

The global burden of falls: global, regional and national estimates of morbidity and mortality from the Global Burden of Disease Study 2017

Spencer L James , ¹ Lydia R Lucchesi, ¹ Catherine Bisignano, ¹ Chris D Castle, ¹ Spencer L James , 'Lydia R Lucchesi, 'Catherine Bisignano, 'Chris D Castle, 'Zachary V Dingels, Jack T Fox, Erin B Hamilton, Nathaniel J Henry, Kris J Krohn, Jichen Liu, Darrah McCracken, Molly R Nixon, Nicholas L S Roberts, Dillon O Sylte, Jose C Adsuar, Amit Arora, Andrew M Briggs, Daniel Collado-Mateo, Seyed-Mohammad Fereshtehnejad, Andrew M Briggs, Gill, Gill,

► Additional material is published online only. To view please visit the journal online (http://dx.doi.org/10.1136/ injuryprev-2019-043286).

For numbered affiliations see end of article.

Correspondence to

Dr Spencer L James, Institute for Health Metrics and Evaluation, University of Washington, Seattle, WA 98121, USA; spencj@uw.edu

Received 23 April 2019 Revised 14 June 2019 Accepted 17 June 2019 Published Online First 15 January 2020

Background Falls can lead to severe health loss including death. Past research has shown that falls are an important cause of death and disability worldwide. The Global Burden of Disease Study 2017 (GBD 2017) provides a comprehensive assessment of morbidity and mortality from falls.

ABSTRACT

Methods Estimates for mortality, years of life lost (YLLs), incidence, prevalence, years lived with disability (YLDs) and disability-adjusted life years (DALYs) were produced for 195 countries and territories from 1990 to 2017 for all ages using the GBD 2017 framework. Distributions of the bodily injury (eg, hip fracture) were estimated using hospital records.

Results Globally, the age-standardised incidence of falls was 2238 (1990–2532) per 100 000 in 2017, representing a decline of 3.7% (7.4 to 0.3) from 1990 to 2017. Age-standardised prevalence was 5186 (4622-5849) per 100 000 in 2017, representing a decline of 6.5% (7.6 to 5.4) from 1990 to 2017. Age-standardised mortality rate was 9.2 (8.5-9.8) per 100 000 which equated to 695 771 (644 927-741 720) deaths in 2017. Globally, falls resulted in 16 688 088 (15 101 897–17 636 830) YLLs, 19 252 699 (13 725 429-26 140 433) YLDs and 35 940 787 (30 185 695-42 903 289) DALYs across all ages. The most common injury sustained by fall victims is fracture of patella, tibia or fibula, or ankle. Globally, age-specific YLD rates increased with age. **Conclusions** This study shows that the burden of falls is substantial. Investing in further research, fall prevention strategies and access to care is critical.

Check for updates

@ Author(s) (or their employer(s)) 2020. Re-use permitted under CC BY. Published by BMJ.

To cite: James SL. Lucchesi LR, Bisignano C, et al. Inj Prev 2020;26:i3-i11.

INTRODUCTION

Falls are one of the most common mechanisms of injury and endure as a persistent risk to morbidity and mortality across all ages. The risk of an injurious fall in a population as well as the resulting disability may be governed by a wide array of factors ranging from drug and alcohol intoxication in younger populations to frailty and comorbidities in older adult populations. Falls pose sufficient risk in modern high-resource healthcare settings to necessitate the use of safety devices such as bed alarms and traction socks in inpatient wards and dedicated physical and occupational therapy services. Falls in young, otherwise healthy populations can produce lifelong disability in the form of traumatic brain injuries or spinal cord injuries and can also cause severe injuries that necessitate advanced surgical care, such as intra-abdominal organ injury or complicated skeletal fractures. In older populations, the morbidity experienced by falls may be further modulated by comorbid conditions such as osteoporosis, osteopenia, or usage of anticoagulant or antiplatelet medications.^{2 3} Given that many fall incidents are preventable, occur in any population and can lead to substantial morbidity and mortality, it is surprising that falls do not draw more attention as an important global issue.

In the Global Burden of Diseases, Injuries and Risk Factors Study 2017 (GBD 2017), global estimates of the burden of falls show that falls were ranked as the 18th leading cause of agestandardised rates of disability-adjusted life years in 2017, outranking conditions such as chronic kidney disease, Alzheimer's disease and other dementias, and asthma.4 Additionally, falls were noted to be the second leading cause of death due to unintentional injuries in 2017, following road injuries and outranking causes such as interpersonal violence and drowning.⁵ Research outside of the GBD Study on the epidemiology of falls has largely focused on older populations as this is where the global burden of falls is thought to be most concentrated. The World Health Organization (WHO) reports that most deaths from falls happen in those aged 65 and



Original research

older. For those 70 years or older, falls are the leading category in injury-related deaths. With a burden highly concentrated in older adults, many recent studies have discussed the effects of population ageing, recognising the potential for far more incident cases and deaths from falls as people live longer. In addition, several studies have focused on younger populations as they are an important high-risk group to consider as well. An injury surveillance system pilot study conducted in 4 low/middle-income countries found that falls accounted for the largest percentage (56%) of recorded injuries among children. A study conducted in India similarly found that the most common type of home injury in children aged 0–14 was falling.

Given the known extent of this burden, it is important to measure and understand how the burden of falls is distributed in terms of morbidity and mortality, across all age groups and between both sexes, and in every geographical region of the world. In addition, since the disability that results from falls may vary by location, it is of interest to systematically measure how the distribution of injuries resulting from falls varies by region.

The GBD Study represents the efforts of a global research collaboration that produces comprehensive estimates of hundreds of diseases, injuries and risk factors in 195 countries and territories using data and methods that are updated on an annual basis, most recently in GBD 2017. The specific estimates produced by the GBD include annual estimates of all-cause mortality, causes of death, non-fatal health outcomes (ie, incidence, prevalence and years lived with disability (YLDs)) and risk factors. These measures are estimated for all countries and territories, age groups and sexes, across a range of years. The intent of providing this level of estimation detail is to allow focused and nuanced analyses of death and disability across demographics, locations and causes of injuries. Falls is a category of injury in the GBD cause hierarchy and was included in the GBD 2017 results, but to date there have been no known studies that examined the findings for this cause in detail. Additionally, the injuries resulting from falls have not previously been reported using GBD 2017 results.

In this study, we use the GBD 2017 framework to analyse the morbidity and mortality caused by falls as reported in GBD 2017 and explore the burden of injuries resulting from falls.

METHODS GBD Study 2017

Methods used in the GBD Study 2017 have been described in extensive detail elsewhere, including description of the analytical estimation framework used to measure mortality, incidence, prevalence, years of life lost (YLLs), years lived with disability (YLDs) and disability-adjusted life years (DALYs). ^{4 5 13-16} Online supplementary appendix 1 provides a methodological overview of different components used in the GBD Study design and analytical framework. The methodological components specific to the estimation of falls within the GBD framework are summarised below.

GBD injury classification

The GBD 2017 reported estimates in terms of *external cause* of injury (eg, falls) and measured disability based on *nature* of injury (eg, hip fracture). Causes of injury were defined in accordance with the International Classification of Diseases (ICD). For this study, falls were defined as ICD-9 codes E880–E886, E888 and ICD-10 codes W00–W19.9. In terms of the nature-of-injury codes, falls had 47 mutually exclusive and collectively exhaustive nature-of-injury categories which were specified with chapters S

and T in ICD-10 and codes 800–999 in ICD-9 to quantify the various disabling outcomes that can occur with a fall.

Mortality and YLLs due to falls

For deaths due to falls, we estimated both mortality and YLLs due to premature mortality. Our approach for estimating causes of death for every cause, including falls, is provided in the GBD 2017 cause of death literature.¹⁷

First, we identified and obtained all available cause-of-death data sources. These sources included complete vital registration systems shared by countries; verbal autopsy studies published in literature; and mortality surveillance, censuses, surveys, hospital records and mortuary data. The cause of death estimates from these sources were mapped to the GBD cause list such that the corresponding ICD codes listed above were mapped to our 'falls' cause, as were non-ICD-coded reporting systems where 'falls' were designated as a cause of death, for example, in verbal autopsy studies which are typically not ICD coded but include a textual cause list.

Second, we conducted estimation models using the GBD Cause of Death Ensemble model (CODEm) to estimate cause-specific mortality for falls by age, sex, country and year. CODEm is an ensemble modelling approach for producing a large variety of possible models to estimate trends in causes of death using an algorithm that selects a wide array of combinations of covariates and different modelling methods. ¹⁸

Third, we calculated YLLs by multiplying deaths by the residual life expectancy using the global maximum life expectancy at the age of death as derived from the GBD standard model life table. For example, if an individual dies at age 60 from a fall and their residual life expectancy is 20 years, then there were 20 YLLs due to that fall.

Injury incidence, prevalence and YLDs

The method for estimating non-fatal injury outcomes including falls in GBD 2017 is described in more detail in related publications. ¹⁹ A methodological summary is as follows.

First, we used DisMod-MR 2.1 to measure incidence of falls that lead to any form of medical care (inpatient or outpatient). DisMod-MR 2.1 is a meta-regression tool for epidemiological modelling built on a Bayesian compartmental model framework that solves differential equations that modulate the relationships between a susceptible population becoming injured (incidence) and then either recovering (remission) or dying (excess mortality). For incidence data, we used emergency department records, hospital records, survey data and literature studies to estimate fall incidence by location, year, age and sex, and used the coefficient from outpatient care to split subsequent estimation processes into inpatient and outpatient incidence estimates so that inpatient and outpatient-specific data could be used where possible to preserve differences in incidence and severity. Since survey items for falls can include non-injurious falls, we included an indicator variable for falls that resulted in injury. Since excess mortality is calculated based on locations where there are overlapping incidence and cause-specific mortality data, its computation also allows for estimation of incidence in locations with cause-specific mortality data but no incidence data, requiring an assumption that case fatality rates among falls are affected by income.

