	5	3	5	3	8	4	7
Sub-Saharan Africa	NA	NA	NA	NA	2	2	3	4	3	2	2	5	3	*	1	1	2	2	2
Low- and middle-income countries	NA	NA	NA	NA	15	7	14	12	13	11	10	7	5	3	6	3	12	7	11
High-income countries	NA	NA	NA	NA	21	12	20	20	21	18	21	11	9	6	5	5	20	13	20
WORLD	NA	NA	NA	NA	15	7	14	12	14	11	10	7	5	3	6	3	12	7	11
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	13	11	13	10	12	9	12	9	5	4	6	4	12	9	12
Europe and Central Asia	NA	NA	NA	NA	46	31	45	33	44	26	41	35	*	19	33	16	45	29	39
Latin America and the Caribbean	NA	NA	NA	NA	36	22	35	21	35	*	32	22	20	11	18	7	35	18	35
Middle East and North Africa	NA	NA	NA	NA	2	2	3	2	2	2	2	2	1	1	1	1	2	1	2
South Asia	NA	NA	NA	NA	10	5	10	6	10	5	10	6	5	3	5	3	8	3	7
Sub-Saharan Africa	NA	NA	NA	NA	2	2	3	4	3	2	2	5	3	*	1	1	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	15	7	14	12	13	11	10	7	5	3	6	3	12	7	11
High-income countries	NA	NA	NA	NA	21	12	20	20	21	18	21	11	9	6	5	5	20	13	20
WORLD	NA	NA	NA	NA	15	7	14	12	14	11	10	7	5	3	6	3	12	7	11
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	12	11	12	10	11	9	12	9	4	4	4	4	11	9	11
Europe and Central Asia	NA	NA	NA	NA	38	30	41	32	42	25	40	35	14	19	14	16	39	22	33
Latin America and the Caribbean	NA	NA	NA	NA	35	22	34	21	35	10	32	22	19	11	17	7	34	18	33
Middle East and North Africa	NA	NA	NA	NA	2	2	3	2	2	2	2	2	1	1	1	1	2	1	2
South Asia	NA	NA	NA	NA	9	5	10	6	10	5	10	6	5	3	4	3	7	3	6
Sub-Saharan Africa	NA	NA	NA	NA	2	2	3	4	3	1	2	5	3	*	1	1	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	14	7	13	12	13	11	10	7	4	3	5	3	11	6	10
High-income countries	NA	NA	NA	NA	19	12	19	20	20	16	20	11	8	6	3	5	19	13	19
WORLD	NA	NA	NA	NA	14	7	14	12	13	11	10	7	4	3	5	3	12	6	11
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	3	0	3	0	1	0	0	0	0	0	0	0	7	1	8
Europe and Central Asia	NA	NA	NA	NA	1	0	2	1	1	1	0	0	0	0	0	0	4	2	6
Latin America and the Caribbean	NA	NA	NA	NA	5	0	1	0	0	0	0	0	0	0	0	0	7	0	7
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	NA	NA	NA	NA	3	0	3	0	1	0	1	0	0	0	0	0	8	1	9
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	13	1	9	1	3	1	1	0	0	0	0	0	27	4	31
High-income countries	NA	NA	NA	NA	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2
WORLD	NA	NA	NA	NA	14	1	10	1	4	1	1	0	0	0	0	0	29	4	33
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	3	0	3	0	1	0	0	0	0	0	0	0	7	1	8
Europe and Central Asia	NA	NA	NA	NA	1	0	2	1	1	1	0	0	0	0	0	0	5	2	6
Latin America and the Caribbean	NA	NA	NA	NA	6	0	1	0	0	0	0	0	0	0	0	0	7	0	7
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	NA	NA	NA	NA	4	0	3	0	1	0	1	0	0	0	0	0	8	1	10
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	14	1	10	1	3	1	1	0	0	0	0	0	29	4	33
High-income countries	NA	NA	NA	NA	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2
WORLD	NA	NA	NA	NA	15	1	11	1	4	1	1	0	0	0	0	0	31	4	35

Source: Authors' calculations.

Note: NA = not applicable.

*The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.79

Risk factor: Alcohol use
Disease: All causes

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	0	0	2	1	13	4	13	3	11	3	8	1	6	1	4	0	7	1	4
Europe and Central Asia	1	1	6	3	36	15	28	12	20	10	13	5	10	3	9	2	15	4	10
Latin America and the Caribbean	1	0	5	2	31	6	25	6	17	5	11	4	7	3	5	2	12	3	8
Middle East and North Africa	1	0	1	0	5	1	5	1	3	1	2	0	1	0	1	0	2	0	1
South Asia	0	0	1	0	6	1	6	1	5	1	2	0	0	0	0	0	2	0	1
Sub-Saharan Africa	0	0	2	1	9	1	5	1	6	2	6	2	4	1	3	1	3	1	2
Low- and middle-income countries	0	0	2	1	13	2	11	2	10	3	7	2	5	1	4	1	6	1	4
High-income countries	1	1	6	2	23	9	16	5	9	4	4	0	1	–2	0	–5	3	–3	0
WORLD	0	0	2	1	14	2	12	3	10	3	7	2	4	1	2	–1	6	1	3
PAF of YLL (%)																			
East Asia and Pacific	0	0	2	1	13	4	13	3	11	3	8	1	6	1	4	0	8	1	5
Europe and Central Asia	1	1	6	3	36	15	28	12	20	10	13	5	10	3	9	2	18	6	13
Latin America and the Caribbean	1	0	5	2	31	6	25	6	17	5	11	4	7	3	5	2	14	3	10
Middle East and North Africa	1	0	1	0	5	1	5	1	3	1	2	0	1	0	1	0	2	1	1
South Asia	0	0	1	0	6	1	6	1	5	1	2	0	0	0	0	0	2	0	1
Sub-Saharan Africa	0	0	2	1	9	1	5	1	6	2	6	2	5	1	3	1	3	1	2
Low- and middle-income countries	0	0	2	1	13	2	11	2	10	3	7	2	5	1	4	1	6	1	4
High-income countries	1	1	6	2	23	9	17	5	9	4	4	0	1	–2	0	–5	6	–1	3
WORLD	0	0	2	1	14	2	12	3	10	3	7	2	4	1	2	–1	6	1	4
PAF of DALYs (%)																			
East Asia and Pacific	0	0	2	1	13	3	13	3	9	2	7	1	5	0	4	0	7	1	4
Europe and Central Asia	1	1	4	2	29	7	26	8	18	7	12	4	8	3	7	2	16	4	11
Latin America and the Caribbean	1	0	3	1	28	6	22	5	15	4	9	3	6	2	4	2	13	3	9
Middle East and North Africa	0	0	1	0	3	1	3	0	2	0	1	0	1	0	1	0	1	0	1
South Asia	0	0	1	0	5	1	6	1	4	0	1	0	0	0	0	0	2	0	1
Sub-Saharan Africa	0	0	2	1	8	1	5	1	5	2	5	2	4	1	3	1	3	1	2
Low- and middle-income countries	0	0	2	1	13	2	11	2	8	2	6	1	4	1	3	1	6	1	4
High-income countries	1	0	3	1	25	7	20	5	9	2	3	–1	1	–2	0	–4	8	0	4
WORLD	0	0	2	1	13	2	12	2	9	2	5	1	3	0	2	–1	6	1	4
Attributable Mortality (thousands)																			
East Asia and Pacific	2	1	2	1	53	8	79	14	131	20	116	13	96	8	38	5	517	70	587
Europe and Central Asia	1	1	1	0	54	7	90	13	121	25	92	23	69	27	30	20	459	115	575
Latin America and the Caribbean	2	1	1	0	55	4	52	6	49	10	31	8	23	8	15	8	228	45	273
Middle East and North Africa	1	1	0	0	4	1	4	1	4	1	3	0	2	0	1	0	19	4	22
South Asia	2	1	1	0	30	7	41	4	57	5	19	2	5	2	3	1	157	22	179
Sub-Saharan Africa	4	2	7	3	48	7	46	7	38	11	23	7	16	5	6	2	188	44	232
Low- and middle-income countries	12	6	13	5	244	33	312	44	401	72	284	54	211	50	91	36	1,568	301	1,869
High-income countries	1	0	1	0	21	3	32	5	46	10	27	1	8	–23	–5	–102	130	–106	24
WORLD	12	6	14	5	265	36	344	49	447	83	311	55	219	27	87	–66	1,698	195	1,893
Attributable YLL (thousands)																			
East Asia and Pacific	54	26	60	20	1,454	221	1,893	337	2,497	415	1,563	197	863	88	193	29	8,577	1,333	9,910
Europe and Central Asia	44	23	39	11	1,464	194	2,153	314	2,340	514	1,264	344	630	277	136	94	8,070	1,771	9,841
Latin America and the Caribbean	50	22	41	12	1,515	111	1,254	147	944	201	418	128	204	78	68	38	4,494	738	5,232
Middle East and North Africa	36	22	11	3	107	14	98	13	77	16	39	7	14	5	3	1	384	82	466
South Asia	52	42	39	14	831	189	979	96	1,071	100	256	34	42	16	12	4	3,284	495	3,779
Sub-Saharan Africa	122	47	198	85	1,304	186	1,114	181	733	221	316	109	148	56	29	13	3,963	899	4,862
Low- and middle-income countries	358	182	388	145	6,675	916	7,492	1,088	7,662	1,468	3,855	819	1,901	520	441	180	28,771	5,318	34,090
High-income countries	18	8	19	8	562	82	754	125	880	214	368	13	77	–223	–18	–416	2,660	–188	2,472
WORLD	376	190	406	153	7,237	998	8,246	1,213	8,543	1,682	4,224	832	1,978	297	423	–236	31,432	5,130	36,561
Attributable DALYs (thousands)																			
East Asia and Pacific	68	31	127	50	3,226	511	3,622	580	3,313	515	1,768	215	938	95	213	32	13,276	2,028	15,304
Europe and Central Asia	56	27	84	22	2,374	370	2,925	483	2,754	628	1,391	382	673	298	144	101	10,400	2,311	12,711
Latin America and the Caribbean	69	28	107	27	3,245	485	2,034	332	1,347	312	508	156	227	88	75	44	7,611	1,474	9,085
Middle East and North Africa	40	25	17	4	141	23	115	18	86	20	42	8	15	5	3	2	460	105	565
South Asia	70	47	86	37	1,394	268	1,609	140	1,292	116	292	38	50	17	14	5	4,807	667	5,475
Sub-Saharan Africa	158	60	283	114	1,886	280	1,430	234	870	252	351	122	161	62	32	15	5,171	1,139	6,309
Low- and middle-income countries	462	218	703	255	12,266	1,938	11,734	1,787	9,662	1,843	4,352	921	2,064	565	481	199	41,725	7,724	49,449
High-income countries	24	11	58	20	2,021	495	2,124	444	1,460	262	477	–74	121	–363	1	–499	6,286	294	6,580
WORLD	485	229	761	274	14,287	2,432	13,858	2,230	11,122	2,105	4,829	846	2,185	201	482	–300	48,011	8,018	56,029

Source: Authors' calculations.

Table 4A.80

Risk factor: Illicit drug use
Disease: HIV/AIDS

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	27	26	27	27	27	27	NA	NA	NA	NA	NA	NA	25	22	24
Europe and Central Asia	NA	NA	NA	NA	74	74	74	74	74	75	NA	NA	NA	NA	NA	NA	71	66	70
Latin America and the Caribbean	NA	NA	NA	NA	9	9	10	10	11	10	NA	NA	NA	NA	NA	NA	9	8	9
Middle East and North Africa	NA	NA	NA	NA	1	0	1	0	1	1	NA	NA	NA	NA	NA	NA	1	0	1
South Asia	NA	NA	NA	NA	2	2	2	2	2	2	NA	NA	NA	NA	NA	NA	2	2	2
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	4	1	4	1	5	2	NA	NA	NA	NA	NA	NA	3	1	2
High-income countries	NA	NA	NA	NA	38	36	35	34	32	32	NA	NA	NA	NA	NA	NA	32	31	32
WORLD	NA	NA	NA	NA	4	1	5	1	5	3	NA	NA	NA	NA	NA	NA	4	1	3
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	27	26	27	27	27	27	NA	NA	NA	NA	NA	NA	25	22	24
Europe and Central Asia	NA	NA	NA	NA	74	74	74	74	74	75	NA	NA	NA	NA	NA	NA	71	65	70
Latin America and the Caribbean	NA	NA	NA	NA	9	9	10	10	11	10	NA	NA	NA	NA	NA	NA	9	8	9
Middle East and North Africa	NA	NA	NA	NA	1	0	1	0	1	1	NA	NA	NA	NA	NA	NA	1	0	1
South Asia	NA	NA	NA	NA	2	2	2	2	2	2	NA	NA	NA	NA	NA	NA	2	2	2
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	4	1	4	1	5	2	NA	NA	NA	NA	NA	NA	3	1	2
High-income countries	NA	NA	NA	NA	38	36	35	34	32	32	NA	NA	NA	NA	NA	NA	33	32	33
WORLD	NA	NA	NA	NA	4	1	5	1	5	3	NA	NA	NA	NA	NA	NA	4	1	2
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	27	26	27	27	27	27	NA	NA	NA	NA	NA	NA	26	22	25
Europe and Central Asia	NA	NA	NA	NA	74	74	74	74	74	75	NA	NA	NA	NA	NA	NA	72	68	71
Latin America and the Caribbean	NA	NA	NA	NA	9	9	10	10	11	10	NA	NA	NA	NA	NA	NA	9	8	9
Middle East and North Africa	NA	NA	NA	NA	1	0	1	0	1	1	NA	NA	NA	NA	NA	NA	1	0	1
South Asia	NA	NA	NA	NA	2	2	2	2	2	2	NA	NA	NA	NA	NA	NA	2	2	2
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	5	1	5	1	5	3	NA	NA	NA	NA	NA	NA	4	1	3
High-income countries	NA	NA	NA	NA	38	36	35	34	32	32	NA	NA	NA	NA	NA	NA	34	32	33
WORLD	NA	NA	NA	NA	5	1	5	2	6	3	NA	NA	NA	NA	NA	NA	4	1	3
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	4	1	12	2	4	2	NA	NA	NA	NA	NA	NA	20	6	26
Europe and Central Asia	NA	NA	NA	NA	3	1	10	1	4	0	NA	NA	NA	NA	NA	NA	17	3	20
Latin America and the Caribbean	NA	NA	NA	NA	1	1	3	1	1	0	NA	NA	NA	NA	NA	NA	5	2	7
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	0	0	0
South Asia	NA	NA	NA	NA	1	0	3	1	1	0	NA	NA	NA	NA	NA	NA	4	1	5
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	10	3	27	5	10	3	NA	NA	NA	NA	NA	NA	47	12	59
High-income countries	NA	NA	NA	NA	0	0	3	1	2	0	NA	NA	NA	NA	NA	NA	5	2	7
WORLD	NA	NA	NA	NA	10	4	30	6	12	4	NA	NA	NA	NA	NA	NA	52	14	65
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	111	33	282	60	85	45	NA	NA	NA	NA	NA	NA	478	138	616
Europe and Central Asia	NA	NA	NA	NA	93	27	236	27	81	10	NA	NA	NA	NA	NA	NA	410	64	474
Latin America and the Caribbean	NA	NA	NA	NA	29	23	68	32	20	7	NA	NA	NA	NA	NA	NA	117	63	180
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	0	0	0
South Asia	NA	NA	NA	NA	25	11	62	13	18	4	NA	NA	NA	NA	NA	NA	105	28	133
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	1	1	2
Low- and middle-income countries	NA	NA	NA	NA	258	95	649	133	204	65	NA	NA	NA	NA	NA	NA	1,111	293	1,404
High-income countries	NA	NA	NA	NA	12	6	77	25	34	8	NA	NA	NA	NA	NA	NA	123	39	161
WORLD	NA	NA	NA	NA	270	101	726	158	238	73	NA	NA	NA	NA	NA	NA	1,234	332	1,566
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	180	54	327	70	90	46	NA	NA	NA	NA	NA	NA	597	170	767
Europe and Central Asia	NA	NA	NA	NA	188	67	297	44	90	12	NA	NA	NA	NA	NA	NA	574	123	697
Latin America and the Caribbean	NA	NA	NA	NA	41	28	76	34	21	8	NA	NA	NA	NA	NA	NA	137	70	207
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	0	0	1
South Asia	NA	NA	NA	NA	32	15	66	14	18	4	NA	NA	NA	NA	NA	NA	116	33	149
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	1	1	2
Low- and middle-income countries	NA	NA	NA	NA	440	164	766	163	219	69	NA	NA	NA	NA	NA	NA	1,425	397	1,822
High-income countries	NA	NA	NA	NA	32	12	101	30	39	9	NA	NA	NA	NA	NA	NA	171	50	221
WORLD	NA	NA	NA	NA	472	176	867	193	257	78	NA	NA	NA	NA	NA	NA	1,596	447	2,043

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.81

Risk factor: Illicit drug use
Disease: Drug use disorders

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of YLL (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
PAF of DALYs (%)																			
East Asia and Pacific	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Europe and Central Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Latin America and the Caribbean	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Middle East and North Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Asia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sub-Saharan Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Low- and middle-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
High-income countries	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
WORLD	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	0	0	1	0	3	1	2	0	0	0	0	0	0	0	6	1	7
Europe and Central Asia	0	0	0	0	2	0	4	1	3	1	1	0	0	0	0	0	9	2	11
Latin America and the Caribbean	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2	0	2
Middle East and North Africa	0	0	0	0	3	1	7	2	5	1	0	0	0	0	0	0	16	3	19
South Asia	0	0	0	0	4	1	12	2	7	2	1	0	0	0	0	0	24	5	29
Sub-Saharan Africa	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	3	1	4
Low- and middle-income countries	0	0	0	0	11	2	28	6	19	4	2	0	0	0	0	0	60	13	73
High-income countries	0	0	0	0	3	1	5	1	2	1	0	0	0	0	0	0	10	2	13
WORLD	0	0	0	0	13	3	33	7	21	5	2	0	0	0	0	0	70	15	85
Attributable YLL (thousands)																			
East Asia and Pacific	0	0	0	0	30	5	67	17	37	10	2	0	0	0	0	0	136	33	169
Europe and Central Asia	1	0	0	0	41	8	96	22	59	15	8	2	1	1	0	0	206	47	253
Latin America and the Caribbean	0	0	0	0	11	1	23	5	12	3	1	0	0	0	0	0	46	10	56
Middle East and North Africa	0	0	0	0	75	16	176	37	104	23	5	1	1	0	0	0	362	78	440
South Asia	0	0	0	0	118	21	276	58	146	33	7	2	1	1	0	0	550	115	665
Sub-Saharan Africa	0	0	0	0	15	3	34	8	20	5	1	0	0	0	0	0	70	16	86
Low- and middle-income countries	1	0	0	0	290	54	672	148	378	89	23	6	4	2	1	1	1,369	299	1,668
High-income countries	0	0	0	0	72	16	117	29	50	14	1	1	0	0	0	0	240	59	299
WORLD	1	0	1	0	362	70	789	177	427	102	24	7	4	2	1	1	1,609	358	1,968
Attributable DALYs (thousands)																			
East Asia and Pacific	0	0	17	9	172	38	109	27	40	10	2	0	0	0	0	0	340	85	425
Europe and Central Asia	1	0	5	5	188	59	154	42	73	20	9	3	1	1	0	0	431	129	559
Latin America and the Caribbean	0	0	7	7	370	122	152	50	28	9	1	1	0	0	0	0	559	188	746
Middle East and North Africa	0	0	6	5	278	55	241	50	117	26	6	1	1	0	0	0	649	137	786
South Asia	0	0	23	7	285	37	347	65	148	33	7	2	1	1	0	0	812	145	957
Sub-Saharan Africa	0	0	11	9	472	143	165	62	49	16	2	1	0	0	0	0	699	230	929
Low- and middle-income countries	1	0	68	42	1,764	453	1,169	295	455	114	27	8	4	2	1	1	3,489	913	4,402
High-income countries	0	0	10	6	490	151	336	103	104	35	4	2	0	0	0	0	944	297	1,242
WORLD	1	0	79	48	2,254	604	1,505	398	559	148	31	10	4	2	1	1	4,434	1,210	5,644

Source: Authors' calculations.

Table 4A.82

Risk factor: Illicit drug use
Disease: Unintentional injuries

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	3	1	3	0	NA	NA	NA	NA	NA	NA	2	0	1
Europe and Central Asia	NA	NA	NA	NA	0	1	1	4	1	2	NA	NA	NA	NA	NA	NA	0	1	1
Latin America and the Caribbean	NA	NA	NA	NA	1	3	3	11	3	9	NA	NA	NA	NA	NA	NA	1	3	2
Middle East and North Africa	NA	NA	NA	NA	1	1	4	3	3	2	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	NA	NA	NA	NA	1	0	3	1	2	1	NA	NA	NA	NA	NA	NA	1	0	1
Sub-Saharan Africa	NA	NA	NA	NA	1	0	3	1	3	1	NA	NA	NA	NA	NA	NA	1	0	1
Low- and middle-income countries	NA	NA	NA	NA	1	0	3	2	2	1	NA	NA	NA	NA	NA	NA	1	0	1
High-income countries	NA	NA	NA	NA	2	7	7	26	7	18	NA	NA	NA	NA	NA	NA	3	5	4
WORLD	NA	NA	NA	NA	1	1	3	3	3	2	NA	NA	NA	NA	NA	NA	1	1	1
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	3	1	3	0	NA	NA	NA	NA	NA	NA	2	0	1
Europe and Central Asia	NA	NA	NA	NA	0	1	1	4	1	2	NA	NA	NA	NA	NA	NA	0	2	1
Latin America and the Caribbean	NA	NA	NA	NA	1	3	3	11	3	9	NA	NA	NA	NA	NA	NA	1	3	2
Middle East and North Africa	NA	NA	NA	NA	1	1	4	3	3	2	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	NA	NA	NA	NA	1	0	3	1	2	1	NA	NA	NA	NA	NA	NA	1	0	1
Sub-Saharan Africa	NA	NA	NA	NA	1	0	3	1	3	1	NA	NA	NA	NA	NA	NA	1	0	1
Low- and middle-income countries	NA	NA	NA	NA	1	0	3	2	2	1	NA	NA	NA	NA	NA	NA	1	1	1
High-income countries	NA	NA	NA	NA	2	7	7	26	7	18	NA	NA	NA	NA	NA	NA	4	9	5
WORLD	NA	NA	NA	NA	1	1	3	3	3	2	NA	NA	NA	NA	NA	NA	1	1	1
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	3	1	3	0	NA	NA	NA	NA	NA	NA	1	0	1
Europe and Central Asia	NA	NA	NA	NA	0	1	1	4	1	2	NA	NA	NA	NA	NA	NA	0	2	1
Latin America and the Caribbean	NA	NA	NA	NA	1	3	3	11	3	9	NA	NA	NA	NA	NA	NA	1	3	2
Middle East and North Africa	NA	NA	NA	NA	1	1	4	3	3	2	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	NA	NA	NA	NA	1	0	3	1	2	1	NA	NA	NA	NA	NA	NA	1	0	1
Sub-Saharan Africa	NA	NA	NA	NA	1	0	3	1	3	1	NA	NA	NA	NA	NA	NA	1	0	1
Low- and middle-income countries	NA	NA	NA	NA	1	0	3	2	2	1	NA	NA	NA	NA	NA	NA	1	0	1
High-income countries	NA	NA	NA	NA	2	7	7	26	7	18	NA	NA	NA	NA	NA	NA	4	9	5
WORLD	NA	NA	NA	NA	1	1	3	3	3	3	NA	NA	NA	NA	NA	NA	1	1	1
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	5	0	3	0	NA	NA	NA	NA	NA	NA	9	1	10
Europe and Central Asia	NA	NA	NA	NA	0	0	1	1	1	1	NA	NA	NA	NA	NA	NA	1	1	3
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	1	1	1	NA	NA	NA	NA	NA	NA	2	1	4
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	1	0	NA	NA	NA	NA	NA	NA	2	0	2
South Asia	NA	NA	NA	NA	1	0	3	1	2	0	NA	NA	NA	NA	NA	NA	6	1	7
Sub-Saharan Africa	NA	NA	NA	NA	1	0	2	0	1	0	NA	NA	NA	NA	NA	NA	4	0	4
Low- and middle-income countries	NA	NA	NA	NA	4	1	12	3	9	2	NA	NA	NA	NA	NA	NA	25	5	30
High-income countries	NA	NA	NA	NA	1	1	3	3	2	2	NA	NA	NA	NA	NA	NA	6	6	12
WORLD	NA	NA	NA	NA	5	2	15	6	11	4	NA	NA	NA	NA	NA	NA	31	11	42
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	41	3	113	8	65	4	NA	NA	NA	NA	NA	NA	218	15	233
Europe and Central Asia	NA	NA	NA	NA	5	5	14	17	10	11	NA	NA	NA	NA	NA	NA	29	33	62
Latin America and the Caribbean	NA	NA	NA	NA	9	6	23	18	17	10	NA	NA	NA	NA	NA	NA	49	34	83
Middle East and North Africa	NA	NA	NA	NA	10	2	22	4	13	2	NA	NA	NA	NA	NA	NA	45	8	53
South Asia	NA	NA	NA	NA	24	6	77	14	42	8	NA	NA	NA	NA	NA	NA	142	27	170
Sub-Saharan Africa	NA	NA	NA	NA	20	3	47	6	21	3	NA	NA	NA	NA	NA	NA	87	12	99
Low- and middle-income countries	NA	NA	NA	NA	109	24	295	68	167	39	NA	NA	NA	NA	NA	NA	570	130	700
High-income countries	NA	NA	NA	NA	23	21	66	73	48	46	NA	NA	NA	NA	NA	NA	137	139	276
WORLD	NA	NA	NA	NA	132	44	360	141	215	84	NA	NA	NA	NA	NA	NA	707	270	976
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	57	6	149	12	80	6	NA	NA	NA	NA	NA	NA	286	24	310
Europe and Central Asia	NA	NA	NA	NA	8	8	17	24	11	13	NA	NA	NA	NA	NA	NA	36	46	82
Latin America and the Caribbean	NA	NA	NA	NA	14	13	33	34	24	17	NA	NA	NA	NA	NA	NA	71	64	134
Middle East and North Africa	NA	NA	NA	NA	18	4	37	9	18	4	NA	NA	NA	NA	NA	NA	73	17	90
South Asia	NA	NA	NA	NA	39	9	106	23	53	11	NA	NA	NA	NA	NA	NA	198	42	240
Sub-Saharan Africa	NA	NA	NA	NA	29	5	60	9	27	5	NA	NA	NA	NA	NA	NA	117	19	135
Low- and middle-income countries	NA	NA	NA	NA	166	44	402	112	212	56	NA	NA	NA	NA	NA	NA	779	212	991
High-income countries	NA	NA	NA	NA	33	39	90	130	64	75	NA	NA	NA	NA	NA	NA	188	244	432
WORLD	NA	NA	NA	NA	199	83	492	242	276	131	NA	NA	NA	NA	NA	NA	967	456	1,423

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.83

Risk factor: Illicit drug use
Disease: Self-inflicted injuries

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	2	0	2	0	NA	NA	NA	NA	NA	NA	1	0	1
Europe and Central Asia	NA	NA	NA	NA	3	6	7	16	5	10	NA	NA	NA	NA	NA	NA	4	7	5
Latin America and the Caribbean	NA	NA	NA	NA	1	2	5	15	5	14	NA	NA	NA	NA	NA	NA	3	7	4
Middle East and North Africa	NA	NA	NA	NA	5	1	20	7	17	7	NA	NA	NA	NA	NA	NA	10	3	7
South Asia	NA	NA	NA	NA	5	1	18	7	21	6	NA	NA	NA	NA	NA	NA	11	3	7
Sub-Saharan Africa	NA	NA	NA	NA	3	1	10	3	8	4	NA	NA	NA	NA	NA	NA	5	2	4
Low- and middle-income countries	NA	NA	NA	NA	3	1	9	3	8	3	NA	NA	NA	NA	NA	NA	5	2	4
High-income countries	NA	NA	NA	NA	3	7	7	12	4	8	NA	NA	NA	NA	NA	NA	4	6	4
WORLD	NA	NA	NA	NA	3	1	9	4	7	4	NA	NA	NA	NA	NA	NA	5	2	4
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	2	0	2	0	NA	NA	NA	NA	NA	NA	1	0	1
Europe and Central Asia	NA	NA	NA	NA	3	6	7	16	5	10	NA	NA	NA	NA	NA	NA	5	8	5
Latin America and the Caribbean	NA	NA	NA	NA	1	2	5	15	5	14	NA	NA	NA	NA	NA	NA	3	7	4
Middle East and North Africa	NA	NA	NA	NA	5	1	20	7	17	7	NA	NA	NA	NA	NA	NA	10	2	7
South Asia	NA	NA	NA	NA	5	1	18	7	21	6	NA	NA	NA	NA	NA	NA	11	3	7
Sub-Saharan Africa	NA	NA	NA	NA	3	1	10	3	8	4	NA	NA	NA	NA	NA	NA	5	2	4
Low- and middle-income countries	NA	NA	NA	NA	3	1	9	3	8	3	NA	NA	NA	NA	NA	NA	5	2	4
High-income countries	NA	NA	NA	NA	3	7	7	12	4	8	NA	NA	NA	NA	NA	NA	4	7	5
WORLD	NA	NA	NA	NA	3	1	9	4	7	4	NA	NA	NA	NA	NA	NA	5	2	4
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	2	0	2	0	NA	NA	NA	NA	NA	NA	1	0	1
Europe and Central Asia	NA	NA	NA	NA	3	6	7	16	5	10	NA	NA	NA	NA	NA	NA	5	8	5
Latin America and the Caribbean	NA	NA	NA	NA	1	2	5	15	5	14	NA	NA	NA	NA	NA	NA	3	6	4
Middle East and North Africa	NA	NA	NA	NA	5	1	20	7	17	7	NA	NA	NA	NA	NA	NA	10	2	7
South Asia	NA	NA	NA	NA	5	1	18	7	21	6	NA	NA	NA	NA	NA	NA	10	3	7
Sub-Saharan Africa	NA	NA	NA	NA	3	1	10	3	8	4	NA	NA	NA	NA	NA	NA	5	2	4
Low- and middle-income countries	NA	NA	NA	NA	3	1	9	3	8	3	NA	NA	NA	NA	NA	NA	5	2	4
High-income countries	NA	NA	NA	NA	3	7	7	12	4	8	NA	NA	NA	NA	NA	NA	4	7	5
WORLD	NA	NA	NA	NA	3	1	9	4	7	4	NA	NA	NA	NA	NA	NA	5	2	4
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	1	0	1	0	NA	NA	NA	NA	NA	NA	2	0	2
Europe and Central Asia	NA	NA	NA	NA	1	0	2	1	1	0	NA	NA	NA	NA	NA	NA	4	1	6
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	1	0	1
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	NA	NA	NA	NA	NA	NA	1	0	1
South Asia	NA	NA	NA	NA	3	0	7	1	4	1	NA	NA	NA	NA	NA	NA	14	3	17
Sub-Saharan Africa	NA	NA	NA	NA	0	0	1	0	0	0	NA	NA	NA	NA	NA	NA	1	0	2
Low- and middle-income countries	NA	NA	NA	NA	4	1	11	3	7	2	NA	NA	NA	NA	NA	NA	23	5	28
High-income countries	NA	NA	NA	NA	1	0	2	1	1	1	NA	NA	NA	NA	NA	NA	3	2	5
WORLD	NA	NA	NA	NA	5	1	13	3	8	2	NA	NA	NA	NA	NA	NA	26	7	33
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	8	1	20	3	11	2	NA	NA	NA	NA	NA	NA	39	5	44
Europe and Central Asia	NA	NA	NA	NA	20	7	49	17	28	10	NA	NA	NA	NA	NA	NA	98	34	132
Latin America and the Caribbean	NA	NA	NA	NA	3	2	8	5	5	3	NA	NA	NA	NA	NA	NA	16	10	26
Middle East and North Africa	NA	NA	NA	NA	5	1	11	2	4	1	NA	NA	NA	NA	NA	NA	21	4	24
South Asia	NA	NA	NA	NA	71	13	167	34	84	18	NA	NA	NA	NA	NA	NA	323	66	389
Sub-Saharan Africa	NA	NA	NA	NA	8	1	16	2	9	1	NA	NA	NA	NA	NA	NA	33	4	37
Low- and middle-income countries	NA	NA	NA	NA	115	25	272	63	142	35	NA	NA	NA	NA	NA	NA	528	123	651
High-income countries	NA	NA	NA	NA	15	8	41	23	23	13	NA	NA	NA	NA	NA	NA	79	44	123
WORLD	NA	NA	NA	NA	130	34	313	86	164	48	NA	NA	NA	NA	NA	NA	607	167	774
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	8	1	21	3	11	2	NA	NA	NA	NA	NA	NA	40	5	45
Europe and Central Asia	NA	NA	NA	NA	21	8	50	18	29	10	NA	NA	NA	NA	NA	NA	100	36	136
Latin America and the Caribbean	NA	NA	NA	NA	3	2	8	6	5	3	NA	NA	NA	NA	NA	NA	16	11	27
Middle East and North Africa	NA	NA	NA	NA	5	1	11	2	4	1	NA	NA	NA	NA	NA	NA	21	4	25
South Asia	NA	NA	NA	NA	77	16	170	36	86	19	NA	NA	NA	NA	NA	NA	333	71	404
Sub-Saharan Africa	NA	NA	NA	NA	8	1	17	2	9	1	NA	NA	NA	NA	NA	NA	34	5	38
Low- and middle-income countries	NA	NA	NA	NA	122	29	277	67	144	36	NA	NA	NA	NA	NA	NA	543	132	675
High-income countries	NA	NA	NA	NA	15	9	43	25	23	14	NA	NA	NA	NA	NA	NA	81	48	130
WORLD	NA	NA	NA	NA	137	39	320	92	167	50	NA	NA	NA	NA	NA	NA	624	180	804