Second, we estimated the distribution of nature-of-injury categories among the incidence of all falls. To do this, we created a hierarchy of nature-of-injury categories. We assumed that the disability experienced by an individual who has an injurious fall

was determined by the most severe nature-of-injury sustained due to this fall. For example, a fall resulting in a spinal cord injury would determine disability due to the fall instead of a co-occurring wrist sprain. The nature-of-injury hierarchy represents a combination of the likelihood of long-term disability and the corresponding GBD disability weight. To estimate the hierarchy, we used data from pooled follow-up studies in which we translated each individual's health status measure at 1 year after injury into a disability weight. ^{20–26}

Third, we used a Dirichlet regression method to estimate the proportion of falls that result in each nature-of-injury category being the most severe injury for each fall, since Dirichlet methods enforce coefficient estimates for proportions that must sum to 1.²⁷ These matrices were derived from dual-coded hospital and emergency department data sets from multiple countries and data from the China injury surveillance system where both cause-of-injury and nature-of-injury diagnosis codes are present. The use of these data sources to inform this estimation process is described in more detail elsewhere. ¹²⁸ Separate cause-nature matrices were created for falls warranting hospital admission versus falls warranting other healthcare, high and low-income countries, male and female, and age category.

Fourth, we estimated short-term disability for falls by nature-of-injury category. For each nature-of-injury category and inpatient and outpatient injury, we used the Dutch Injury Surveillance System to derive average duration for treated cases, since for GBD 2017 this was the only available data source that could inform this parameter. These estimates were supplemented by expert-driven estimates of short-term duration for nature-of-injury categories that had insufficient numbers in the Dutch data set and for untreated injuries.

Fifth, we estimated the proportion of falls resulting in permanent disability for each nature-of-injury category by admission status and age. Disability due to falls was assumed to affect all injurious falls in the short term with a proportion having long-term (permanent) outcomes, defined as having persistent disability 1 year after the injury greater than the preinjury health status

Sixth, we applied the ordinary differential equation solver used as the computational engine in DisMod-MR 2.1 to estimate the long-term prevalence for each fall-related nature-of-injury from incidence and the long-term mortality risk in cases with long-term disability based on meta-analyses of studies providing standardised mortality ratios. For example, since individuals with severe traumatic brain injuries die at a higher rate than the underlying population, we integrated the corresponding standardised mortality ratios to account for decreasing prevalence due to higher mortality risk in this injured population.

Finally, we calculated YLDs as prevalence of each health state multiplied by a disability weight for each nature-of-injury and corrected for comorbidity with other non-fatal diseases using microsimulation methods employed in GBD 2017.

Socio-demographic index

Socio-demographic index (SDI) is a composite indicator of development that is calculated based on income per capita, average educational attainment over age 15 and total fertility rate under age 25. ¹⁵ The SDI has a scale that ranges from 0 representing the lowest income *per capita*, lowest educational attainment and highest fertility observed across all GBD locations from 1980 to 2017, to 1, representing the point at which the higher income per capita, higher educational attainment and lower fertility under age 25 are no longer associated with improved health.

We used SDI values for each country and territory to categorise our estimates in this study by SDI quintile to help illustrate how burden trends differ by development level.

GATHER compliance

This study complies with the Guidelines for Accurate and Transparent Health Estimates Reporting (GATHER) recommendations (online supplementary appendix 2). Analyses were completed using Python version 2.7, Stata version 13.1, or R version 3.3. Statistical code used for GBD estimation is publicly available online at healthdata.org.

RESULTS

Results tables are listed as web appendix tables. Results by age, sex, year, subnational location and nature of injury are also available online via the GBD Results Tool (http://ghdx.healthdata.org/gbd-results-tool) and GBD Compare (https://vizhub.healthdata.org/gbd-compare/).

Incidence

Figure 1 shows age-standardised incidence of falls by country and territory in 2017. This map illustrates the higher incidence rates in Eastern and Central European countries as well as Australia and New Zealand. Online supplementary appendix table 1 shows the all-ages incidence counts and the agestandardised incidence rates for 2017 as well as the percentage change in age-standardised rates from 1990 to 2017. Globally, the age-standardised incidence rate was 2238 (95% uncertainty interval 1990 to 2532) per 100 000 in 2017, representing a decline of 3.7% (7.4 to 0.3) from 1990 to 2017, and equating to 171 691 220 (152 472 652-194 061 874) new injuries from falls in 2017. The age-standardised incidence rate decreased in the high-middle and high SDI quintiles and increased in the middle, low-middle and low SDI quintiles. The largest decline was in the high SDI quintile, which decreased by 8.8% (-12.3 to -5.3). The geographic regions with the highest age-standardised incidence rates were Central Europe with 11 434 (10 103-12 996) cases per 100 000, Australasia with 8187 (6978–9553) cases per 100 000 and Eastern Europe with 8029 (7010-9233) cases per 100 000. Among the 21 GBD regions, 12 experienced significant increases in age-standardised incidence rates (Australasia, High-income Asia Pacific, Andean Latin America, Caribbean, Central Latin America, Tropical Latin America, South Asia, East Asia, Oceania, Southeast Asia, Central Sub-Saharan Africa, Southern Sub-Saharan Africa), 2 experienced significant decreases (Central Europe, High-income North America) and the remaining 7 regions experienced no significant change in age-standardised incidence rates (Central Asia, Eastern Europe, Southern Latin America, Western Europe, North Africa and Middle East, Western Sub-Saharan Africa).

Prevalence

Online supplementary appendix table 1 also shows the all-ages prevalence counts and the age-standardised prevalence rate for 2017 as well as the percentage change in age-standardised prevalence from 1990 to 2017. Globally, the age-standardised prevalence rate was 5186 (4622–5849) per 100 000 in 2017, representing a decline of 6.5% (7.6 to 5.4) from 1990 to 2017. There were 411 711 999 (366 390 987–465 354 952) prevalent cases in 2017. East Asia had the highest number of prevalent cases in 2017 with 62 282 056 (54 985 517–70 760 535) cases across all ages and both sexes. The age-standardised prevalence decreased in the high and high-middle SDI quintiles

Original research

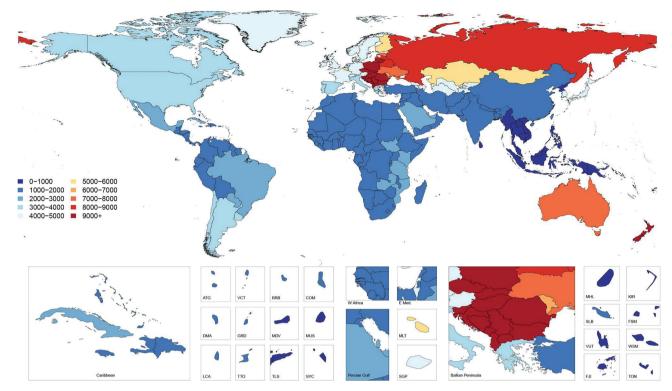


Figure 1 Age-standardised incidence rates per 100 000 of falls, 2017, both sexes.

and increased in the low, low-middle and middle SDI quintiles. The regions with the highest age-standardised prevalence were Central Europe with 23 428 (20 453–26 911) cases per 100 000, Eastern Europe with 17 429 (15 114-20 228) cases per 100 000 and Australasia with 16 175 (13 641-19 647) cases per 100 000. Among the 21 GBD regions, 14 experienced significant increases in age-standardised prevalence rates (East Asia, Oceania, Tropical Latin America, South Asia, Caribbean, Andean Latin America, Australasia, Southeast Asia, High-income Asia Pacific, Southern Sub-Saharan Africa, Central Latin America, Central Sub-Saharan Africa, Eastern Europe, Eastern Sub-Saharan Africa), 6 experienced significant decreases in age-standardised prevalence rates (High-income North America, Southern Latin America, Central Asia, Western Sub-Saharan Africa, Central Europe, Western Europe) and the remaining region experienced no significant change in age-standardised prevalence (North Africa and Middle East).

Cause-specific mortality

Figure 2 shows age-standardised cause-specific mortality rates for falls in 2017 by country. This map illustrates how the countries with the highest incidence do not necessarily have the highest cause-specific mortality, with countries such as India, Vietnam and Burkina Faso having markedly higher causespecific mortality than the areas of Eastern and Central Europe that had the highest incidence. These patterns are further revealed in figure 3, which shows country-specific ratios of agestandardised mortality rates to age-standardised incidence rates in 2017, approximating the risk of death given a fall. This figure shows how mortality-to-incidence ratios (MIR) vary across the world. The ratio is highest in countries in Southeast Asia such as Indonesia, Cambodia, Myanmar and Vietnam, which have MIRs exceeding 0.03, meaning on average more than three deaths occur per 100 falls. MIRs also appear high throughout much of sub-Saharan Africa, in Afghanistan and across India.

Online supplementary appendix table 2 shows the all-ages deaths and the age-standardised mortality rates for 2017 as well as the percentage change in age-standardised rates from 1990 to 2017. Globally, the age-standardised mortality rate was 9.2 (8.5-9.8) per 100 000 which equated to 695 771 (644 927-741 720) deaths in 2017 and represented a non-significant decrease of 5.9% (-13.7 to 3.5) in age-standardised mortality from 1990 to 2017. Across SDI quintiles, only the high SDI quintile experienced a significant decrease in age-standardised mortality rate with a decline of 16.6% (18.8 to 14.4) from 1990 to 2017. All other quintiles experienced a non-significant decline in age-standardised mortality rates. The regions with the highest age-standardised mortality rates were South Asia with 22.0 (20.0-25.0) deaths per 100 000, Eastern Sub-Saharan Africa with 12.2 (11.2-13.5) deaths per 100 000 and Southeast Asia with 10.5 (9.8-11.3) deaths per 100 000. South Asia had the highest number of deaths, with 239 791 (220 244-270 634) deaths estimated in 2017.

YLDs, YLLs and DALYs

Online supplementary appendix table 3 shows the counts, age-standardised rates and per cent change from 1990 to 2017 of YLDs, YLLs and DALYs. Globally, falls resulted in 16 688 088 (15 101 897–17 636 830) YLLs, 19 252 699 (13 725 429–26 140 433) YLDs and 35 940 787 (30 185 695–42 903 289) DALYs, reflecting age-standardised rates of 217 (196–229) per 100 000, 243 (173–330) per 100 000 and 459 (387–547) per 100 000, respectively. Age-standardised YLLs, YLDs and DALYs declined by 18.5% (31.7 to 6.2), 9.3% (10.7 to 7.9) and 13.9% (21.3 to 8.0), respectively, between 1990 and 2017. The percentage of age-standardised DALYs caused by YLDs varied by region, with a high of 89% in Australasia and a low of 16% in Southeast Asia. The region with the highest age-standardised DALY rate was Central Europe with 1174 (875–1559) DALYs per 100 000

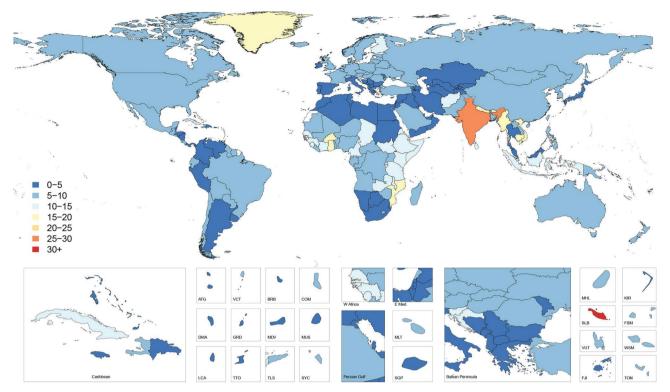


Figure 2 Age-standardised cause-specific mortality rate per 100 000 of falls, 2017, both sexes.

which represented 159 (153-165) YLLs per 100 000 and 1015 (713-1405) YLDs per 100 000.

Nature of injuries caused by falls

Globally, the average disability weight used in computing YLDs after comorbidity adjustment was 4%, meaning that the average

person suffering from a fall lost 4% of their full health status. Figure 4 shows the distribution of nature-of-injury codes among all falls for age-standardised YLDs by region. This figure shows that for all 21 of the GBD regions, the leading cause of disability among fall victims is fracture of patella, tibia or fibula, or ankle. Fracture of hip and moderate/severe traumatic brain injury are the

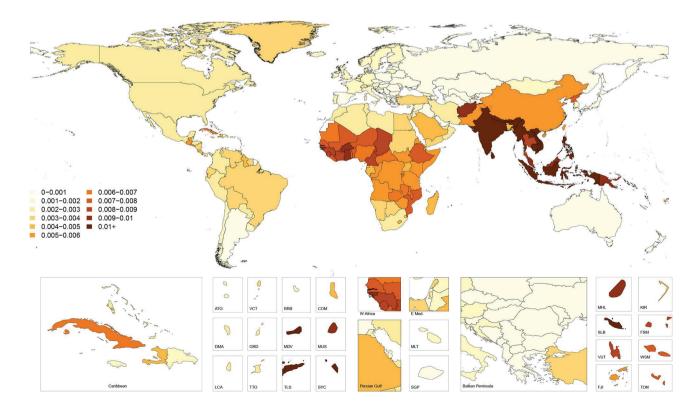


Figure 3 Ratio of age-standardised mortality to incidence rates, 2017, both sexes.

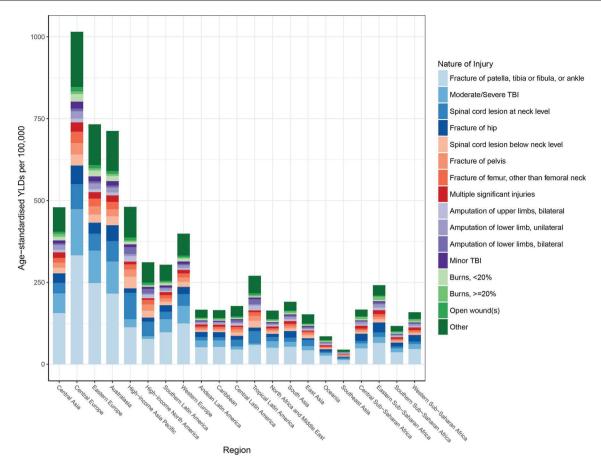


Figure 4 Age-standardised nature-of-injury composition of falls by region. TBI, traumatic brain injury; YLDs, years lived with disability.

next leading causes of disability among fall victims across regions. Global age-specific distributions of nature-of-injury codes are shown in figure 5. This figure shows that fractures of patella, tibia or fibula, or ankle are the most common causes of disability after an injurious fall in all age groups, though fracture of hip and femur fracture increasingly contribute to disability in older age groups.

DISCUSSION

This study represents the first time that GBD estimates for falls have been reported in this level of detail through recent years, and illustrates the substantial amount of mortality and health loss in every country, age group and sex. Globally, total deaths and DALYs due to falls have increased steadily since 1990, with death counts nearly doubling by 2017. Conversely, age-standardised mortality rates and DALY rates have slightly decreased over the same period. At the country level, age-standardised mortality due to falls was highest in the Solomon Islands, India and Vietnam. The patterns of MIRs described in the results of our study emphasise how mortality risk per fall varies substantially by country and reveal that certain areas of the world likely have inadequate capabilities of responding to injurious falls. Since mortality from falls is associated with age and since global populations are generally ageing, it is important for all countries to ensure that their older adult populations as well as their ageing populations have adequate access to caretaking and treatment resources now and in the future. 10 More focused research in the countries with the highest MIRs should investigate the specific causes of injury deaths from falls, the associated risk factors, and the circumstances and context of falls in order to target prevention efforts and appropriately allocate treatment resources. We

additionally describe how falls have improved in terms of incidence and cause-specific mortality in the highest SDI countries, but that these improvements have not necessarily been experienced in lower SDI countries. This pattern emphasises how it is critical for lower SDI countries to more thoroughly investigate patterns of falls and to invest in prevention and treatment programmes.

Among clinicians, falls are known to be an important risk in certain populations, as they can be an origin of injury that leads to more complex care, such as the otherwise healthy older adult who slips, falls, sustains a femur fracture and then is admitted to the hospital for surgical repair and develops a condition like healthcare-acquired pneumonia. Such vignettes emphasise how a fall can precipitate significant health loss and potentially death. ²⁹However, a young person who falls can also suffer disability the rest of his or her life, leading to income loss, dependence on caretakers and adequate accessibility options. Among the countries with highest incidence in 2017 were Slovenia, Czech Republic and Slovakia—countries with high percentages of rural populations.³⁰ In Slovenia, nearly half of the population lives in a rural area, and there is evidence that falls are less fatal and more frequent in rural older people. 31 32 Age-standardised DALY rates were particularly high in specific regions, including Central Europe, Eastern Europe and Australasia. Many of these regions are experiencing intensive ageing of the population.³³ Poland, for example, is projected to increase the population aged 65 and over by 4.9 million in the years 2015–2050, requiring significant public healthcare expenditure on therapeutic rehabilitation.³⁴

Research suggests that falls can cause physical harm and psychological and financial harm. A 3-year longitudinal study

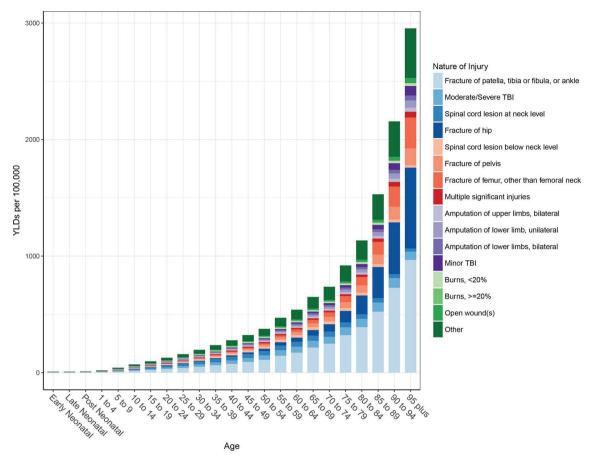


Figure 5 Age-specific nature-of-injury composition of falls globally. TBI, traumatic brain injury; YLDs, years lived with disability.

conducted by Tinetti and Williams explored the short and longterm effects of a fall on the well-being of those 65 and older. Among the participants, injurious falls resulted in a variety of conditions, including hip fractures, other fractures and soft tissue injuries; ultimately these injurious falls led to a decline in daily functional status.³⁵ Other research has shown that falling often triggers a fear of falling again, likely impairing one's sense of mobility and autonomy.⁹ This fear is a proven risk factor for future falls; thus, one fall can initiate a cascade of negative health outcomes.⁹ Ultimately, the initial morbidity of a fall can manifest into significant health loss over time, amounting to considerable treatment and care costs.³⁶ Future GBD research may provide estimates on the probability of long-term disability for individuals who sustain injurious falls.

In general, research on the prevention of falls has shown that improving personal health as well as addressing unsafe external factors can be effective in preventing falls. For example, exercise programmes have been shown to reduce falls among community-dwelling individuals aged 65 and older.^{8 37} A person's surrounding environment has also been identified as a leading cause of falls, 9 10 meaning it is possible to prevent falls through the improvement of living conditions and public spaces, especially if older adults and universal design principles attending to safety are kept in mind when spaces are designed, altered and maintained.³⁸ While some external hazards for falls are well known (eg, slippery surfaces or poor lighting), others are less visible or obvious. For example, in the inpatient setting, a study by Vassallo et al found that the hospital wards with more inpatient beds within the sightline of the nursing station had fewer falls than the ward with poor visibility between beds and

the nursing station. ³⁹ Location-specific research in falls prevention has also shown that exercise, home modification, educational materials and vision correction are all important. ⁴⁰ ⁴¹ It is also important to consider how morbidity or mortality resulting from falls might be mitigated. Clinical literature has supported frequent medication review with avoidance of polypharmacy, ⁴² and dietary supplementation with cholecalciferol (vitamin D_3) for select patients as methods to both prevent fall incidents and to help minimise fracture risk, though more recent assessments and recommendations by the US Preventive Services Task Force have revealed mixed results in terms of the benefits of vitamin D supplementation. ^{43–46}

Our study has several limitations. The first limitation is a function of our case definition in non-fatal models, where we estimate the incidence of falls that require medical care. While not every fall leads to injury, it is possible that care-seeking behavior with similar injuries could vary by location. Similarly, it is possible that in survey data or routine outpatient care visits, a patient may not report falls in the past year even if they led to minor injuries. Since our case definition includes only falls that lead to injury, our MIR estimates are likely lower than if we included all falls regardless of whether they led to injury requiring medical care. However, since the purpose of estimating those ratios is to illustrate patterns in severity and access to treatment, this limitation does not impact the key themes highlighted in our study. In addition, a general limitation in GBD analysis is that some areas of the world that may have high burden of various diseases and injuries do not have reliable incidence and cause-of-death data, and therefore our estimation process relies more heavily on covariates and regional trends in those areas. Similarly, the

Original research

nature-of-injury distributions and injury duration parameters rely more heavily on data from higher income locations and Dutch injury data, and therefore may benefit in the future from adding more data sources from lower income locations so that that these parameters can be refined with greater location heterogeneity in future studies. Accordingly, an emphasis of GBD estimation going forward is to continue seeking additional data sources to be used in our modelling process.