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.84

Risk factor: Illicit drug use
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	0	0	0	0	2	1	3	1	1	0	0	0	0	0	0	0	1	0	0
Europe and Central Asia	0	0	0	0	4	4	5	3	1	1	0	0	0	0	0	0	1	0	1
Latin America and the Caribbean	0	0	0	0	1	2	2	2	1	1	0	0	0	0	0	0	1	0	0
Middle East and North Africa	0	0	0	0	4	2	10	3	4	1	0	0	0	0	0	0	2	0	1
South Asia	0	0	0	0	2	0	4	1	1	0	0	0	0	0	0	0	1	0	0
Sub-Saharan Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	0	0	0	0	2	0	3	1	1	0	0	0	0	0	0	0	1	0	0
High-income countries	0	0	0	0	5	5	7	6	2	1	0	0	0	0	0	0	1	0	0
WORLD	0	0	0	0	2	1	3	1	1	1	0	0	0	0	0	0	1	0	0
PAF of YLL (%)																			
East Asia and Pacific	0	0	0	0	2	1	3	1	1	0	0	0	0	0	0	0	1	0	1
Europe and Central Asia	0	0	0	0	4	4	5	3	2	1	0	0	0	0	0	0	2	1	1
Latin America and the Caribbean	0	0	0	0	1	2	2	2	1	1	0	0	0	0	0	0	1	1	1
Middle East and North Africa	0	0	0	0	4	2	10	3	4	1	0	0	0	0	0	0	2	1	1
South Asia	0	0	0	0	2	0	4	1	1	0	0	0	0	0	0	0	1	0	0
Sub-Saharan Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	0	0	0	0	2	0	3	1	1	0	0	0	0	0	0	0	1	0	0
High-income countries	0	0	0	0	5	5	7	6	2	1	0	0	0	0	0	0	1	1	1
WORLD	0	0	0	0	2	1	3	1	1	1	0	0	0	0	0	0	1	0	1
PAF of DALYs (%)																			
East Asia and Pacific	0	0	0	0	2	0	2	1	1	0	0	0	0	0	0	0	1	0	0
Europe and Central Asia	0	0	0	0	5	3	5	2	1	1	0	0	0	0	0	0	2	1	1
Latin America and the Caribbean	0	0	0	0	4	2	3	2	1	0	0	0	0	0	0	0	1	1	1
Middle East and North Africa	0	0	0	0	6	1	7	2	3	1	0	0	0	0	0	0	2	1	1
South Asia	0	0	0	0	2	0	3	1	1	0	0	0	0	0	0	0	1	0	0
Sub-Saharan Africa	0	0	0	0	2	1	1	0	1	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	0	0	0	0	3	1	2	1	1	0	0	0	0	0	0	0	1	0	1
High-income countries	0	0	1	0	7	3	5	4	1	1	0	0	0	0	0	0	2	1	1
WORLD	0	0	0	0	3	1	3	1	1	0	0	0	0	0	0	0	1	0	1
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	0	0	7	2	20	4	10	3	0	0	0	0	0	0	37	8	45
Europe and Central Asia	0	0	0	0	6	2	16	3	9	2	1	0	0	0	0	0	32	7	39
Latin America and the Caribbean	0	0	0	0	2	1	5	2	3	1	0	0	0	0	0	0	10	5	14
Middle East and North Africa	0	0	0	0	3	1	9	2	6	1	0	0	0	0	0	0	19	4	22
South Asia	0	0	0	0	9	2	24	5	15	3	1	0	0	0	0	0	48	10	58
Sub-Saharan Africa	0	0	0	0	2	0	4	1	3	0	0	0	0	0	0	0	8	1	10
Low- and middle-income countries	0	0	0	0	28	7	78	17	45	11	2	0	0	0	0	0	154	35	189
High-income countries	0	0	0	0	4	2	13	6	8	4	0	0	0	0	0	0	25	12	37
WORLD	0	0	0	0	33	9	91	23	53	15	2	0	0	0	0	0	179	47	226
Attributable YLL (thousands)																			
East Asia and Pacific	0	0	0	0	190	42	482	88	197	60	2	0	0	0	0	0	871	191	1,061
Europe and Central Asia	1	0	0	0	159	46	395	83	179	45	8	2	1	1	0	0	743	178	921
Latin America and the Caribbean	0	0	0	0	52	33	122	61	53	23	1	0	0	0	0	0	227	117	345
Middle East and North Africa	0	0	0	0	90	19	210	44	121	26	5	1	1	0	0	0	428	90	517
South Asia	0	0	0	0	238	51	582	120	290	63	7	2	1	1	0	0	1,120	236	1,356
Sub-Saharan Africa	0	0	0	0	43	7	98	16	49	10	1	0	0	0	0	0	191	33	223
Low- and middle-income countries	1	0	0	0	772	198	1,888	411	890	227	23	6	4	2	1	1	3,579	845	4,424
High-income countries	0	0	0	0	121	51	301	150	155	80	1	1	0	0	0	0	578	282	860
WORLD	1	0	1	0	893	248	2,189	561	1,044	308	24	7	4	2	1	1	4,157	1,127	5,284
Attributable DALYs (thousands)																			
East Asia and Pacific	0	0	17	9	417	98	606	112	220	64	2	0	0	0	0	0	1,262	284	1,547
Europe and Central Asia	1	0	5	5	404	141	518	128	203	56	9	3	1	1	0	0	1,140	334	1,474
Latin America and the Caribbean	0	0	7	7	427	165	269	123	77	36	1	1	0	0	0	0	782	332	1,114
Middle East and North Africa	0	0	6	5	302	60	290	61	139	30	6	1	1	0	0	0	743	158	901
South Asia	0	0	23	7	432	77	689	139	305	66	7	2	1	1	0	0	1,458	292	1,750
Sub-Saharan Africa	0	0	11	9	509	149	242	73	86	22	2	1	0	0	0	0	851	254	1,104
Low- and middle-income countries	1	0	68	42	2,492	690	2,614	636	1,030	275	27	8	4	2	1	1	6,237	1,653	7,890
High-income countries	0	0	10	6	571	211	570	287	230	132	4	2	0	0	0	0	1,385	640	2,024
WORLD	1	0	79	48	3,062	901	3,184	924	1,260	407	31	10	4	2	1	1	7,621	2,293	9,914

Source: Authors' calculations.

Table 4A.85

Risk factor: Unsafe water, sanitation, and hygiene
Disease: Diarrheal diseases

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Europe and Central Asia	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	85	86	86	86
Latin America and the Caribbean	87	87	87	87	87	87	87	87	87	87	87	87	87	87	86	87	87	87	87
Middle East and North Africa	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
South Asia	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Sub-Saharan Africa	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Low- and middle-income countries	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
High-income countries	66	65	66	65	66	66	66	65	64	64	64	64	62	63	61	62	63	62	62
WORLD	88	88	88	88	88	88	88	88	88	88	88	88	87	87	87	86	88	88	88
PAF of YLL (%)																			
East Asia and Pacific	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Europe and Central Asia	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	85	86	86	86
Latin America and the Caribbean	87	87	87	87	87	87	87	87	87	87	87	87	87	87	86	87	87	87	87
Middle East and North Africa	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
South Asia	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Sub-Saharan Africa	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Low- and middle-income countries	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
High-income countries	66	65	66	65	66	66	66	65	64	64	64	64	62	63	61	62	64	63	63
WORLD	88	88	88	88	88	88	88	88	88	88	88	88	87	87	87	86	88	88	88
PAF of DALYs (%)																			
East Asia and Pacific	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Europe and Central Asia	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	85	86	86	86
Latin America and the Caribbean	87	87	87	87	87	87	87	87	87	87	87	87	87	87	86	87	87	87	87
Middle East and North Africa	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
South Asia	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Sub-Saharan Africa	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
Low- and middle-income countries	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
High-income countries	66	65	66	65	66	66	66	65	64	64	64	64	62	63	61	62	65	65	65
WORLD	88	88	87	87	87	87	87	87	87	87	87	87	87	87	87	86	88	88	88
Attributable Mortality (thousands)																			
East Asia and Pacific	92	84	1	1	1	1	1	1	2	1	2	2	2	2	3	4	104	94	199
Europe and Central Asia	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6	13
Latin America and the Caribbean	21	19	0	0	0	0	0	0	1	0	1	1	1	1	1	1	25	23	47
Middle East and North Africa	30	28	0	0	0	0	0	0	1	0	1	0	1	1	1	1	34	31	64
South Asia	289	265	1	1	2	1	4	1	5	3	5	4	6	6	8	10	319	292	611
Sub-Saharan Africa	297	270	1	1	2	1	4	2	6	4	6	5	7	7	7	10	329	299	629
Low- and middle-income countries	736	670	3	3	5	2	10	4	13	9	13	12	17	17	20	27	818	745	1,563
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	4
WORLD	736	671	3	3	5	2	10	4	14	9	13	12	17	18	21	28	819	747	1,567
Attributable YLL (thousands)																			
East Asia and Pacific	2,796	2,556	22	19	29	16	35	16	35	25	24	25	19	23	12	17	2,973	2,697	5,670
Europe and Central Asia	166	148	3	3	5	3	6	3	4	3	2	2	1	2	0	1	187	166	353
Latin America and the Caribbean	641	581	4	4	6	3	9	5	10	8	7	8	7	8	5	7	689	623	1,312
Middle East and North Africa	903	840	12	6	7	2	12	4	11	7	7	7	6	7	4	5	962	878	1,840
South Asia	8,757	8,086	24	24	44	18	87	35	88	62	62	66	55	62	38	48	9,155	8,402	17,557
Sub-Saharan Africa	8,990	8,217	25	26	47	20	93	42	104	77	74	78	61	77	34	49	9,429	8,585	18,014
Low- and middle-income countries	22,254	20,428	89	82	137	61	242	105	253	182	177	185	150	178	94	128	23,396	21,350	44,746
High-income countries	5	4	0	0	0	0	1	0	2	1	2	2	3	4	3	6	15	18	33
WORLD	22,259	20,432	89	83	137	61	243	105	255	183	180	187	153	183	97	133	23,412	21,368	44,780
Attributable DALYs (thousands)																			
East Asia and Pacific	3,237	2,967	153	140	197	175	201	174	138	122	64	64	38	46	17	25	4,046	3,713	7,758
Europe and Central Asia	238	217	11	11	13	11	13	11	9	9	5	5	3	5	1	2	292	270	561
Latin America and the Caribbean	855	787	98	94	34	31	29	26	22	20	12	13	9	11	5	8	1,063	990	2,053
Middle East and North Africa	1,051	982	41	34	20	14	19	11	15	11	8	9	7	8	4	6	1,166	1,073	2,238
South Asia	9,505	8,791	162	153	118	86	122	67	109	82	70	74	59	66	39	50	10,183	9,370	19,552
Sub-Saharan Africa	9,530	8,748	141	141	82	55	112	61	114	88	78	82	63	79	35	49	10,156	9,303	19,459
Low- and middle-income countries	24,416	22,491	606	573	464	372	496	350	407	332	237	247	179	214	101	139	26,905	24,717	51,622
High-income countries	79	74	9	8	13	12	15	14	12	12	7	7	6	8	4	8	145	144	289
WORLD	24,495	22,565	615	582	477	384	511	364	419	343	244	254	185	222	105	147	27,050	24,862	51,911

Source: Authors' calculations.

Table 4A.86

Risk factor: Unsafe water, sanitation, and hygiene
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	13	12	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Europe and Central Asia	6	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	9	11	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1
Middle East and North Africa	13	14	1	1	0	0	1	0	0	0	0	0	0	0	1	1	3	4	3
South Asia	16	14	0	0	0	0	1	0	0	0	0	0	1	1	2	2	4	5	5
Sub-Saharan Africa	13	13	0	0	0	0	0	0	1	1	1	1	2	2	4	4	6	6	6
Low- and middle-income countries	14	13	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	3	3
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	14	13	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	3	3
PAF of YLL (%)																			
East Asia and Pacific	13	12	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
Europe and Central Asia	6	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Latin America and the Caribbean	9	11	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2
Middle East and North Africa	13	14	1	1	0	0	1	0	0	0	0	0	0	0	1	1	5	6	5
South Asia	16	15	0	0	0	0	1	0	0	0	0	0	1	1	1	2	7	6	6
Sub-Saharan Africa	13	13	0	0	0	0	0	0	1	1	1	1	2	2	4	4	7	7	7
Low- and middle-income countries	14	13	0	0	0	0	0	0	0	0	0	0	0	0	1	1	5	5	5
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	14	13	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	5	5
PAF of DALYs (%)																			
East Asia and Pacific	10	9	2	2	1	1	1	1	0	0	0	0	0	0	0	0	2	2	2
Europe and Central Asia	5	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Latin America and the Caribbean	7	7	3	3	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Middle East and North Africa	9	10	2	1	0	0	0	0	0	0	0	0	0	0	1	1	3	3	3
South Asia	13	12	1	1	0	0	0	0	0	0	0	0	0	0	1	1	5	5	5
Sub-Saharan Africa	11	11	1	1	0	0	0	0	1	1	1	1	2	2	3	3	6	5	6
Low- and middle-income countries	11	11	1	1	0	0	0	0	0	0	0	0	0	0	1	1	4	4	4
High-income countries	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	11	11	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3
Attributable Mortality (thousands)																			
East Asia and Pacific	92	84	1	1	1	1	1	1	2	1	2	2	2	2	3	4	104	94	199
Europe and Central Asia	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6	13
Latin America and the Caribbean	21	19	0	0	0	0	0	0	1	0	1	1	1	1	1	1	25	23	47
Middle East and North Africa	30	28	0	0	0	0	0	0	1	0	1	0	1	1	1	1	34	31	64
South Asia	289	265	1	1	2	1	4	1	5	3	5	4	6	6	8	10	319	292	611
Sub-Saharan Africa	297	270	1	1	2	1	4	2	6	4	6	5	7	7	7	10	329	299	629
Low- and middle-income countries	736	670	3	3	5	2	10	4	13	9	13	12	17	17	20	27	818	745	1,563
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	4
WORLD	736	671	3	3	5	2	10	4	14	9	13	12	17	18	21	28	819	747	1,567
Attributable YLL (thousands)																			
East Asia and Pacific	2,796	2,556	22	19	29	16	35	16	35	25	24	25	19	23	12	17	2,973	2,697	5,670
Europe and Central Asia	166	148	3	3	5	3	6	3	4	3	2	2	1	2	0	1	187	166	353
Latin America and the Caribbean	641	581	4	4	6	3	9	5	10	8	7	8	7	8	5	7	689	623	1,312
Middle East and North Africa	903	840	12	6	7	2	12	4	11	7	7	7	6	7	4	5	962	878	1,840
South Asia	8,757	8,086	24	24	44	18	87	35	88	62	62	66	55	62	38	48	9,155	8,402	17,557
Sub-Saharan Africa	8,990	8,217	25	26	47	20	93	42	104	77	74	78	61	77	34	49	9,429	8,585	18,014
Low- and middle-income countries	22,254	20,428	89	82	137	61	242	105	253	182	177	185	150	178	94	128	23,396	21,350	44,746
High-income countries	5	4	0	0	0	0	1	0	2	1	2	2	3	4	3	6	15	18	33
WORLD	22,259	20,432	89	83	137	61	243	105	255	183	180	187	153	183	97	133	23,412	21,368	44,780
Attributable DALYs (thousands)																			
East Asia and Pacific	3,237	2,967	153	140	197	175	201	174	138	122	64	64	38	46	17	25	4,046	3,713	7,758
Europe and Central Asia	238	217	11	11	13	11	13	11	9	9	5	5	3	5	1	2	292	270	561
Latin America and the Caribbean	855	787	98	94	34	31	29	26	22	20	12	13	9	11	5	8	1,063	990	2,053
Middle East and North Africa	1,051	982	41	34	20	14	19	11	15	11	8	9	7	8	4	6	1,166	1,073	2,238
South Asia	9,505	8,791	162	153	118	86	122	67	109	82	70	74	59	66	39	50	10,183	9,370	19,552
Sub-Saharan Africa	9,530	8,748	141	141	82	55	112	61	114	88	78	82	63	79	35	49	10,156	9,303	19,459
Low- and middle-income countries	24,416	22,491	606	573	464	372	496	350	407	332	237	247	179	214	101	139	26,905	24,717	51,622
High-income countries	79	74	9	8	13	12	15	14	12	12	7	7	6	8	4	8	145	144	289
WORLD	24,495	22,565	615	582	477	384	511	364	419	343	244	254	185	222	105	147	27,050	24,862	51,911

Source: Authors' calculations.

Table 4A.87

Risk factor: Child sexual abuse
Disease: Unipolar depressive disorders

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	3	4	4	5	4	5	4	5	4	5	4	5	4	5	4
Europe and Central Asia	NA	NA	NA	NA	2	5	3	7	3	7	3	7	3	7	3	7	2	6	5
Latin America and the Caribbean	NA	NA	NA	NA	2	2	4	3	4	3	4	3	4	3	4	3	3	3	3
Middle East and North Africa	NA	NA	NA	NA	2	5	3	7	3	7	3	7	3	7	3	7	2	5	4
South Asia	NA	NA	NA	NA	*	9	6	13	6	13	6	13	*	13	*	13	6	13	10
Sub-Saharan Africa	NA	NA	NA	NA	*	6	4	*	4	*	*	*	*	*	*	*	4	6	5
Low- and middle-income countries	NA	NA	NA	NA	2	5	6	11	6	11	6	11	3	5	3	4	6	11	9
High-income countries	NA	NA	NA	NA	1	4	1	6	2	6	1	6	1	6	1	6	1	6	4
WORLD	NA	NA	NA	NA	2	5	6	11	6	11	6	11	2	6	2	6	5	10	8
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	3	4	4	5	4	5	4	5	4	5	4	5	4	5	4
Europe and Central Asia	NA	NA	NA	NA	2	5	3	7	3	7	3	7	3	7	3	7	2	6	5
Latin America and the Caribbean	NA	NA	NA	NA	2	2	4	3	4	3	4	3	4	3	4	3	3	3	3
Middle East and North Africa	NA	NA	NA	NA	2	5	3	7	3	7	3	7	3	7	3	7	2	4	3
South Asia	NA	NA	NA	NA	*	9	6	13	6	13	6	13	*	13	*	13	6	13	10
Sub-Saharan Africa	NA	NA	NA	NA	*	6	4	*	4	*	*	*	*	*	*	*	4	6	5
Low- and middle-income countries	NA	NA	NA	NA	2	5	6	11	6	11	6	11	3	5	3	4	6	11	9
High-income countries	NA	NA	NA	NA	1	4	1	6	2	6	1	6	1	6	1	6	1	6	4
WORLD	NA	NA	NA	NA	2	5	6	11	6	11	6	11	2	6	2	6	6	11	8
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	3	4	4	5	4	5	4	5	4	5	4	5	3	4	4
Europe and Central Asia	NA	NA	NA	NA	2	5	3	7	3	7	3	7	3	7	3	7	2	6	4
Latin America and the Caribbean	NA	NA	NA	NA	2	2	4	3	4	3	4	3	4	3	4	3	3	2	2
Middle East and North Africa	NA	NA	NA	NA	2	5	3	7	3	7	3	7	3	7	3	7	2	5	4
South Asia	NA	NA	NA	NA	5	9	6	13	6	13	6	13	6	13	6	13	5	10	8
Sub-Saharan Africa	NA	NA	NA	NA	3	6	4	8	4	8	4	8	4	8	4	8	3	6	5
Low- and middle-income countries	NA	NA	NA	NA	3	6	4	8	4	7	4	7	4	7	4	7	3	6	5
High-income countries	NA	NA	NA	NA	1	4	1	6	2	6	1	6	1	6	1	6	1	5	4
WORLD	NA	NA	NA	NA	3	6	4	7	4	7	4	7	3	7	3	6	3	6	5
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	3	3	2	6	1	2	0	0	0	0	5	11	17
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	3	3	2	7	1	2	0	0	0	0	6	12	18
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
WORLD	NA	NA	NA	NA	0	0	3	3	2	7	1	2	0	0	0	0	6	13	19
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	50	64	61	120	43	108	12	33	2	8	0	2	169	335	504
Europe and Central Asia	NA	NA	NA	NA	9	32	11	58	8	41	3	19	1	6	0	1	32	158	190
Latin America and the Caribbean	NA	NA	NA	NA	15	23	21	31	11	17	3	5	1	1	0	0	51	77	129
Middle East and North Africa	NA	NA	NA	NA	5	19	8	27	4	14	1	4	0	1	0	0	18	65	83
South Asia	NA	NA	NA	NA	92	292	105	348	58	189	17	66	3	13	1	3	275	911	1,186
Sub-Saharan Africa	NA	NA	NA	NA	13	40	14	44	7	23	2	7	0	1	0	0	37	116	153
Low- and middle-income countries	NA	NA	NA	NA	184	470	220	629	132	392	38	133	7	31	1	7	583	1,662	2,245
High-income countries	NA	NA	NA	NA	9	63	14	95	10	71	4	24	1	10	0	5	39	267	305
WORLD	NA	NA	NA	NA	193	532	234	724	142	463	42	157	9	40	2	12	622	1,928	2,550

Source: Authors' calculations.

Note: NA = not applicable.

* The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.88

Risk factor: Child sexual abuse
Disease: Alcohol use disorders

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	4	5	6	7	6	7	6	7	6	7	6	7	6	7	6
Europe and Central Asia	NA	NA	NA	NA	3	7	4	10	4	10	4	10	4	10	4	10	4	10	5
Latin America and the Caribbean	NA	NA	NA	NA	4	3	5	4	5	4	5	4	5	4	5	4	5	4	5
Middle East and North Africa	NA	NA	NA	NA	3	7	4	10	4	10	4	10	4	10	4	*	4	9	4
South Asia	NA	NA	NA	NA	7	13	9	17	9	17	9	17	9	17	9	17	9	17	10
Sub-Saharan Africa	NA	NA	NA	NA	5	8	7	11	7	11	7	11	7	11	7	*	7	11	8
Low- and middle-income countries	NA	NA	NA	NA	5	6	6	8	6	10	6	11	6	11	6	11	6	9	6
High-income countries	NA	NA	NA	NA	2	6	2	8	2	8	2	8	2	8	2	8	2	8	3
WORLD	NA	NA	NA	NA	5	6	5	8	5	9	5	10	5	10	5	10	5	9	6
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	4	5	6	7	6	7	6	7	6	7	6	7	5	7	6
Europe and Central Asia	NA	NA	NA	NA	3	7	4	10	4	10	4	10	4	10	4	10	4	9	5
Latin America and the Caribbean	NA	NA	NA	NA	4	3	5	4	5	4	5	4	5	4	5	4	5	4	5
Middle East and North Africa	NA	NA	NA	NA	3	7	4	10	4	10	4	10	4	10	4	*	4	9	4
South Asia	NA	NA	NA	NA	7	13	9	17	9	17	9	17	9	17	9	17	9	17	9
Sub-Saharan Africa	NA	NA	NA	NA	5	8	7	11	7	11	7	11	7	11	7	*	7	11	8
Low- and middle-income countries	NA	NA	NA	NA	5	6	6	8	6	10	6	11	6	11	6	11	6	9	6
High-income countries	NA	NA	NA	NA	2	6	2	8	2	8	2	8	2	8	2	8	2	8	3
WORLD	NA	NA	NA	NA	5	6	5	8	5	9	5	10	5	10	5	10	5	9	6
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	4	5	6	7	6	7	6	7	6	7	6	7	5	6	5
Europe and Central Asia	NA	NA	NA	NA	3	7	4	10	4	10	4	10	4	10	4	10	3	9	4
Latin America and the Caribbean	NA	NA	NA	NA	4	3	5	4	5	4	5	4	5	4	5	4	4	3	4
Middle East and North Africa	NA	NA	NA	NA	3	7	4	10	4	10	4	10	4	10	4	10	4	9	4
South Asia	NA	NA	NA	NA	7	13	9	17	9	17	9	17	9	17	9	17	9	14	9
Sub-Saharan Africa	NA	NA	NA	NA	5	8	7	11	7	11	7	11	7	11	7	11	6	9	6
Low- and middle-income countries	NA	NA	NA	NA	4	5	6	7	6	8	6	9	6	10	6	10	5	6	5
High-income countries	NA	NA	NA	NA	2	6	2	8	2	8	2	8	2	8	2	8	2	7	3
WORLD	NA	NA	NA	NA	4	5	5	8	5	8	5	9	5	9	4	9	4	7	5
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Low- and middle-income countries	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	0	0	3	1	4
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
WORLD	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	0	0	4	1	5
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	4	1	5	1	1	0	0	0	0	0	11	2	14
Europe and Central Asia	NA	NA	NA	NA	0	0	2	1	3	1	1	0	0	0	0	0	6	3	9
Latin America and the Caribbean	NA	NA	NA	NA	1	0	6	0	6	0	2	0	1	0	0	0	16	1	17
Middle East and North Africa	NA	NA	NA	NA	1	0	1	0	1	0	0	0	0	0	0	0	3	0	3
South Asia	NA	NA	NA	NA	4	0	8	0	6	1	3	1	1	0	0	0	21	3	24
Sub-Saharan Africa	NA	NA	NA	NA	0	0	3	1	2	1	1	0	0	1	0	0	6	4	10
Low- and middle-income countries	NA	NA	NA	NA	6	1	24	4	22	6	7	2	2	1	0	0	62	14	76
High-income countries	NA	NA	NA	NA	0	0	2	2	3	3	1	1	0	1	0	0	7	7	14
WORLD	NA	NA	NA	NA	7	1	26	5	25	9	9	4	3	2	0	0	69	21	90
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	61	11	84	13	37	5	6	0	1	0	0	0	189	31	220
Europe and Central Asia	NA	NA	NA	NA	18	8	22	10	11	6	2	1	0	0	0	0	53	25	78
Latin America and the Caribbean	NA	NA	NA	NA	48	9	32	5	20	3	4	1	1	0	0	0	105	18	123
Middle East and North Africa	NA	NA	NA	NA	1	0	1	0	1	0	0	0	0	0	0	0	3	0	3
South Asia	NA	NA	NA	NA	25	2	51	2	18	2	4	1	1	0	0	0	98	7	105
Sub-Saharan Africa	NA	NA	NA	NA	13	2	13	3	7	2	1	0	0	1	0	0	35	8	43
Low- and middle-income countries	NA	NA	NA	NA	166	32	204	34	93	18	17	4	4	1	1	0	484	89	573
High-income countries	NA	NA	NA	NA	20	21	29	26	14	12	2	2	1	1	0	0	66	63	129
WORLD	NA	NA	NA	NA	186	53	232	60	107	30	19	6	5	2	1	0	550	152	702

Source: Authors' calculations.

Note: NA = not applicable.

* The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.89

Risk factor: Child sexual abuse
Disease: Drug use disorders

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	4	6	5	8	5	8	5	8	5	8	5	8	5	8	6
Europe and Central Asia	NA	NA	NA	NA	3	8	4	11	4	11	4	11	4	11	4	11	4	10	5
Latin America and the Caribbean	NA	NA	NA	NA	4	3	6	5	6	5	6	5	6	5	6	5	6	5	5
Middle East and North Africa	NA	NA	NA	NA	4	8	5	11	5	11	5	11	5	11	5	11	5	10	6
South Asia	NA	NA	NA	NA	8	15	11	20	11	20	11	20	10	20	10	20	10	19	12
Sub-Saharan Africa	NA	NA	NA	NA	5	9	7	12	7	12	7	12	7	12	7	12	7	12	8
Low- and middle-income countries	NA	NA	NA	NA	5	10	7	14	7	14	7	13	7	13	7	14	7	13	8
High-income countries	NA	NA	NA	NA	2	7	3	9	3	9	3	9	3	9	3	9	2	9	4
WORLD	NA	NA	NA	NA	5	10	7	13	7	13	6	13	7	13	7	13	6	13	7
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	4	6	5	8	5	8	5	8	5	8	5	8	5	8	6
Europe and Central Asia	NA	NA	NA	NA	3	8	4	11	4	11	4	11	4	11	4	11	4	10	5
Latin America and the Caribbean	NA	NA	NA	NA	4	3	6	5	6	5	6	5	6	5	6	5	5	5	5
Middle East and North Africa	NA	NA	NA	NA	4	8	5	11	5	11	5	11	5	11	5	11	5	10	6
South Asia	NA	NA	NA	NA	8	15	11	20	11	20	11	20	10	20	10	20	10	19	12
Sub-Saharan Africa	NA	NA	NA	NA	5	9	7	12	7	12	7	12	7	12	7	12	7	12	8
Low- and middle-income countries	NA	NA	NA	NA	5	10	7	14	7	14	7	13	7	13	7	14	7	13	8
High-income countries	NA	NA	NA	NA	2	7	3	9	3	9	3	9	3	9	3	9	2	9	4
WORLD	NA	NA	NA	NA	5	10	7	13	7	13	6	13	7	13	7	13	6	12	7
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	4	6	5	8	5	8	5	8	5	8	5	8	4	6	5
Europe and Central Asia	NA	NA	NA	NA	3	8	4	11	4	11	4	11	4	11	4	11	4	9	5
Latin America and the Caribbean	NA	NA	NA	NA	4	3	6	5	6	5	6	5	6	5	6	5	5	4	4
Middle East and North Africa	NA	NA	NA	NA	4	8	5	11	5	11	5	11	5	11	5	11	4	9	5
South Asia	NA	NA	NA	NA	8	15	11	20	11	20	11	20	10	20	10	20	9	17	11
Sub-Saharan Africa	NA	NA	NA	NA	5	9	7	12	7	12	7	12	7	12	7	12	6	10	7
Low- and middle-income countries	NA	NA	NA	NA	5	7	7	12	7	13	7	12	7	13	7	14	6	9	6
High-income countries	NA	NA	NA	NA	2	7	3	9	3	9	3	9	3	9	3	9	2	8	3
WORLD	NA	NA	NA	NA	4	7	6	11	6	12	6	12	7	13	7	13	5	9	6
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	0	0	2	1	3
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	1	0	2	1	1	1	0	0	0	0	0	0	4	2	6
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	1	0	2	1	1	1	0	0	0	0	0	0	4	2	6
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	1	0	4	1	2	1	0	0	0	0	0	0	7	3	9
Europe and Central Asia	NA	NA	NA	NA	1	1	4	2	3	2	0	0	0	0	0	0	9	5	13
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	0	0	3	0	3
Middle East and North Africa	NA	NA	NA	NA	3	1	9	4	5	2	0	0	0	0	0	0	17	8	25
South Asia	NA	NA	NA	NA	9	3	30	12	15	7	1	0	0	0	0	0	55	22	77
Sub-Saharan Africa	NA	NA	NA	NA	1	0	2	1	1	1	0	0	0	0	0	0	5	2	7
Low- and middle-income countries	NA	NA	NA	NA	16	6	50	21	27	12	2	1	0	0	0	0	95	39	134
High-income countries	NA	NA	NA	NA	1	1	3	3	1	1	0	0	0	0	0	0	6	5	11
WORLD	NA	NA	NA	NA	17	7	53	23	29	13	2	1	0	0	0	0	100	44	145
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	7	2	6	2	2	1	0	0	0	0	0	0	15	5	20
Europe and Central Asia	NA	NA	NA	NA	6	5	7	4	3	2	0	0	0	0	0	0	17	12	28
Latin America and the Caribbean	NA	NA	NA	NA	15	4	9	2	2	0	0	0	0	0	0	0	26	7	33
Middle East and North Africa	NA	NA	NA	NA	10	4	12	5	6	3	0	0	0	0	0	0	28	13	41
South Asia	NA	NA	NA	NA	22	5	37	13	16	7	1	0	0	0	0	0	76	25	101
Sub-Saharan Africa	NA	NA	NA	NA	24	13	12	8	4	2	0	0	0	0	0	0	40	22	62
Low- and middle-income countries	NA	NA	NA	NA	85	34	83	35	32	15	2	1	0	0	0	0	201	84	286
High-income countries	NA	NA	NA	NA	9	10	9	9	3	3	0	0	0	0	0	0	20	23	43
WORLD	NA	NA	NA	NA	93	44	91	44	35	18	2	1	0	0	0	0	221	108	329

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.90

Risk factor: Child sexual abuse
Disease: Post-traumatic stress disorder

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	18	*	23	*	23	28	23	28	23	28	24	28	24	28	26
Europe and Central Asia	NA	NA	NA	NA	12	28	16	35	16	35	16	35	16	35	16	35	15	32	28
Latin America and the Caribbean	NA	NA	NA	NA	16	13	22	18	22	18	22	18	22	18	22	18	22	1	20
Middle East and North Africa	NA	NA	NA	NA	14	28	18	35	18	35	18	35	18	35	18	35	14	23	19
South Asia	NA	NA	NA	NA	*	*	34	*	33	52	*	52	*	*	33	*	33	52	40
Sub-Saharan Africa	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Low- and middle-income countries	NA	NA	NA	NA	13	28	27	35	24	32	19	31	18	34	24	35	23	30	26
High-income countries	NA	NA	NA	NA	7	25	10	32	10	32	10	32	10	32	10	32	10	32	22
WORLD	NA	NA	NA	NA	9	28	27	35	19	32	16	31	10	32	24	34	18	31	25
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	18	*	23	*	23	28	23	28	23	28	24	28	23	28	26
Europe and Central Asia	NA	NA	NA	NA	12	28	16	35	16	35	16	35	16	35	16	35	14	31	27
Latin America and the Caribbean	NA	NA	NA	NA	16	13	22	18	22	18	22	18	22	18	22	18	22	1	18
Middle East and North Africa	NA	NA	NA	NA	14	28	18	35	18	35	18	35	18	35	18	35	12	18	15
South Asia	NA	NA	NA	NA	*	*	34	*	33	52	*	52	*	*	33	*	33	52	39
Sub-Saharan Africa	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Low- and middle-income countries	NA	NA	NA	NA	13	28	27	35	24	32	18	31	18	34	24	35	22	28	25
High-income countries	NA	NA	NA	NA	7	25	10	32	10	32	10	32	10	32	10	32	9	32	20
WORLD	NA	NA	NA	NA	9	28	27	35	18	32	16	31	10	32	24	34	18	29	24
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	18	22	23	28	23	28	23	28	23	28	24	28	20	25	24
Europe and Central Asia	NA	NA	NA	NA	12	28	16	35	16	35	16	35	16	35	16	35	14	31	26
Latin America and the Caribbean	NA	NA	NA	NA	16	13	22	18	22	18	22	18	22	18	22	18	18	16	16
Middle East and North Africa	NA	NA	NA	NA	14	28	18	35	18	35	18	35	18	35	18	35	15	30	26
South Asia	NA	NA	NA	NA	26	43	34	52	33	52	33	52	33	51	33	52	28	46	41
Sub-Saharan Africa	NA	NA	NA	NA	19	31	26	39	26	39	26	39	26	39	26	40	20	34	30
Low- and middle-income countries	NA	NA	NA	NA	19	30	25	35	25	36	24	33	23	34	25	33	21	32	29
High-income countries	NA	NA	NA	NA	7	25	10	32	10	32	10	32	10	32	10	32	9	29	24
WORLD	NA	NA	NA	NA	18	29	23	34	22	35	19	33	18	33	19	32	19	31	28
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	15	53	17	58	9	21	0	1	0	1	0	0	42	134	176
Europe and Central Asia	NA	NA	NA	NA	3	19	3	16	2	6	0	1	0	1	0	0	7	43	51
Latin America and the Caribbean	NA	NA	NA	NA	5	7	4	8	2	3	0	0	0	0	0	0	10	19	29
Middle East and North Africa	NA	NA	NA	NA	3	15	2	9	1	3	0	0	0	0	0	0	5	27	33
South Asia	NA	NA	NA	NA	20	89	15	62	7	32	0	1	0	1	0	0	42	184	226
Sub-Saharan Africa	NA	NA	NA	NA	7	30	4	16	2	8	0	0	0	0	0	0	12	55	67
Low- and middle-income countries	NA	NA	NA	NA	53	214	44	170	22	73	1	4	0	2	0	1	120	463	582
High-income countries	NA	NA	NA	NA	3	27	4	27	2	22	0	1	0	1	0	0	8	79	87
WORLD	NA	NA	NA	NA	55	241	48	197	24	95	1	5	0	3	0	1	128	541	670

Source: Authors' calculations.