CONCLUSION

As reported in prior GBD literature, falls have persisted over the past three decades as a leading cause of morbidity and mortality globally. This study, which examines the burden of falls in more detail in terms of location and age-specific patterns, reveals that falls are concentrated in certain locations, but the burden of fall mortality reliably corresponds with burden of fall incidence. In other words, it appears that morbidity and mortality of falls are influenced by geographic factors that likely pertain to care access and fall severity. Further research should be conducted to better define and measure these relationships so that future policy and investment can be appropriately designed and implemented.

What is already known on the subject

- Prior research has shown that every region of the world experiences health loss from falls.
- ► Falls have consistently been a leading cause of fatal and nonfatal health loss in the Global Burden of Disease Study (GBD).

What this study adds

- ► While age-standardised incidence of injuries from falls decreased by 8.8% in the high socio-demographic index (SDI) quintile from 1990 to 2017, incidence increased in the middle, low-middle and low SDI quintiles during that time.
- Countries with the highest incidence of injuries from falls do not necessarily have the highest cause-specific mortality.
- ► For all 21 GBD regions, the most common nature of injury sustained by fall victims is fracture of patella, tibia or fibula, or ankle.

Author affiliations

- ¹Institute for Health Metrics and Evaluation, University of Washington, Seattle, Washington, USA
- ²Sport Science Department, University of Extremadura, Badajoz, Spain
- ³School of Science and Health, Western Sydney University, Sydney, NSW, Australia ⁴Oral Health Services, Sydney Local Health District, Sydney, NSW, Australia
- *Oral Health Services, Sydney Local Health District, Sydney, NSW, Australia *School of Physiotherapy and Exercise Science, Curtin University, Bentley, WA, Australia
- ⁶Ageing and Life Course, World Health Organization (WHO), Geneva, Switzerland ⁷Sport Science Department, University of Extremadura, Cáceres, Spain
- ⁸Faculty of Education, Autonomous University of Chile, Talca, Chile
- ⁹Medical Research Council Lifecourse Epidemiology Unit, University of Southampton, Southampton, United Kingdom
- ¹⁰Department of Rheumatology, University of Oxford, Oxford, United Kingdom
- Public Health Foundation of India, Gurugram, India
- ¹²Department of Pathology, Stavanger University Hospital, Stavanger, Norway
- ¹³Norwegian Institute of Public Health, Oslo, Norway
- ¹⁴Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Stockholm, Sweden
- ¹⁵Division of Neurology, University of Ottawa, Ottawa, ON, Canada
- ¹⁶Adelaide Medical School, University of Adelaide, Adelaide, SA, Australia
- ¹⁷Department of Public Health, Erasmus University Medical Center, Rotterdam, The Netherlands
- ¹⁸School of Public health, Curtin University, Perth, Western Australia, Australia ¹⁹Institute of Family Medicine and Public Health, University of Tartu, Tartu, Estonia

- ²⁰University of Melbourne, Melbourne, QLD, Australia
- ²¹Department of Hypertension, Pomeranian Medical University, Szczecin, Poland
- ²²Pacific Institute for Research and Evaluation, Calverton, Maryland, USA
 ²³Achutha Manon Centra for Health Science Studies, Stee Chitra Tirunal Ir
- ²³Achutha Menon Centre for Health Science Studies, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, India
- ²⁴Global Institute of Public Health (GIPH), Ananthapuri Hospitals and Research Centre, Trivandrum, India
- ²⁵Faculty of General Medicine, Kyrgyz State Medical Academy, Bishkek, Kyrgyzstan ²⁶Department of Atherosclerosis and Coronary Heart Disease, National Center of Cardiology and Internal Disease, Bishkek, Kyrgyzstan ²⁷Health Equity Research Center, Tehran University of Medical Sciences, Tehran, Iran
- Health Equity Research Center, Tehran University of Medical Sciences, Tehran, Ira Institute of Physical Activity and Health, Autonomous University of Chile, Talca, Chile
- ²⁹Thalassemia and Hemoglobinopathy Research Center, Ahvaz Jundishapur University of Medical Sciences, Ahvaz, Iran
- ³⁰Endocrinology and Metabolism Molecular-Cellular Sciences Institute, Tehran University of Medical Sciences, Tehran, Iran
- ³¹Department of Rheumatology, University Hospitals Bristol NHS Foundation Trust, Bristol, UK
- ³²Institute of Bone and Joint Research, University of Sydney, Syndey, NSW, Australia ³³Department of Preventive Medicine, Northwestern University, Chicago, IL, United States
- ³⁴Department of Health Metrics Sciences, School of Medicine, University of Washington, Seattle, WA, USA

Funding This study was supported by the Bill and Melinda Gates Foundation (OPP1152504).

Competing interests SJ reports grants from Sanofi Pasteur outside the submitted work; AB reports personal fees from World Health Organization outside the submitted work; CC reports personal fees from Amgen, personal fees from Danone, personal fees from Eli Lilly, personal fees from GlaxoSmithKline, personal fees from Kyowa Kirin, personal fees from Medtronic, personal fees from Mestle, personal fees from Novartis, personal fees from Pfizer, personal fees from Roche, personal fees from Servier, personal fees from Shire, personal fees from Takeda, and personal fees from UCB outside the submitted work.

Patient consent for publication Not required.

Provenance and peer review Not commissioned; externally peer reviewed.

Data availability statement Data are available in a public, open access repository. Data are available upon reasonable request. Data may be obtained from a third party and are not publicly available.

Open access This is an open access article distributed in accordance with the Creative Commons Attribution 4.0 Unported (CC BY 4.0) license, which permits others to copy, redistribute, remix, transform and build upon this work for any purpose, provided the original work is properly cited, a link to the licence is given, and indication of whether changes were made. See: https://creativecommons.org/licenses/by/4.0/.

ORCID iD

Spencer L James http://orcid.org/0000-0003-4653-2507

REFERENCES

- 1 GBD 2016 traumatic brain injury and spinal cord injury collaborators. Global, regional, and national burden of traumatic brain injury and spinal cord injury, 1990-2016: A systematic analysis for the global burden of disease study 2016. *Lancet Neurol* 2019:18:56–87.
- 2 Falls in older persons: Risk factors and patient evaluation UpToDate. Available: https://www.uptodate.com/contents/falls-in-older-persons-risk-factors-and-patient-evaluation?search=falls%20in%20elderly&source=search_result&selectedTitle=1~ 150&usage_type=default&display_rank=1 [Accessed 12 Jun 2019].
- 3 Falls: Prevention in community-dwelling older persons UpToDate. Available: https://www.uptodate.com/contents/falls-prevention-in-community-dwelling-older-persons?search=falls%20osteoporosis&source=search_result&selectedTitle=1~150&usage_type=default&display_rank=1#H14 [Accessed 12 Jun 2019].
- 4 Kyu HH, Abate D, Abate KH, et al. Global, regional, and national disability-adjusted life-years (DALYs) for 359 diseases and injuries and healthy life expectancy (HALE) for 195 countries and territories, 1990–2017: a systematic analysis for the global burden of disease study 2017. The Lancet 2018;392:1859–922.
- 5 Roth GA, Abate D, Abate KH, et al. Global, regional, and national age-sex-specific mortality for 282 causes of death in 195 countries and territories, 1980–2017: a systematic analysis for the global burden of disease study 2017. The Lancet 2018;392:1736–88.
- 6 Falls, Organization WH. Available: http://www.who.int/news-room/fact-sheets/detail/ falls [Accessed 4 Jul 2018].

- 7 World Health organization. injuries and violence: the facts, 2014. Available: http://apps.who.int/iris/bitstream/handle/10665/149798/9789241508018_eng.pdf [Accessed 4 Jul 2018].
- 8 Gillespie LD, Robertson MC, Gillespie WJ, et al. Interventions for preventing falls in older people living in the community. Cochrane Database Syst Rev 2009:(2):CD007146
- 9 Masud T, Morris RO. Epidemiology of falls. *Age Ageing* 2001;30(suppl 4):3–7.
- 10 World Health Organization. Who global report on falls prevention in older age, 2007. Available: http://www.who.int/violence_injury_prevention/publications/other_injury/falls_prevention.pdf [Accessed 4 Jul 2018].
- 11 Hyder Aet al. Global childhood unintentional injury surveillance in four cities in developing countries: a pilot study. Bull World Health Organ 2009;87:345–52.
- 12 Bhuvaneswari N, Prasuna JG, Goel MK, et al. An epidemiological study on home injuries among children of 0-14 years in South Delhi. *Indian J Public Health* 2018:62:4–9.
- 13 James SL, Abate D, Abate KH, et al. Global, regional, and national incidence, prevalence, and years lived with disability for 354 diseases and injuries for 195 countries and territories, 1990–2017: a systematic analysis for the global burden of disease study 2017. The Lancet 2018;392:1789–858.
- 14 Dicker D, Nguyen G, Abate D, et al. Global, regional, and national age-sex-specific mortality and life expectancy, 1950–2017: a systematic analysis for the global burden of disease study 2017. The Lancet 2018;392:1684–735.
- 15 Murray CJL, Callender CSKH, Kulikoff XR, et al. Population and fertility by age and sex for 195 countries and territories, 1950–2017: a systematic analysis for the global burden of disease study 2017. The Lancet 2018;392:1995–2051.
- 16 Stanaway JD, Afshin A, Gakidou E, et al. Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990–2017: a systematic analysis for the global burden of disease study 2017. The Lancet 2018;392:1923–94.
- 17 Naghavi M, Abajobir AA, Abbafati C, et al. Global, regional, and national age-sex specific mortality for 264 causes of death, 1980–2016: a systematic analysis for the global burden of disease study 2016. The Lancet 2017;390:1151–210.
- 18 Foreman KJ, Lozano R, Lopez AD, et al. Modeling causes of death: an integrated approach using CODEm. Popul Health Metr 2012;10:1.
- 19 Vos T, Abajobir AA, Abate KH, et al. Global, regional, and national incidence, prevalence, and years lived with disability for 328 diseases and injuries for 195 countries, 1990–2016: a systematic analysis for the global burden of disease study 2016. The Lancet 2017;390:1211–59.
- 20 China Zhuhai Study 2006-2007 China CDC | GHDx. Available: http://ghdx. healthdata.org/record/china-zhuhai-study-2006-2007-china-cdc [Accessed 15 May 2018]
- 21 Functional outcome at 2.5, 5, 9, and 24 months after injury in the Netherlands | GHDx. Available: http://ghdx.healthdata.org/record/functional-outcome-25-5-9-and-24-months-after-injury-netherlands [Accessed 15 May 2018].
- 22 Health-Related quality of life after burns: a prospective multicentre cohort study with 18 months follow-up | GHDx. Available: http://ghdx.healthdata.org/record/health-related-quality-life-after-burns-prospective-multicentre-cohort-study-18-months-follow [Accessed May 15, 2018].
- 23 Netherlands injury surveillance system, 2007 GHDx. Available: http://ghdx. healthdata.org/record/netherlands-injury-surveillance-system-2007 [Accessed 15 May 2018]
- 24 Netherlands injury surveillance system, 2010 GHDx. Available: http://ghdx. healthdata.org/record/netherlands-injury-surveillance-system-2010 [Accessed 14 May 2018].
- 25 Mackenzie EJ, Rivara FP, Jurkovich GJ, et al. The national study on costs and outcomes of trauma. J Trauma 2007;63(6 Suppl):S54–S67.