Note: NA = not applicable.

* The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.91

Risk factor: Child sexual abuse
Disease: Panic disorder

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Europe and Central Asia	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Latin America and the Caribbean	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Middle East and North Africa	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
South Asia	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sub-Saharan Africa	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Low- and middle-income countries	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
High-income countries	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WORLD	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Europe and Central Asia	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Latin America and the Caribbean	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Middle East and North Africa	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
South Asia	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Sub-Saharan Africa	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Low- and middle-income countries	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
High-income countries	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WORLD	NA	NA	NA	NA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	6	9	8	11	8	11	8	11	8	11	8	11	6	9	8
Europe and Central Asia	NA	NA	NA	NA	4	11	6	15	6	15	6	15	6	15	6	15	4	11	9
Latin America and the Caribbean	NA	NA	NA	NA	6	5	8	7	8	7	8	7	8	7	8	7	6	5	5
Middle East and North Africa	NA	NA	NA	NA	5	11	7	15	7	15	7	15	7	15	7	15	5	11	9
South Asia	NA	NA	NA	NA	10	20	14	27	14	27	14	27	14	27	13	27	10	20	16
Sub-Saharan Africa	NA	NA	NA	NA	7	13	9	18	9	18	9	18	9	18	9	18	6	13	11
Low- and middle-income countries	NA	NA	NA	NA	7	12	9	16	9	16	9	16	9	15	9	15	7	12	10
High-income countries	NA	NA	NA	NA	2	10	4	13	4	13	4	13	3	13	3	13	2	10	8
WORLD	NA	NA	NA	NA	6	12	8	15	8	15	8	15	7	15	7	14	6	12	10
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	24	72	0	1	2	5	0	1	0	0	0	0	27	79	106
Europe and Central Asia	NA	NA	NA	NA	4	22	0	0	0	2	0	0	0	0	0	0	5	26	31
Latin America and the Caribbean	NA	NA	NA	NA	7	12	0	0	0	1	0	0	0	0	0	0	7	13	21
Middle East and North Africa	NA	NA	NA	NA	4	18	0	0	0	1	0	0	0	0	0	0	4	19	24
South Asia	NA	NA	NA	NA	35	131	1	2	2	7	0	1	0	1	0	0	37	141	178
Sub-Saharan Africa	NA	NA	NA	NA	10	42	0	1	0	2	0	0	0	0	0	0	11	45	55
Low- and middle-income countries	NA	NA	NA	NA	84	297	1	4	5	18	1	2	0	2	0	0	92	323	415
High-income countries	NA	NA	NA	NA	4	30	0	1	1	4	0	1	0	1	0	0	4	36	40
WORLD	NA	NA	NA	NA	88	327	2	5	6	22	1	3	0	2	0	0	96	359	455

Source: Authors' calculations.

Note: NA = not applicable.

* The number of deaths (and hence YLL) directly coded to a number of diseases, especially neuropsychiatric and musculoskeletal diseases, is zero or very small. For other diseases, mortality or disease burden may be zero in some region-age-sex groups. In such cases, the population attributable fractions would be undefined or unstable and have not been calculated.

Table 4A.92

Risk factor: Child sexual abuse
Disease: Self-inflicted injuries

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	4	6	5	7	5	7	5	7	5	7	5	8	5	7	6
Europe and Central Asia	NA	NA	NA	NA	3	7	4	10	4	10	4	10	4	10	4	10	4	9	5
Latin America and the Caribbean	NA	NA	NA	NA	4	3	5	4	5	4	5	4	5	4	5	4	5	4	4
Middle East and North Africa	NA	NA	NA	NA	3	8	4	10	4	10	4	10	4	10	4	10	4	8	6
South Asia	NA	NA	NA	NA	7	14	10	19	10	18	10	18	10	18	9	18	8	15	11
Sub-Saharan Africa	NA	NA	NA	NA	5	8	6	12	6	12	6	12	6	12	7	12	5	10	6
Low- and middle-income countries	NA	NA	NA	NA	5	10	6	11	6	11	5	9	6	9	6	10	6	10	7
High-income countries	NA	NA	NA	NA	2	6	2	9	2	9	2	9	2	9	2	9	2	8	4
WORLD	NA	NA	NA	NA	5	10	6	11	5	10	5	9	5	9	5	9	5	10	7
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	4	6	5	7	5	7	5	7	5	7	5	8	5	7	6
Europe and Central Asia	NA	NA	NA	NA	3	7	4	10	4	10	4	10	4	10	4	10	4	9	5
Latin America and the Caribbean	NA	NA	NA	NA	4	3	5	4	5	4	5	4	5	4	5	4	5	3	4
Middle East and North Africa	NA	NA	NA	NA	3	8	4	10	4	10	4	10	4	10	4	10	4	8	5
South Asia	NA	NA	NA	NA	7	14	10	19	10	18	10	18	10	18	9	18	8	15	11
Sub-Saharan Africa	NA	NA	NA	NA	5	8	6	12	6	12	6	12	6	12	7	12	5	9	6
Low- and middle-income countries	NA	NA	NA	NA	5	10	6	11	6	10	5	9	6	9	6	10	5	10	7
High-income countries	NA	NA	NA	NA	2	6	2	9	2	9	2	9	2	9	2	9	2	8	4
WORLD	NA	NA	NA	NA	5	10	6	11	5	10	5	9	5	9	5	9	5	10	7
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	4	6	5	7	5	7	5	7	5	7	5	8	4	7	6
Europe and Central Asia	NA	NA	NA	NA	3	7	4	10	4	10	4	10	4	10	4	10	4	9	5
Latin America and the Caribbean	NA	NA	NA	NA	4	3	5	4	5	4	5	4	5	4	5	4	4	3	4
Middle East and North Africa	NA	NA	NA	NA	3	8	4	10	4	10	4	10	4	10	4	10	4	8	5
South Asia	NA	NA	NA	NA	7	14	10	19	10	18	10	18	10	18	9	18	8	14	11
Sub-Saharan Africa	NA	NA	NA	NA	5	8	6	12	6	12	6	12	6	12	7	12	5	9	6
Low- and middle-income countries	NA	NA	NA	NA	5	10	6	11	6	10	5	9	6	9	6	10	5	10	7
High-income countries	NA	NA	NA	NA	2	6	2	9	2	9	2	9	2	9	2	9	2	8	4
WORLD	NA	NA	NA	NA	5	10	6	11	5	10	5	9	5	9	5	9	5	10	7
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	2	2	2	3	2	3	1	1	1	1	0	1	8	11	19
Europe and Central Asia	NA	NA	NA	NA	1	0	1	0	1	0	0	0	0	0	0	0	4	2	6
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Middle East and North Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
South Asia	NA	NA	NA	NA	4	7	4	4	2	3	1	1	1	1	0	0	11	15	26
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2
Low- and middle-income countries	NA	NA	NA	NA	7	10	8	8	5	6	3	2	2	2	1	1	25	29	54
High-income countries	NA	NA	NA	NA	0	0	1	1	1	1	0	0	0	0	0	0	2	3	5
WORLD	NA	NA	NA	NA	7	10	8	9	6	7	3	3	2	3	1	1	27	32	59
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	41	54	49	84	34	54	17	20	8	13	2	3	150	228	377
Europe and Central Asia	NA	NA	NA	NA	18	9	28	11	22	10	6	5	2	3	0	1	77	39	115
Latin America and the Caribbean	NA	NA	NA	NA	8	2	8	2	5	1	1	0	1	0	0	0	24	5	29
Middle East and North Africa	NA	NA	NA	NA	3	7	2	3	1	1	0	0	0	0	0	0	8	12	19
South Asia	NA	NA	NA	NA	103	188	92	96	38	54	8	8	5	6	1	2	247	355	602
Sub-Saharan Africa	NA	NA	NA	NA	12	8	11	6	7	4	2	1	1	0	0	0	33	18	51
Low- and middle-income countries	NA	NA	NA	NA	185	268	191	202	106	124	35	35	16	23	3	6	538	657	1,194
High-income countries	NA	NA	NA	NA	7	8	14	16	12	15	4	6	2	3	1	1	39	49	88
WORLD	NA	NA	NA	NA	192	276	205	217	118	139	39	40	18	26	4	7	577	706	1,283
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	42	59	50	88	34	55	17	21	8	13	2	3	153	240	393
Europe and Central Asia	NA	NA	NA	NA	19	9	29	12	22	11	6	5	2	3	0	1	78	41	119
Latin America and the Caribbean	NA	NA	NA	NA	9	3	8	2	5	1	2	0	1	0	0	0	24	6	30
Middle East and North Africa	NA	NA	NA	NA	4	7	3	3	1	1	0	0	0	0	0	0	8	12	20
South Asia	NA	NA	NA	NA	111	233	94	102	39	55	8	8	5	6	1	2	258	407	664
Sub-Saharan Africa	NA	NA	NA	NA	12	9	11	6	7	4	2	1	1	0	0	0	34	20	54
Low- and middle-income countries	NA	NA	NA	NA	196	320	195	212	108	127	35	36	17	24	3	6	555	726	1,280
High-income countries	NA	NA	NA	NA	7	8	15	17	12	16	4	6	2	4	1	1	41	53	94
WORLD	NA	NA	NA	NA	203	329	209	230	120	143	39	42	19	28	4	7	595	779	1,374

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.93

Risk factor: Child sexual abuse
Disease: All causes

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0
Europe and Central Asia	NA	NA	NA	NA	1	2	1	2	0	1	0	0	0	0	0	0	0	1	0
Latin America and the Caribbean	NA	NA	NA	NA	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	1	2	1	2	0	1	0	0	0	0	0	0	0	1	1
Sub-Saharan Africa	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0
High-income countries	NA	NA	NA	NA	1	2	1	2	0	1	0	0	0	0	0	0	0	1	0
WORLD	NA	NA	NA	NA	1	1	1	1	0	1	0	0	0	0	0	0	0	1	0
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	2	2	2	3	2	3	1	1	1	1	0	1	9	11	20
Europe and Central Asia	NA	NA	NA	NA	1	0	1	1	1	1	1	0	0	0	0	0	4	2	7
Latin America and the Caribbean	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	0	0	2	0	2
Middle East and North Africa	NA	NA	NA	NA	0	0	1	0	0	0	0	0	0	0	0	0	1	1	2
South Asia	NA	NA	NA	NA	4	7	5	4	3	3	1	1	1	1	0	0	15	16	31
Sub-Saharan Africa	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	0	0	2	1	3
Low- and middle-income countries	NA	NA	NA	NA	8	10	11	9	8	7	3	3	2	2	1	1	33	32	65
High-income countries	NA	NA	NA	NA	0	0	1	1	1	1	0	0	0	0	0	0	3	3	6
WORLD	NA	NA	NA	NA	8	10	12	10	9	8	4	3	2	3	1	1	36	36	71
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	43	55	57	86	40	56	18	21	8	13	2	3	168	234	402
Europe and Central Asia	NA	NA	NA	NA	19	9	34	14	27	13	8	6	3	3	0	1	91	47	137
Latin America and the Caribbean	NA	NA	NA	NA	10	2	16	2	11	1	3	0	1	0	0	0	42	7	49
Middle East and North Africa	NA	NA	NA	NA	7	9	13	7	7	4	1	1	0	0	0	0	27	20	48
South Asia	NA	NA	NA	NA	116	191	132	111	62	69	12	11	6	7	1	2	329	391	720
Sub-Saharan Africa	NA	NA	NA	NA	13	8	16	8	11	6	2	1	1	1	0	0	44	24	68
Low- and middle-income countries	NA	NA	NA	NA	208	274	267	229	158	149	45	40	19	24	4	6	700	722	1,423
High-income countries	NA	NA	NA	NA	8	9	19	20	17	19	5	7	2	4	1	2	52	61	114
WORLD	NA	NA	NA	NA	216	283	287	249	175	168	50	47	21	29	5	8	753	784	1,536
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	200	261	219	284	127	195	36	56	12	23	2	6	596	824	1,420
Europe and Central Asia	NA	NA	NA	NA	59	95	72	101	47	68	12	27	4	10	0	2	193	303	497
Latin America and the Caribbean	NA	NA	NA	NA	99	58	74	49	40	25	9	7	2	2	1	0	224	141	365
Middle East and North Africa	NA	NA	NA	NA	27	64	25	45	12	21	2	5	0	1	0	0	66	137	203
South Asia	NA	NA	NA	NA	305	752	302	528	138	291	30	77	9	21	2	5	786	1,675	2,461
Sub-Saharan Africa	NA	NA	NA	NA	79	136	55	77	27	41	5	9	2	3	0	0	168	266	434
Low- and middle-income countries	NA	NA	NA	NA	768	1,366	746	1,083	392	643	94	180	29	60	6	14	2,034	3,346	5,381
High-income countries	NA	NA	NA	NA	52	160	70	176	41	127	10	34	4	16	1	7	178	520	699
WORLD	NA	NA	NA	NA	819	1,526	817	1,259	433	770	104	213	33	76	7	21	2,212	3,867	6,079

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.94

Risk factor: Indoor smoke from household use of solid fuels
Disease: Lower respiratory infections

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	41	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	16	14
Europe and Central Asia	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	7	6
Latin America and the Caribbean	28	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	7	8
Middle East and North Africa	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	10	10
South Asia	52	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	31	30
Sub-Saharan Africa	53	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	34	37
Low- and middle-income countries	49	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	28	27	27
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	49	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	24	25
PAF of YLL (%)																			
East Asia and Pacific	41	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	27	24
Europe and Central Asia	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	11	10
Latin America and the Caribbean	28	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14	14
Middle East and North Africa	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	11
South Asia	52	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	40	40
Sub-Saharan Africa	53	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	37	41
Low- and middle-income countries	49	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37	35	36
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	49	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	34	35
PAF of DALYs (%)																			
East Asia and Pacific	41	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	27	24
Europe and Central Asia	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	11	10
Latin America and the Caribbean	28	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	16	16	16
Middle East and North Africa	14	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	11	11
South Asia	52	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40	40	40
Sub-Saharan Africa	53	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	37	41
Low- and middle-income countries	49	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36	35	36
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	49	48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	34	35
Attributable Mortality (thousands)																			
East Asia and Pacific	26	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	50	76
Europe and Central Asia	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	3	7
Latin America and the Caribbean	7	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	6	12
Middle East and North Africa	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	10
South Asia	213	215	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	213	215	429
Sub-Saharan Africa	230	167	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	230	167	397
Low- and middle-income countries	485	447	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	485	447	931
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	485	447	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	485	447	931
Attributable YLL (thousands)																			
East Asia and Pacific	776	1,530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	776	1,530	2,306
Europe and Central Asia	110	93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	110	93	203
Latin America and the Caribbean	199	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	199	170	370
Middle East and North Africa	164	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	164	150	314
South Asia	6,454	6,566	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,454	6,566	13,020
Sub-Saharan Africa	6,961	5,098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,961	5,098	12,059
Low- and middle-income countries	14,663	13,608	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14,663	13,608	28,271
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	14,663	13,608	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14,663	13,608	28,271
Attributable DALYs (thousands)																			
East Asia and Pacific	892	1,734	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	892	1,734	2,626
Europe and Central Asia	115	99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	115	99	214
Latin America and the Caribbean	252	222	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	252	222	475
Middle East and North Africa	178	163	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	178	163	341
South Asia	6,799	6,902	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,799	6,902	13,700
Sub-Saharan Africa	7,199	5,204	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,199	5,204	12,403
Low- and middle-income countries	15,435	14,325	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,435	14,325	29,761
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	15,436	14,325	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15,436	14,325	29,761

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.95

Risk factor: Indoor smoke from household use of solid fuels
Disease: Trachea, bronchus, and lung cancers

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	3	5	3	5	3	5	3	5	3	5	3	5	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	NA	NA	1	2	1	2	1	2	1	2	1	3	1	2	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	3	2	3	2	3	2	4	2	3	2	3	2
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	1	2	1	2	1	2	1	2	1	1	1	2	1
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	3	5	3	5	3	5	3	5	3	5	3	5	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	NA	NA	1	2	1	2	1	2	1	2	1	3	1	2	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	3	2	3	2	3	2	4	2	3	2	3	2
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	1	2	1	2	1	2	1	2	1	1	1	2	1
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	3	5	3	5	3	5	3	5	3	5	3	5	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	NA	NA	1	2	1	2	1	2	1	2	1	3	1	2	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	3	2	3	2	3	2	4	2	3	2	3	2
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	1	2	1	2	1	2	1	2	1	1	1	2	1
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	0	2	1	3	2	2	2	1	1	8	6	14
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	1	0	0	0	0	0	1	1	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	0	0	2	2	3	2	3	2	1	1	9	7	16
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	0	0	2	2	3	2	3	2	1	1	9	7	16
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	8	7	32	28	37	26	21	22	3	4	100	88	187
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	NA	NA	1	1	7	3	7	3	3	1	1	0	19	9	28
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	9	9	39	31	44	29	24	24	3	4	119	96	215
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	9	9	39	31	44	29	24	24	3	4	119	96	215
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	8	8	32	28	37	27	21	23	3	4	101	89	190
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	NA	NA	1	1	7	3	7	3	4	1	1	0	19	9	28
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	9	9	39	31	44	29	24	24	3	4	120	97	218
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	9	9	39	31	44	29	24	24	3	4	120	97	218

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.96

Risk factor: Indoor smoke from household use of solid fuels
Disease: Chronic obstructive pulmonary disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	21	43	21	42	21	43	20	42	21	41	21	41	32
Europe and Central Asia	NA	NA	NA	NA	NA	NA	10	24	8	20	9	19	8	18	8	18	8	18	12
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	18	38	18	38	18	37	17	36	17	35	17	35	25
Middle East and North Africa	NA	NA	NA	NA	NA	NA	7	18	6	17	7	17	7	17	7	17	7	17	11
South Asia	NA	NA	NA	NA	NA	NA	40	65	40	64	40	64	40	64	40	64	40	64	51
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	40	65	40	65	40	65	40	65	40	64	40	63	48
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	31	54	31	55	27	49	24	45	23	42	26	46	35
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	30	52	30	53	25	46	21	41	18	36	22	41	32
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	21	43	21	42	21	43	20	42	21	41	21	42	32
Europe and Central Asia	NA	NA	NA	NA	NA	NA	10	24	8	20	9	19	8	18	8	18	8	19	12
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	18	38	18	38	18	37	17	36	17	35	17	32	24
Middle East and North Africa	NA	NA	NA	NA	NA	NA	7	18	6	17	7	17	7	17	7	17	6	16	11
South Asia	NA	NA	NA	NA	NA	NA	40	65	40	64	40	64	40	64	40	64	40	64	51
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	40	65	40	65	40	65	40	65	40	64	39	62	47
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	31	54	31	55	27	49	24	45	23	42	27	48	37
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	30	52	30	53	25	46	21	41	19	37	24	44	34
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	21	43	21	42	21	43	20	42	21	41	21	42	31
Europe and Central Asia	NA	NA	NA	NA	NA	NA	10	24	8	20	9	19	8	18	8	18	8	19	13
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	18	38	18	38	18	37	17	36	17	35	17	34	25
Middle East and North Africa	NA	NA	NA	NA	NA	NA	7	18	6	17	7	17	7	17	7	17	6	16	10
South Asia	NA	NA	NA	NA	NA	NA	40	65	40	64	40	64	40	64	40	64	40	64	51
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	40	65	40	65	40	65	40	65	40	64	38	62	46
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	26	44	28	53	26	48	24	45	23	42	25	46	35
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	22	33	24	45	23	43	20	41	19	37	22	40	30
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	1	10	15	28	47	56	118	40	136	135	316	451
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	1	1	2	1	3	3	1	3	7	9	16
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	1	1	2	3	3	4	4	6	10	14	24
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	1	1	1	0	1	2	3	4
South Asia	NA	NA	NA	NA	NA	NA	3	4	36	46	39	40	35	51	14	25	126	167	293
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	5	4	8	6	10	10	5	6	29	26	56
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	5	7	53	68	80	97	108	186	64	177	309	535	844
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	NA	NA	NA	NA	NA	NA	5	7	53	68	80	97	108	186	64	177	309	535	844
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	11	33	173	290	374	695	493	1,189	201	686	1,253	2,892	4,145
Europe and Central Asia	NA	NA	NA	NA	NA	NA	5	4	16	12	29	21	24	33	5	15	79	85	164
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	7	15	24	26	38	31	44	16	28	92	142	234
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	2	3	7	5	9	5	11	2	4	17	34	50
South Asia	NA	NA	NA	NA	NA	NA	64	104	653	909	535	600	314	531	68	136	1,633	2,281	3,914
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	32	17	95	79	107	95	89	98	24	32	347	322	669
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	118	167	955	1,322	1,077	1,459	956	1,907	315	902	3,421	5,756	9,177
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	1	1
WORLD	NA	NA	NA	NA	NA	NA	118	167	955	1,322	1,077	1,459	956	1,907	316	902	3,421	5,756	9,178
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	66	158	483	410	509	845	555	1,315	222	721	1,836	3,448	5,284
Europe and Central Asia	NA	NA	NA	NA	NA	NA	15	51	26	49	37	37	29	39	6	17	113	193	306
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	23	98	54	84	46	61	39	56	19	32	181	330	512
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	10	7	11	6	10	6	11	2	4	33	47	80
South Asia	NA	NA	NA	NA	NA	NA	179	225	784	1,227	631	659	337	560	72	143	2,003	2,814	4,817
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	45	21	118	91	124	102	94	102	25	33	407	349	755
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	340	562	1,474	1,872	1,353	1,714	1,059	2,083	346	950	4,572	7,181	11,753
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	1	0	0	0	0	0	0	1	2	2
WORLD	NA	NA	NA	NA	NA	NA	340	562	1,474	1,872	1,354	1,715	1,060	2,083	346	950	4,573	7,182	11,755

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.97

Risk factor: Indoor smoke from household use of solid fuels
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	4	7	NA	NA	NA	NA	0	0	1	2	2	5	4	8	5	9	2	6	4
Europe and Central Asia	4	4	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	3	3	NA	NA	NA	NA	0	0	0	1	1	1	1	1	1	2	1	1	1
Middle East and North Africa	2	2	NA	NA	NA	NA	0	0	0	0	0	1	0	1	0	1	1	1	1
South Asia	12	12	NA	NA	NA	NA	0	1	3	6	4	4	3	5	3	4	5	6	5
Sub-Saharan Africa	10	8	NA	NA	NA	NA	0	0	1	1	2	2	3	3	3	3	5	4	4
Low- and middle-income countries	9	9	NA	NA	NA	NA	0	0	1	3	2	3	3	4	3	5	3	4	4
High-income countries	0	0	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	9	9	NA	NA	NA	NA	0	0	1	2	2	3	2	4	2	3	3	4	3
PAF of YLL (%)																			
East Asia and Pacific	4	7	NA	NA	NA	NA	0	0	1	2	2	5	4	8	5	9	2	5	3
Europe and Central Asia	4	4	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	1	0
Latin America and the Caribbean	3	3	NA	NA	NA	NA	0	0	0	1	1	1	1	1	1	2	1	1	1
Middle East and North Africa	2	2	NA	NA	NA	NA	0	0	0	0	0	1	0	1	0	1	1	1	1
South Asia	12	12	NA	NA	NA	NA	0	1	3	6	4	4	3	5	3	4	6	7	6
Sub-Saharan Africa	10	8	NA	NA	NA	NA	0	0	1	1	2	2	3	2	3	3	5	4	5
Low- and middle-income countries	9	9	NA	NA	NA	NA	0	0	1	3	2	3	3	4	3	5	4	5	4
High-income countries	0	0	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	9	9	NA	NA	NA	NA	0	0	1	2	2	3	2	4	2	3	3	4	4
PAF of DALYs (%)																			
East Asia and Pacific	3	5	NA	NA	NA	NA	0	1	1	1	2	4	3	6	4	8	2	3	2
Europe and Central Asia	2	2	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	1	0
Latin America and the Caribbean	2	2	NA	NA	NA	NA	0	1	1	1	1	1	1	1	1	1	1	1	1
Middle East and North Africa	2	2	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	1	1	1
South Asia	10	10	NA	NA	NA	NA	1	1	3	5	3	3	3	4	2	4	4	5	5
Sub-Saharan Africa	9	7	NA	NA	NA	NA	0	0	1	1	2	1	2	2	2	2	4	3	4
Low- and middle-income countries	7	7	NA	NA	NA	NA	0	1	1	2	2	3	2	4	2	4	3	3	3
High-income countries	0	0	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	7	7	NA	NA	NA	NA	0	1	1	2	2	2	2	3	2	3	3	3	3
Attributable Mortality (thousands)																			
East Asia and Pacific	26	50	NA	NA	NA	NA	1	2	11	16	31	48	58	120	41	136	168	373	540
Europe and Central Asia	4	3	NA	NA	NA	NA	0	0	1	1	2	1	3	3	1	3	11	12	22
Latin America and the Caribbean	7	6	NA	NA	NA	NA	0	0	1	1	2	3	3	4	4	6	17	20	37
Middle East and North Africa	5	5	NA	NA	NA	NA	0	0	0	0	0	1	1	1	0	1	7	8	15
South Asia	213	215	NA	NA	NA	NA	3	4	36	47	40	40	35	51	14	26	341	383	724
Sub-Saharan Africa	230	167	NA	NA	NA	NA	1	1	5	4	8	6	10	10	5	6	259	194	453
Low- and middle-income countries	485	447	NA	NA	NA	NA	5	7	55	69	83	99	110	189	64	177	802	988	1,791
High-income countries	0	0	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	485	447	NA	NA	NA	NA	5	7	55	69	83	99	110	189	64	177	802	989	1,791
Attributable YLL (thousands)																			
East Asia and Pacific	776	1,530	NA	NA	NA	NA	19	40	205	317	411	721	514	1,212	204	690	2,128	4,510	6,638
Europe and Central Asia	110	93	NA	NA	NA	NA	5	4	16	12	29	21	24	33	5	15	189	178	367
Latin America and the Caribbean	199	170	NA	NA	NA	NA	4	7	15	24	26	38	31	44	16	28	291	313	604
Middle East and North Africa	164	150	NA	NA	NA	NA	1	2	3	7	5	9	5	11	2	4	180	184	364
South Asia	6,454	6,566	NA	NA	NA	NA	66	105	659	912	542	603	317	533	68	137	8,106	8,855	16,961
Sub-Saharan Africa	6,961	5,098	NA	NA	NA	NA	32	17	95	79	107	95	89	98	24	32	7,308	5,420	12,729
Low- and middle-income countries	14,663	13,608	NA	NA	NA	NA	127	175	994	1,352	1,120	1,488	980	1,931	319	906	18,203	19,460	37,663
High-income countries	0	0	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	1	1
WORLD	14,663	13,608	NA	NA	NA	NA	127	175	994	1,352	1,120	1,488	980	1,931	319	906	18,203	19,461	37,664
Attributable DALYs (thousands)																			
East Asia and Pacific	892	1,734	NA	NA	NA	NA	74	165	516	437	546	871	576	1,338	225	725	2,828	5,271	8,100
Europe and Central Asia	115	99	NA	NA	NA	NA	15	51	26	49	37	37	29	39	6	17	228	292	520
Latin America and the Caribbean	252	222	NA	NA	NA	NA	23	98	54	84	46	61	39	56	19	32	434	553	986
Middle East and North Africa	178	163	NA	NA	NA	NA	12	10	7	11	6	10	6	11	2	4	211	210	421
South Asia	6,799	6,902	NA	NA	NA	NA	180	226	790	1,230	638	662	340	562	73	144	8,821	9,724	18,545
Sub-Saharan Africa	7,199	5,204	NA	NA	NA	NA	45	21	118	91	124	102	94	102	25	33	7,606	5,553	13,159
Low- and middle-income countries	15,435	14,325	NA	NA	NA	NA	349	570	1,513	1,903	1,398	1,744	1,084	2,107	349	954	20,128	21,603	41,731
High-income countries	0	0	NA	NA	NA	NA	0	0	0	1	0	0	0	0	0	0	1	2	2
WORLD	15,436	14,325	NA	NA	NA	NA	349	571	1,513	1,903	1,398	1,744	1,084	2,107	349	954	20,129	21,605	41,734

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.98

Risk factor: Contaminated injections in health care setting
Disease: HIV/AIDS

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	29	30	20	20	5	10	5	9	5	10	5	0	5	0	2	0	6	10	7
Europe and Central Asia	0	0	0	0	0	1	0	2	0	2	0	2	0	2	0	0	0	2	0
Latin America and the Caribbean	4	4	3	4	0	1	0	1	0	1	0	1	0	1	0	1	1	1	1
Middle East and North Africa	5	5	4	4	4	4	3	4	3	4	3	4	3	4	3	3	4	4	4
South Asia	55	56	50	58	14	24	14	23	13	23	14	11	14	11	5	11	15	28	18
Sub-Saharan Africa	9	9	6	8	2	1	2	1	2	1	2	1	2	1	2	1	3	3	3
Low- and middle-income countries	11	11	8	9	4	3	4	3	4	3	3	1	4	1	2	0	5	4	5
High-income countries	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	11	11	8	9	4	3	4	3	4	3	3	1	3	1	1	0	5	4	5
PAF of YLL (%)																			
East Asia and Pacific	29	30	20	20	5	10	5	9	5	10	5	0	5	0	2	0	6	11	8
Europe and Central Asia	0	0	0	0	0	1	0	2	0	2	0	2	0	2	0	0	0	2	0
Latin America and the Caribbean	4	4	3	4	0	1	0	1	0	1	0	1	0	1	0	1	1	1	1
Middle East and North Africa	5	5	4	4	4	4	3	4	3	4	3	4	3	4	3	3	4	4	4
South Asia	55	56	50	58	14	24	14	23	13	23	14	11	14	11	5	11	16	29	19
Sub-Saharan Africa	9	9	6	8	2	1	2	1	2	1	2	1	2	1	2	1	3	3	3
Low- and middle-income countries	11	11	8	9	4	3	4	3	4	3	3	1	4	1	2	0	5	4	5
High-income countries	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	11	11	8	9	4	3	4	3	4	3	3	1	3	1	1	0	5	4	5
PAF of DALYs (%)																			
East Asia and Pacific	29	30	20	20	5	10	5	9	5	10	5	0	5	0	2	0	6	11	7
Europe and Central Asia	0	0	0	0	0	1	0	2	0	2	0	2	0	2	0	0	0	2	1
Latin America and the Caribbean	4	4	3	4	0	1	0	1	0	1	0	1	0	1	0	1	1	1	1
Middle East and North Africa	5	5	4	4	4	4	3	4	3	4	3	4	3	4	3	3	4	4	4
South Asia	55	56	50	58	14	24	14	23	13	23	14	11	14	11	5	11	16	28	19
Sub-Saharan Africa	9	9	6	8	2	1	2	1	2	1	2	1	2	1	2	1	3	3	3
Low- and middle-income countries	11	11	8	9	4	3	4	3	4	3	3	1	4	1	2	0	5	4	5
High-income countries	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	11	11	8	9	4	3	4	3	4	3	3	1	3	1	1	0	5	4	5
Attributable Mortality (thousands)																			
East Asia and Pacific	1	1	0	0	1	0	2	1	1	1	0	0	0	0	0	0	5	3	8
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Middle East and North Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	4	4	1	1	6	5	16	6	6	2	0	0	0	0	0	0	32	17	49
Sub-Saharan Africa	14	14	3	4	4	5	8	5	3	1	0	0	0	0	0	0	33	28	61
Low- and middle-income countries	19	18	4	5	10	10	26	12	9	4	1	0	0	0	0	0	70	49	119
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	19	18	4	5	10	10	26	12	9	4	1	0	0	0	0	0	70	49	119
Attributable YLL (thousands)																			
East Asia and Pacific	27	21	2	2	20	12	51	21	17	16	1	0	0	0	0	0	118	72	190
Europe and Central Asia	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	2	2	3
Latin America and the Caribbean	4	4	1	1	1	2	2	2	1	1	0	0	0	0	0	0	10	10	20
Middle East and North Africa	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	2	4
South Asia	122	118	27	29	154	128	378	143	110	39	6	1	1	0	0	0	797	458	1,255
Sub-Saharan Africa	428	415	90	109	96	125	205	123	56	29	6	3	1	1	0	0	881	806	1,687
Low- and middle-income countries	582	558	121	141	271	269	638	291	183	85	14	4	1	1	0	0	1,809	1,349	3,159
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
WORLD	582	558	121	141	272	269	638	291	183	85	14	4	1	1	0	0	1,810	1,350	3,159
Attributable DALYs (thousands)																			
East Asia and Pacific	28	22	2	2	32	20	59	24	18	16	1	0	0	0	0	0	140	85	225
Europe and Central Asia	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	2	3	5
Latin America and the Caribbean	4	4	1	1	2	3	3	3	1	1	0	0	0	0	0	0	10	11	22
Middle East and North Africa	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	2	2	4
South Asia	125	120	28	31	195	171	402	158	112	40	7	1	1	0	0	0	870	522	1,392
Sub-Saharan Africa	435	422	92	112	116	145	215	130	57	30	6	3	1	1	0	0	923	843	1,766
Low- and middle-income countries	592	569	124	147	346	341	682	317	188	88	14	5	1	1	0	0	1,948	1,466	3,414
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
WORLD	592	569	124	147	346	341	682	317	188	88	14	5	1	1	0	0	1,949	1,466	3,415

Source: Authors' calculations.