- 26 Traumatic Brain Injury(TBI) Follow-Up Registry and Surveillance of TBI in the Emergency Department (ED); Notice of Availability of Funds, 2002. Federal register. Available: https://www.federalregister.gov/documents/2002/05/08/02-11359/ traumatic-brain-injurytbi-follow-up-registry-and-surveillance-of-tbi-in-the-emergency-department-ed [Accessed 14 May 2018].
- 27 Regression D. Available: http://r-statistics.co/Dirichlet-Regression-With-R.html [Accessed 12 Jun 2019].
- 28 Duan L, Deng X, Wang Y, et al. The National injury surveillance system in China: a six-year review. *Injury* 2015;46:572–9.
- 29 Jagnoor J, Suraweera W, Keay L, et al. Childhood and adult mortality from unintentional falls in India. Bull World Health Organ 2011:89:733–40.
- 30 Rural population (% of total population) | data. world bank. Available: https://data. worldbank.org/indicator/SP.RUR.TOTL.ZS?locations=RU-AU-NZ-PL-SI-SK-CZ-US& name_desc=false [Accessed 19 Mar 2019].
- 31 Falls most common cause of hospitalised injury—with numbers rising. Australian Institute of health and welfare, 2018published online May 16. Available: https://www.aihw.gov.au/news-media/media-releases/2018/may/falls-most-common-cause-of-hospitalised-injury-wit [Accessed 19 Mar 2019].
- 32 Huang J-W, Lin Y-Y, Wu N-Y, et al. Rural older people had lower mortality after accidental falls than non-rural older people. Clin Interv Aging 2017;12:97–102.
- 33 Bank W. Population ages 65 and above (% of total) | data. Available: https://data. worldbank.org/indicator/SP.POP.65UP.TO.ZS?locations=EU-B8&year_high_desc=true [Accessed 2 Apr 2019].
- 34 Kłak A, Raciborski F, Targowski T, *et al.* A growing problem of falls in the aging population: a case study on Poland 2015–2050 forecast. *Eur Geriatr Med* 2017;8:105–10.
- 35 Tinetti ME, Williams CS. The effect of falls and fall injuries on functioning in community-dwelling older persons. *J Gerontol A Biol Sci Med Sci* 1998;53A:M112 –M119
- 36 Florence CS, Bergen G, Atherly A, et al. Medical costs of fatal and nonfatal falls in older adults. J Am Geriatr Soc 2018;66:693–8.
- 37 Sherrington C, Fairhall NJ, Wallbank GK, et al. Exercise for preventing falls in older people living in the community. Cochrane Database Syst Rev 2019;21.
- 38 Reis P, Moro A, Bins Ely V, Ely B V, et al. Universal design and accessibility: an approach of the influence of muscle strength loss in the risk of falls in the elderly. Work 2012:41 Suppl 1:374–9
- 39 Vassallo M, Azeem T, Pirwani MF, et al. An epidemiological study of falls on integrated general medical wards. Int J Clin Pract 2000;54:654–7.
- 40 Romli MH, Tan MP, Mackenzie L, et al. Falls amongst older people in Southeast Asia: a scoping review. *Public Health* 2017;145:96–112.
- 41 Hill KD, Suttanon P, Lin S-I, et al. What works in falls prevention in Asia: a systematic review and meta-analysis of randomized controlled trials. BMC Geriatr 2018;18:3.
- 42 Pit SW, Byles JE, Henry DA, et al. A quality use of medicines program for general practitioners and older people: a cluster randomised controlled trial. Med J Aust 2007:187:23—30.
- 43 American geriatrics society workgroup on vitamin d supplementation for older adults. Recommendations Abstracted from the American geriatrics Society consensus statement on vitamin D for prevention of falls and their consequences. J Am Geriatr Soc 2014:62:147–52
- 44 Cranney A, Horsley T, O'Donnell S, et al. Effectiveness and safety of vitamin D in relation to bone health. Evid Rep Technol Assess 2007;158:1–235.
- 45 Guirguis-Blake JM, Michael YL, Perdue LA, et al. Interventions to prevent falls in older adults: updated evidence report and systematic review for the US preventive services Task force. JAMA 2018;319:1705–16.
- 46 Guirguis-Blake JM, Michael YL, Perdue LA, et al. Interventions to prevent falls in community-dwelling older adults: a systematic review for the U.S. preventive services Task force. Rockville, MD: Agency for Healthcare Research and Quality (US), 2018.

Appendix 1

Summary of General Global Burden of Disease Study Methods

The Institute for Health Metrics and Evaluation with a growing collaboration of scientists produces annual updates of the Global Burden of Disease study. Estimates span the period from 1990 to the most recent completed year (2017). By the time of the release of GBD 2017 in November 2018, there were 3,676 collaborators in 144 countries and 2 territories who contributed to this global public good. Annual updates allow incorporation of new data and method improvements to ensure that the most up-to-date information is available to policy makers in a timely fashion to help make resource allocation decisions.

The guiding principle of GBD is to assess health loss due to mortality and disability comprehensively, where we define disability as any departure from full health. In GBD 2017, estimates were made for 195 countries and territories, and 579 subnational locations, for 28 years starting from 1990, for 23 age groups and both sexes. Deaths were estimated for 282 diseases and injuries, while prevalence and incidence were estimated for 355 diseases and injuries. In order to allow meaningful comparisons between deaths and non-fatal disease outcomes as well as between diseases, the data on deaths and prevalence are summarised in a single indicator, the disability-adjusted life-year (DALY). DALYs are the sum of years of life lost (YLLs) and years lived with disability (YLDs). YLLs are estimated as the multiplication of counts of death and a standard, "ideal", remaining life expectancy at the age of death. The standard life expectancy is derived from the lowest observed mortality rates in any population in the world greater than 5 million. YLDs are estimated as the product of prevalence of individual consequences of disease (or "sequelae") times a disability weight that quantifies the relative severity of a sequela as a number between zero (representing "full health") and 1 (representing death). Disability weights have been estimated in nine population surveys and an open-access internet survey in which respondents are asked to choose the "healthier" between random pairs of health states that are presented with a short description of the main features.

All-cause mortality rates are estimated from vital registration data in countries with complete coverage¹. For other countries, the probabilities of death before age 5 and between ages 15 and 60 are estimated from censuses and surveys asking mothers to provide a history of children ever born and those still alive, and surveys asking adults about siblings who are alive or have passed away. Using model life tables, these probabilities of death are transformed into agespecific death rates by location, year, and sex.

For cause of death estimation, GBD has collated a large database of cause of death data from vital registrations and verbal autopsy surveys in which relatives are asked a standard set of questions to ascertain the likely cause of death, supplemented with police and mortuary data for injury deaths in countries with no other data². For countries with vital registration data, the completeness is assessed with demographic methods based on comparing recorded deaths with population counts between two successive censuses. The cause of death information is provided in a large number of different classification systems based on versions of the

International Classification of Diseases or bespoke classifications in some countries. All data are mapped into the disease and injury categories of GBD. All classification systems contain codes that are less informative because they lack a specific diagnosis (eg, unspecified cancer) or refer to codes that cannot be underlying cause of death (eg, low back pain or senility) or are intermediate causes (eg, heart failure or sepsis). Such deaths are redistributed to more precise underlying causes of death. After these redistributions and corrections for under-registration, the data are analysed in CODEm (cause of death ensemble model), a highly systematised tool that runs many different models on the same data and chooses an ensemble of models that best reflects all the available input data. Models are chosen with variations in the statistical approach ("mixed effects" of spatiotemporal Gaussian Process Regression), in the unit of analysis (rates or cause fractions), and the choice of predictive covariates. The statistical performance of all models is tested by holding out 30% of the data and checking how well a model covers the data that were held out. To enforce consistency from CODEm, the sum of all cause-specific mortality rates is scaled to that of the all-cause mortality rates in each age, sex, location, and year category.

Non-fatal estimates are based on systematic reviews of published papers and unpublished documents, survey microdata, administrative records of health encounters, registries, and disease surveillance systems³. Our Global Health Data Exchange (GHDx, http://ghdx.healthdata.org/) is the largest repository of health data globally. We first set a reference case definition and/or study method that best quantifies each disease or injury or consequence thereof. If there is evidence of a systematic bias in data that used different case definitions or methods compared to reference data we adjust those data points to reflect what its value would have been if measured as the reference. This is a necessary step if one wants to use all data pertaining to a particular quantity of interest rather than choosing a small subset of data of the highest quality only. DisMod-MR 2.1, a Bayesian meta-regression tool, is our main method of analyzing non-fatal data. It is designed as a geographical cascade where a first model is run on all the world's data, which produces an initial global fit and estimates coefficients for predictor variables and the adjustments for alternative study characteristics. The global fit adjusted by the values of random effects for each of seven GBD super-regions, the coefficients on sex and country predictors, are passed down as data to a model for each super-region together with the input data for that geography. The same steps are repeated going from super-region to 21 region fits and then to 195 fits by country and where applicable a further level down to subnational units. Below the global fit, all models are run separately by sex and for six time periods: 1990, 1995, 2000, 2005, 2010, and 2017. During each fit all data on prevalence, incidence, remission, and mortality are forced to be internally consistent. For most diseases, the bulk of data on prevalence or incidence is at the disease level with fewer studies providing data on the proportions of cases of disease in each of the sequelae defined for the disease. The proportions in each sequela are pooled using DisMod-MR 2.1 or meta-analysis, or derived from analyses of patient-level datasets. The multiplication of prevalent cases for each disease sequela and the appropriate disability weight produces YLD estimates that do not yet take into account comorbidity. To correct for comorbidity, these data are used in a simulation to create hypothetical individuals in each age, sex, location, and year combination who experience no, one, or multiple sequelae simultaneously. We assume that disability weights are

multiplicative rather than additive as this avoids assigning a combined disability weight value in any individual to exceed 1, ie, be worse than a "year lost due to death". This comorbidity adjustment leads to an average scaling down of disease-specific YLDs ranging from about 2% in young children up to 17% in oldest ages.