Table 4A.99

Risk factor: Contaminated injections in health care setting
Disease: Hepatitis B

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	42	42	25	32	27	34	27	29	29	24	28	24	26	24	29	29	28	29	29
Europe and Central Asia	2	2	2	1	4	3	4	4	4	4	3	3	2	3	2	3	4	3	3
Latin America and the Caribbean	5	4	6	4	6	6	4	4	3	5	5	5	4	5	5	3	5	4	5
Middle East and North Africa	15	39	30	39	43	32	37	33	23	19	21	24	35	48	45	54	27	35	31
South Asia	52	53	52	52	52	52	51	52	52	51	51	50	51	52	52	52	51	52	52
Sub-Saharan Africa	13	12	9	11	12	11	15	14	14	11	10	15	12	38	44	44	12	13	12
Low- and middle-income countries	18	17	10	27	32	33	30	32	34	29	29	29	36	39	41	36	30	29	30
High-income countries	23	37	8	6	11	5	8	4	6	2	6	2	1	0	1	2	5	2	4
WORLD	18	17	10	27	32	33	30	31	32	27	28	25	32	31	36	29	29	27	29
PAF of YLL (%)																			
East Asia and Pacific	42	42	25	32	27	34	27	29	29	24	28	24	26	24	29	29	28	30	29
Europe and Central Asia	2	2	2	1	4	3	4	4	4	4	3	3	2	3	2	3	4	3	3
Latin America and the Caribbean	5	4	6	4	6	6	4	4	3	5	5	5	4	5	5	3	5	5	5
Middle East and North Africa	15	39	30	39	43	32	37	33	23	19	21	24	35	48	45	54	26	33	29
South Asia	52	53	52	52	52	52	51	52	52	51	51	50	51	52	52	52	52	52	52
Sub-Saharan Africa	13	12	9	11	12	11	15	14	14	11	10	15	12	38	44	44	12	12	12
Low- and middle-income countries	18	17	10	27	32	33	30	32	34	29	29	29	36	39	41	36	29	28	29
High-income countries	23	37	8	6	11	5	8	4	6	2	6	2	1	0	1	2	6	2	5
WORLD	18	17	10	27	32	33	29	31	32	28	28	25	32	31	36	30	28	27	28
PAF of DALYs (%)																			
East Asia and Pacific	42	42	25	32	27	34	27	29	29	24	28	24	26	24	29	29	28	30	29
Europe and Central Asia	2	2	2	1	4	3	4	4	4	4	3	3	2	3	2	3	4	3	4
Latin America and the Caribbean	5	4	6	4	6	6	4	4	3	5	5	5	4	5	5	3	5	5	5
Middle East and North Africa	15	39	30	39	43	32	37	33	23	19	21	24	35	48	45	54	26	33	29
South Asia	52	53	52	52	52	52	51	52	52	51	51	50	51	52	52	52	52	52	52
Sub-Saharan Africa	13	12	9	11	12	11	15	14	14	11	10	15	12	38	44	44	12	12	12
Low- and middle-income countries	18	17	10	27	32	33	30	32	34	29	29	29	36	39	41	36	29	28	29
High-income countries	23	37	8	6	11	5	8	4	6	2	6	2	1	0	1	2	6	2	5
WORLD	18	17	10	27	32	33	29	31	32	28	27	25	31	31	35	30	28	27	28
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	0	0	1	0	2	0	3	0	1	0	0	0	0	0	8	2	9
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
South Asia	0	0	0	0	2	1	2	1	4	1	1	0	1	0	1	0	10	5	15
Sub-Saharan Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3
Low- and middle-income countries	1	1	0	0	3	2	5	1	7	2	2	1	1	1	1	1	20	8	28
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	1	1	0	0	3	2	5	1	7	2	2	1	1	1	1	1	20	9	29
Attributable YLL (thousands)																			
East Asia and Pacific	7	7	1	1	18	7	48	11	61	6	14	3	2	1	1	1	152	36	188
Europe and Central Asia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	3
Latin America and the Caribbean	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	3	2	4
Middle East and North Africa	2	4	1	2	2	1	3	1	4	2	2	2	2	3	0	1	16	16	31
South Asia	1	2	1	8	45	34	54	18	69	24	13	8	8	5	3	1	194	100	293
Sub-Saharan Africa	6	15	8	2	3	4	11	2	6	3	2	1	0	1	0	0	35	28	63
Low- and middle-income countries	16	27	11	13	70	47	117	33	140	35	31	13	13	10	3	3	401	182	583
High-income countries	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	3	1	4
WORLD	17	27	11	13	70	47	117	33	141	35	31	13	13	10	3	3	404	182	586
Attributable DALYs (thousands)																			
East Asia and Pacific	7	7	1	1	19	8	49	11	63	6	15	3	3	1	1	1	157	37	193
Europe and Central Asia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	3
Latin America and the Caribbean	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	3	2	5
Middle East and North Africa	2	4	1	2	2	1	3	1	4	2	2	2	2	4	0	1	16	16	32
South Asia	1	2	1	8	47	35	55	19	71	24	14	8	9	5	3	1	199	102	302
Sub-Saharan Africa	6	15	8	2	3	4	11	2	6	3	2	1	0	1	0	0	36	28	64
Low- and middle-income countries	16	27	11	13	72	48	119	34	144	36	32	14	14	10	4	4	413	186	599
High-income countries	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	3	1	4
WORLD	17	27	11	13	72	48	120	34	146	36	33	14	14	10	4	4	416	187	603

Source: Authors' calculations.

Table 4A.100

Risk factor: Contaminated injections in health care setting
Disease: Hepatitis C

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	55	55	32	39	34	41	34	36	35	32	35	32	33	33	35	36	35	37	35
Europe and Central Asia	5	5	6	0	11	8	10	13	11	13	7	8	6	6	6	8	9	9	9
Latin America and the Caribbean	7	7	7	6	1	1	2	5	2	3	2	2	1	1	1	1	2	2	2
Middle East and North Africa	70	57	45	56	62	43	64	39	40	27	30	36	54	67	52	77	48	50	49
South Asia	72	73	66	62	60	59	59	61	60	61	61	61	59	63	61	62	60	61	60
Sub-Saharan Africa	20	18	13	17	18	16	22	19	21	17	15	22	18	54	62	63	18	19	18
Low- and middle-income countries	33	25	15	37	41	40	37	40	40	34	35	32	43	47	47	50	37	36	37
High-income countries	35	49	8	21	6	3	2	1	2	0	1	0	0	0	0	0	1	0	1
WORLD	33	25	15	37	40	40	33	35	32	25	25	18	24	19	27	20	30	26	29
PAF of YLL (%)																			
East Asia and Pacific	55	55	32	39	34	41	34	36	35	32	35	32	33	33	35	36	35	38	36
Europe and Central Asia	5	5	6	0	11	8	10	13	11	13	7	8	6	6	6	8	9	9	9
Latin America and the Caribbean	7	7	7	6	1	1	2	5	2	3	2	2	1	1	1	1	2	3	2
Middle East and North Africa	70	57	45	56	62	43	64	39	40	27	30	36	54	67	52	77	50	46	48
South Asia	72	73	66	62	60	59	59	61	60	61	61	61	59	63	61	62	60	61	60
Sub-Saharan Africa	20	18	13	17	18	16	22	19	21	17	15	22	18	54	62	63	18	18	18
Low- and middle-income countries	33	25	15	37	41	40	37	40	40	34	35	32	43	46	47	51	36	35	36
High-income countries	35	49	8	21	6	3	2	1	2	0	1	0	0	0	0	0	2	0	1
WORLD	33	25	15	37	41	40	33	35	32	26	25	18	24	19	27	22	31	28	30
PAF of DALYs (%)																			
East Asia and Pacific	55	55	32	39	34	41	34	36	35	32	35	32	33	33	35	36	35	38	36
Europe and Central Asia	5	5	6	0	11	8	10	13	11	13	7	8	6	6	6	8	9	9	9
Latin America and the Caribbean	7	7	7	6	1	1	2	5	2	3	2	2	1	1	1	1	2	3	2
Middle East and North Africa	70	57	45	56	62	43	64	39	40	27	30	36	54	67	52	77	50	46	48
South Asia	72	73	66	62	60	59	59	61	60	61	61	61	59	63	61	62	60	61	60
Sub-Saharan Africa	20	18	13	17	18	16	22	19	21	17	15	22	18	54	62	63	18	18	18
Low- and middle-income countries	33	25	15	37	41	40	37	40	40	34	35	32	43	47	47	51	36	35	36
High-income countries	35	49	8	21	6	3	2	1	2	0	1	0	0	0	0	0	1	0	1
WORLD	33	25	15	37	40	40	33	35	31	26	24	17	23	18	25	20	31	28	30
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	4	1	5
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
South Asia	0	0	0	0	1	1	1	0	2	1	0	0	0	0	0	0	4	2	7
Sub-Saharan Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Low- and middle-income countries	0	1	0	0	1	1	2	1	4	1	1	0	1	1	0	0	10	4	14
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	0	1	0	0	1	1	2	1	4	1	1	0	1	1	0	0	10	4	15
Attributable YLL (thousands)																			
East Asia and Pacific	2	3	0	0	10	4	25	6	31	3	7	1	1	0	0	0	77	18	95
Europe and Central Asia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	3
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Middle East and North Africa	4	3	1	1	1	0	2	1	4	1	1	1	1	2	0	1	14	11	26
South Asia	1	1	1	4	20	15	24	8	31	11	6	4	4	2	1	1	86	47	133
Sub-Saharan Africa	3	9	5	2	2	3	7	1	3	2	1	1	0	0	0	0	22	17	38
Low- and middle-income countries	10	16	7	7	33	22	58	17	70	18	16	7	7	6	2	2	202	94	296
High-income countries	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	2
WORLD	10	16	7	7	33	22	59	17	71	18	16	7	7	6	2	2	203	94	298
Attributable DALYs (thousands)																			
East Asia and Pacific	2	3	0	0	10	4	26	6	32	3	8	1	1	1	0	0	80	18	98
Europe and Central Asia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	1	3
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Middle East and North Africa	4	3	1	1	1	0	2	1	4	1	1	2	1	3	0	1	15	12	27
South Asia	1	1	1	4	20	16	24	9	32	11	6	4	4	2	1	1	89	48	137
Sub-Saharan Africa	3	9	5	2	2	3	7	1	4	2	1	1	0	0	0	0	22	17	39
Low- and middle-income countries	10	16	7	7	33	23	60	17	72	18	17	7	7	6	2	2	208	96	304
High-income countries	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	2
WORLD	10	16	7	7	33	23	60	18	73	18	17	7	7	6	2	2	210	96	306

Source: Authors' calculations.

Table 4A.101

Risk factor: Contaminated injections in health care setting
Disease: Liver cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	37	38	24	25	24	25	24	24	24	24	24	24	24	24	24	24	24	24	24
Europe and Central Asia	6	5	4	2	4	4	5	6	5	6	5	6	5	6	4	6	5	6	5
Latin America and the Caribbean	2	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2
Middle East and North Africa	29	14	26	13	21	22	22	21	22	28	22	23	20	21	19	20	21	23	22
South Asia	42	38	38	35	35	35	36	35	35	36	36	36	36	36	36	35	36	36	36
Sub-Saharan Africa	10	9	9	9	6	8	6	8	7	8	7	8	7	8	7	8	7	8	7
Low- and middle-income countries	29	32	22	24	23	24	22	21	22	21	21	21	21	20	20	19	22	21	21
High-income countries	4	15	3	7	12	11	10	11	5	6	3	4	1	2	1	1	3	3	3
WORLD	27	32	21	24	22	24	22	21	20	20	18	18	16	16	13	12	19	18	18
PAF of YLL (%)																			
East Asia and Pacific	37	38	24	25	24	25	24	24	24	24	24	24	24	24	24	24	24	24	24
Europe and Central Asia	6	5	4	2	4	4	5	6	5	6	5	6	5	6	4	6	5	6	5
Latin America and the Caribbean	2	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2
Middle East and North Africa	29	14	26	13	21	22	22	21	22	28	22	23	20	21	19	20	22	24	22
South Asia	42	38	38	35	35	35	36	35	35	36	36	36	36	36	36	35	36	36	36
Sub-Saharan Africa	10	9	9	9	6	8	6	8	7	8	7	8	7	8	7	8	7	8	7
Low- and middle-income countries	29	32	22	24	23	24	22	22	22	21	21	21	21	20	20	19	22	21	22
High-income countries	4	15	3	7	12	11	10	11	5	6	3	4	1	2	1	1	4	3	4
WORLD	27	32	21	24	22	24	22	21	20	20	18	18	16	16	14	13	19	19	19
PAF of DALYs (%)																			
East Asia and Pacific	37	38	24	25	24	25	24	24	24	24	24	24	24	24	24	24	24	24	24
Europe and Central Asia	6	5	4	2	4	4	5	6	5	6	5	6	5	6	4	6	5	6	5
Latin America and the Caribbean	2	3	3	3	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2
Middle East and North Africa	29	14	26	13	21	22	22	21	22	28	22	23	20	21	19	20	22	24	22
South Asia	42	38	38	35	35	35	36	35	35	36	36	36	36	36	36	35	36	36	36
Sub-Saharan Africa	10	9	9	9	6	8	6	8	7	8	7	8	7	8	7	8	7	8	7
Low- and middle-income countries	29	32	22	24	23	24	22	22	22	21	21	21	21	20	20	19	22	21	22
High-income countries	4	15	3	7	12	11	10	11	5	6	3	4	1	2	1	1	4	3	4
WORLD	27	32	21	24	22	24	22	21	20	20	18	18	16	16	13	13	19	19	19
Attributable Mortality (thousands)																			
East Asia and Pacific	0	0	0	0	1	1	7	2	24	6	18	7	12	7	3	2	65	25	91
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
South Asia	0	0	0	0	0	1	1	0	2	1	2	1	1	1	0	0	6	4	10
Sub-Saharan Africa	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	1	3
Low- and middle-income countries	0	0	0	0	2	1	8	3	27	8	21	8	15	8	3	3	76	32	108
High-income countries	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2	1	3
WORLD	0	0	0	0	2	1	9	3	28	8	21	8	15	8	3	3	78	33	111
Attributable YLL (thousands)																			
East Asia and Pacific	3	7	1	2	35	17	168	61	459	125	242	102	114	69	14	14	1,035	397	1,432
Europe and Central Asia	0	0	0	0	0	0	1	1	4	2	4	3	2	3	0	0	11	9	20
Latin America and the Caribbean	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	3	3	5
Middle East and North Africa	0	0	0	0	1	1	2	2	6	5	5	3	3	2	0	0	18	13	31
South Asia	2	3	1	2	10	15	18	10	29	18	23	11	10	7	2	2	96	68	164
Sub-Saharan Africa	0	0	0	0	2	2	7	4	14	6	8	4	3	3	1	1	36	20	56
Low- and middle-income countries	6	10	3	5	48	35	196	77	513	158	283	124	132	84	17	17	1,198	510	1,708
High-income countries	0	0	0	0	1	0	5	2	14	4	8	4	3	2	0	0	31	12	43
WORLD	6	10	3	5	49	35	201	79	527	161	290	128	135	86	17	18	1,229	523	1,751
Attributable DALYs (thousands)																			
East Asia and Pacific	3	7	1	2	35	17	168	62	462	125	244	103	115	70	14	14	1,041	400	1,441
Europe and Central Asia	0	0	0	0	0	0	1	1	4	2	4	3	2	3	0	1	11	9	20
Latin America and the Caribbean	0	0	0	0	0	0	0	0	1	1	1	1	0	1	0	0	3	3	5
Middle East and North Africa	0	0	0	0	1	1	2	2	6	6	5	3	3	2	0	0	18	13	31
South Asia	2	3	1	2	10	15	18	10	29	18	23	11	10	7	2	2	97	68	165
Sub-Saharan Africa	0	0	0	0	2	2	7	4	15	6	8	4	3	3	1	1	36	20	56
Low- and middle-income countries	6	10	3	5	49	35	197	78	515	159	285	125	134	84	17	18	1,206	513	1,719
High-income countries	0	0	0	0	1	0	5	2	14	4	8	4	3	3	0	0	31	12	44
WORLD	6	11	3	5	49	35	202	80	530	162	292	128	136	87	18	18	1,237	526	1,762

Source: Authors' calculations.

Table 4A.102

Risk factor: Contaminated injections in health care setting
Disease: Cirrhosis of the liver

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	32	34	24	28	22	25	21	22	21	21	21	21	22	22	22	22	22	22	22
Europe and Central Asia	7	7	3	1	6	5	7	9	7	9	7	8	6	7	5	6	7	8	7
Latin America and the Caribbean	3	3	3	1	1	2	1	1	1	1	1	2	2	2	2	2	1	2	1
Middle East and North Africa	38	55	36	48	39	41	33	36	39	41	37	39	34	38	32	34	36	39	37
South Asia	39	38	35	35	35	34	34	35	35	36	36	38	37	38	37	37	36	36	36
Sub-Saharan Africa	41	45	25	51	9	13	7	10	10	13	10	10	9	10	9	12	9	12	10
Low- and middle-income countries	37	38	32	34	24	29	16	21	19	22	20	20	21	21	22	21	20	23	21
High-income countries	13	17	7	13	7	5	2	1	1	1	1	1	1	1	1	1	1	1	1
WORLD	37	38	32	34	23	29	14	19	16	19	16	18	17	18	18	17	17	20	18
PAF of YLL (%)																			
East Asia and Pacific	32	34	24	28	22	25	21	22	21	21	21	21	22	22	22	22	22	22	22
Europe and Central Asia	7	7	3	1	6	5	7	9	7	9	7	8	6	7	5	6	7	8	7
Latin America and the Caribbean	3	3	3	1	1	2	1	1	1	1	1	2	2	2	2	2	1	2	1
Middle East and North Africa	38	55	36	48	39	41	33	36	39	41	37	39	34	38	32	34	37	40	38
South Asia	39	38	35	35	35	34	34	35	35	36	36	38	37	38	37	37	36	36	36
Sub-Saharan Africa	41	45	25	51	9	13	7	10	10	13	10	10	9	10	9	12	9	13	11
Low- and middle-income countries	37	38	32	34	24	29	16	21	19	22	20	20	20	21	22	22	20	25	22
High-income countries	13	17	7	13	7	5	2	1	1	1	1	1	1	1	1	1	1	1	1
WORLD	37	38	32	34	23	29	14	19	16	19	16	18	17	18	18	17	17	22	19
PAF of DALYs (%)																			
East Asia and Pacific	32	34	24	28	22	25	21	22	21	21	21	21	22	22	22	22	22	22	22
Europe and Central Asia	7	7	3	1	6	5	7	9	7	9	7	8	6	7	5	6	7	8	7
Latin America and the Caribbean	3	3	3	1	1	2	1	1	1	1	1	2	2	2	2	2	1	2	1
Middle East and North Africa	38	55	36	48	39	41	33	36	39	41	37	39	34	38	32	34	37	40	38
South Asia	39	38	35	35	35	34	34	35	35	36	36	38	37	38	37	37	36	36	36
Sub-Saharan Africa	41	45	25	51	9	13	7	10	10	13	10	10	9	10	9	12	9	13	11
Low- and middle-income countries	37	38	32	34	22	29	16	21	19	22	20	20	21	21	22	22	20	24	22
High-income countries	13	17	7	13	7	5	2	1	1	1	1	1	1	1	1	1	1	1	1
WORLD	37	38	31	34	22	28	14	18	16	19	16	18	17	18	18	17	17	22	19
Attributable Mortality (thousands)																			
East Asia and Pacific	0	1	0	0	1	1	4	2	9	4	6	3	5	4	1	2	27	15	42
Europe and Central Asia	0	0	0	0	0	0	1	0	2	1	1	1	1	1	0	0	4	3	8
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Middle East and North Africa	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1	1	8	6	14
South Asia	2	5	1	2	2	3	4	3	12	6	8	4	6	4	2	1	38	29	67
Sub-Saharan Africa	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	4	3	6
Low- and middle-income countries	3	6	1	3	4	4	10	5	27	13	18	10	13	10	4	4	82	56	138
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
WORLD	3	6	1	3	4	4	10	5	28	13	19	10	14	10	5	4	82	56	139
Attributable YLL (thousands)																			
East Asia and Pacific	12	18	3	6	24	15	97	38	180	72	83	49	41	37	8	10	447	244	692
Europe and Central Asia	0	0	0	0	3	1	20	10	34	22	15	13	5	6	0	1	77	53	130
Latin America and the Caribbean	0	0	0	0	1	0	3	1	5	1	2	1	1	1	0	0	13	4	17
Middle East and North Africa	5	7	2	3	8	5	7	7	44	35	31	24	15	16	3	4	115	101	216
South Asia	66	167	28	65	68	96	101	66	233	121	110	57	53	38	11	8	669	617	1,286
Sub-Saharan Africa	1	3	0	4	4	3	10	5	24	17	12	10	6	5	1	1	57	47	104
Low- and middle-income countries	84	195	34	77	107	121	239	125	519	269	252	154	121	103	23	23	1,378	1,067	2,445
High-income countries	0	0	0	0	1	0	3	1	6	2	3	2	1	1	0	0	14	7	21
WORLD	84	195	34	78	107	121	242	126	524	271	255	156	122	104	23	24	1,392	1,074	2,466
Attributable DALYs (thousands)																			
East Asia and Pacific	13	19	4	8	36	20	122	54	211	94	94	59	47	45	9	12	536	312	847
Europe and Central Asia	0	0	0	0	4	2	25	13	38	27	17	15	5	7	0	1	89	65	155
Latin America and the Caribbean	0	0	0	0	1	0	4	1	6	2	3	1	1	1	0	0	15	5	21
Middle East and North Africa	7	8	4	4	10	7	9	9	52	46	35	30	17	19	3	5	135	127	262
South Asia	74	194	39	85	83	110	124	83	268	144	123	68	60	45	13	10	785	740	1,524
Sub-Saharan Africa	1	3	1	4	6	4	13	7	27	21	14	12	7	6	1	1	70	59	129
Low- and middle-income countries	95	225	48	101	139	143	296	168	603	333	285	185	138	123	27	29	1,630	1,308	2,938
High-income countries	0	0	0	0	1	0	4	2	7	3	3	2	1	1	0	0	17	9	26
WORLD	95	225	48	102	140	143	300	169	610	336	288	187	140	125	27	30	1,647	1,317	2,964

Source: Authors' calculations.

Table 4A.103

Risk factor: Contaminated injections in health care setting
Disease: All causes

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	0	0	0	0	1	1	3	1	3	1	2	1	1	1	0	0	2	1	1
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	0	0	0	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1
South Asia	0	1	1	1	2	2	3	2	2	1	1	1	1	0	1	0	1	1	1
Sub-Saharan Africa	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1
Low- and middle-income countries	0	1	1	1	1	1	2	1	2	1	1	1	1	0	0	0	1	1	1
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	0	1	1	1	1	1	2	1	2	1	1	1	1	0	0	0	1	1	1
PAF of YLL (%)																			
East Asia and Pacific	0	0	0	0	1	1	3	1	3	1	2	1	1	1	1	0	2	1	1
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	0	0	0	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	1
South Asia	0	1	1	1	2	2	3	2	2	1	1	1	1	0	1	0	1	1	1
Sub-Saharan Africa	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1
Low- and middle-income countries	0	1	1	1	1	1	2	1	2	1	1	1	1	0	0	0	1	1	1
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	0	1	1	1	1	1	2	1	2	1	1	1	1	0	0	0	1	1	1
PAF of DALYs (%)																			
East Asia and Pacific	0	0	0	0	1	0	2	1	2	1	1	1	1	1	0	0	1	1	1
Europe and Central Asia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Middle East and North Africa	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
South Asia	0	0	1	1	1	1	2	1	2	1	1	0	1	0	1	0	1	1	1
Sub-Saharan Africa	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1
Low- and middle-income countries	0	0	0	1	1	1	1	1	1	1	1	0	1	0	0	0	1	1	1
High-income countries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WORLD	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0	1
Attributable Mortality (thousands)																			
East Asia and Pacific	2	2	0	0	4	2	16	6	39	11	25	10	18	10	4	4	109	46	154
Europe and Central Asia	0	0	0	0	0	0	1	0	2	1	1	1	1	1	0	0	5	4	9
Latin America and the Caribbean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
Middle East and North Africa	0	0	0	0	0	0	1	0	3	2	3	2	2	2	1	1	10	9	19
South Asia	6	10	2	4	11	10	24	10	24	10	12	5	8	5	3	2	91	56	147
Sub-Saharan Africa	15	15	4	4	4	5	10	5	5	3	2	1	1	1	0	0	41	34	75
Low- and middle-income countries	23	27	6	8	19	18	52	22	74	28	44	20	30	19	9	8	257	150	407
High-income countries	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	3	1	4
WORLD	23	27	6	8	20	18	53	22	75	28	44	20	31	20	9	8	260	151	412
Attributable YLL (thousands)																			
East Asia and Pacific	51	56	7	11	107	56	388	137	748	221	346	155	159	108	22	25	1,829	767	2,596
Europe and Central Asia	1	0	0	0	4	2	23	11	38	25	19	16	7	9	1	1	93	66	159
Latin America and the Caribbean	4	4	2	2	3	3	7	4	7	3	3	2	2	1	0	0	28	19	48
Middle East and North Africa	12	14	4	6	11	7	16	11	57	44	39	31	21	24	3	6	164	143	307
South Asia	192	290	58	109	297	289	575	246	471	213	158	80	76	51	17	12	1,843	1,290	3,133
Sub-Saharan Africa	438	442	104	117	106	137	239	135	103	57	29	18	11	9	1	2	1,031	917	1,949
Low- and middle-income countries	698	807	175	243	529	493	1,248	544	1,424	564	595	302	274	203	45	46	4,988	3,203	8,191
High-income countries	0	0	0	0	2	1	10	3	22	6	11	5	4	4	1	1	49	20	70
WORLD	699	807	175	244	530	494	1,258	547	1,446	570	605	308	278	206	45	47	5,038	3,223	8,261
Attributable DALYs (thousands)																			
East Asia and Pacific	53	58	8	12	132	69	424	158	786	244	360	166	166	116	24	28	1,954	851	2,805
Europe and Central Asia	1	0	0	0	6	4	28	16	43	30	21	18	7	10	1	2	107	79	186
Latin America and the Caribbean	5	4	2	2	4	3	8	4	8	4	4	2	2	0	0	0	32	21	53
Middle East and North Africa	14	15	6	7	14	9	18	14	66	55	43	36	23	27	4	7	186	170	356
South Asia	202	321	70	132	355	346	623	279	512	239	174	91	84	59	19	14	2,040	1,481	3,521
Sub-Saharan Africa	445	449	107	120	128	158	253	144	108	62	31	21	12	11	2	2	1,087	967	2,054
Low- and middle-income countries	719	847	193	273	639	589	1,353	614	1,523	634	633	335	294	225	49	53	5,404	3,570	8,974
High-income countries	1	0	0	0	2	1	11	4	24	7	11	6	4	4	1	1	54	23	76
WORLD	720	848	194	273	641	590	1,364	618	1,547	640	644	341	299	229	50	53	5,458	3,592	9,050

Source: Authors' calculations.

Table 4A.104

Risk factor: Urban air pollution
Disease: Respiratory infections

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Europe and Central Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Middle East and North Africa	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Sub-Saharan Africa	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Low- and middle-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
High-income countries	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
PAF of YLL (%)																			
East Asia and Pacific	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Europe and Central Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Latin America and the Caribbean	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Middle East and North Africa	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Sub-Saharan Africa	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Low- and middle-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
High-income countries	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
PAF of DALYs (%)																			
East Asia and Pacific	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Europe and Central Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Latin America and the Caribbean	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Middle East and North Africa	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Sub-Saharan Africa	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Low- and middle-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
High-income countries	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
Attributable Mortality (thousands)																			
East Asia and Pacific	1	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	3	4
Europe and Central Asia	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
Latin America and the Caribbean	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	1
Middle East and North Africa	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1	1
South Asia	5	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5	10
Sub-Saharan Africa	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	3	6
Low- and middle-income countries	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	23
High-income countries	0	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0	0
WORLD	11	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	11	23
Attributable YLL (thousands)																			
East Asia and Pacific	44	83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	83	127
Europe and Central Asia	7	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	6	13
Latin America and the Caribbean	9	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	8	17
Middle East and North Africa	20	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	19	39
South Asia	152	154	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	152	154	306
Sub-Saharan Africa	107	79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	107	79	186
Low- and middle-income countries	340	349	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340	349	688
High-income countries	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0	1
WORLD	340	349	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340	349	689
Attributable DALYs (thousands)																			
East Asia and Pacific	44	83	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	83	127
Europe and Central Asia	7	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	6	13
Latin America and the Caribbean	9	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	8	17
Middle East and North Africa	20	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	19	39
South Asia	152	154	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	152	154	306
Sub-Saharan Africa	107	79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	107	79	186
Low- and middle-income countries	340	349	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340	349	688
High-income countries	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0	1
WORLD	340	349	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	340	349	689

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.105

Risk factor: Urban air pollution
Disease: Trachea, bronchus, and lung cancers

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	9	9	9	9	9	9	10	9	10	9	9	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	4	4	4	4	4	4	4	3	4	3	4	4	4
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	4	4	4	4	4	4	4	4	4	4	4	4
Middle East and North Africa	NA	NA	NA	NA	NA	NA	6	6	6	6	6	6	6	6	6	6	6	6	6
South Asia	NA	NA	NA	NA	NA	NA	5	5	5	5	5	5	5	5	5	5	5	5	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	3	3	3	3	3	3	3	4	3	3	3	3
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	7	7	6	7	6	7	7	8	7	7	6	7	7
High-income countries	NA	NA	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	3	3	3
WORLD	NA	NA	NA	NA	NA	NA	6	6	5	6	5	6	5	5	4	5	5	5	5
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	9	9	9	9	9	9	10	9	10	9	9	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	4	4	4	4	4	4	4	3	4	3	4	4	4
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	4	4	4	4	4	4	4	4	4	4	4	4
Middle East and North Africa	NA	NA	NA	NA	NA	NA	6	6	6	6	6	6	6	6	6	6	6	5	6
South Asia	NA	NA	NA	NA	NA	NA	5	5	5	5	5	5	5	5	5	5	5	5	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	3	3	3	3	3	3	3	4	3	3	3	3
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	7	7	6	7	6	7	7	8	7	7	6	7	7
High-income countries	NA	NA	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	3	3	3
WORLD	NA	NA	NA	NA	NA	NA	6	6	5	6	5	6	5	6	4	5	5	6	5
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	9	9	9	9	9	9	9	9	9	9	9	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	4	4	4	4	3	4	3	3	3	3	3	4	3
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	4	4	4	4	4	4	4	4	4	4	4	4
Middle East and North Africa	NA	NA	NA	NA	NA	NA	6	6	6	6	6	6	6	6	5	6	6	5	6
South Asia	NA	NA	NA	NA	NA	NA	5	5	5	5	5	5	5	5	5	5	5	5	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	3	3	3	3	3	3	3	3	3	3	3	3
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	7	7	6	7	6	7	6	8	6	7	6	7	7
High-income countries	NA	NA	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	3	3	3
WORLD	NA	NA	NA	NA	NA	NA	6	6	5	6	5	6	5	5	4	5	5	6	5
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	1	1	5	3	9	3	7	4	2	1	24	12	36
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	1	0	2	0	1	0	0	0	5	1	6
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	1	0	1	0	0	0	2	1	2
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	NA	NA	NA	NA	NA	NA	0	0	1	0	2	0	1	0	0	0	5	1	6
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	1	9	3	13	4	11	5	3	2	37	15	52
High-income countries	NA	NA	NA	NA	NA	NA	0	0	1	1	2	1	3	1	1	1	8	4	12
WORLD	NA	NA	NA	NA	NA	NA	2	1	10	4	16	5	14	6	4	2	45	19	64
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	25	14	101	52	117	51	65	42	9	7	316	166	482
Europe and Central Asia	NA	NA	NA	NA	NA	NA	4	1	24	4	26	4	12	4	1	1	67	14	81
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	1	7	3	7	3	5	2	1	1	21	10	31
Middle East and North Africa	NA	NA	NA	NA	NA	NA	2	1	4	1	4	1	2	1	0	0	12	4	16
South Asia	NA	NA	NA	NA	NA	NA	5	2	23	6	24	5	12	3	2	0	67	17	84
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	2	1	2	1	1	0	0	0	5	2	7
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	38	20	162	68	179	65	96	51	13	9	488	213	701
High-income countries	NA	NA	NA	NA	NA	NA	3	3	24	13	31	14	27	14	7	5	92	49	141
WORLD	NA	NA	NA	NA	NA	NA	41	23	186	81	209	79	123	65	20	14	580	262	842
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	25	14	101	52	117	51	65	42	9	7	316	166	482
Europe and Central Asia	NA	NA	NA	NA	NA	NA	4	1	24	4	26	4	12	4	1	1	67	14	81
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	1	7	3	7	3	5	2	1	1	21	10	31
Middle East and North Africa	NA	NA	NA	NA	NA	NA	2	1	4	1	4	1	2	1	0	0	12	4	16
South Asia	NA	NA	NA	NA	NA	NA	5	2	23	6	24	5	12	3	2	0	67	17	84
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	2	1	2	1	1	0	0	0	5	2	7
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	38	20	162	68	179	65	96	51	13	9	488	213	701
High-income countries	NA	NA	NA	NA	NA	NA	3	3	24	13	31	14	27	14	7	5	92	49	141
WORLD	NA	NA	NA	NA	NA	NA	41	23	186	81	209	79	123	65	20	14	580	262	842

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.106

Risk factor: Urban air pollution
Disease: Selected cardiopulmonary causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	6	6	6	6	6	6	6	6	7	7	6	6	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	2	3	2	3	3	3	3	2	3	2	2	2	2
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	3	3	3
Middle East and North Africa	NA	NA	NA	NA	NA	NA	4	4	4	5	4	5	4	5	4	4	4	4	4
South Asia	NA	NA	NA	NA	NA	NA	4	3	3	3	3	3	3	3	4	3	3	3	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	2	2	2	2	2	3	2	3	2	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	4	4	4	4	4	4	4	4	5	4	4	4	4
High-income countries	NA	NA	NA	NA	NA	NA	2	2	2	2	2	2	2	2	2	2	2	2	2
WORLD	NA	NA	NA	NA	NA	NA	4	4	4	4	4	4	4	4	4	4	3	3	3
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	6	6	6	6	6	6	6	6	7	7	6	5	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	2	3	2	3	3	3	3	2	3	2	2	2	2
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	3	3	3
Middle East and North Africa	NA	NA	NA	NA	NA	NA	4	4	4	5	4	5	4	5	4	4	3	3	3
South Asia	NA	NA	NA	NA	NA	NA	4	3	3	3	3	3	3	3	4	3	2	2	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	2	2	2	2	2	3	2	3	2	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	4	4	4	4	4	4	4	4	5	5	3	3	3
High-income countries	NA	NA	NA	NA	NA	NA	2	2	2	2	2	2	2	2	2	2	2	2	2
WORLD	NA	NA	NA	NA	NA	NA	4	4	4	4	4	4	4	4	4	4	3	3	3
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	4	4	4	5	5	5	6	6	6	6	4	5	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	2	2	2	2	2	2	2	2	2	2	2	2	2
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	2	2	3	2	3	3	3	3	3	3	2	2	2
Middle East and North Africa	NA	NA	NA	NA	NA	NA	3	3	4	4	4	4	4	4	4	4	3	3	3
South Asia	NA	NA	NA	NA	NA	NA	3	3	3	3	3	3	3	3	3	3	2	2	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	2	2	2	2	2	2	2	2	2	1	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	3	3	3	3	4	4	4	4	4	4	2	3	2
High-income countries	NA	NA	NA	NA	NA	NA	1	1	1	1	2	2	2	2	2	2	1	1	1
WORLD	NA	NA	NA	NA	NA	NA	3	3	3	3	3	3	4	4	4	4	2	2	2
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	5	3	23	14	41	29	62	62	40	71	171	179	349
Europe and Central Asia	NA	NA	NA	NA	NA	NA	2	1	6	3	10	6	12	15	6	17	37	41	78
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	1	3	2	4	3	5	4	5	6	18	16	34
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	0	3	2	4	3	5	5	3	3	15	13	28
South Asia	NA	NA	NA	NA	NA	NA	3	2	16	10	22	18	24	23	11	12	76	65	141
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	3	3	4	4	4	5	2	3	15	15	30
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	13	8	54	33	85	62	113	113	67	112	332	329	660
High-income countries	NA	NA	NA	NA	NA	NA	1	0	3	1	5	3	10	8	12	20	31	33	64
WORLD	NA	NA	NA	NA	NA	NA	14	9	57	34	90	65	123	121	79	132	363	362	724
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	125	79	421	282	547	431	550	628	198	356	1,842	1,776	3,618
Europe and Central Asia	NA	NA	NA	NA	NA	NA	40	14	121	50	137	97	111	152	29	78	438	391	829
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	23	16	55	38	51	40	46	45	22	30	197	169	365
Middle East and North Africa	NA	NA	NA	NA	NA	NA	21	12	53	35	53	44	46	47	13	17	186	155	341
South Asia	NA	NA	NA	NA	NA	NA	80	56	294	199	299	268	211	237	55	63	939	824	1,763
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	31	30	60	55	54	58	39	49	10	15	194	206	401
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	319	207	1,006	658	1,141	939	1,005	1,157	326	560	3,797	3,520	7,317
High-income countries	NA	NA	NA	NA	NA	NA	16	8	59	27	69	43	85	80	53	83	282	240	522
WORLD	NA	NA	NA	NA	NA	NA	336	214	1,065	685	1,209	981	1,090	1,237	379	644	4,079	3,761	7,839
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	125	79	421	282	547	431	550	628	198	356	1,842	1,776	3,618
Europe and Central Asia	NA	NA	NA	NA	NA	NA	40	14	121	50	137	97	111	152	29	78	438	391	829
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	23	16	55	38	51	40	46	45	22	30	197	169	365
Middle East and North Africa	NA	NA	NA	NA	NA	NA	21	12	53	35	53	44	46	47	13	17	186	155	341
South Asia	NA	NA	NA	NA	NA	NA	80	56	294	199	299	268	211	237	55	63	939	824	1,763
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	31	30	60	55	54	58	39	49	10	15	194	206	401
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	319	207	1,006	658	1,141	939	1,005	1,157	326	560	3,797	3,520	7,317
High-income countries	NA	NA	NA	NA	NA	NA	16	8	59	27	69	43	85	80	53	83	282	240	522
WORLD	NA	NA	NA	NA	NA	NA	336	214	1,065	685	1,209	981	1,090	1,237	379	644	4,079	3,761	7,839

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.107

Risk factor: Urban air pollution
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	0	0	NA	NA	NA	NA	1	1	2	2	4	3	4	4	5	5	3	3	3
Europe and Central Asia	0	0	NA	NA	NA	NA	1	1	1	1	2	2	2	2	2	2	1	2	1
Latin America and the Caribbean	0	0	NA	NA	NA	NA	0	1	1	1	2	1	2	2	2	2	1	1	1
Middle East and North Africa	0	0	NA	NA	NA	NA	1	1	2	2	2	2	3	3	3	3	2	2	2
South Asia	0	0	NA	NA	NA	NA	1	0	2	1	2	2	2	2	2	2	1	1	1
Sub-Saharan Africa	0	0	NA	NA	NA	NA	0	0	1	1	1	1	1	1	1	1	0	0	0
Low- and middle-income countries	0	0	NA	NA	NA	NA	1	1	2	1	2	2	3	3	3	3	1	2	2
High-income countries	0	0	NA	NA	NA	NA	0	0	1	1	1	1	1	1	1	1	1	1	1
WORLD	0	0	NA	NA	NA	NA	1	1	1	1	2	2	2	2	2	2	1	1	1
PAF of YLL (%)																			
East Asia and Pacific	0	0	NA	NA	NA	NA	1	1	2	2	4	3	4	4	5	5	2	2	2
Europe and Central Asia	0	0	NA	NA	NA	NA	1	1	1	1	2	2	2	2	2	2	1	1	1
Latin America and the Caribbean	0	0	NA	NA	NA	NA	0	1	1	1	2	1	2	2	2	2	1	1	1
Middle East and North Africa	0	0	NA	NA	NA	NA	1	1	2	2	2	2	3	3	3	3	1	1	1
South Asia	0	0	NA	NA	NA	NA	1	0	2	1	2	2	2	2	2	2	1	1	1
Sub-Saharan Africa	0	0	NA	NA	NA	NA	0	0	1	1	1	1	1	1	1	1	0	0	0
Low- and middle-income countries	0	0	NA	NA	NA	NA	1	0	2	1	2	2	3	3	3	3	1	1	1
High-income countries	0	0	NA	NA	NA	NA	0	0	1	1	1	1	1	1	1	1	1	1	1
WORLD	0	0	NA	NA	NA	NA	1	0	1	1	2	2	2	2	2	2	1	1	1
PAF of DALYs (%)																			
East Asia and Pacific	0	0	NA	NA	NA	NA	1	0	1	1	2	2	3	3	4	4	1	1	1
Europe and Central Asia	0	0	NA	NA	NA	NA	0	0	1	1	1	1	2	1	2	1	1	1	1
Latin America and the Caribbean	0	0	NA	NA	NA	NA	0	0	1	1	1	1	1	1	1	1	0	0	0
Middle East and North Africa	0	0	NA	NA	NA	NA	1	0	1	1	2	2	2	2	2	2	1	1	1
South Asia	0	0	NA	NA	NA	NA	0	0	1	1	2	1	2	2	2	2	1	0	1
Sub-Saharan Africa	0	0	NA	NA	NA	NA	0	0	0	0	1	1	1	1	1	1	0	0	0
Low- and middle-income countries	0	0	NA	NA	NA	NA	0	0	1	1	2	1	2	2	2	2	1	1	1
High-income countries	0	0	NA	NA	NA	NA	0	0	0	0	1	0	1	1	1	1	0	0	0
WORLD	0	0	NA	NA	NA	NA	0	0	1	1	2	1	2	2	2	2	1	1	1
Attributable Mortality (thousands)																			
East Asia and Pacific	1	3	NA	NA	NA	NA	6	4	28	17	49	32	69	66	42	72	196	193	389
Europe and Central Asia	0	0	NA	NA	NA	NA	2	1	8	3	12	7	14	15	7	17	42	42	84
Latin America and the Caribbean	0	0	NA	NA	NA	NA	1	1	3	2	4	3	6	5	5	7	20	17	37
Middle East and North Africa	1	1	NA	NA	NA	NA	1	1	3	2	4	3	5	5	3	3	17	14	31
South Asia	5	5	NA	NA	NA	NA	4	2	17	10	24	18	25	23	12	12	86	71	157
Sub-Saharan Africa	4	3	NA	NA	NA	NA	1	1	3	3	4	4	4	5	2	3	19	18	37
Low- and middle-income countries	11	11	NA	NA	NA	NA	15	9	63	36	98	67	123	118	69	113	380	355	735
High-income countries	0	0	NA	NA	NA	NA	1	0	4	2	7	4	13	9	14	21	39	37	76
WORLD	11	11	NA	NA	NA	NA	16	10	67	38	105	71	136	127	83	135	419	392	811
Attributable YLL (thousands)																			
East Asia and Pacific	44	83	NA	NA	NA	NA	150	94	522	334	664	482	615	670	207	363	2,202	2,025	4,227
Europe and Central Asia	7	6	NA	NA	NA	NA	44	15	146	54	163	102	123	155	30	79	512	411	923
Latin America and the Caribbean	9	8	NA	NA	NA	NA	24	17	62	41	58	43	51	47	23	31	227	187	414
Middle East and North Africa	20	19	NA	NA	NA	NA	22	13	57	36	57	45	49	48	13	17	218	177	395
South Asia	152	154	NA	NA	NA	NA	86	58	318	205	323	274	223	240	57	64	1,159	995	2,154
Sub-Saharan Africa	107	79	NA	NA	NA	NA	31	30	63	56	55	58	40	49	10	15	307	287	594
Low- and middle-income countries	340	349	NA	NA	NA	NA	357	227	1,167	726	1,320	1,003	1,101	1,209	340	569	4,625	4,082	8,707
High-income countries	1	0	NA	NA	NA	NA	20	10	83	40	99	57	112	94	60	88	374	290	664
WORLD	340	349	NA	NA	NA	NA	377	237	1,251	766	1,419	1,060	1,213	1,302	400	657	4,999	4,372	9,371
Attributable DALYs (thousands)																			
East Asia and Pacific	44	83	NA	NA	NA	NA	150	94	522	334	664	482	615	670	207	363	2,202	2,025	4,227
Europe and Central Asia	7	6	NA	NA	NA	NA	44	15	146	54	163	102	123	155	30	79	512	411	923
Latin America and the Caribbean	9	8	NA	NA	NA	NA	24	17	62	41	58	43	51	47	23	31	227	187	414
Middle East and North Africa	20	19	NA	NA	NA	NA	22	13	57	36	57	45	49	48	13	17	218	177	395
South Asia	152	154	NA	NA	NA	NA	86	58	318	205	323	274	223	240	57	64	1,159	995	2,154
Sub-Saharan Africa	107	79	NA	NA	NA	NA	31	30	63	56	55	58	40	49	10	15	307	287	594
Low- and middle-income countries	340	349	NA	NA	NA	NA	357	227	1,167	726	1,320	1,003	1,101	1,209	340	569	4,625	4,082	8,707
High-income countries	1	0	NA	NA	NA	NA	20	10	83	40	99	57	112	94	60	88	374	290	664
WORLD	340	349	NA	NA	NA	NA	377	237	1,251	766	1,419	1,060	1,213	1,302	400	657	4,999	4,372	9,371

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.108

Risk factor: Smoking
Disease: Chronic obstructive pulmonary disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	70	42	54	21	48	21	41	17	44	13	44	16	29
Europe and Central Asia	NA	NA	NA	NA	NA	NA	87	44	89	51	86	43	78	45	64	27	79	38	64
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	52	23	68	45	64	44	59	42	60	47	60	43	53
Middle East and North Africa	NA	NA	NA	NA	NA	NA	69	63	67	38	64	28	59	26	60	11	60	25	45
South Asia	NA	NA	NA	NA	NA	NA	52	0	70	25	66	25	59	9	58	0	64	16	42
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	23	15	46	22	42	18	35	13	33	13	38	15	29
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	53	18	65	25	58	24	48	17	47	14	53	18	36
High-income countries	NA	NA	NA	NA	NA	NA	71	62	81	69	80	70	79	73	79	74	79	73	76
WORLD	NA	NA	NA	NA	NA	NA	54	19	65	27	59	27	52	22	54	22	56	23	40
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	70	42	54	21	48	21	41	17	44	13	46	18	31
Europe and Central Asia	NA	NA	NA	NA	NA	NA	87	44	89	51	86	43	78	45	64	27	81	41	68
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	52	23	68	45	64	44	59	42	60	47	59	38	50
Middle East and North Africa	NA	NA	NA	NA	NA	NA	69	63	67	38	64	28	59	26	60	11	59	28	46
South Asia	NA	NA	NA	NA	NA	NA	52	0	70	25	66	25	59	9	58	0	65	19	44
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	23	15	46	22	42	18	35	13	33	13	38	16	30
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	53	18	65	25	58	24	48	17	47	14	55	20	38
High-income countries	NA	NA	NA	NA	NA	NA	71	62	81	69	80	70	79	73	79	74	79	72	76
WORLD	NA	NA	NA	NA	NA	NA	54	19	65	27	60	27	52	22	53	21	57	24	41
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	70	42	54	21	48	21	41	17	44	13	48	19	34
Europe and Central Asia	NA	NA	NA	NA	NA	NA	87	44	89	51	86	43	78	45	64	27	81	42	64
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	52	23	68	45	64	44	59	42	60	47	60	35	48
Middle East and North Africa	NA	NA	NA	NA	NA	NA	69	63	67	38	64	28	59	26	60	11	61	34	52
South Asia	NA	NA	NA	NA	NA	NA	52	0	70	25	66	25	59	9	58	0	65	18	43
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	23	15	46	22	42	18	35	13	33	13	37	16	30
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	60	27	62	27	58	25	48	18	47	14	55	21	40
High-income countries	NA	NA	NA	NA	NA	NA	71	62	81	69	80	70	79	73	79	74	77	68	73
WORLD	NA	NA	NA	NA	NA	NA	62	36	65	34	60	30	53	23	54	22	58	28	44
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	1	25	7	66	23	113	48	83	44	289	123	412
Europe and Central Asia	NA	NA	NA	NA	NA	NA	2	0	9	2	22	3	25	8	9	5	66	18	84
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	3	1	7	3	12	5	12	8	35	18	53
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	0	2	1	4	1	5	2	3	0	14	4	18
South Asia	NA	NA	NA	NA	NA	NA	3	0	63	18	65	15	52	7	20	0	204	40	244
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	6	1	8	2	9	2	4	1	28	6	34
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	9	2	108	30	172	48	216	71	131	58	635	210	845
High-income countries	NA	NA	NA	NA	NA	NA	0	0	6	4	20	11	51	30	58	48	135	93	227
WORLD	NA	NA	NA	NA	NA	NA	9	3	114	34	191	58	267	102	188	106	770	302	1,072
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	37	31	453	144	874	347	998	483	414	221	2,776	1,226	4,002
Europe and Central Asia	NA	NA	NA	NA	NA	NA	40	7	168	30	294	47	227	80	40	23	769	188	957
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	11	4	58	29	95	46	105	52	55	38	325	168	493
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	8	35	16	51	15	47	17	14	3	158	58	216
South Asia	NA	NA	NA	NA	NA	NA	83	0	1,144	350	890	231	465	75	100	0	2,683	657	3,339
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	18	4	110	27	112	26	78	19	20	7	338	83	420
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	202	55	1,968	596	2,317	712	1,920	726	643	290	7,048	2,380	9,428
High-income countries	NA	NA	NA	NA	NA	NA	11	6	111	71	259	159	446	307	256	213	1,083	756	1,838
WORLD	NA	NA	NA	NA	NA	NA	212	61	2,079	667	2,576	871	2,365	1,033	899	503	8,131	3,136	11,267
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	215	152	1,264	204	1,190	421	1,123	534	457	232	4,250	1,543	5,793
Europe and Central Asia	NA	NA	NA	NA	NA	NA	127	94	277	123	369	83	272	96	47	25	1,093	422	1,514
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	65	59	206	99	168	73	133	65	64	43	636	339	976
Middle East and North Africa	NA	NA	NA	NA	NA	NA	113	35	85	24	61	17	50	17	14	3	325	96	420
South Asia	NA	NA	NA	NA	NA	NA	232	0	1,375	473	1,050	253	499	79	106	0	3,262	806	4,068
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	26	5	137	31	129	28	83	20	21	7	395	90	485
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	779	345	3,344	954	2,968	876	2,160	811	710	310	9,961	3,296	13,257
High-income countries	NA	NA	NA	NA	NA	NA	178	268	632	453	491	316	590	383	289	253	2,181	1,673	3,853
WORLD	NA	NA	NA	NA	NA	NA	957	612	3,976	1,407	3,459	1,192	2,750	1,194	1,000	563	12,142	4,968	17,110

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.109

Risk factor: Smoking
Disease: Trachea, bronchus, and lung cancers

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	51	19	52	20	60	25	59	19	60	12	57	20	45
Europe and Central Asia	NA	NA	NA	NA	NA	NA	76	21	93	55	95	54	93	51	83	26	92	48	85
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	36	10	78	49	85	55	84	49	81	45	80	47	70
Middle East and North Africa	NA	NA	NA	NA	NA	NA	52	36	77	42	85	38	84	33	80	13	79	34	69
South Asia	NA	NA	NA	NA	NA	NA	33	0	79	29	86	34	84	12	80	0	80	22	70
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	18	10	58	27	69	27	66	20	58	18	61	23	51
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	51	16	71	29	76	33	74	26	71	18	72	27	60
High-income countries	NA	NA	NA	NA	NA	NA	55	33	88	73	92	78	93	78	91	72	91	74	86
WORLD	NA	NA	NA	NA	NA	NA	51	20	75	44	81	50	82	49	83	51	79	47	70
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	51	19	52	20	60	25	59	19	60	12	56	21	44
Europe and Central Asia	NA	NA	NA	NA	NA	NA	76	21	93	55	95	54	93	51	83	26	92	49	85
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	36	10	78	49	85	55	84	49	81	45	78	45	67
Middle East and North Africa	NA	NA	NA	NA	NA	NA	52	36	77	42	85	38	84	33	80	13	76	35	65
South Asia	NA	NA	NA	NA	NA	NA	33	0	79	29	86	34	84	12	80	0	78	23	67
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	18	10	58	27	69	27	66	20	58	18	59	23	49
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	51	16	71	29	76	33	74	26	71	17	71	27	59
High-income countries	NA	NA	NA	NA	NA	NA	55	33	88	73	92	78	93	78	91	72	90	74	84
WORLD	NA	NA	NA	NA	NA	NA	51	20	75	43	81	50	82	48	82	50	77	45	67
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	51	19	52	20	60	25	59	19	60	12	56	21	44
Europe and Central Asia	NA	NA	NA	NA	NA	NA	76	21	93	55	95	54	93	51	83	26	92	49	85
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	36	10	78	49	85	55	84	49	81	45	78	45	67
Middle East and North Africa	NA	NA	NA	NA	NA	NA	52	36	77	42	85	38	84	33	80	13	76	35	65
South Asia	NA	NA	NA	NA	NA	NA	33	0	79	29	86	34	84	12	80	0	78	23	67
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	18	10	58	27	69	27	66	20	58	18	59	23	49
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	51	16	71	29	76	33	74	26	71	17	71	27	59
High-income countries	NA	NA	NA	NA	NA	NA	55	33	88	73	92	78	93	78	91	72	90	74	84
WORLD	NA	NA	NA	NA	NA	NA	51	20	75	44	81	50	82	49	82	50	77	45	67
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	6	1	31	6	57	9	45	8	11	2	150	25	176
Europe and Central Asia	NA	NA	NA	NA	NA	NA	4	0	34	3	50	4	34	5	5	1	126	14	140
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	6	2	10	3	10	2	4	1	31	8	39
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	0	3	0	4	0	4	0	1	0	12	1	14
South Asia	NA	NA	NA	NA	NA	NA	2	0	21	2	32	2	23	1	7	0	85	5	90
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	2	0	3	0	1	0	0	0	7	1	8
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	12	2	97	13	156	19	117	17	28	4	411	55	466
High-income countries	NA	NA	NA	NA	NA	NA	3	1	44	17	80	26	107	39	49	25	283	108	391
WORLD	NA	NA	NA	NA	NA	NA	15	3	141	30	236	45	225	56	77	29	693	163	856
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	139	29	583	112	765	136	410	85	58	9	1,953	371	2,324
Europe and Central Asia	NA	NA	NA	NA	NA	NA	83	7	629	66	688	66	316	53	23	5	1,740	196	1,936
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	11	3	120	38	133	39	89	23	19	6	373	109	482
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	5	51	10	55	6	34	4	5	0	158	25	183
South Asia	NA	NA	NA	NA	NA	NA	36	0	389	37	437	38	212	7	35	0	1,109	82	1,191
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	1	42	6	35	5	13	2	2	0	94	14	108
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	284	45	1,814	269	2,114	290	1,073	174	143	20	5,427	797	6,224
High-income countries	NA	NA	NA	NA	NA	NA	67	28	810	331	1,074	396	957	402	233	123	3,141	1,281	4,422
WORLD	NA	NA	NA	NA	NA	NA	351	73	2,624	599	3,187	686	2,030	576	376	144	8,568	2,078	10,646
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	140	30	588	113	774	138	416	86	59	9	1,978	375	2,353
Europe and Central Asia	NA	NA	NA	NA	NA	NA	84	7	636	66	698	67	322	54	24	5	1,764	199	1,963
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	11	3	122	38	135	39	90	24	20	7	379	110	488
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	5	52	10	56	6	35	4	6	0	160	25	185
South Asia	NA	NA	NA	NA	NA	NA	36	0	392	37	442	38	215	7	36	0	1,121	83	1,203
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	2	1	42	6	36	5	13	2	2	0	95	14	109
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	285	45	1,833	271	2,141	292	1,090	176	147	21	5,496	805	6,302
High-income countries	NA	NA	NA	NA	NA	NA	68	29	828	338	1,103	407	991	416	247	129	3,237	1,319	4,556
WORLD	NA	NA	NA	NA	NA	NA	354	74	2,661	609	3,244	699	2,081	592	394	150	8,734	2,124	10,858

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.110

Risk factor: Smoking
Disease: Liver cancer

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	26	4	15	1	12	1	9	1	10	1	14	1	10
Europe and Central Asia	NA	NA	NA	NA	NA	NA	49	4	55	5	47	4	34	4	21	2	43	4	27
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	14	2	24	4	21	4	18	4	18	5	19	4	12
Middle East and North Africa	NA	NA	NA	NA	NA	NA	25	8	23	3	21	2	18	2	18	1	20	3	13
South Asia	NA	NA	NA	NA	NA	NA	14	0	25	2	22	2	18	1	17	0	19	1	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	1	11	1	10	1	8	1	7	1	9	1	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	23	3	16	2	15	2	12	2	12	1	15	2	11
High-income countries	NA	NA	NA	NA	NA	NA	27	8	38	11	37	11	35	13	36	14	36	12	29
WORLD	NA	NA	NA	NA	NA	NA	23	3	19	3	19	3	18	4	21	6	19	4	14
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	26	4	15	1	12	1	9	1	10	1	15	2	11
Europe and Central Asia	NA	NA	NA	NA	NA	NA	49	4	55	5	47	4	34	4	21	2	46	4	29
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	14	2	24	4	21	4	18	4	18	5	19	4	11
Middle East and North Africa	NA	NA	NA	NA	NA	NA	25	8	23	3	21	2	18	2	18	1	20	3	13
South Asia	NA	NA	NA	NA	NA	NA	14	0	25	2	22	2	18	1	17	0	18	1	11
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	1	11	1	10	1	8	1	7	1	8	1	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	23	3	16	2	15	2	12	2	12	1	16	2	12
High-income countries	NA	NA	NA	NA	NA	NA	27	8	38	11	37	11	35	13	36	14	36	12	29
WORLD	NA	NA	NA	NA	NA	NA	23	3	19	3	19	3	18	4	20	6	18	3	14
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	26	4	15	1	12	1	9	1	10	1	15	2	11
Europe and Central Asia	NA	NA	NA	NA	NA	NA	49	4	55	5	47	4	34	4	21	2	45	4	29
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	14	2	24	4	21	4	18	4	18	5	19	4	11
Middle East and North Africa	NA	NA	NA	NA	NA	NA	25	8	23	3	21	2	18	2	18	1	20	3	13
South Asia	NA	NA	NA	NA	NA	NA	14	0	25	2	22	2	18	1	17	0	18	1	11
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	1	11	1	10	1	8	1	7	1	8	1	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	23	3	16	2	15	2	12	2	12	1	16	2	12
High-income countries	NA	NA	NA	NA	NA	NA	27	8	38	11	37	11	35	13	36	14	36	12	29
WORLD	NA	NA	NA	NA	NA	NA	23	3	19	3	19	3	18	4	20	6	18	3	14
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	7	0	15	0	9	0	5	0	1	0	37	2	38
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	2	0	3	0	2	0	0	0	7	0	8
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	2	0	2
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	NA	NA	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	3	0	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	3	0	3
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	9	0	20	1	14	1	8	1	2	0	53	3	56
High-income countries	NA	NA	NA	NA	NA	NA	1	0	5	0	8	1	8	2	3	1	25	4	29
WORLD	NA	NA	NA	NA	NA	NA	9	1	25	1	22	1	16	2	5	2	78	7	85
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	176	9	280	7	121	6	44	3	6	0	627	26	654
Europe and Central Asia	NA	NA	NA	NA	NA	NA	10	0	41	2	37	2	15	2	1	0	104	6	110
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	2	0	10	2	8	2	5	1	1	0	26	5	32
Middle East and North Africa	NA	NA	NA	NA	NA	NA	3	1	6	1	5	0	3	0	0	0	16	2	18
South Asia	NA	NA	NA	NA	NA	NA	7	0	21	1	14	1	5	0	1	0	48	2	50
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	0	23	1	11	1	4	0	1	0	42	3	45
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	202	11	381	14	197	11	75	7	10	1	864	44	908
High-income countries	NA	NA	NA	NA	NA	NA	13	1	100	7	107	11	70	16	16	7	306	42	348
WORLD	NA	NA	NA	NA	NA	NA	215	12	481	20	303	22	145	23	26	8	1,170	85	1,256
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	177	9	282	7	122	6	44	3	6	0	631	27	657
Europe and Central Asia	NA	NA	NA	NA	NA	NA	10	0	41	2	38	2	15	2	1	0	104	6	111
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	2	0	10	2	8	2	5	1	1	0	27	5	32
Middle East and North Africa	NA	NA	NA	NA	NA	NA	3	1	6	1	5	0	3	0	0	0	16	2	18
South Asia	NA	NA	NA	NA	NA	NA	7	0	21	1	15	1	5	0	1	0	49	2	50
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	0	23	1	11	1	4	0	1	0	42	3	45
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	202	11	383	14	198	11	75	7	10	1	869	44	913
High-income countries	NA	NA	NA	NA	NA	NA	13	1	101	7	108	12	72	16	16	7	311	43	354
WORLD	NA	NA	NA	NA	NA	NA	216	12	484	21	306	22	147	23	27	8	1,180	86	1,267