All our estimates of causes of death are categorical: each death is assigned to a single underlying cause. This has the attractive property that all estimates add to 100%. For risks, we use a different, "counterfactual" approach, ie, answering the question: "what would the burden have been if the population had been exposed to a theoretical minimum level of exposure to a risk". Thus, we need to define what level of exposure to a risk factor leads to the lowest amount of disease. We then analyse data on the prevalence of exposure to a risk and derive relative risks for any risk-outcome pair for which we find sufficient evidence of a causal relationship. Prevalence of exposure is estimated in DisMod-MR 2.1, using spatiotemporal Gaussian Process Regression, or from satellite imagery in the case of ambient air pollution. Relative risk data are pooled using meta-analysis of cohort, case-control and/or intervention studies. For each risk and outcome pair, we evaluate the evidence and judge if the evidence falls into the categories of "convincing" or "probable" as defined by the World Cancer Research Fund⁴.

From the prevalence and relative risk results, population attributable fractions are estimated relative to the theoretical minimum risk exposure level (TMREL). When we aggregate estimates for clusters of risks, eg, metabolic or behavioural risks, we use a multiplicative function rather than simple addition and take into account how much of each risk is mediated through another risk. For instance, some of the risk of high body mass index is directly onto stroke as an outcome but much of its impact is mediated through high blood pressure, high cholesterol, or high fasting plasma glucose, and we would not want to double count the mediated effects when we estimate aggregates across risk factors⁵.

Uncertainty is propagated throughout all these calculations by creating 1,000 values for each prevalence, death, YLL, YLD, or DALY estimate and performing aggregations across causes and locations at the level of each of the 1,000 values for all intermediate steps in the calculation. The lower and upper bounds of the 95% uncertainty interval are the 25th and 975th values of the ordered 1,000 values. For all age-standardised rates, GBD uses a standard population estimated elsewhere in the GBD analytical process.

GBD uses a composite indicator or sociodemographic development, SDI, which reflects the geometric mean of normalised values of a location's income per capita, the average years of schooling in the population 15 and over, and the total fertility rate under age 25. Countries and territories are grouped into five quintiles of high, high-middle, middle, low-middle, and low SDI based on their 2017 values.

1GBD 2017 Collaborators. Global, regional, and national age- and sex-specific mortality and life expectancy for 195 countries and territories, 1950–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018.

2GBD 2017 Collaborators. Global, regional, and national age-sex-specific mortality for 282 causes of death for 195 countries and territories, 1980–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018.

- 3GBD 2017 Collaborators. Global, regional, and national incidence, prevalence, and YLDs for 328 acute and chronic diseases and injuries for 195 countries, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018.
- 4Food, nutrition, physical activity, and the prevention of cancer: a global perspective. 2007. http://www.aicr.org/assets/docs/pdf/reports/Second_Expert_Report.pdf.
- 5GBD 2017 Collaborators. Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *The Lancet* 2018.

Appendix 2

GATHER checklist of information that should be included in reports of global health estimates, with description of compliance and location of information for GBD 2017.

#	GATHER checklist item	Description of compliance	Reference
Obj	jectives and funding	•	
1	Define the indicators, populations, and time periods for which estimates were made.	Narrative provided in paper and appendix describing indicators, definitions, and populations	Main text (Methods) and appendix
2	List the funding sources for the work.	Funding sources listed in paper	Summary (Funding)
Dat	ta Inputs		
For	all data inputs from multiple sources that are synthesised as part	t of the study:	
3	Describe how the data were identified and how the data were accessed.	Narrative description of data seeking methods provided	Main text (Methods) and appendix
4	Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.	Narrative about inclusion and exclusion criteria by data type provided; ad hoc exclusions in causespecific write-ups	Main text (Methods) and appendix
5	Provide information on all included data sources and their main characteristics. For each data source used, report reference information or contact name/institution, population represented, data collection method, year(s) of data collection, sex and age range, diagnostic criteria or measurement method, and sample size, as relevant.	An interactive, online data source tool that provides metadata for data sources by component, geography, cause, risk, or impairment has been developed	Online data citation tools: http://ghdx.healthdata.org/gbd-2017
6	Identify and describe any categories of input data that have potentially important biases (e.g., based on characteristics listed in item 5).	Summary of known biases by cause included in appendix	Appendix
For	data inputs that contribute to the analysis but were not synthesis	sed as part of the study:	
7	Describe and give sources for any other data inputs.	Included in online data source tool	http://ghdx.healthdata.o rg/gbd-2017
For	all data inputs:		
8	Provide all data inputs in a file format from which data can be efficiently extracted (e.g., a spreadsheet as opposed to a PDF), including all relevant meta-data listed in item 5. For any data inputs that cannot be shared due to ethical or legal reasons, such as third-party ownership, provide a contact name or the name of the institution that retains the right to the data.	Downloads of input data available through online tools, including data visualisation tools and data query tools; input data not available in tools will be made available upon request	Online data visualisation tools, data query tools, and the Global Health Data Exchange
Dat	ta analysis		

9	Provide a conceptual overview of the data analysis method. A diagram may be helpful.	Flow diagrams of the overall methodological processes, as well as cause-specific modelling processes, have been provided	Main text (Methods) and appendix
10	Provide a detailed description of all steps of the analysis, including mathematical formulae. This description should cover, as relevant, data cleaning, data pre-processing, data adjustments and weighting of data sources, and mathematical or statistical model(s).	Flow diagrams and corresponding methodological write-ups for each cause, as well as the databases and modelling processes, have been provided	Main text (Methods) and appendix
11	Describe how candidate models were evaluated and how the final model(s) were selected.	Provided in the methodological write-ups	Appendix
12	Provide the results of an evaluation of model performance, if done, as well as the results of any relevant sensitivity analysis.	Provided in the methodological write-ups	Appendix
13	Describe methods for calculating uncertainty of the estimates. State which sources of uncertainty were, and were not, accounted for in the uncertainty analysis.	Appendix	Appendix
14	State how analytic or statistical source code used to generate estimates can be accessed.	Appendix	http://ghdx.healthdata.o rg/gbd-2017/code
Resi	ults and Discussion		
15	Provide published estimates in a file format from which data can be efficiently extracted.	GBD 2017 results are available through online data visualisation tools, the Global Health Data Exchange, and the online data query tool	Main text, and online data tools (data visualisation tools, data query tools, and the Global Health Data Exchange)
16	Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals).	Uncertainty intervals are provided with all results	Main text, appendix, and online data tools (data visualisation tools, data query tools, and the Global Health Data Exchange)
17	Interpret results in light of existing evidence. If updating a previous set of estimates, describe the reasons for changes in estimates.	Discussion of methodological changes between GBD rounds provided in the narrative of the manuscript and appendix	Main text (Methods and Discussion) and appendix
18	Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates.	Discussion of limitations provided in the narrative of the main paper, as well as in the methodological writeups in the appendix	Main text (Limitations) and appendix