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.111

Risk factor: Smoking
Disease: Cervix uteri cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	4	NA	1	NA	1	NA	1	NA	1	NA	1	1
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	4	NA	5	NA	4	NA	4	NA	2	NA	4	4
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	2	NA	4	NA	4	NA	4	NA	5	NA	4	4
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	8	NA	3	NA	2	NA	2	NA	1	NA	3	3
South Asia	NA	NA	NA	NA	NA	NA	NA	0	NA	2	NA	2	NA	1	NA	0	NA	1	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	1	NA	1	NA	1	NA	1	NA	1	NA	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	2	NA	2	NA	2	NA	1	NA	1	NA	2	2
High-income countries	NA	NA	NA	NA	NA	NA	NA	8	NA	11	NA	11	NA	13	NA	14	NA	11	11
WORLD	NA	NA	NA	NA	NA	NA	NA	3	NA	3	NA	2	NA	2	NA	3	NA	2	2
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	4	NA	1	NA	1	NA	1	NA	1	NA	2	2
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	4	NA	5	NA	4	NA	4	NA	2	NA	4	4
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	2	NA	4	NA	4	NA	4	NA	5	NA	3	3
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	8	NA	3	NA	2	NA	2	NA	1	NA	3	3
South Asia	NA	NA	NA	NA	NA	NA	NA	0	NA	2	NA	2	NA	1	NA	0	NA	1	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	1	NA	1	NA	1	NA	1	NA	1	NA	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	2	NA	2	NA	2	NA	1	NA	1	NA	2	2
High-income countries	NA	NA	NA	NA	NA	NA	NA	8	NA	11	NA	11	NA	13	NA	14	NA	10	10
WORLD	NA	NA	NA	NA	NA	NA	NA	3	NA	3	NA	2	NA	2	NA	3	NA	2	2
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	NA	4	NA	1	NA	1	NA	1	NA	1	NA	2	2
Europe and Central Asia	NA	NA	NA	NA	NA	NA	NA	4	NA	5	NA	4	NA	4	NA	2	NA	4	4
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	NA	2	NA	4	NA	4	NA	4	NA	5	NA	3	3
Middle East and North Africa	NA	NA	NA	NA	NA	NA	NA	8	NA	3	NA	2	NA	2	NA	1	NA	3	3
South Asia	NA	NA	NA	NA	NA	NA	NA	0	NA	2	NA	2	NA	1	NA	0	NA	1	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	NA	1	NA	1	NA	1	NA	1	NA	1	NA	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	NA	2	NA	2	NA	2	NA	1	NA	1	NA	2	2
High-income countries	NA	NA	NA	NA	NA	NA	NA	8	NA	11	NA	11	NA	13	NA	14	NA	10	10
WORLD	NA	NA	NA	NA	NA	NA	NA	3	NA	3	NA	2	NA	2	NA	3	NA	2	2
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	1	1
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	1	1
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	1	1
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	1	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	0	0	0	2	0	1	0	1	0	0	0	4	4
High-income countries	NA	NA	NA	NA	NA	NA	0	0	0	1	0	0	0	0	0	0	0	2	2
WORLD	NA	NA	NA	NA	NA	NA	0	1	0	2	0	1	0	1	0	1	0	6	6
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	3	0	4	0	3	0	1	0	0	0	11	11
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	3	0	6	0	2	0	2	0	0	0	14	14
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	2	0	7	0	3	0	2	0	1	0	15	15
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	3	3
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	9	0	7	0	1	0	0	0	17	17
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	1	0	4	0	2	0	1	0	0	0	7	7
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	0	10	0	31	0	17	0	7	0	1	0	66	66
High-income countries	NA	NA	NA	NA	NA	NA	0	5	0	10	0	5	0	4	0	2	0	27	27
WORLD	NA	NA	NA	NA	NA	NA	0	15	0	42	0	22	0	11	0	3	0	93	93
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	3	0	4	0	3	0	1	0	0	0	12	12
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	4	0	7	0	3	0	2	0	0	0	15	15
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	2	0	8	0	3	0	2	0	1	0	16	16
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	1	0	1	0	0	0	0	0	0	0	3	3
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	9	0	7	0	1	0	0	0	17	17
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	1	0	4	0	2	0	1	0	0	0	7	7
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	0	11	0	33	0	18	0	7	0	1	0	70	70
High-income countries	NA	NA	NA	NA	NA	NA	0	7	0	13	0	6	0	5	0	2	0	32	32
WORLD	NA	NA	NA	NA	NA	NA	0	18	0	46	0	24	0	12	0	3	0	102	102

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.112

Risk factor: Smoking
Disease: Bladder cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	34	10	21	4	17	4	14	3	15	2	16	3	12
Europe and Central Asia	NA	NA	NA	NA	NA	NA	59	11	64	13	57	10	44	11	28	5	49	10	41
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	19	4	32	11	29	11	25	10	25	12	26	11	21
Middle East and North Africa	NA	NA	NA	NA	NA	NA	33	20	31	8	28	6	24	5	25	2	28	7	24
South Asia	NA	NA	NA	NA	NA	NA	19	0	34	5	30	5	24	1	24	0	27	2	15
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	6	3	16	4	14	3	11	2	10	2	12	3	9
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	33	3	35	6	32	6	25	5	21	3	28	4	21
High-income countries	NA	NA	NA	NA	NA	NA	36	19	48	25	47	26	45	29	45	30	46	29	41
WORLD	NA	NA	NA	NA	NA	NA	33	4	38	9	36	10	32	13	33	18	34	13	28
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	34	10	21	4	17	4	14	3	15	2	17	4	13
Europe and Central Asia	NA	NA	NA	NA	NA	NA	59	11	64	13	57	10	44	11	28	5	53	10	45
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	19	4	32	11	29	11	25	10	25	12	27	10	21
Middle East and North Africa	NA	NA	NA	NA	NA	NA	33	20	31	8	28	6	24	5	25	2	28	9	25
South Asia	NA	NA	NA	NA	NA	NA	19	0	34	5	30	5	24	1	24	0	28	2	13
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	6	3	16	4	14	3	11	2	10	2	13	3	9
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	33	3	35	6	32	6	25	5	21	3	30	5	21
High-income countries	NA	NA	NA	NA	NA	NA	36	19	48	25	47	26	45	29	45	30	46	28	41
WORLD	NA	NA	NA	NA	NA	NA	33	4	38	9	36	10	32	13	33	17	34	10	26
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	34	10	21	4	17	4	14	3	15	2	17	4	13
Europe and Central Asia	NA	NA	NA	NA	NA	NA	59	11	64	13	57	10	44	11	28	5	53	10	45
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	19	4	32	11	29	11	25	10	25	12	27	10	21
Middle East and North Africa	NA	NA	NA	NA	NA	NA	33	20	31	8	28	6	24	5	25	2	28	9	25
South Asia	NA	NA	NA	NA	NA	NA	19	0	34	5	30	5	24	1	24	0	28	2	13
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	6	3	16	4	14	3	11	2	10	2	13	3	9
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	33	3	36	6	33	6	25	5	21	3	30	5	21
High-income countries	NA	NA	NA	NA	NA	NA	36	19	48	25	47	26	45	29	45	30	46	28	41
WORLD	NA	NA	NA	NA	NA	NA	34	5	39	9	37	10	32	13	34	17	35	11	27
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	0	1	0	1	0	1	0	1	0	3	0	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	0	0	2	0	4	0	3	0	1	0	9	0	10
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	1	0	0	0	2	0	2
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	3	0	4
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	2	0	1	0	1	0	4	0	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	1	0	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1	0	4	0	8	0	7	0	3	0	23	2	24
High-income countries	NA	NA	NA	NA	NA	NA	0	0	2	0	4	1	7	1	7	3	19	5	24
WORLD	NA	NA	NA	NA	NA	NA	1	0	6	1	11	1	14	2	10	3	42	7	48
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	1	9	1	13	1	11	1	3	0	38	3	42
Europe and Central Asia	NA	NA	NA	NA	NA	NA	5	0	33	1	48	2	28	2	3	0	116	6	122
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	4	1	5	1	5	1	2	1	17	3	20
Middle East and North Africa	NA	NA	NA	NA	NA	NA	5	1	18	1	14	1	8	0	2	0	46	3	49
South Asia	NA	NA	NA	NA	NA	NA	1	0	9	2	21	2	12	0	4	0	46	5	51
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	4	0	4	0	2	0	1	0	11	1	12
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	13	2	77	6	104	7	65	5	15	1	274	22	296
High-income countries	NA	NA	NA	NA	NA	NA	2	1	29	4	49	8	62	15	29	12	171	40	211
WORLD	NA	NA	NA	NA	NA	NA	16	3	105	10	152	14	128	20	44	13	445	61	507
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	1	10	1	14	1	11	1	3	0	41	4	45
Europe and Central Asia	NA	NA	NA	NA	NA	NA	5	0	37	1	52	2	30	2	4	0	128	6	134
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	0	5	1	6	1	5	1	2	1	18	3	21
Middle East and North Africa	NA	NA	NA	NA	NA	NA	6	1	19	1	14	1	8	0	2	0	49	3	53
South Asia	NA	NA	NA	NA	NA	NA	1	0	9	2	22	2	13	0	4	0	49	5	54
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	4	1	4	0	2	0	1	0	11	1	13
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	15	3	85	7	112	7	70	5	16	1	297	23	320
High-income countries	NA	NA	NA	NA	NA	NA	4	1	45	6	64	9	78	18	36	14	228	49	276
WORLD	NA	NA	NA	NA	NA	NA	20	4	130	12	176	16	147	23	53	16	525	72	597

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.113

Risk factor: Smoking
Disease: Pancreas cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	24	8	14	3	11	3	9	3	9	2	12	3	8
Europe and Central Asia	NA	NA	NA	NA	NA	NA	46	9	52	12	45	9	32	10	19	5	42	9	26
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	13	4	22	9	19	9	16	9	17	10	18	9	14
Middle East and North Africa	NA	NA	NA	NA	NA	NA	23	18	21	7	19	5	16	4	16	2	19	6	14
South Asia	NA	NA	NA	NA	NA	NA	13	0	24	4	21	4	16	1	16	0	19	2	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	10	3	9	3	7	2	6	2	8	3	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	27	7	27	7	25	6	18	6	14	5	23	6	15
High-income countries	NA	NA	NA	NA	NA	NA	25	17	36	22	35	23	33	26	33	27	34	26	30
WORLD	NA	NA	NA	NA	NA	NA	26	9	30	12	29	13	26	17	27	20	28	16	22
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	24	8	14	3	11	3	9	3	9	2	13	4	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	46	9	52	12	45	9	32	10	19	5	45	9	29
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	13	4	22	9	19	9	16	9	17	10	19	9	14
Middle East and North Africa	NA	NA	NA	NA	NA	NA	23	18	21	7	19	5	16	4	16	2	20	7	14
South Asia	NA	NA	NA	NA	NA	NA	13	0	24	4	21	4	16	1	16	0	20	3	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	10	3	9	3	7	2	6	2	9	3	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	27	7	27	7	25	6	18	6	14	5	24	6	16
High-income countries	NA	NA	NA	NA	NA	NA	25	17	36	22	35	23	33	26	33	27	34	24	30
WORLD	NA	NA	NA	NA	NA	NA	26	9	30	12	29	13	26	17	26	19	28	14	22
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	24	8	14	3	11	3	9	3	9	2	13	4	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	46	9	52	12	45	9	32	10	19	5	45	9	29
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	13	4	22	9	19	9	16	9	17	10	19	9	14
Middle East and North Africa	NA	NA	NA	NA	NA	NA	23	18	21	7	19	5	16	4	16	2	20	7	14
South Asia	NA	NA	NA	NA	NA	NA	13	0	24	4	21	4	16	1	16	0	20	3	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	10	3	9	3	7	2	6	2	9	3	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	27	7	27	7	25	6	18	6	14	5	24	6	16
High-income countries	NA	NA	NA	NA	NA	NA	25	17	36	22	35	23	33	26	33	27	34	25	30
WORLD	NA	NA	NA	NA	NA	NA	26	9	30	12	29	14	26	17	27	19	28	14	22
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	0	0	1	0	1	0	0	0	0	0	3	1	3
Europe and Central Asia	NA	NA	NA	NA	NA	NA	1	0	3	0	3	0	2	1	0	0	8	1	9
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	1	0	0	0	0	0	2	1	3
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	1
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	1	0	0	0	0	0	1	0	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1	0	5	1	5	1	3	1	1	0	14	3	18
High-income countries	NA	NA	NA	NA	NA	NA	0	0	4	1	5	2	6	5	4	5	19	14	33
WORLD	NA	NA	NA	NA	NA	NA	1	0	8	2	10	3	9	6	4	6	33	17	50
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	3	18	2	9	2	4	1	1	0	41	8	50
Europe and Central Asia	NA	NA	NA	NA	NA	NA	13	1	51	6	39	6	14	6	1	1	118	20	138
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	0	8	3	7	4	4	3	1	1	22	11	33
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	1	2	1	2	0	1	0	0	0	6	2	8
South Asia	NA	NA	NA	NA	NA	NA	2	0	7	1	7	1	3	0	1	0	20	2	22
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	2	1	1	0	1	0	0	0	4	2	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	26	5	90	14	65	13	27	11	4	2	212	45	256
High-income countries	NA	NA	NA	NA	NA	NA	7	3	67	25	70	35	55	50	17	24	216	138	354
WORLD	NA	NA	NA	NA	NA	NA	34	7	157	39	135	49	82	61	21	26	428	183	611
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	3	19	2	9	2	4	1	1	0	42	9	50
Europe and Central Asia	NA	NA	NA	NA	NA	NA	13	1	52	6	39	6	15	6	1	1	120	20	140
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	0	8	3	7	4	4	3	1	1	22	11	34
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	1	2	1	2	0	1	0	0	0	6	2	8
South Asia	NA	NA	NA	NA	NA	NA	2	0	8	1	7	1	3	0	1	0	20	2	22
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	2	1	1	0	1	0	0	0	4	2	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	26	5	91	14	66	13	27	11	4	2	214	45	259
High-income countries	NA	NA	NA	NA	NA	NA	8	3	68	26	72	36	57	51	18	25	222	142	364
WORLD	NA	NA	NA	NA	NA	NA	34	8	159	40	138	50	84	62	22	28	436	187	623

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.114

Risk factor: Smoking
Disease: Stomach cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	23	4	13	1	11	1	8	1	9	1	11	1	8
Europe and Central Asia	NA	NA	NA	NA	NA	NA	45	4	51	5	44	4	31	4	19	2	40	4	25
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	12	2	21	4	19	4	16	4	16	5	17	4	12
Middle East and North Africa	NA	NA	NA	NA	NA	NA	23	8	21	3	19	2	16	2	16	1	18	3	12
South Asia	NA	NA	NA	NA	NA	NA	12	0	23	2	20	2	16	1	15	0	18	1	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	1	10	1	9	1	7	1	6	1	8	1	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	23	3	19	2	17	2	13	2	12	1	16	2	11
High-income countries	NA	NA	NA	NA	NA	NA	24	8	35	11	34	11	32	13	33	13	33	12	25
WORLD	NA	NA	NA	NA	NA	NA	23	4	21	3	20	3	17	4	18	5	19	4	13
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	23	4	13	1	11	1	8	1	9	1	12	2	8
Europe and Central Asia	NA	NA	NA	NA	NA	NA	45	4	51	5	44	4	31	4	19	2	43	4	27
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	12	2	21	4	19	4	16	4	16	5	18	4	12
Middle East and North Africa	NA	NA	NA	NA	NA	NA	23	8	21	3	19	2	16	2	16	1	18	3	12
South Asia	NA	NA	NA	NA	NA	NA	12	0	23	2	20	2	16	1	15	0	18	1	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	1	10	1	9	1	7	1	6	1	8	1	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	23	3	19	2	17	2	13	2	12	1	17	2	11
High-income countries	NA	NA	NA	NA	NA	NA	24	8	35	11	34	11	32	13	33	13	33	11	25
WORLD	NA	NA	NA	NA	NA	NA	23	4	21	3	20	3	17	4	18	5	19	3	13
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	23	4	13	1	11	1	8	1	9	1	12	2	8
Europe and Central Asia	NA	NA	NA	NA	NA	NA	45	4	51	5	44	4	31	4	19	2	43	4	27
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	12	2	21	4	19	4	16	4	16	5	18	4	12
Middle East and North Africa	NA	NA	NA	NA	NA	NA	23	8	21	3	19	2	16	2	16	1	18	3	12
South Asia	NA	NA	NA	NA	NA	NA	12	0	23	2	20	2	16	1	15	0	18	1	12
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	1	10	1	9	1	7	1	6	1	8	1	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	23	3	19	2	17	2	13	2	12	1	17	2	11
High-income countries	NA	NA	NA	NA	NA	NA	24	8	35	11	34	11	32	13	33	13	33	11	25
WORLD	NA	NA	NA	NA	NA	NA	23	4	21	3	20	3	17	4	18	5	19	3	13
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	4	0	10	0	9	1	6	1	2	0	31	2	33
Europe and Central Asia	NA	NA	NA	NA	NA	NA	1	0	7	0	9	0	5	1	1	0	24	2	25
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	1	0	2	0	2	0	1	0	6	1	7
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	1	0	1	0	0	0	2	0	2
South Asia	NA	NA	NA	NA	NA	NA	0	0	1	0	2	0	1	0	1	0	5	0	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	1	0	0	0	0	0	0	0	1	0	2
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	6	1	21	1	23	1	15	1	5	1	69	5	74
High-income countries	NA	NA	NA	NA	NA	NA	1	0	5	1	8	1	10	2	7	3	29	7	36
WORLD	NA	NA	NA	NA	NA	NA	6	1	26	2	30	2	25	4	11	4	99	12	111
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	86	12	186	9	122	8	56	5	12	1	462	35	497
Europe and Central Asia	NA	NA	NA	NA	NA	NA	33	2	134	6	124	6	50	7	4	1	346	22	368
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	5	1	28	3	22	3	14	2	5	1	74	11	85
Middle East and North Africa	NA	NA	NA	NA	NA	NA	4	2	9	1	8	0	5	0	1	0	27	3	30
South Asia	NA	NA	NA	NA	NA	NA	6	0	26	1	26	1	9	0	3	0	70	3	73
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	10	1	5	1	3	0	1	0	20	2	22
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	136	17	393	22	308	19	137	15	24	3	998	77	1,074
High-income countries	NA	NA	NA	NA	NA	NA	14	4	87	13	103	15	87	21	30	13	322	67	389
WORLD	NA	NA	NA	NA	NA	NA	151	21	480	36	411	34	224	37	54	17	1,320	143	1,463
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	87	12	189	9	123	8	57	5	12	1	468	36	503
Europe and Central Asia	NA	NA	NA	NA	NA	NA	34	2	136	6	127	6	51	7	4	1	351	22	374
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	6	1	28	3	23	3	14	2	5	1	75	11	86
Middle East and North Africa	NA	NA	NA	NA	NA	NA	4	2	9	1	8	0	5	0	1	0	27	3	30
South Asia	NA	NA	NA	NA	NA	NA	6	0	26	1	26	1	9	0	3	0	71	3	73
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	10	1	5	1	3	0	1	0	20	3	23
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	137	17	398	22	312	19	140	15	25	3	1,012	77	1,090
High-income countries	NA	NA	NA	NA	NA	NA	14	4	90	14	107	15	91	22	32	14	334	70	404
WORLD	NA	NA	NA	NA	NA	NA	152	21	488	36	419	34	231	38	57	18	1,346	147	1,493

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.115

Risk factor: Smoking
Disease: Upper aerodigestive cancer

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	65	28	48	13	42	13	36	10	38	8	43	12	32
Europe and Central Asia	NA	NA	NA	NA	NA	NA	84	30	87	36	83	29	73	30	58	17	81	28	69
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	46	14	62	30	59	30	54	28	54	32	57	29	49
Middle East and North Africa	NA	NA	NA	NA	NA	NA	64	48	62	25	59	18	53	16	54	6	56	21	43
South Asia	NA	NA	NA	NA	NA	NA	46	0	65	15	61	15	53	5	53	0	57	9	39
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	19	9	40	13	36	10	30	7	28	8	34	10	25
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	56	15	58	15	53	15	45	10	46	6	51	12	37
High-income countries	NA	NA	NA	NA	NA	NA	66	46	77	55	76	56	74	60	75	61	75	58	71
WORLD	NA	NA	NA	NA	NA	NA	57	17	60	18	56	17	50	15	53	17	55	16	42
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	65	28	48	13	42	13	36	10	38	8	45	13	33
Europe and Central Asia	NA	NA	NA	NA	NA	NA	84	30	87	36	83	29	73	30	58	17	82	30	72
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	46	14	62	30	59	30	54	28	54	32	57	28	50
Middle East and North Africa	NA	NA	NA	NA	NA	NA	64	48	62	25	59	18	53	16	54	6	55	23	44
South Asia	NA	NA	NA	NA	NA	NA	46	0	65	15	61	15	53	5	53	0	56	11	39
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	19	9	40	13	36	10	30	7	28	8	34	10	25
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	56	15	58	15	53	15	45	10	46	6	52	13	39
High-income countries	NA	NA	NA	NA	NA	NA	66	46	77	55	76	56	74	60	75	61	75	56	71
WORLD	NA	NA	NA	NA	NA	NA	57	17	61	18	56	17	50	15	52	16	55	16	42
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	65	28	48	13	42	13	36	10	38	8	45	13	33
Europe and Central Asia	NA	NA	NA	NA	NA	NA	84	30	87	36	83	29	73	30	58	17	82	30	72
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	46	14	62	30	59	30	54	28	54	32	57	28	50
Middle East and North Africa	NA	NA	NA	NA	NA	NA	64	48	62	25	59	18	53	16	54	6	55	23	44
South Asia	NA	NA	NA	NA	NA	NA	46	0	65	15	61	15	53	5	53	0	56	11	39
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	19	9	40	13	36	10	30	7	28	8	34	10	25
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	56	15	58	15	53	15	45	10	46	6	52	13	39
High-income countries	NA	NA	NA	NA	NA	NA	66	46	77	55	76	56	74	60	75	61	75	56	71
WORLD	NA	NA	NA	NA	NA	NA	57	17	61	18	56	17	50	15	53	16	55	17	42
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	1	25	3	27	4	17	3	4	1	83	13	95
Europe and Central Asia	NA	NA	NA	NA	NA	NA	2	0	12	1	11	1	5	1	1	0	30	3	33
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	0	4	0	4	1	3	1	1	1	13	2	15
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	1	0	1	0	1	0	0	0	4	1	4
South Asia	NA	NA	NA	NA	NA	NA	4	0	19	3	32	4	16	1	6	0	78	8	86
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	3	1	3	0	2	0	1	0	9	1	11
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	16	1	65	8	78	9	44	6	14	2	216	28	244
High-income countries	NA	NA	NA	NA	NA	NA	2	0	15	2	16	2	15	4	7	5	56	14	70
WORLD	NA	NA	NA	NA	NA	NA	18	2	80	10	94	12	59	11	21	8	272	42	314
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	206	25	470	67	364	58	158	34	23	6	1,222	190	1,412
Europe and Central Asia	NA	NA	NA	NA	NA	NA	38	4	226	13	145	11	48	11	4	2	460	41	501
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	14	1	80	9	50	9	24	7	7	3	175	29	204
Middle East and North Africa	NA	NA	NA	NA	NA	NA	11	5	18	4	14	2	7	2	1	0	52	13	64
South Asia	NA	NA	NA	NA	NA	NA	102	0	365	57	436	56	147	10	31	0	1,080	123	1,203
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	8	2	65	10	42	6	17	3	3	1	135	22	158
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	378	36	1,224	160	1,051	142	401	67	69	12	3,124	417	3,541
High-income countries	NA	NA	NA	NA	NA	NA	41	7	287	39	222	38	134	42	34	24	717	150	867
WORLD	NA	NA	NA	NA	NA	NA	419	43	1,511	199	1,274	180	535	109	102	36	3,842	567	4,408
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	208	25	476	67	369	59	160	34	23	6	1,238	193	1,430
Europe and Central Asia	NA	NA	NA	NA	NA	NA	38	4	231	13	148	12	49	11	4	2	471	42	512
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	14	1	82	9	51	9	25	7	7	3	179	29	208
Middle East and North Africa	NA	NA	NA	NA	NA	NA	11	5	19	4	14	2	8	2	1	0	52	13	65
South Asia	NA	NA	NA	NA	NA	NA	102	0	371	58	444	56	150	10	32	0	1,099	125	1,224
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	8	2	66	10	42	6	18	3	3	1	137	23	160
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	382	37	1,244	162	1,069	144	409	68	71	12	3,176	424	3,599
High-income countries	NA	NA	NA	NA	NA	NA	42	8	298	41	231	39	141	44	36	26	747	157	904
WORLD	NA	NA	NA	NA	NA	NA	424	45	1,541	203	1,300	183	550	112	108	38	3,923	581	4,504

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.116

Risk factor: Smoking
Disease: Leukemia

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	19	2	10	1	8	1	7	1	7	0	6	1	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	39	2	45	3	38	2	26	2	15	1	28	2	16
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	10	1	17	2	15	2	13	2	13	2	8	1	5
Middle East and North Africa	NA	NA	NA	NA	NA	NA	18	4	17	2	15	1	13	1	13	0	9	1	6
South Asia	NA	NA	NA	NA	NA	NA	10	0	19	1	16	1	12	0	12	0	7	0	4
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	3	0	8	1	7	1	5	0	5	0	4	0	3
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	17	2	18	1	17	1	13	1	11	1	10	1	6
High-income countries	NA	NA	NA	NA	NA	NA	20	4	29	5	28	6	27	7	27	7	25	6	17
WORLD	NA	NA	NA	NA	NA	NA	18	2	21	2	21	2	19	3	21	5	14	2	9
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	19	2	10	1	8	1	7	1	7	0	5	1	3
Europe and Central Asia	NA	NA	NA	NA	NA	NA	39	2	45	3	38	2	26	2	15	1	25	2	15
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	10	1	17	2	15	2	13	2	13	2	6	1	4
Middle East and North Africa	NA	NA	NA	NA	NA	NA	18	4	17	2	15	1	13	1	13	0	7	1	4
South Asia	NA	NA	NA	NA	NA	NA	10	0	19	1	16	1	12	0	12	0	5	0	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	3	0	8	1	7	1	5	0	5	0	4	0	2
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	17	2	18	1	17	1	13	1	10	1	7	1	4
High-income countries	NA	NA	NA	NA	NA	NA	20	4	29	5	28	6	27	7	27	7	23	5	15
WORLD	NA	NA	NA	NA	NA	NA	18	2	21	2	21	2	19	3	20	4	10	1	6
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	19	2	10	1	8	1	7	1	7	0	5	1	3
Europe and Central Asia	NA	NA	NA	NA	NA	NA	39	2	45	3	38	2	26	2	15	1	25	2	15
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	10	1	17	2	15	2	13	2	13	2	6	1	4
Middle East and North Africa	NA	NA	NA	NA	NA	NA	18	4	17	2	15	1	13	1	13	0	7	1	4
South Asia	NA	NA	NA	NA	NA	NA	10	0	19	1	16	1	12	0	12	0	5	0	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	3	0	8	1	7	1	5	0	5	0	4	0	2
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	17	2	18	1	17	1	13	1	10	1	7	1	4
High-income countries	NA	NA	NA	NA	NA	NA	20	4	29	5	28	6	27	7	27	7	23	5	15
WORLD	NA	NA	NA	NA	NA	NA	18	2	21	2	21	2	19	4	21	4	10	1	6
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	1	0	1	0	0	0	0	0	0	0	2	0	3
Europe and Central Asia	NA	NA	NA	NA	NA	NA	1	0	1	0	1	0	1	0	0	0	4	0	4
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	1	0	1
Middle East and North Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	1	0	1
South Asia	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	2	0	2
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	0	0	0	0	0	0	0	0	0	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	2	0	3	0	3	0	2	0	1	0	10	1	11
High-income countries	NA	NA	NA	NA	NA	NA	0	0	2	0	2	0	3	1	3	1	10	2	12
WORLD	NA	NA	NA	NA	NA	NA	3	0	4	0	5	0	5	1	3	1	20	3	23
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	20	3	14	1	6	0	3	0	1	0	44	4	49
Europe and Central Asia	NA	NA	NA	NA	NA	NA	15	1	23	1	18	1	8	1	1	0	63	3	66
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	0	5	1	3	0	2	0	1	0	14	2	16
Middle East and North Africa	NA	NA	NA	NA	NA	NA	4	1	3	0	2	0	1	0	0	0	11	1	13
South Asia	NA	NA	NA	NA	NA	NA	6	0	8	0	6	0	2	0	1	0	23	1	24
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	2	0	1	0	1	0	0	0	5	0	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	50	5	55	3	36	2	16	1	3	0	161	11	172
High-income countries	NA	NA	NA	NA	NA	NA	11	2	29	4	31	4	30	6	12	4	113	19	132
WORLD	NA	NA	NA	NA	NA	NA	61	6	85	7	67	6	46	7	15	4	274	31	304
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	21	3	14	1	7	0	3	0	1	0	45	4	49
Europe and Central Asia	NA	NA	NA	NA	NA	NA	15	1	23	1	18	1	8	1	1	0	64	3	68
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	0	5	1	3	0	2	0	1	0	14	2	16
Middle East and North Africa	NA	NA	NA	NA	NA	NA	4	1	3	0	2	0	1	0	0	0	12	1	13
South Asia	NA	NA	NA	NA	NA	NA	6	0	8	0	6	0	2	0	1	0	24	1	24
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	2	0	1	0	1	0	0	0	5	0	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	50	5	56	3	37	2	17	1	3	0	163	12	175
High-income countries	NA	NA	NA	NA	NA	NA	11	2	30	4	32	4	32	6	13	4	118	20	139
WORLD	NA	NA	NA	NA	NA	NA	62	6	87	7	69	6	48	8	16	4	282	32	313

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.117

Risk factor: Smoking
Disease: Ischemic heart disease

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	54	9	21	7	8	4	3	1	0	1	10	2	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	76	10	65	23	37	11	13	5	0	1	30	5	17
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	35	4	32	19	15	11	6	4	0	3	13	7	10
Middle East and North Africa	NA	NA	NA	NA	NA	NA	53	19	32	15	15	6	6	2	0	0	16	5	11
South Asia	NA	NA	NA	NA	NA	NA	35	0	34	9	16	5	6	1	0	0	16	3	10
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	13	2	16	8	7	3	2	1	0	1	7	3	5
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	50	5	38	12	20	6	7	2	0	1	18	4	11
High-income countries	NA	NA	NA	NA	NA	NA	56	18	49	40	28	27	14	15	0	10	17	13	15
WORLD	NA	NA	NA	NA	NA	NA	50	5	40	14	21	8	9	4	0	4	18	6	12
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	54	9	21	7	8	4	3	1	0	1	14	4	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	76	10	65	23	37	11	13	5	0	1	40	8	26
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	35	4	32	19	15	11	6	4	0	3	19	9	15
Middle East and North Africa	NA	NA	NA	NA	NA	NA	53	19	32	15	15	6	6	2	0	0	21	7	15
South Asia	NA	NA	NA	NA	NA	NA	35	0	34	9	16	5	6	1	0	0	21	4	13
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	13	2	16	8	7	3	2	1	0	1	9	3	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	50	5	38	12	20	6	7	2	0	1	24	5	15
High-income countries	NA	NA	NA	NA	NA	NA	56	18	49	40	28	27	14	15	0	10	26	17	22
WORLD	NA	NA	NA	NA	NA	NA	50	5	40	14	21	8	9	4	0	4	24	7	17
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	54	9	21	7	8	4	3	1	0	1	14	4	9
Europe and Central Asia	NA	NA	NA	NA	NA	NA	76	10	65	23	37	11	13	5	0	1	41	8	26
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	35	4	32	19	15	11	6	4	0	3	19	9	15
Middle East and North Africa	NA	NA	NA	NA	NA	NA	53	19	32	15	15	6	6	2	0	0	21	7	15
South Asia	NA	NA	NA	NA	NA	NA	35	0	34	9	16	5	6	1	0	0	21	4	13
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	13	2	16	8	7	3	2	1	0	1	9	3	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	50	5	38	12	20	6	7	2	0	1	24	5	15
High-income countries	NA	NA	NA	NA	NA	NA	56	18	49	40	28	27	14	15	0	10	26	18	23
WORLD	NA	NA	NA	NA	NA	NA	50	5	40	14	21	8	9	4	0	4	24	7	17
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	16	1	22	4	12	5	6	2	0	1	56	14	70
Europe and Central Asia	NA	NA	NA	NA	NA	NA	29	1	99	10	84	14	36	15	0	5	248	45	293
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	0	13	3	7	3	4	2	0	2	27	11	38
Middle East and North Africa	NA	NA	NA	NA	NA	NA	6	1	13	3	7	2	4	1	0	0	30	7	36
South Asia	NA	NA	NA	NA	NA	NA	17	0	84	11	47	12	18	2	0	0	166	24	190
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	6	2	3	2	1	0	0	0	12	4	16
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	72	3	237	34	161	37	68	22	1	8	539	105	644
High-income countries	NA	NA	NA	NA	NA	NA	9	1	43	9	36	14	33	23	1	40	122	86	208
WORLD	NA	NA	NA	NA	NA	NA	81	4	280	43	197	51	100	45	2	48	661	191	852
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	392	36	409	86	165	69	51	23	1	5	1,018	220	1,238
Europe and Central Asia	NA	NA	NA	NA	NA	NA	672	17	1,881	202	1,138	209	323	153	1	24	4,015	605	4,620
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	75	4	237	69	97	50	32	20	0	9	442	151	594
Middle East and North Africa	NA	NA	NA	NA	NA	NA	134	19	244	59	98	28	32	10	0	1	508	117	625
South Asia	NA	NA	NA	NA	NA	NA	403	0	1,566	223	632	175	159	17	1	0	2,761	415	3,176
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	22	2	119	39	46	23	13	5	0	1	199	70	269
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1,698	78	4,455	679	2,177	553	610	229	4	39	8,944	1,578	10,522
High-income countries	NA	NA	NA	NA	NA	NA	207	16	793	179	489	211	286	229	5	162	1,780	798	2,577
WORLD	NA	NA	NA	NA	NA	NA	1,905	94	5,247	858	2,666	764	896	458	9	201	10,724	2,376	13,099
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	434	41	437	92	174	72	52	24	1	5	1,097	234	1,331
Europe and Central Asia	NA	NA	NA	NA	NA	NA	722	20	1,953	217	1,175	219	328	156	1	24	4,179	635	4,815
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	86	5	253	76	104	53	33	20	0	9	476	162	638
Middle East and North Africa	NA	NA	NA	NA	NA	NA	149	21	257	63	103	29	33	11	0	1	542	124	667
South Asia	NA	NA	NA	NA	NA	NA	458	0	1,661	240	666	184	163	18	1	0	2,949	442	3,391
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	24	2	126	42	48	24	13	5	0	1	212	74	286
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1,872	88	4,687	730	2,269	581	622	233	4	40	9,455	1,672	11,127
High-income countries	NA	NA	NA	NA	NA	NA	237	22	873	215	526	237	300	244	6	168	1,942	886	2,829
WORLD	NA	NA	NA	NA	NA	NA	2,109	110	5,561	945	2,795	818	923	478	10	208	11,397	2,559	13,956

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.118

Risk factor: Smoking
Disease: Selected other cardiovascular diseases

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	22	7	13	3	10	3	8	2	9	2	10	2	5
Europe and Central Asia	NA	NA	NA	NA	NA	NA	44	7	50	9	43	7	30	8	18	4	32	5	16
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	12	3	21	8	18	8	15	7	16	8	15	7	11
Middle East and North Africa	NA	NA	NA	NA	NA	NA	22	15	20	6	18	4	15	4	15	1	15	3	8
South Asia	NA	NA	NA	NA	NA	NA	12	0	22	3	19	3	15	1	15	0	15	1	7
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	10	3	8	2	6	1	6	2	6	2	4
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	21	4	23	4	21	4	16	3	13	3	16	3	9
High-income countries	NA	NA	NA	NA	NA	NA	24	14	34	19	33	19	31	22	32	23	31	22	26
WORLD	NA	NA	NA	NA	NA	NA	21	5	25	6	24	6	20	7	21	12	21	9	14
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	22	7	13	3	10	3	8	2	9	2	10	2	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	44	7	50	9	43	7	30	8	18	4	36	6	21
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	12	3	21	8	18	8	15	7	16	8	14	6	10
Middle East and North Africa	NA	NA	NA	NA	NA	NA	22	15	20	6	18	4	15	4	15	1	14	3	8
South Asia	NA	NA	NA	NA	NA	NA	12	0	22	3	19	3	15	1	15	0	14	1	7
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	10	3	8	2	6	1	6	2	6	2	3
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	21	4	23	4	21	4	16	3	13	3	17	3	9
High-income countries	NA	NA	NA	NA	NA	NA	24	14	34	19	33	19	31	22	32	23	30	21	25
WORLD	NA	NA	NA	NA	NA	NA	21	5	25	6	24	6	20	7	20	11	20	6	12
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	22	7	13	3	10	3	8	2	9	2	10	2	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	44	7	50	9	43	7	30	8	18	4	36	6	21
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	12	3	21	8	18	8	15	7	16	8	14	6	10
Middle East and North Africa	NA	NA	NA	NA	NA	NA	22	15	20	6	18	4	15	4	15	1	14	3	8
South Asia	NA	NA	NA	NA	NA	NA	12	0	22	3	19	3	15	1	15	0	13	1	7
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	10	3	8	2	6	1	6	2	6	2	3
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	21	4	24	4	22	4	16	3	13	3	16	3	9
High-income countries	NA	NA	NA	NA	NA	NA	24	14	34	19	33	19	31	22	32	23	30	21	25
WORLD	NA	NA	NA	NA	NA	NA	21	5	26	6	24	6	20	7	21	11	19	6	12
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2	1	3	1	3	1	4	1	4	1	17	5	22
Europe and Central Asia	NA	NA	NA	NA	NA	NA	6	0	10	1	13	1	13	5	9	5	51	12	63
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	0	2	1	2	1	3	1	4	4	11	6	17
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	0	1	0	1	0	2	1	2	0	7	2	9
South Asia	NA	NA	NA	NA	NA	NA	1	0	6	1	6	1	6	1	4	0	23	3	26
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	0	0	1	0	1	0	1	1	1	1	6	2	8
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	12	2	23	4	27	5	29	10	25	11	115	30	146
High-income countries	NA	NA	NA	NA	NA	NA	2	1	7	2	11	4	23	16	44	66	87	88	175
WORLD	NA	NA	NA	NA	NA	NA	14	2	30	6	38	9	53	25	69	77	203	119	321
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	55	14	59	12	45	13	36	15	21	7	217	61	278
Europe and Central Asia	NA	NA	NA	NA	NA	NA	151	10	192	20	173	21	116	48	40	21	672	120	792
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	14	3	31	11	23	10	23	14	20	17	111	54	165
Middle East and North Africa	NA	NA	NA	NA	NA	NA	17	8	25	7	19	5	17	6	9	1	87	27	114
South Asia	NA	NA	NA	NA	NA	NA	33	0	110	18	84	19	55	8	20	0	302	45	347
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	9	4	25	8	16	6	13	6	7	3	71	27	98
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	279	38	443	76	361	74	259	97	116	50	1,458	335	1,794
High-income countries	NA	NA	NA	NA	NA	NA	45	15	134	41	149	56	201	155	184	260	713	527	1,240
WORLD	NA	NA	NA	NA	NA	NA	324	54	577	117	510	131	461	252	300	309	2,171	863	3,034
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	77	19	63	13	46	13	37	15	21	7	244	67	312
Europe and Central Asia	NA	NA	NA	NA	NA	NA	168	13	217	22	197	23	137	53	47	23	765	133	899
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	16	3	34	11	26	10	25	15	22	19	123	58	181
Middle East and North Africa	NA	NA	NA	NA	NA	NA	20	9	29	8	22	5	19	7	9	1	99	31	130
South Asia	NA	NA	NA	NA	NA	NA	49	0	137	22	103	22	67	9	23	0	380	53	432
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	10	4	26	9	17	6	13	6	8	3	74	28	102
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	339	48	506	85	411	80	298	104	131	53	1,685	370	2,055
High-income countries	NA	NA	NA	NA	NA	NA	59	23	157	49	174	63	237	174	218	294	845	604	1,448
WORLD	NA	NA	NA	NA	NA	NA	398	72	663	134	585	143	535	278	349	347	2,530	974	3,503

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.119

Risk factor: Smoking
Disease: Cerebrovascular disease

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	35	22	22	9	8	5	3	2	0	0	7	3	5
Europe and Central Asia	NA	NA	NA	NA	NA	NA	60	23	66	28	37	12	12	7	0	0	25	6	14
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	20	10	33	24	15	13	5	6	0	0	11	7	9
Middle East and North Africa	NA	NA	NA	NA	NA	NA	35	39	32	19	15	7	5	3	0	0	11	6	8
South Asia	NA	NA	NA	NA	NA	NA	20	0	35	11	16	6	5	1	0	0	13	3	8
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	6	6	17	10	6	4	2	1	0	0	6	3	4
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	32	15	33	14	16	7	5	3	0	0	12	4	8
High-income countries	NA	NA	NA	NA	NA	NA	37	38	49	46	28	30	13	20	0	0	12	8	10
WORLD	NA	NA	NA	NA	NA	NA	32	17	34	16	17	8	6	5	0	0	12	5	8
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	35	22	22	9	8	5	3	2	0	0	10	4	7
Europe and Central Asia	NA	NA	NA	NA	NA	NA	60	23	66	28	37	12	12	7	0	0	34	10	20
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	20	10	33	24	15	13	5	6	0	0	16	11	13
Middle East and North Africa	NA	NA	NA	NA	NA	NA	35	39	32	19	15	7	5	3	0	0	13	8	11
South Asia	NA	NA	NA	NA	NA	NA	20	0	35	11	16	6	5	1	0	0	16	4	10
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	6	6	17	10	6	4	2	1	0	0	8	4	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	32	15	33	14	16	7	5	3	0	0	16	6	11
High-income countries	NA	NA	NA	NA	NA	NA	37	38	49	46	28	30	13	20	0	0	20	16	18
WORLD	NA	NA	NA	NA	NA	NA	32	17	34	16	17	8	6	5	0	0	17	7	12
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	35	22	22	9	8	5	3	2	0	0	11	5	8
Europe and Central Asia	NA	NA	NA	NA	NA	NA	60	23	66	28	37	12	12	7	0	0	35	10	21
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	20	10	33	24	15	13	5	6	0	0	17	12	14
Middle East and North Africa	NA	NA	NA	NA	NA	NA	35	39	32	19	15	7	5	3	0	0	15	9	12
South Asia	NA	NA	NA	NA	NA	NA	20	0	35	11	16	6	5	1	0	0	17	5	11
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	6	6	17	10	6	4	2	1	0	0	8	5	6
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	32	16	32	14	16	7	5	3	0	0	17	6	12
High-income countries	NA	NA	NA	NA	NA	NA	37	38	49	46	28	30	13	20	0	0	23	19	21
WORLD	NA	NA	NA	NA	NA	NA	33	19	34	17	17	9	6	5	0	0	18	8	13
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	3	30	8	20	8	9	6	0	0	68	26	94
Europe and Central Asia	NA	NA	NA	NA	NA	NA	8	2	36	10	40	11	17	16	0	0	101	39	139
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	1	1	7	4	4	3	2	2	0	0	14	10	25
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	1	3	1	2	1	1	1	0	0	7	4	11
South Asia	NA	NA	NA	NA	NA	NA	2	0	27	6	22	7	8	2	0	0	59	15	74
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	1	5	4	2	2	1	1	0	0	9	7	16
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	21	7	107	33	90	32	39	27	1	0	258	100	358
High-income countries	NA	NA	NA	NA	NA	NA	2	2	13	7	12	9	13	20	1	0	40	38	78
WORLD	NA	NA	NA	NA	NA	NA	24	9	120	40	102	41	52	48	1	0	298	138	436
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	210	81	557	167	270	115	83	64	1	0	1,120	427	1,548
Europe and Central Asia	NA	NA	NA	NA	NA	NA	182	41	673	197	537	172	155	159	1	0	1,547	569	2,116
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	31	17	133	87	53	44	18	24	0	0	236	171	407
Middle East and North Africa	NA	NA	NA	NA	NA	NA	21	19	52	28	28	13	10	7	0	0	111	67	179
South Asia	NA	NA	NA	NA	NA	NA	46	0	496	115	296	111	75	17	1	0	914	242	1,157
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	17	13	89	70	31	31	8	9	0	0	144	123	267
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	506	171	2,001	664	1,215	486	350	280	3	0	4,073	1,600	5,674
High-income countries	NA	NA	NA	NA	NA	NA	54	41	235	145	162	129	110	204	3	0	563	519	1,082
WORLD	NA	NA	NA	NA	NA	NA	560	212	2,235	809	1,377	615	460	484	5	0	4,636	2,119	6,755
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	293	114	756	227	354	148	99	76	1	0	1,503	565	2,067
Europe and Central Asia	NA	NA	NA	NA	NA	NA	224	57	838	257	675	222	186	186	1	0	1,924	722	2,646
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	43	25	185	120	73	59	23	28	0	0	324	232	556
Middle East and North Africa	NA	NA	NA	NA	NA	NA	29	26	69	36	36	16	12	8	0	0	147	86	233
South Asia	NA	NA	NA	NA	NA	NA	57	0	619	142	367	134	87	19	1	0	1,131	295	1,426
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	18	14	99	79	35	35	9	10	0	0	160	138	298
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	663	236	2,566	861	1,541	615	416	327	3	0	5,188	2,038	7,226
High-income countries	NA	NA	NA	NA	NA	NA	103	82	462	298	305	247	170	313	3	0	1,043	940	1,983
WORLD	NA	NA	NA	NA	NA	NA	766	317	3,028	1,159	1,845	861	586	640	6	0	6,231	2,978	9,209

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.120

Risk factor: Smoking
Disease: Selected respiratory diseases

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	27	8	16	3	8	3	5	2	3	0	9	2	5
Europe and Central Asia	NA	NA	NA	NA	NA	NA	51	9	56	11	36	8	21	6	7	1	33	4	24
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	15	4	25	9	14	9	10	5	6	3	10	4	7
Middle East and North Africa	NA	NA	NA	NA	NA	NA	26	18	24	7	14	5	10	3	6	0	7	2	5
South Asia	NA	NA	NA	NA	NA	NA	15	0	27	4	15	4	10	1	6	0	9	1	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	12	3	6	3	4	1	2	1	2	1	2
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	17	4	23	4	13	4	8	2	4	1	8	1	5
High-income countries	NA	NA	NA	NA	NA	NA	29	17	40	22	27	22	22	17	14	9	19	11	15
WORLD	NA	NA	NA	NA	NA	NA	18	4	24	5	14	5	10	4	8	4	9	2	6
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	27	8	16	3	8	3	5	2	3	0	9	2	6
Europe and Central Asia	NA	NA	NA	NA	NA	NA	51	9	56	11	36	8	21	6	7	1	32	4	23
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	15	4	25	9	14	9	10	5	6	3	9	3	6
Middle East and North Africa	NA	NA	NA	NA	NA	NA	26	18	24	7	14	5	10	3	6	0	5	2	3
South Asia	NA	NA	NA	NA	NA	NA	15	0	27	4	15	4	10	1	6	0	7	1	4
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	12	3	6	3	4	1	2	1	2	0	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	17	4	23	4	13	4	8	2	4	1	6	1	4
High-income countries	NA	NA	NA	NA	NA	NA	29	17	40	22	27	22	22	17	14	9	22	14	18
WORLD	NA	NA	NA	NA	NA	NA	18	4	24	5	14	5	10	4	7	3	7	1	4
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	22	7	13	3	7	3	5	1	3	0	8	2	5
Europe and Central Asia	NA	NA	NA	NA	NA	NA	44	7	49	8	29	5	15	4	5	1	26	3	18
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	13	3	22	8	13	8	9	5	6	3	7	2	5
Middle East and North Africa	NA	NA	NA	NA	NA	NA	20	15	19	6	12	4	9	2	5	0	4	2	3
South Asia	NA	NA	NA	NA	NA	NA	13	0	23	4	14	4	9	1	5	0	6	1	3
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	2	11	3	6	2	4	1	2	0	2	0	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	15	3	20	4	11	4	7	1	4	1	6	1	4
High-income countries	NA	NA	NA	NA	NA	NA	14	7	22	11	18	14	18	14	12	8	15	9	12
WORLD	NA	NA	NA	NA	NA	NA	15	3	20	4	12	4	9	3	7	3	6	1	4
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	21	4	18	2	11	2	7	2	3	1	60	10	70
Europe and Central Asia	NA	NA	NA	NA	NA	NA	13	1	21	1	8	1	3	1	1	0	46	3	49
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	2	0	5	1	3	1	3	1	2	1	15	5	20
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	1	2	0	1	0	1	0	0	0	6	2	7
South Asia	NA	NA	NA	NA	NA	NA	16	0	38	3	25	4	15	1	4	0	98	8	106
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	4	1	11	2	4	1	2	0	0	0	21	4	26
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	58	7	95	9	52	9	32	5	10	2	246	32	279
High-income countries	NA	NA	NA	NA	NA	NA	1	0	5	2	7	3	16	8	18	17	48	30	78
WORLD	NA	NA	NA	NA	NA	NA	59	7	101	10	59	12	47	13	29	19	294	62	356
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	510	96	341	39	143	34	64	16	15	4	1,073	188	1,261
Europe and Central Asia	NA	NA	NA	NA	NA	NA	301	14	414	19	115	9	29	7	2	1	861	49	911
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	51	7	97	21	38	17	25	12	9	6	220	64	284
Middle East and North Africa	NA	NA	NA	NA	NA	NA	26	19	32	7	18	4	11	2	2	0	90	33	123
South Asia	NA	NA	NA	NA	NA	NA	389	0	716	57	334	65	138	10	19	0	1,596	133	1,729
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	105	33	214	32	52	14	16	4	2	1	389	84	473
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1,382	170	1,815	175	700	144	283	51	50	11	4,229	551	4,780
High-income countries	NA	NA	NA	NA	NA	NA	32	11	100	31	94	44	134	81	76	66	437	233	670
WORLD	NA	NA	NA	NA	NA	NA	1,414	181	1,915	207	794	188	417	132	126	77	4,666	784	5,450
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	510	96	341	39	143	34	64	16	15	4	1,073	188	1,261
Europe and Central Asia	NA	NA	NA	NA	NA	NA	301	14	414	19	115	9	29	7	2	1	861	49	911
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	51	7	97	21	38	17	25	12	9	6	220	64	284
Middle East and North Africa	NA	NA	NA	NA	NA	NA	26	19	32	7	18	4	11	2	2	0	90	33	123
South Asia	NA	NA	NA	NA	NA	NA	389	0	716	57	334	65	138	10	19	0	1,596	133	1,729
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	105	33	214	32	52	14	16	4	2	1	389	84	473
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	1,382	170	1,815	175	700	144	283	51	50	11	4,229	551	4,780
High-income countries	NA	NA	NA	NA	NA	NA	32	11	100	31	94	44	134	81	76	66	437	233	670
WORLD	NA	NA	NA	NA	NA	NA	1,414	181	1,915	207	794	188	417	132	126	77	4,666	784	5,450

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.121

Risk factor: Smoking
Disease: Selected medical conditions

Region	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	21	6	12	2	6	2	4	1	2	0	6	2	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	42	7	48	8	29	6	16	4	5	1	28	5	17
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	11	3	19	7	11	6	8	4	4	2	9	4	6
Middle East and North Africa	NA	NA	NA	NA	NA	NA	20	13	19	5	11	3	7	2	4	0	10	3	6
South Asia	NA	NA	NA	NA	NA	NA	11	0	21	3	12	3	7	1	4	0	10	1	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	3	2	9	2	5	2	3	1	1	0	3	1	2
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	17	4	19	4	10	3	6	2	3	1	9	2	5
High-income countries	NA	NA	NA	NA	NA	NA	22	13	32	17	21	17	17	13	10	6	17	10	13
WORLD	NA	NA	NA	NA	NA	NA	17	4	20	5	12	5	9	4	6	4	10	4	7
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	21	6	12	2	6	2	4	1	2	0	7	2	4
Europe and Central Asia	NA	NA	NA	NA	NA	NA	42	7	48	8	29	6	16	4	5	1	31	5	19
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	11	3	19	7	11	6	8	4	4	2	9	4	7
Middle East and North Africa	NA	NA	NA	NA	NA	NA	20	13	19	5	11	3	7	2	4	0	10	3	6
South Asia	NA	NA	NA	NA	NA	NA	11	0	21	3	12	3	7	1	4	0	9	1	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	3	2	9	2	5	2	3	1	1	0	2	1	2
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	17	4	19	4	10	3	6	2	3	1	9	2	5
High-income countries	NA	NA	NA	NA	NA	NA	22	13	32	17	21	17	17	13	10	6	20	12	16
WORLD	NA	NA	NA	NA	NA	NA	17	4	21	5	12	5	9	4	6	3	10	3	6
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	3	1	2	0	1	0	1	0	1	0	1	0	1
Europe and Central Asia	NA	NA	NA	NA	NA	NA	12	1	12	1	7	1	5	1	2	0	7	1	4
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	3	1	6	2	4	2	3	1	2	1	3	1	2
Middle East and North Africa	NA	NA	NA	NA	NA	NA	3	1	4	1	4	1	3	1	2	0	2	1	1
South Asia	NA	NA	NA	NA	NA	NA	2	0	5	1	3	1	3	0	2	0	2	0	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	2	1	2	1	1	0	1	0	1	0	0
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	3	1	4	1	3	1	2	1	2	0	2	0	1
High-income countries	NA	NA	NA	NA	NA	NA	4	2	6	2	5	3	6	4	6	3	5	3	4
WORLD	NA	NA	NA	NA	NA	NA	3	1	4	1	3	1	3	1	3	1	2	1	2
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	8	2	10	2	6	2	4	1	1	0	29	8	37
Europe and Central Asia	NA	NA	NA	NA	NA	NA	7	1	14	1	8	2	4	1	1	0	34	5	39
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	2	0	8	2	5	3	4	2	2	1	20	9	29
Middle East and North Africa	NA	NA	NA	NA	NA	NA	1	1	4	1	2	1	2	0	0	0	10	3	13
South Asia	NA	NA	NA	NA	NA	NA	4	0	20	3	8	2	5	0	2	0	40	5	45
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	3	1	2	1	1	0	0	0	7	3	10
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	23	4	59	10	31	10	21	6	6	2	139	33	173
High-income countries	NA	NA	NA	NA	NA	NA	3	1	13	4	12	7	17	14	13	16	57	42	99
WORLD	NA	NA	NA	NA	NA	NA	26	5	71	15	42	17	38	20	19	18	196	76	272
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	198	60	192	37	77	33	34	13	6	2	507	146	653
Europe and Central Asia	NA	NA	NA	NA	NA	NA	169	14	261	30	111	25	39	15	2	1	583	86	668
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	46	9	143	46	63	42	35	22	9	7	296	125	421
Middle East and North Africa	NA	NA	NA	NA	NA	NA	31	19	67	19	33	11	17	5	2	0	151	54	205
South Asia	NA	NA	NA	NA	NA	NA	98	0	384	54	109	32	49	4	9	0	648	90	738
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	18	6	61	20	23	14	10	4	1	1	114	45	160
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	561	108	1,109	206	415	157	184	65	30	10	2,299	545	2,845
High-income countries	NA	NA	NA	NA	NA	NA	67	27	236	86	155	105	150	140	55	67	664	424	1,089
WORLD	NA	NA	NA	NA	NA	NA	628	135	1,345	292	571	261	334	205	85	76	2,963	970	3,933
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	198	60	192	37	77	33	34	13	6	2	507	146	653
Europe and Central Asia	NA	NA	NA	NA	NA	NA	169	14	261	30	111	25	39	15	2	1	583	86	668
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	46	9	143	46	63	42	35	22	9	7	296	125	421
Middle East and North Africa	NA	NA	NA	NA	NA	NA	31	19	67	19	33	11	17	5	2	0	151	54	205
South Asia	NA	NA	NA	NA	NA	NA	98	0	384	54	109	32	49	4	9	0	648	90	738
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	18	6	61	20	23	14	10	4	1	1	114	45	160
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	561	108	1,109	206	415	157	184	65	30	10	2,299	545	2,845
High-income countries	NA	NA	NA	NA	NA	NA	67	27	236	86	155	105	150	140	55	67	664	424	1,089
WORLD	NA	NA	NA	NA	NA	NA	628	135	1,345	292	571	261	334	205	85	76	2,963	970	3,933

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.122

Risk factor: Smoking
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	14	4	16	5	16	6	14	5	12	3	12	4	8
Europe and Central Asia	NA	NA	NA	NA	NA	NA	22	5	40	12	36	9	21	6	8	2	25	5	16
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	5	2	18	9	16	9	13	6	10	5	10	5	8
Middle East and North Africa	NA	NA	NA	NA	NA	NA	14	8	19	8	15	5	10	3	7	1	9	3	6
South Asia	NA	NA	NA	NA	NA	NA	7	0	25	6	22	5	13	1	8	0	11	2	6
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	6	2	7	2	5	1	4	1	2	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	9	2	21	6	20	6	14	4	10	2	11	3	7
High-income countries	NA	NA	NA	NA	NA	NA	13	7	31	18	32	20	26	18	17	11	23	14	19
WORLD	NA	NA	NA	NA	NA	NA	9	2	22	7	22	8	16	6	12	5	12	4	9
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	14	4	16	5	16	6	14	5	13	3	10	3	7
Europe and Central Asia	NA	NA	NA	NA	NA	NA	22	5	40	12	36	9	21	6	8	2	25	6	17
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	5	2	17	9	16	9	13	6	10	5	7	4	6
Middle East and North Africa	NA	NA	NA	NA	NA	NA	14	8	19	8	15	5	10	3	7	1	7	3	5
South Asia	NA	NA	NA	NA	NA	NA	7	0	25	6	22	5	13	1	8	0	8	1	5
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	6	2	7	2	5	1	4	1	1	0	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	9	2	21	6	20	6	14	4	10	2	8	2	5
High-income countries	NA	NA	NA	NA	NA	NA	13	7	31	18	32	20	27	18	17	11	23	15	20
WORLD	NA	NA	NA	NA	NA	NA	9	2	22	7	22	8	16	6	12	5	9	3	6
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	9	3	12	3	13	4	11	4	11	3	7	2	5
Europe and Central Asia	NA	NA	NA	NA	NA	NA	17	4	33	8	31	7	19	5	7	2	19	4	13
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	4	2	13	6	13	6	10	4	8	4	5	2	4
Middle East and North Africa	NA	NA	NA	NA	NA	NA	9	4	13	4	11	3	9	2	6	1	5	2	3
South Asia	NA	NA	NA	NA	NA	NA	5	0	19	4	18	4	12	1	7	0	6	1	4
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	1	0	5	2	6	2	5	1	4	1	1	0	1
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	6	1	16	4	16	4	12	3	9	2	6	1	4
High-income countries	NA	NA	NA	NA	NA	NA	8	6	23	12	24	13	21	13	14	8	16	9	13
WORLD	NA	NA	NA	NA	NA	NA	6	2	17	5	18	6	14	5	10	4	7	2	5
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	86	16	191	35	221	55	219	73	112	50	829	230	1,059
Europe and Central Asia	NA	NA	NA	NA	NA	NA	73	5	249	30	255	39	150	53	27	16	754	143	897
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	11	2	51	16	44	18	43	18	28	19	177	73	250
Middle East and North Africa	NA	NA	NA	NA	NA	NA	12	4	30	8	26	6	22	5	8	1	97	24	121
South Asia	NA	NA	NA	NA	NA	NA	51	0	282	47	243	49	148	14	45	0	768	110	879
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	9	3	41	11	28	9	20	5	7	2	105	30	135
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	241	31	844	146	817	175	601	169	226	89	2,730	610	3,340
High-income countries	NA	NA	NA	NA	NA	NA	24	7	162	50	221	81	309	166	213	230	929	533	1,462
WORLD	NA	NA	NA	NA	NA	NA	265	37	1,006	196	1,038	256	910	335	439	319	3,659	1,143	4,802
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2,041	403	3,573	689	2,975	825	1,950	745	560	256	11,099	2,919	14,018
Europe and Central Asia	NA	NA	NA	NA	NA	NA	1,711	122	4,725	598	3,467	581	1,367	546	124	77	11,394	1,925	13,319
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	265	51	955	327	600	268	381	183	130	90	2,331	918	3,249
Middle East and North Africa	NA	NA	NA	NA	NA	NA	282	107	563	155	346	86	193	54	38	5	1,421	408	1,829
South Asia	NA	NA	NA	NA	NA	NA	1,211	0	5,243	926	3,294	738	1,330	150	224	0	11,302	1,815	13,117
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	207	66	765	220	379	129	178	55	37	13	1,566	484	2,050
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	5,716	750	15,824	2,915	11,059	2,627	5,400	1,734	1,113	442	39,113	8,468	47,581
High-income countries	NA	NA	NA	NA	NA	NA	572	168	3,018	987	2,963	1,216	2,723	1,674	949	976	10,225	5,021	15,246
WORLD	NA	NA	NA	NA	NA	NA	6,289	919	18,842	3,902	14,023	3,843	8,123	3,407	2,062	1,418	49,338	13,489	62,827
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	NA	2,370	567	4,632	817	3,403	939	2,104	810	606	268	13,116	3,402	16,518
Europe and Central Asia	NA	NA	NA	NA	NA	NA	1,909	231	5,116	770	3,762	679	1,481	597	140	82	12,408	2,361	14,769
Latin America and the Caribbean	NA	NA	NA	NA	NA	NA	344	114	1,178	439	705	315	419	203	143	97	2,789	1,168	3,957
Middle East and North Africa	NA	NA	NA	NA	NA	NA	410	146	650	176	374	93	203	56	40	5	1,676	476	2,153
South Asia	NA	NA	NA	NA	NA	NA	1,443	0	5,727	1,099	3,591	797	1,400	158	237	0	12,397	2,055	14,452
Sub-Saharan Africa	NA	NA	NA	NA	NA	NA	219	69	813	236	404	136	185	57	39	14	1,659	512	2,171
Low- and middle-income countries	NA	NA	NA	NA	NA	NA	6,695	1,128	18,117	3,538	12,238	2,960	5,791	1,882	1,204	466	44,046	9,973	54,019
High-income countries	NA	NA	NA	NA	NA	NA	837	487	3,920	1,580	3,463	1,539	3,043	1,915	1,047	1,070	12,309	6,590	18,900
WORLD	NA	NA	NA	NA	NA	NA	7,532	1,615	22,037	5,118	15,701	4,499	8,834	3,796	2,251	1,536	56,355	16,564	72,919

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.123

Risk factor: Non-use and use of ineffective methods of contraception
 Disease: Abortion

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	84	NA	87	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	84
Europe and Central Asia	NA	NA	NA	NA	NA	86	NA	86	NA	NA	NA	NA	NA	NA	NA	NA	NA	85	85
Latin America and the Caribbean	NA	NA	NA	NA	NA	85	NA	88	NA	NA	NA	NA	NA	NA	NA	NA	NA	86	86
Middle East and North Africa	NA	NA	NA	NA	NA	89	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	89	89
South Asia	NA	NA	NA	NA	NA	92	NA	94	NA	NA	NA	NA	NA	NA	NA	NA	NA	93	93
Sub-Saharan Africa	NA	NA	NA	NA	NA	88	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	88
Low- and middle-income countries	NA	NA	NA	NA	NA	89	NA	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	90
High-income countries	NA	NA	NA	NA	NA	71	NA	74	NA	NA	NA	NA	NA	NA	NA	NA	NA	71	71
WORLD	NA	NA	NA	NA	NA	89	NA	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	90
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	84	NA	87	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	84
Europe and Central Asia	NA	NA	NA	NA	NA	86	NA	86	NA	NA	NA	NA	NA	NA	NA	NA	NA	85	85
Latin America and the Caribbean	NA	NA	NA	NA	NA	85	NA	88	NA	NA	NA	NA	NA	NA	NA	NA	NA	86	86
Middle East and North Africa	NA	NA	NA	NA	NA	89	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	89	89
South Asia	NA	NA	NA	NA	NA	92	NA	94	NA	NA	NA	NA	NA	NA	NA	NA	NA	93	93
Sub-Saharan Africa	NA	NA	NA	NA	NA	88	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	88
Low- and middle-income countries	NA	NA	NA	NA	NA	89	NA	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	90
High-income countries	NA	NA	NA	NA	NA	71	NA	74	NA	NA	NA	NA	NA	NA	NA	NA	NA	71	71
WORLD	NA	NA	NA	NA	NA	89	NA	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	90	90
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	84	NA	87	NA	NA	NA	NA	NA	NA	NA	NA	NA	82	82
Europe and Central Asia	NA	NA	NA	NA	NA	86	NA	86	NA	NA	NA	NA	NA	NA	NA	NA	NA	82	82
Latin America and the Caribbean	NA	NA	NA	NA	NA	85	NA	88	NA	NA	NA	NA	NA	NA	NA	NA	NA	83	83
Middle East and North Africa	NA	NA	NA	NA	NA	89	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	84
South Asia	NA	NA	NA	NA	NA	92	NA	94	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	88
Sub-Saharan Africa	NA	NA	NA	NA	NA	88	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	84
Low- and middle-income countries	NA	NA	NA	NA	NA	89	NA	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	86	86
High-income countries	NA	NA	NA	NA	NA	71	NA	74	NA	NA	NA	NA	NA	NA	NA	NA	NA	71	71
WORLD	NA	NA	NA	NA	NA	89	NA	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	86	86
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	2	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	4
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	1	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2
Middle East and North Africa	NA	NA	NA	NA	NA	1	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
South Asia	NA	NA	NA	NA	NA	15	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	26
Sub-Saharan Africa	NA	NA	NA	NA	NA	19	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	25	25
Low- and middle-income countries	NA	NA	NA	NA	NA	39	NA	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	59	59
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	39	NA	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	59	59
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	61	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	111	111
Europe and Central Asia	NA	NA	NA	NA	NA	3	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	6
Latin America and the Caribbean	NA	NA	NA	NA	NA	38	NA	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	55	55
Middle East and North Africa	NA	NA	NA	NA	NA	21	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	35
South Asia	NA	NA	NA	NA	NA	424	NA	276	NA	NA	NA	NA	NA	NA	NA	NA	NA	701	701
Sub-Saharan Africa	NA	NA	NA	NA	NA	532	NA	148	NA	NA	NA	NA	NA	NA	NA	NA	NA	680	680
Low- and middle-income countries	NA	NA	NA	NA	NA	1,080	NA	508	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,588	1,588
High-income countries	NA	NA	NA	NA	NA	1	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2
WORLD	NA	NA	NA	NA	NA	1,080	NA	509	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,590	1,590
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	104	NA	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	156	156
Europe and Central Asia	NA	NA	NA	NA	NA	10	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14
Latin America and the Caribbean	NA	NA	NA	NA	NA	77	NA	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	97	97
Middle East and North Africa	NA	NA	NA	NA	NA	108	NA	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	127	127
South Asia	NA	NA	NA	NA	NA	984	NA	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,294	1,294
Sub-Saharan Africa	NA	NA	NA	NA	NA	1,127	NA	184	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,311	1,311
Low- and middle-income countries	NA	NA	NA	NA	NA	2,410	NA	589	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,000	3,000
High-income countries	NA	NA	NA	NA	NA	2	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
WORLD	NA	NA	NA	NA	NA	2,412	NA	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,002	3,002

Source: Authors' calculations.

Note: NA = not applicable.