able 1: Incidence and prevalence for 2017 and perc	entage change of age-standardise	Incidence (95% UI)	nocation for fails		Prevalence (95% UI)	
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between
ilobal	171 691 220 (152 472 652 to 194 061 874)	2 238 (1 990 to 2 532)	1990 and 2017 -3.7 (-7.4 to -0.3)	411 711 999 (366 390 987 to 465 354 952)	5 186 (4 622 to 5 849)	-6.5 (-7.6 to -5.4)
Low SDI	17 499 653	1 597 (1 400 to 1 824)	16.0	31 022 660	3 393	15.3
Low-middle SDI	(14 975 887 to 20 547 072) 24 401 866	1 581	(11.3 to 20.6) 26.0	(27 331 173 to 35 024 800) 47 383 747	(3 010 to 3 836) 3 379	(13.7 to 17.0) 23.6
Middle SDI	(21 203 737 to 28 302 838)	(1 390 to 1 805)	(21.2 to 30.6)	(41 829 874 to 53 437 565)	(3 010 to 3 807)	(21.9 to 25.6)
	28 246 597	1 353	41.1	65 634 605	2 956	38.8
High-middle SDI	(24 926 685 to 32 295 306)	(1 195 to 1 544)	(36.3 to 45.7)	(58 297 959 to 74 204 118)	(2 634 to 3 335)	(36.1 to 41.5)
	43 941 932	3 133	-4.0	116 716 021	7 029	-10.1
High SDI	(38 932 641 to 49 520 075)	(2 758 to 3 570)	(-7.9 to -0.2)	(102 845 012 to 132 955 230)	(6 191 to 7 997)	(-11.5 to -8.7)
	57 175 600	4 307	-8.8	149 790 629	9 316	-7.6
	(51 319 808 to 63 910 608)	(3 770 to 4 929)	(-12.3 to -5.3)	(133 521 836 to 170 195 274)	(8 135 to 10 647)	(-9.0 to -6.1)
	36 244 565	8 240	-4.1	93 942 180	17 959	-2.5
entral Europe, Eastern Europe, and Central Asia	(32 310 224 to 40 669 642)	(7 262 to 9 388)	(-8.4 to 0.1)	(82 524 124 to 108 293 264)	(15 660 to 20 662)	(-3.6 to -1.2)
	4 253 163	4 761	-4.2	9 249 220	10 653	-5.4
Central Asia	(3 692 253 to 4 883 974)	(4 146 to 5 475)	(-10.6 to 1.9)	(7 998 797 to 10 645 734)	(9 274 to 12 223)	(-6.8 to -3.9)
	141 308	4 670	-18.4	378 950	10 471	-17.9
Armenia	(122 550 to 162 828)	(3 988 to 5 473)	(-25.7 to -11.1)	(329 119 to 438 804)	(9 051 to 12 106)	(-19.9 to -15.6)
	476 025	4 705	5.6	1 116 858	10 544	4.1
Azerbaijan	(407 964 to 551 195)	(4 051 to 5 457)	(-2.6 to 14.4)	(961 605 to 1 296 298)	(9 131 to 12 206)	(1.8 to 6.4)
	184 261	4 668	-15.4	473 778	9 921	-18.7
Georgia	(164 254 to 208 007) 937 158	(4 137 to 5 332)	(-22.0 to -7.8) 0.2	(419 041 to 541 441) 2 077 867	(8 726 to 11 347) 11 489	(-20.4 to -16.9) -1.8
Kazakhstan	(826 507 to 1 067 295)	5 306 (4 690 to 6 076)	(-7.3 to 8.1)	(1 807 985 to 2 394 836)	(10 029 to 13 190)	(-3.3 to -0.1)
Kyrgyzstan	263 893	4 188	-25.1	548 570	9 708	-22.5
	(222 094 to 311 221)	(3 571 to 4 890)	(-32.7 to -16.8)	(470 213 to 635 527)	(8 370 to 11 198)	(-24.9 to -20.2)
Mongolia	189 074	5 915	11.8	395 668	13 234	10.7
	(166 033 to 216 155)	(5 223 to 6 747)	(5.8 to 17.9)	(342 567 to 456 194)	(11 568 to 15 192)	(8.6 to 13.2)
Tajikistan	422 650	4 660	-11.6	811 897	10 868	-10.9
	(365 070 to 497 518)	(4 082 to 5 425)	(-17.4 to -4.9)	(700 577 to 937 562)	(9 476 to 12 448)	(-12.7 to -9.2)
Turkmenistan	223 612	4 586	4.6	485 983	10 396	3.1
	(190 766 to 260 932)	(3 934 to 5 352)	(-3.9 to 12.2)	(417 368 to 564 662)	(8 996 to 12 001)	(1.0 to 5.1)
Uzbekistan	1 415 182	4 451	0.5	2 959 650	10 088	-0.8
	(1 200 497 to 1 651 819)	(3 816 to 5 176)	(-8.0 to 8.4)	(2 547 463 to 3 438 521)	(8 752 to 11 624)	(-2.7 to 1.5)
Central Europe	14 767 638	(3 816 to 5 176) 11 434 (10 103 to 12 996)	-5.9	37 233 284 (33 073 677 to 42 407 489)	23 428	-3.9 (-5.4 to -2.2)
Albania	(13 282 613 to 16 427 055) 267 827	9 528	(-11.2 to -0.8) 30.2	714 463	(20 453 to 26 911) 20 964	22.2
Bosnia and Herzegovina	(234 155 to 305 388)	(8 188 to 11 053)	(23.9 to 36.7)	(620 728 to 827 904)	(18 128 to 24 261)	(19.8 to 24.6)
	325 989	9 556	29.3	960 384	21 321	22.8
Bulgaria	(285 952 to 372 233)	(8 216 to 11 168)	(23.9 to 34.7)	(835 505 to 1 112 321)	(18 395 to 24 752)	(20.6 to 25.3)
	782 650	10 252	-4.8	2 241 967	21 980	-7.7
Croatia	(701 965 to 878 893)	(8 954 to 11 755)	(-11.5 to 2.5)	(1 975 487 to 2 580 312)	(19 035 to 25 361)	(-9.0 to -5.9)
	532 044	9 356	-3.0	1 140 021	17 368	-7.3
	(498 864 to 569 372)	(8 814 to 10 029)	(-11.7 to 6.7)	(1 036 701 to 1 269 180)	(15 655 to 19 446)	(-10.6 to -4.3)
	1 601 099	13 389	-11.9	4 018 820	27 302	2.1
Czech Republic	(1 419 768 to 1 809 994)	(11 519 to 15 469)	(-19.7 to -4.6)	(3 557 410 to 4 581 118)	(23 797 to 31 517)	(-0.3 to 5.1)
	1 377 645	11 783	-23.0	3 260 122	23 372	-9.8
Hungary	(1 226 330 to 1 542 949)	(10 312 to 13 538)	(-29.7 to -16.2)	(2 897 693 to 3 720 297)	(20 420 to 26 906)	(-12.9 to -6.4)
	217 944	9 873	29.3	593 523	21 535	23.0
Macedonia	(191 778 to 246 425)	(8 563 to 11 447)	(23.9 to 35.0)	(516 649 to 687 735)	(18 620 to 24 957)	(21.1 to 25.0)
	63 348	9 879	17.8	170 139	21 556	17.3
Montenegro	(55 787 to 71 924)	(8 484 to 11 465)	(12.3 to 23.9)	(147 924 to 197 611)	(18 574 to 25 063)	(15.4 to 19.0)
Poland	5 206 349	11 933	-0.6	12 756 978	24 118	-0.3
	(4 680 507 to 5 801 280)	(10 506 to 13 597)	(-7.5 to 6.8)	(11 331 892 to 14 475 960)	(21 141 to 27 664)	(-2.1 to 1.3)
Romania	2 335 397	10 889	-16.8	6 231 936	22 887	-20.2
	(2 096 120 to 2 593 540)	(9 551 to 12 429)	(-23.1 to -9.6)	(5 525 360 to 7 109 467)	(19 963 to 26 243)	(-22.1 to -18.2)
Serbia	935 472	10 013	22.9	2 524 792	21 561	20.4
	(828 128 to 1 057 295)	(8 637 to 11 598)	(16.7 to 28.8)	(2 212 807 to 2 919 389)	(18 658 to 24 978)	(18.1 to 22.9)
Slovakia	738 806	12 239	-11.2	1 774 767	24 425	-8.4
	(661 530 to 826 576)	(10 806 to 13 916)	(-16.9 to -5.5)	(1 578 271 to 2 018 410)	(21 482 to 27 965)	(-10.4 to -6.2)
Slovenia	383 068	14 790	-1.0	845 372	28 254	4.6
	(340 080 to 432 286)	(12 950 to 16 774)	(-8.9 to 7.1)	(763 593 to 942 614)	(24 953 to 32 226)	(2.6 to 6.6)
Eastern Europe	17 223 763	8 029	3.6	47 459 675	17 429	3.2
	(15 097 423 to 19 546 254)	(7 010 to 9 233)	(-1.1 to 8.6)	(41 508 361 to 55 020 220)	(15 114 to 20 228)	(1.7 to 4.7)
Belarus	836 348	8 433	2.8	2 259 393	17 965	-0.1
	(752 621 to 931 024)	(7 448 to 9 491)	(-3.9 to 9.9)	(1 990 759 to 2 598 887)	(15 690 to 20 674)	(-1.7 to 1.7)
Estonia	112 476	7 995	-21.9	313 546	17 231	-18.2
Latvia	(100 762 to 126 160)	(6 982 to 9 154)	(-28.7 to -14.5)	(276 093 to 361 654)	(14 939 to 19 945)	(-20.6 to -15.7)
	181 592	8 437	-22.7	492 351	17 725	-19.8
Lithuania	(162 291 to 201 400)	(7 417 to 9 528)	(-29.1 to -15.5)	(436 833 to 564 524)	(15 518 to 20 317)	(-22.5 to -17.3)
	304 680	9 236	-6.8	785 538	18 919	-8.0
Moldova	(274 072 to 337 700)	(8 175 to 10 379)	(-13.8 to 0.9)	(699 256 to 896 628)	(16 631 to 21 733)	(-10.7 to -5.4)
	246 915	6 749	-16.7	710 311	15 209	-14.4
Russian Federation	(218 517 to 279 575)	(5 856 to 7 797)	(-23.8 to -9.0)	(620 107 to 822 168)	(13 194 to 17 556)	(-16.7 to -11.6)
	12 075 603	8 082	9.3	32 823 200	17 542	9.4
	(10 555 676 to 13 773 029)	(7 057 to 9 303)	(4.4 to 14.2)	(28 687 609 to 38 056 625)	(15 203 to 20 362)	(7.8 to 11.0)
	3 466 149	7 785	-6.4	10 075 335	17 029	-7.2
Ukraine	(2 998 287 to 3 979 301)	(6 725 to 9 006)	(-11.7 to -0.9)	(8 786 177 to 11 720 903)	(14 737 to 19 813)	(-8.7 to -5.5)
	49 103 178	3 900	-8.5	128 475 940	8 516	-8.4
ligh-income	(43 975 014 to 54 930 253)	(3 415 to 4 469)	(-11.9 to -5.0)	(114 333 653 to 146 380 526)	(7 433 to 9 743)	(-10.2 to -6.6)
	2 680 001	8 187	25.5	5 709 338	16 175	19.7
Australasia	(2 368 150 to 3 030 484)	(6 978 to 9 553)	(18.8 to 32.7)	(4 924 777 to 6 795 061) 4 702 711	(13 641 to 19 647)	(16.9 to 22.3)
Australia	2 159 427 (1 892 073 to 2 460 772)	7 888 (6 638 to 9 269)	26.0 (18.6 to 34.0)	(4 049 255 to 5 591 701)	15 785 (13 277 to 19 200)	21.0 (19.0 to 23.4)
New Zealand	520 575	9 799	25.9	1 006 627	18 269	15.1
	(462 937 to 584 568)	(8 577 to 11 062)	(16.6 to 35.6)	(874 748 to 1 186 462)	(15 521 to 22 017)	(8.3 to 21.6)
High-income Asia-Pacific	8 907 346	4 450	7.5	28 152 727	10 300	12.3
	(7 810 673 to 10 058 576)	(3 810 to 5 197)	(2.2 to 12.6)	(24 660 093 to 32 450 922)	(8 816 to 12 086)	(10.3 to 14.8)
Brunei	20 115	5 065	7.5	46 270	11 009	6.2
	(17 507 to 22 960)	(4 413 to 5 814)	(1.6 to 12.8)	(39 697 to 54 145)	(9 552 to 12 820)	(4.4 to 8.1)
Japan	6 424 809	4 501	19.8	20 945 728	10 612	25.6
	(5 588 243 to 7 321 969)	(3 833 to 5 277)	(15.4 to 24.4)	(18 408 357 to 24 193 741)	(9 060 to 12 470)	(22.9 to 29.0)
South Korea	2 238 628	4 423	-10.0	6 508 161	9 628	-14.3
	(1 985 828 to 2 508 127)	(3 807 to 5 103)	(-17.8 to -1.5)	(5 674 209 to 7 516 082)	(8 289 to 11 311)	(-16.3 to -12.1)
Singapore	223 793 (195 607 to 255 803)	4 401 (3 771 to 5 155)	5.8 (-0.1 to 11.8)	652 569	10 048 (8 595 to 11 773)	5.8 (3.1 to 8.2)
High-income North America	13 844 032	3 135	-25.1	(558 380 to 759 874) 33 970 923	6 653	-29.8
Canada	(12 097 284 to 15 788 708)	(2 751 to 3 565)	(-31.3 to -19.1)	(29 874 085 to 39 104 635)	(5 843 to 7 600)	(-35.2 to -24.4)
	1 465 341	3 277	8.2	3 462 624	6 663	6.7
Greenland	(1 307 300 to 1 647 918)	(2 892 to 3 738)	(2.5 to 13.7)	(3 094 832 to 3 919 349)	(5 909 to 7 547)	(5.2 to 8.4)
	2 551	4 297	-24.6	5 505	8 550	-28.9
USA	(2 274 to 2 851)	(3 841 to 4 806)	(-29.1 to -20.2)	(4 888 to 6 232)	(7 623 to 9 649)	(-30.7 to -27.2)
	12 375 898	3 122	-27.4	30 502 200	6 658	-32.3
	(10 788 202 to 14 145 067)	(2 734 to 3 561)	(-34.0 to -21.2)	(26 747 366 to 35 199 706)	(5 835 to 7 611)	(-37.9 to -26.6)
	2 187 890	3 250	-3.8	5 005 794	6 798	-7.5
Southern Latin America	(1 989 360 to 2 427 548)	(2 925 to 3 653)	(-8.0 to 0.3)	(4 420 487 to 5 653 636)	(5 978 to 7 711)	(-8.8 to -6.3)
	1 457 216	3 239	-1.9	3 379 374	6 972	-3.7
Argentina						