Table 4A.124

Risk factor: Non-use and use of ineffective methods of contraception
Disease: Maternal causes other than abortion

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	4	NA	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	19
Europe and Central Asia	NA	NA	NA	NA	NA	7	NA	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	19
Latin America and the Caribbean	NA	NA	NA	NA	NA	20	NA	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	34
Middle East and North Africa	NA	NA	NA	NA	NA	8	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	24
South Asia	NA	NA	NA	NA	NA	8	NA	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	34
Sub-Saharan Africa	NA	NA	NA	NA	NA	4	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14
Low- and middle-income countries	NA	NA	NA	NA	NA	6	NA	43	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23
High-income countries	NA	NA	NA	NA	NA	3	NA	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	6
WORLD	NA	NA	NA	NA	NA	6	NA	43	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	4	NA	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18
Europe and Central Asia	NA	NA	NA	NA	NA	7	NA	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	19
Latin America and the Caribbean	NA	NA	NA	NA	NA	20	NA	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	33
Middle East and North Africa	NA	NA	NA	NA	NA	8	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	24	24
South Asia	NA	NA	NA	NA	NA	8	NA	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	33
Sub-Saharan Africa	NA	NA	NA	NA	NA	4	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	14
Low- and middle-income countries	NA	NA	NA	NA	NA	6	NA	43	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23
High-income countries	NA	NA	NA	NA	NA	3	NA	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	6
WORLD	NA	NA	NA	NA	NA	6	NA	43	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	4	NA	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12
Europe and Central Asia	NA	NA	NA	NA	NA	7	NA	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	17	17
Latin America and the Caribbean	NA	NA	NA	NA	NA	20	NA	51	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	30
Middle East and North Africa	NA	NA	NA	NA	NA	8	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	20
South Asia	NA	NA	NA	NA	NA	8	NA	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	27	27
Sub-Saharan Africa	NA	NA	NA	NA	NA	4	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12
Low- and middle-income countries	NA	NA	NA	NA	NA	7	NA	43	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	19
High-income countries	NA	NA	NA	NA	NA	3	NA	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5
WORLD	NA	NA	NA	NA	NA	7	NA	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	19	19
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	1	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	6
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	1	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5
Middle East and North Africa	NA	NA	NA	NA	NA	0	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
South Asia	NA	NA	NA	NA	NA	6	NA	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	59	59
Sub-Saharan Africa	NA	NA	NA	NA	NA	4	NA	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	29	29
Low- and middle-income countries	NA	NA	NA	NA	NA	13	NA	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	103	103
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	13	NA	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	103	103
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	15	NA	136	NA	NA	NA	NA	NA	NA	NA	NA	NA	150	150
Europe and Central Asia	NA	NA	NA	NA	NA	3	NA	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	12
Latin America and the Caribbean	NA	NA	NA	NA	NA	39	NA	83	NA	NA	NA	NA	NA	NA	NA	NA	NA	122	122
Middle East and North Africa	NA	NA	NA	NA	NA	13	NA	71	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	84
South Asia	NA	NA	NA	NA	NA	179	NA	1,320	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,499	1,499
Sub-Saharan Africa	NA	NA	NA	NA	NA	116	NA	633	NA	NA	NA	NA	NA	NA	NA	NA	NA	749	749
Low- and middle-income countries	NA	NA	NA	NA	NA	365	NA	2,251	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,616	2,616
High-income countries	NA	NA	NA	NA	NA	0	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	2
WORLD	NA	NA	NA	NA	NA	365	NA	2,252	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,617	2,617
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	89	NA	317	NA	NA	NA	NA	NA	NA	NA	NA	NA	405	405
Europe and Central Asia	NA	NA	NA	NA	NA	24	NA	54	NA	NA	NA	NA	NA	NA	NA	NA	NA	78	78
Latin America and the Caribbean	NA	NA	NA	NA	NA	160	NA	205	NA	NA	NA	NA	NA	NA	NA	NA	NA	365	365
Middle East and North Africa	NA	NA	NA	NA	NA	54	NA	169	NA	NA	NA	NA	NA	NA	NA	NA	NA	223	223
South Asia	NA	NA	NA	NA	NA	431	NA	1,886	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,318	2,318
Sub-Saharan Africa	NA	NA	NA	NA	NA	196	NA	826	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,021	1,021
Low- and middle-income countries	NA	NA	NA	NA	NA	954	NA	3,457	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,411	4,411
High-income countries	NA	NA	NA	NA	NA	7	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	21	21
WORLD	NA	NA	NA	NA	NA	961	NA	3,471	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,432	4,432

Source: Authors' calculations.
Note: NA = not applicable.

Table 4A.125

Risk factor: Non-use and use of ineffective methods of contraception
Disease: All causes

	0–4 years		5–14 years		15–29 years		30–44 years		45–59 years		60–69 years		70–79 years		80+ years		Total		
Region	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	All
PAF of Mortality (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	1	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	4	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Middle East and North Africa	NA	NA	NA	NA	NA	3	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0
South Asia	NA	NA	NA	NA	NA	4	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	3	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	3	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	3	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0
PAF of YLL (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	1	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	4	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0
Middle East and North Africa	NA	NA	NA	NA	NA	3	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0
South Asia	NA	NA	NA	NA	NA	4	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	3	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	3	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	3	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0
PAF of DALYs (%)																			
East Asia and Pacific	NA	NA	NA	NA	NA	1	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Europe and Central Asia	NA	NA	NA	NA	NA	1	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
Latin America and the Caribbean	NA	NA	NA	NA	NA	3	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0
Middle East and North Africa	NA	NA	NA	NA	NA	3	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
South Asia	NA	NA	NA	NA	NA	5	NA	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	1
Sub-Saharan Africa	NA	NA	NA	NA	NA	4	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
Low- and middle-income countries	NA	NA	NA	NA	NA	3	NA	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	3	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	0
Attributable Mortality (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	3	NA	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	10
Europe and Central Asia	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	1
Latin America and the Caribbean	NA	NA	NA	NA	NA	3	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	7
Middle East and North Africa	NA	NA	NA	NA	NA	1	NA	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	5
South Asia	NA	NA	NA	NA	NA	22	NA	63	NA	NA	NA	NA	NA	NA	NA	NA	NA	85	85
Sub-Saharan Africa	NA	NA	NA	NA	NA	23	NA	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	54	54
Low- and middle-income countries	NA	NA	NA	NA	NA	52	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	162	162
High-income countries	NA	NA	NA	NA	NA	0	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	0
WORLD	NA	NA	NA	NA	NA	52	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	162	162
Attributable YLL (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	76	NA	186	NA	NA	NA	NA	NA	NA	NA	NA	NA	262	262
Europe and Central Asia	NA	NA	NA	NA	NA	6	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	18	18
Latin America and the Caribbean	NA	NA	NA	NA	NA	77	NA	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	177	177
Middle East and North Africa	NA	NA	NA	NA	NA	34	NA	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	118	118
South Asia	NA	NA	NA	NA	NA	604	NA	1,596	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,200	2,200
Sub-Saharan Africa	NA	NA	NA	NA	NA	648	NA	781	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,429	1,429
Low- and middle-income countries	NA	NA	NA	NA	NA	1,445	NA	2,759	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,203	4,203
High-income countries	NA	NA	NA	NA	NA	1	NA	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	3
WORLD	NA	NA	NA	NA	NA	1,446	NA	2,761	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,207	4,207
Attributable DALYs (thousands)																			
East Asia and Pacific	NA	NA	NA	NA	NA	192	NA	370	NA	NA	NA	NA	NA	NA	NA	NA	NA	562	562
Europe and Central Asia	NA	NA	NA	NA	NA	35	NA	58	NA	NA	NA	NA	NA	NA	NA	NA	NA	92	92
Latin America and the Caribbean	NA	NA	NA	NA	NA	237	NA	226	NA	NA	NA	NA	NA	NA	NA	NA	NA	462	462
Middle East and North Africa	NA	NA	NA	NA	NA	163	NA	188	NA	NA	NA	NA	NA	NA	NA	NA	NA	350	350
South Asia	NA	NA	NA	NA	NA	1,415	NA	2,196	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,612	3,612
Sub-Saharan Africa	NA	NA	NA	NA	NA	1,323	NA	1,010	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,332	2,332
Low- and middle-income countries	NA	NA	NA	NA	NA	3,364	NA	4,046	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,411	7,411
High-income countries	NA	NA	NA	NA	NA	9	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23
WORLD	NA	NA	NA	NA	NA	3,373	NA	4,061	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,434	7,434

Source: Authors' calculations.

Note: NA = not applicable.

NOTES

1. Some special cases of effect modification can be identified through the terminology of “sufficient” and “component” causes (Rothman 1976; Rothman and Greenland 1998) with implications for the assessment of joint interventions as follows:

- If two risk factors are sufficient causes for a disease and a fraction of the population is affected by both sufficient causes, then the burden avoidable by reductions in both risk factors is larger than the sum of the burdens avoidable by reduction of each individual risk factor. This is because for those affected by the two risks, removal of both risks is needed to avoid disease (and hence the hazard as measured by the avoidable fraction of disease depends on the presence of the other risk). Consider, for example, the role of clean water and sanitary latrines as risk factors for diarrheal diseases. Improving water quality alone may not have much effect on the prevalence of disease without the introduction of sanitation or hygienic behavior, because fecal-oral transmission may take place through routes other than drinking water (Curtis, Cairncross, and Yonli 2000; Esrey 1996). However, the introduction of both clean water sources and sanitary latrines may reduce disease levels substantially. In the extreme, where every exposed person is affected by both sufficient causes, a change in exposure to a risk factor may result in no change in disease outcome under some circumstances. This phenomenon is known as saturation.
- If two risk factors are component causes of the same sufficient cause, then the burden avoidable by reductions in both risk factors is smaller than the sum of the burdens attributable to each individual risk factor. This is a case of synergy or positive interaction between risk factors, in which the existence of both risk factors has an effect larger than the sum of the effects from the existence of each (Rothman 1976). Synergistic interactions may be complete or partial depending on whether the risk factors are components of a single or multiple sufficient causes. Rothman (1976) uses the inheritance of the phenylketonuria gene and phenylalanine in the diet as an example of synergy.

2. Submultiplicative effect modification could result in a slightly smaller PAF even with positive correlation for some RR values.

REFERENCES

- Arrow, K., B. Bolin, R. Costanza, P. Dasgupta, C. Folke, C. S. Holling, B.-O. Jansson, S. Levin, K.-G. Maler, C. Perrings, and D. Pimente. 1995. “Economic Growth, Carrying Capacity, and the Environment.” *Science* 168 (2): 520–21.
- Berlin, J. A., and G. A. Colditz. 1990. “A Meta-analysis of Physical Activity in the Prevention of Coronary Heart Disease.” *American Journal of Epidemiology* 132 (4): 612–28.
- Black, R. E. 1991. “Would Control of Childhood Infectious Diseases Reduce Malnutrition?” *Acta Paediatrica Scandinavica Supplement* 374: 133–40.
- Blair, S. N., Y. Cheng, and J. S. Holder. 2001. “Is Physical Activity or Physical Fitness More Important in Defining Health Benefits?” *Medicine and Science in Sports and Exercise* 33 (6 Suppl): S379–S399.
- Briend, A. 1990. “Is Diarrhoea a Major Cause of Malnutrition among the Under-Fives in Developing Countries? A Review of Available Evidence.” *European Journal of Clinical Nutrition* 44 (9): 611–28.
- Brown, K. H., J. M. Pearson, J. Rivera, and L. H. Allen. 2002. “Effect of Supplemental Zinc on the Growth and Serum Zinc Concentrations of Prepubertal Children: A Meta-analysis of Randomized Controlled Trials.” *American Journal of Clinical Nutrition* 75 (6): 1062–71.
- Chen, Z., R. Peto, R. Collins, S. MacMahon, J. Lu, and W. Li. 1991. “Serum Cholesterol Concentration and Coronary Heart Disease in Population with Low Cholesterol Concentrations.” *British Medical Journal* 303 (6797): 276–82.
- Christian, P., and K. P. West, Jr. 1998. “Interactions between Zinc and Vitamin A: An Update.” *American Journal of Clinical Nutrition* 68 (2 Suppl): 435S–441S.
- Corrao, G., L. Rubbiati, V. Bagnardi, A. Zambon, and K. Poikolainen. 2000. “Alcohol and Coronary Heart Disease: A Meta-analysis.” *Addiction* 95 (10): 1505–23.
- Curtis, V., S. Cairncross, and R. Yonli. 2000. “Domestic Hygiene and Diarrhoea: Pinpointing the Problem.” *Tropical Medicine and International Health* 5 (1): 22–32.
- de Onis, M., M. Blossner, E. Borghi, E. A. Frongillo, and R. Morris. 2004. “Estimates of Global Prevalence of Childhood Underweight in 1990 and 2015.” *Journal of the American Medical Association* 291 (21): 2600–6.
- de Onis, M., E. Frongillo, and M. Blossner. 2000. “Is Malnutrition Declining? An Analysis of Changes in Levels of Child Malnutrition since 1980.” *Bulletin of the World Health Organization* 78 (10): 1222–33.
- Eastern Stroke and Coronary Heart Disease Collaborative Research Group. 1998. “Blood Pressure, Cholesterol, and Stroke in Eastern Asia.” *Lancet* 352 (9143): 1801–7.
- Eaton, C.B. 1992. “Relation of Physical Activity and Cardiovascular Fitness to Coronary Heart Disease, Part I: A Meta-analysis of the Independent Relation of Physical Activity and Coronary Heart Disease.” *Journal of the American Board of Family Practice* 5 (1): 31–42.
- Editorial. 2001. “The Human Genome, in Proportion.” *Lancet* 357 (9255): 489.
- Eide, G. E., and I. Heuch. 2001. “Attributable Fractions: Fundamental Concepts and Their Visualization.” *Statistical Methods in Medical Research* 10 (3): 159–93.
- Esrey, S. A. 1996. “Water, Waste, and Well-Being: A Multicountry Study.” *American Journal of Epidemiology* 143 (6): 608–23.
- Evans, A. S. 1976. “Causation and Disease: The Henle-Koch Postulates Revisited.” *Yale Journal of Biology and Medicine* 49 (2): 175–95.
- . 1978. “Causation and Disease: A Chronological Journey.” *American Journal of Epidemiology* 108 (4): 249–58.
- Ezzati, M., and D. M. Kammen. 2002. “The Health Impacts of Exposure to Indoor Air Pollution from Solid Fuels in Developing Countries: Knowledge, Gaps, and Data Needs.” *Environmental Health Perspectives* 110 (11): 1057–68.
- Ezzati, M., and A. D. Lopez. 2003. “Estimates of Global Mortality Attributable to Smoking in 2000.” *Lancet* 362 (9387): 847–52.
- . 2004. “Smoking and Oral Tobacco Use.” In *Comparative Quantification of Health Risks: Global and Regional Burden of Disease Attributable to Selected Major Risk Factors*, ed. M. Ezzati, A. D. Lopez, A. Rodgers, and C. J. L. Murray, 883–956. Geneva: World Health Organization.
- Ezzati, M., S. J. Henley, A. D. Lopez, and M. J. Thun. 2005. “The Role of Smoking in Global and Regional Cancer Epidemiology: Current Patterns and Research Needs.” *International Journal of Cancer* 116 (6): 963–71.
- Ezzati, M., S. J. Henley, M. J. Thun, and A. D. Lopez. 2005. “The Role of Smoking in Global and Regional Cardiovascular Mortality.” *Circulation* 112 (4): 489–97.
- Ezzati, M., A. D. Lopez, A. Rodgers, and C. J. L. Murray. 2004. *Comparative Quantification of Health Risks: Global and Regional Burden of Disease Attributable to Selected Major Risk Factors*. Geneva: World Health Organization.
- Ezzati, M., A. D. Lopez, A. Rodgers, S. Vander Hoorn, C. J. L. Murray, and the Comparative Risk Assessment Collaborative Group. 2002.

- "Selected Major Risk Factors and Global and Regional Burden of Disease." *Lancet* 360 (9343): 1347–60.
- Ezzati, M., S. Vander Hoorn, A. Rodgers, A. D. Lopez, C. D. Mathers, and C. J. L. Murray. 2004. "Potential Health Gains from Reducing Multiple Risk Factors." In *Comparative Quantification of Health Risks: Global and Regional Burden of Disease Attributable to Selected Major Risk Factors*, ed. M. Ezzati, A. D. Lopez, A. Rodgers, and C. J. L. Murray, 2167–90. Geneva: World Health Organization.
- Ezzati, M., S. Vander Hoorn, A. Rodgers, A. D. Lopez, C. D. Mathers, C. J. L. Murray, and the Comparative Risk Assessment Collaborative Group. 2003. "Estimates of Global and Regional Potential Health Gains from Reducing Multiple Major Risk Factors." *Lancet* 362 (9380): 271–80.
- Ezzati, M., S. Vander Hoorn, C. M. M. Lawes, R. Leach, W. P. T. James, A. D. Lopez, A. Rodgers, and C. J. L. Murray. 2005. "Rethinking the 'Diseases of Affluence' Paradigm: Global Patterns of Nutritional Risks in Relation to Economic Development." *PLoS Medicine* 2 (5): e133.
- Gaziano, J. M., J. E. Manson, L. G. Branch, G. A. Colditz, W. C. Willett, and J. E. Buring. 1995. "A Prospective Study of Consumption of Carotenoids in Fruits and Vegetables and Decreased Cardiovascular Mortality in the Elderly." *Annals of Epidemiology* 5 (4): 255–60.
- Greenland, S. 1984. "Bias in Methods for Deriving Standardized Morbidity Ratio and Attributable Fraction Estimates." *Statistics in Medicine* 3: 131–41.
- . 1987. "Quantitative Methods in the Review of Epidemiologic Literature." *Epidemiologic Reviews* 9: 1–30.
- Gross, C. P., G. F. Anderson, and N. R. Powe. 1999. "The Relation between Funding by the National Institutes of Health and the Burden of Disease." *New England Journal of Medicine* 340 (24): 1881–7.
- Guerrant, R. L., J. B. Schorling, J. F. McAuliffe, and M. A. de Souza. 1992. "Diarrhea as a Cause and an Effect of Malnutrition: Diarrhea Prevents Catch-Up Growth and Malnutrition Increases Diarrhea Frequency and Duration." *American Journal of Tropical Medicine and Hygiene* 47 (1 pt 2): 28–35.
- Horton, R. 2003. "Medical Journals: Evidence of Bias against the Diseases of Poverty." *Lancet* 361 (9359): 712–3.
- Jarrett, R. J., M. J. Shipley, and G. Rose. 1982. "Weight and Mortality in the Whitehall Study." *British Medical Journal* 285 (6341): 535–7.
- Jee, S. H., I. Suh, I. S. Kim, and L. J. Appel. 1999. "Smoking and Atherosclerotic Cardiovascular Disease in Men with Low Levels of Serum Cholesterol: The Korea Medical Insurance Corporation Study." *Journal of the American Medical Association* 282 (22): 2149–55.
- Jousilahti, P., E. Vartiainen, J. Tuomilehto, and P. Puska. 1999. "Sex, Age, Cardiovascular Risk Factors, and Coronary Heart Disease: A Prospective Follow-Up Study of 14,786 Middle-Aged Men and Women in Finland." *Circulation* 99 (9): 1165–72.
- Kaufman, J., and J. Jing. 2002. "China and AIDS: The Time to Act Is Now." *Science* 296 (5577): 2339–40.
- Khaw, K. T., and E. Barrett-Connor. 1987. "Dietary Fiber and Reduced Ischemic Heart Disease Mortality Rates in Men and Women: A 12-Year Prospective Study." *American Journal of Epidemiology* 126 (6): 1093–102.
- Koopman, J. S. 1981. "Interaction between Discrete Causes." *American Journal of Epidemiology* 113 (6): 716–24.
- Kunzli, N., R. Kaiser, S. Medina, M. Studnicka, O. Chanel, P. Filliger, M. Herry, F. Horak, V. Puybonnieux-Texier, P. Quenel, J. Schneider, R. Seethaler, J. C. Vergnaud, and H. Sommer. 2000. "Public-Health Impact of Outdoor and Traffic-Related Air Pollution: A European Assessment." *Lancet* 356 (9232): 795–801.
- Law, M. R., N. J. Wald, and S. G. Thompson. 1994. "By How Much and How Quickly Does Reduction in Serum Cholesterol Concentration Lower Risk of Ischaemic Heart Disease?" *British Medical Journal* 308 (6925): 367–73.
- Lee, M.-J., B. M. Popkin, and S. Kim. 2000. "The Unique Aspects of the Nutrition Transition in South Korea: The Retention of Healthful Elements in Their Traditional Diet." *Public Health Nutrition* 5 (14): 197–203.
- Leigh, J., P. Macaskill, E. Kuosma, and J. Mandryk. 1999. "Global Burden of Disease and Injury Due to Occupational Factors." *Epidemiology* 10 (5): 626–31.
- Liu, B. Q., R. Peto, Z. M. Chen, J. Boreham, Y. P. Wu, J. Y. Li, T. C. Campbell, and J. S. Chen. 1998. "Emerging Tobacco Hazards in China: 1. Retrospective Proportional Mortality Study of One Million Deaths." *British Medical Journal* 317 (7170): 1411–22.
- Liu, S., I. M. Lee, U. Ajani, S. R. Cole, J. E. Buring, and J. E. Manson. 2001. "Intake of Vegetables Rich in Carotenoids and Risk of Coronary Heart Disease in Men: The Physicians' Health Study." *International Journal of Epidemiology* 30 (1): 130–5.
- Liu, S., J. E. Manson, I. M. Lee, S. R. Cole, C. H. Hennekens, W. C. Willett, and J. E. Buring. 2000. "Fruit and Vegetable Intake and Risk of Cardiovascular Disease: The Women's Health Study." *American Journal of Clinical Nutrition* 72 (4): 922–8.
- Lutter, C. K., J. P. Habicht, J. A. Rivera, R. Martorell. 1992. "The Relationship between Energy Intake and Diarrheal Disease in Their Effects on Child Growth: Biological Model, Evidence, and Implications for Public Health Policy." *Food and Nutrition Bulletin* 14: 36–42.
- Lutter, C. K., J. O. Mora, J. P. Habicht, K. M. Rasmussen, D. S. Robson, S. G. Sellers, M. G. Perri, D. S. Sheps, M. B. Pettinger, D. S. Siscovick. 1989. "Nutritional Supplementation: Effects on Child Stunting because of Diarrhea." *American Journal of Clinical Nutrition* 50 (1): 1–8.
- MacLehose, L., M. McKee, and J. Weinberg. 2002. "Responding to the Challenge of Communicable Disease in Europe." *Science* 295 (5562): 2047–50.
- Maldonado, G., and S. Greenland. 2002. "Estimating Causal Effects." *International Journal of Epidemiology* 31 (2): 422–9.
- Manson, J. E., G. A. Colditz, M. J. Stampfer, W. C. Willett, B. Rosner, R. R. Monson, F. E. Speizer, and C. H. Hennekens. 1990. "A Prospective Study of Obesity and Risk of Coronary Heart Disease in Women." *New England Journal of Medicine* 322 (13): 882–9.
- Manson, J. E., P. Greenland, A. Z. LaCroix, M. L. Stefanick, C. P. Mouton, A. Oberman, M. G. Perri, D. S. Sheps, M. B. Pettinger, D. S. Siscovick. 2002. "Walking Compared with Vigorous Exercise for the Prevention of Cardiovascular Events in Women." *New England Journal of Medicine* 347 (10): 755–56.
- Martorell, R., J. P. Habicht, C. Yarbrough, A. Lechtig, R. E. Klein, and K. A. Western. 1975. "Acute Morbidity and Physical Growth in Rural Guatemalan Children." *American Journal of Diseases of Children* 129 (11): 1296–301.
- Martorell, R., C. Yarbrough, A. Lechtig, J. P. Habicht, and R. E. Klein. 1975. "Diarrheal Diseases and Growth Retardation in Preschool Guatemalan Children." *American Journal of Physical Anthropology* 43 (3): 341–6.
- Mathers, C. D., M. Ezzati, A. D. Lopez, C. J. L. Murray, and A. Rodgers. 2002. "Causal Decomposition of Summary Measures of Population Health." In *Summary Measures of Population Health: Concepts, Ethics, Measurement, and Applications*, ed. C. J. L. Murray, J. Salomon, C. D. Mathers, and A. D. Lopez. 273–290. Geneva: World Health Organization.
- McGinnis, J. M., and W. H. Foege. 1993. "Actual Causes of Death in the United States." *Journal of American Medical Association* 270 (18): 2207–12.
- Miettinen, O. S. 1974. "Proportion of Disease Caused or Prevented by a Given Exposure, Trait, or Intervention." *American Journal of Epidemiology* 99 (5): 325–32.
- Murray, C. J. L., M. Ezzati, A. D. Lopez, A. Rodgers, and S. Vander Hoorn. 2003. "Comparative Quantification of Health Risks: Conceptual Framework and Methodological Issues." *Population Health Metrics* 1 (1): 1.

- Murray, C. J. L., and A. D. Lopez. 1997. "Global Mortality, Disability, and the Contribution of Risk Factors: Global Burden of Disease Study." *Lancet* 349 (9063): 1436–42.
- . 1999. "On the Comparable Quantification of Health Risks: Lessons from the Global Burden of Disease." *Epidemiology* 10 (5): 594–605.
- Neaton, J. D., and D. Wentworth. 1992. "Serum Cholesterol, Blood Pressure, Cigarette Smoking, and Death from Coronary Heart Disease. Overall Findings and Differences by Age for 316,099 White Men. Multiple Risk Factor Intervention Trial Research Group." *Archives of Internal Medicine* 152 (1): 56–64.
- Pelletier, D. L., E. A. Frongillo, Jr., and J. P. Habicht. 1993. "Epidemiologic Evidence for a Potentiating Effect of Malnutrition on Child Mortality." *American Journal of Public Health* 83 (8): 1130–3.
- Peto, R., A. D. Lopez, J. Boreham, M. Thun, and C. Heath, Jr. 1992. "Mortality from Tobacco in Developed Countries." *Lancet* 339 (8804): 1268–78.
- Popkin, B. M. 2002a. "An Overview on the Nutrition Transition and Its Health Implications: The Bellagio Meeting." *Public Health Nutrition* 5 (1A): 93–103.
- . 2002b. "The Shift in Stages of the Nutrition Transition in the Developing World Differs from Past Experiences." *Public Health Nutrition* 5 (1A): 205–14.
- Popkin, B. M., S. Horton, S. Kim, A. Mahal, and J. Shuigao. 2001. "Trends in Diet, Nutritional Status and Diet-Related Noncommunicable Diseases in China and India: The Economic Costs of the Nutrition Transition." *Nutrition Reviews* 59 (12): 379–90.
- Preston, S. H. 1976. *Mortality Patterns in National Populations: With Special Reference to Recorded Causes of Death*. New York: Academic Press.
- Puddey, I. B., V. Rakic, S. B. Dimmitt, and L. J. Beilin. 1999. "Influence of Pattern of Drinking on Cardiovascular Disease and Cardiovascular Risk Factors: A Review." *Addiction* 94 (5): 649–63.
- Ramakrishnan, U., and R. Martorell. 1998. "The Role of Vitamin A in Reducing Child Mortality and Morbidity and Improving Growth." *Salud Publica de Mexico* 40 (2): 189–198.
- Ramakrishnan, U., M. C. Latham, and R. Abel. 1995. "Vitamin A Supplementation Does Not Improve Growth of Preschool Children: A Randomized, Double-Blind Field Trial in South India." *Journal of Nutrition* 125 (2): 202–11.
- Rehm, J., R. Room, M. Monteiro, G. Gmel, K. Graham, N. Rehn, C. T. Sempas, V. Frick, and D. Jerrigan. 2004. "Alcohol Use." In *Comparative Quantification of Health Risks: Global and Regional Burden of Disease Attributable to Selected Major Risk Factors*, ed. M. Ezzati, A. D. Lopez, C. J. Murray, and A. Rogers, 959–1108. Geneva: World Health Organization.
- Rosengren, A., H. Wedel, and L. Wilhelmsen. 1999. "Body Weight and Weight Gain during Adult Life in Men in Relation to Coronary Heart Disease and Mortality: A Prospective Population." *European Health Journal* 20 (4): 269–77.
- Rothman, K. J. 1976. "Causes." *American Journal of Epidemiology* 104 (6): 587–92.
- Rothman, K. J., and S. Greenland. 1998. *Modern Epidemiology*. Philadelphia: Lippincott-Raven.
- Rothman, K. J., and A. Keller. 1972. "The Effect of Joint Exposure to Alcohol and Tobacco on the Risk of Cancer of the Mouth and Pharynx." *Journal of Chronic Disease* 25 (12): 711–6.
- Rothman, K. J., S. Greenland, and A. M. Walker. 1980. "Concepts of Interaction." *American Journal of Epidemiology* 112 (4): 467–70.
- Scrimshaw, N. S., C. E. Taylor, and J. E. Gordon. 1968. *Interactions of Nutrition and Infection*. World Health Organization Monograph Series 57. Geneva: World Health Organization.
- Single, E., L. Robson, J. Rehm, and X. Xie. 1999. "Morbidity and Mortality Attributable to Alcohol, Tobacco, and Illicit Drug Use in Canada." *American Journal of Public Health* 89 (3): 385–90.
- Slaymaker, E., N. Walker, B. Zaba, and M. Collumbien. 2004. "Unsafe Sex." In *Comparative Quantification of Health Risks: Global and Regional Burden of Disease Attributable to Selected Major Risk Factors*, ed. M. Ezzati, A. D. Lopez, A. Rodgers, and C. J. L. Murray, 1177–254. Geneva: World Health Organization.
- Smith, K. R. 2000. "The National Burden of Disease from Indoor Air Pollution in India." *Proceedings of the National Academy of Sciences* 97 (24): 13286–93.
- Smith, K. R., C. F. Corvalan, and T. Kjellstrom. 1999. "How Much Global Ill Health Is Attributable to Environmental Factors." *Epidemiology* 10 (5): 573–84.
- Smith, K. R., S. Mehta, and M. Maeusezahl-Feuz. 2004. "Indoor Air Pollution from Household Use of Solid Fuels." In *Comparative Quantification of Health Risks: Global and Regional Burden of Disease Attributable to Selected Major Risk Factors*, ed. M. Ezzati, A. D. Lopez, C. J. Murray, and A. Rogers, 1435–94. Geneva: World Health Organization.
- Stephensen, C. B. 1999. "Burden of Infection on Growth Failure." *Journal of Nutrition* 129 (25 Suppl): 534S–538S.
- Tate, R. B., J. Manfreda, and T. E. Cuddy. 1998. "The Effect of Age on Risk Factors for Ischemic Heart Disease: The Manitoba Follow-up Study, 1948–1993." *Annals of Epidemiology* 8 (7): 415–21.
- Thun, M. J., L. F. Apicella, and S. J. Henley. 2000. "Smoking vs. Other Risk Factors as the Cause of Smoking-Attributable Mortality: Confounding in the Courtroom." *Journal of the American Medical Association* 284 (6): 706–12.
- UNAIDS (Joint United Nations Programme on HIV/AIDS). 2001. *Together We Can: Leadership in a World of AIDS*. Geneva: UNAIDS. http://www.unaids.org/UNGASS/leadership/English/leader_en.pdf.
- UNICEF (United Nations Children's Fund). 1990. *Strategy to Improve Nutrition of Children and Women in Developing Countries: A UNICEF Policy Review*. New York: UNICEF.
- Walter, S. D. 1976. "The Estimation and Interpretation of Attributable Risk in Health Research." *Biometrics* 32 (4): 829–49.
- . 1980. "Prevention of Multifactorial Disease." *American Journal of Epidemiology* 112 (3): 409–16.
- West, K. P., Jr, R. P. Pokhrel, J. Katz, S. C. LeClerq, S. K. Khatry, S. R. Shrestha, E. K. Pradhan, J. M. Tielsch, M. R. Pandey, and A. Sommer. 1991. "Efficacy of Vitamin A in Reducing Preschool Child Mortality in Nepal." *Lancet* 338 (8759): 67–71.
- WHO (World Health Organization). 1992. *International Statistical Classification of Disease and Related Health Problems*, 10th ed. Geneva: WHO.
- WHO (World Health Organization). 2002. *World Health Report 2002: Reducing Risks, Promoting Healthy Life*. Geneva: WHO.
- Willet, W. C. 2002. "Balancing Life-Style and Genomics Research for Disease Prevention." *Science* 296 (5568): 695–8.
- Yerushalmy, J., and C. E. Palmer. 1959. "On the Methodology of Investigations of Etiologic Factors in Chronic Diseases." *Journal of Chronic Disease* 108 (1): 27–40.
- Yusuf, S., S. Hawken, S. Ounpuu, T. Dans, A. Avezum, F. Lanas, M. McQueen, A. Budaj, P. Pais, J. Varigos, L. Lisheng, and the INTERHEART Study Investigators. 2004. "Effect of Potentially Modifiable Risk Factors Associated with Myocardial Infarction in 52 Countries (the INTERHEART Study): Case-Control Study." *Lancet* 364 (9438): 937–52.
- Zinc Investigators' Collaborative Group. 1999. "Prevention of Diarrhea and Pneumonia by Zinc Supplementation in Children in Developing Countries: Pooled Analysis of Randomized Controlled Trials." *Journal of Pediatrics* 135 (6): 689–97.