		Incidence (95% UI)			Prevalence (95% UI)	
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017
Uruguay	128 808	3 369	3.5	300 649	7 004	0.7
	(114 320 to 145 427)	(2 944 to 3 838)	(-1.8 to 9.5)	(267 360 to 340 315)	(6 155 to 7 964)	(-0.9 to 2.4)
Western Europe	21 483 909	4 267	-2.3	55 637 159	9 142	-1.0
	(19 383 395 to 24 007 380)	(3 704 to 4 935)	(-6.1 to 1.5)	(49 150 798 to 63 388 923)	(7 914 to 10 580)	(-1.7 to -0.3)
Andorra	3 866	4 572	1.0	10 590	9 820	0.7 (-0.8 to 2.3)
Austria	(3 443 to 4 350) 461 202	(3 965 to 5 256) 4 583	(-4.2 to 6.3) -17.1	(9 305 to 12 081) 1 202 772	(8 507 to 11 333) 9 745	-14.2
Belgium	(415 458 to 514 214)	(3 996 to 5 298)	(-22.9 to -11.2)	(1 064 397 to 1 370 161)	(8 420 to 11 288)	(-16.0 to -12.5)
	738 406	5 378	14.9	1 784 786	11 191	12.7
	(660 137 to 830 740)	(4 689 to 6 166)	(8.5 to 22.1)	(1 583 131 to 2 027 425)	(9 723 to 12 923)	(11.1 to 14.5)
	51 237	4 176	-0.3	142 633	9 203	0.5
Cyprus	(45 147 to 58 060)	(3 594 to 4 862)	(-5.0 to 5.1)	(123 796 to 163 843)	(7 900 to 10 664)	(-1.1 to 2.0)
Denmark	275 778	4 346	-8.0	714 858	9 312	0.8
	(243 153 to 312 177)	(3 729 to 5 072)	(-14.3 to -1.4)	(625 618 to 819 450)	(7 996 to 10 829)	(-1.2 to 2.7)
Finland	369 102	5 435	5.4	903 704	11 297	7.9
	(331 439 to 415 951)	(4 769 to 6 269)	(-0.8 to 12.7)	(805 416 to 1 030 509)	(9 869 to 13 082)	(6.3 to 9.4)
France	3 776 416	4 619	-8.4	9 019 607	9 718	-4.9
	(3 382 461 to 4 212 943)	(4 013 to 5 327)	(-13.3 to -2.8)	(8 009 442 to 10 268 965)	(8 426 to 11 223)	(-6.3 to -3.5)
Germany	4 435 165	4 447	-0.3	11 574 449	9 468	1.2
Greece	(3 996 472 to 4 949 163)	(3 852 to 5 147)	(-6.3 to 5.8)	(10 236 811 to 13 190 387)	(8 195 to 11 013)	(-0.2 to 2.9)
	416 500	3 861	-6.8	1 284 041	8 752	-5.3
Iceland	(372 994 to 465 633)	(3 281 to 4 522)	(-12.1 to -2.2)	(1 126 871 to 1 470 521)	(7 510 to 10 155)	(-6.9 to -3.8)
	15 625	4 378	3.3	39 418	9 493	3.5
	(13 869 to 17 665)	(3 786 to 5 075)	(-1.7 to 8.9)	(34 439 to 45 300)	(8 185 to 11 006)	(2.0 to 5.3)
	207 341	4 231	2.8	539 897	9 322	4.1
Ireland	(183 484 to 235 879)	(3 656 to 4 928)	(-2.0 to 7.5)	(470 349 to 623 617)	(8 053 to 10 887)	(2.1 to 6.1)
Israel	368 373	4 015	10.1	865 519	9 048	10.8
	(316 292 to 430 370)	(3 419 to 4 710)	(4.2 to 15.8)	(744 674 to 1 003 947)	(7 736 to 10 554)	(8.0 to 13.1)
Italy	2 841 180	3 802	-10.4	7 461 482	8 111	-9.2
	(2 553 045 to 3 170 734)	(3 331 to 4 382)	(-15.5 to -5.3)	(6 645 747 to 8 466 579)	(7 054 to 9 331)	(-11.0 to -7.4)
Luxembourg	30 368	4 700	-8.9	75 168	9 811	-9.2
	(27 401 to 34 096)	(4 101 to 5 407)	(-14.6 to -2.7)	(66 190 to 85 833)	(8 518 to 11 307)	(-10.7 to -7.6)
Malta	23 160	5 007	12.1	63 947	10 794	12.3
Netherlands	(20 873 to 25 814)	(4 347 to 5 720)	(6.0 to 18.4)	(56 382 to 73 093)	(9 349 to 12 567)	(9.9 to 14.3)
	721 872	3 676	4.1	1 765 054	7 565	1.5
Norway	(659 797 to 793 950)	(3 323 to 4 125)	(-4.2 to 13.2)	(1 573 989 to 2 000 060)	(6 616 to 8 739)	(-1.3 to 4.1)
	299 873	4 995	-1.6	749 990	10 815	-0.9
•	(259 974 to 339 786)	(4 301 to 5 752)	(-5.3 to 1.7)	(659 212 to 859 692)	(9 321 to 12 589)	(-2.2 to 0.1)
	371 169	3 112	-27.4	1 054 998	6 810	-29.7
Portugal	(330 725 to 415 610)	(2 695 to 3 627)	(-33.0 to -21.1)	(934 591 to 1 201 872)	(5 909 to 7 857)	(-31.5 to -27.7)
	1 922 262	3 826	-1.1	5 498 483	8 497	-1.1
Spain	(1716547 to 2154504)	(3 281 to 4 475)	(-6.2 to 4.5)	(4 826 112 to 6 271 470)	(7 306 to 9 828)	(-2.6 to 0.3)
Sweden	539 643	4 634	11.7	1 432 049	10 367	11.9
	(466 549 to 614 803)	(3 976 to 5 367)	(7.6 to 15.9)	(1 256 323 to 1 647 133)	(8 882 to 12 094)	(10.1 to 13.9)
Switzerland	497 728	4 594	-26.6	1 154 454	9 217	-27.3
	(458 772 to 547 216)	(4 167 to 5 142)	(-31.8 to -20.1)	(1 035 156 to 1 300 314)	(8 117 to 10 476)	(-29.2 to -25.2)
United Kingdom	3 095 384	4 290	14.4	8 241 612	9 419	15.2
	(2 704 973 to 3 500 866)	(3 678 to 4 985)	(10.8 to 17.9)	(7 220 907 to 9 439 086)	(8 109 to 10 926)	(13.8 to 16.9)
atin America and Caribbean	11 776 802	2 059	29.6	25 073 723	4 286	29.5
Andean Latin America	(10 571 218 to 13 159 361)	(1 843 to 2 297)	(26.4 to 32.8)	(22 386 743 to 28 287 435)	(3 837 to 4 840)	(27.5 to 31.9)
	975 728	1 642	25.7	1 984 980	3 444	23.2
Bolivia	(855 995 to 1 111 401)	(1 446 to 1 868)	(19.0 to 31.7)	(1 770 537 to 2 236 342)	(3 083 to 3 878)	(20.8 to 26.5)
	167 244	1 588	16.6	324 413	3 3 0 4	15.2
	(145 638 to 192 298)	(1 402 to 1 799)	(9.4 to 23.9)	(288 265 to 364 319)	(2 955 to 3 699)	(12.6 to 18.3)
	302 692	1 885	14.1	610 719	3 885	11.3
Ecuador	(267 916 to 343 348)	(1 674 to 2 130)	(6.1 to 23.3)	(548 029 to 688 230)	(3 497 to 4 371)	(8.9 to 14.1)
Peru	505 793	1 548	36.3	1 049 848	3 277	33.1
	(441 152 to 576 364)	(1 351 to 1 763)	(29.0 to 43.9)	(934 637 to 1 188 225)	(2 924 to 3 712)	(29.7 to 37.8)
Caribbean	823 052	1 716	30.0	1 707 204	3 441	30.0
	(731 226 to 928 599)	(1 520 to 1 940)	(24.5 to 36.3)	(1 528 010 to 1 923 194)	(3 077 to 3 885)	(27.4 to 33.3)
Antigua and Barbuda	1 293	1 430	42.2	2 985	3 007	39.7
	(1 114 to 1 493)	(1 238 to 1 655)	(36.2 to 48.7)	(2 642 to 3 371)	(2 658 to 3 400)	(35.5 to 43.8)
The Bahamas	5 595	1 537	30.7	12 017	3 099	31.0
Barbados	(4 897 to 6 403)	(1 352 to 1 757)	(24.4 to 36.4)	(10 665 to 13 559)	(2 762 to 3 504)	(27.2 to 35.2)
	4 873	1 457	39.7	11 917	3 033	38.5
Belize	(4 249 to 5 634)	(1 263 to 1 685)	(33.8 to 46.6)	(10 644 to 13 429)	(2 683 to 3 417)	(34.3 to 42.6)
	5 352	1 508	47.3	10 442	3 174	46.9
	(4 593 to 6 193)	(1 326 to 1 711)	(41.2 to 53.4)	(9 210 to 11 888)	(2 828 to 3 572)	(42.7 to 52.1)
	1 299	1 582	25.3	3 135	3 217	26.4
Bermuda	(1 140 to 1 494)	(1 381 to 1 818) 2 130	(19.3 to 31.4)	(2 801 to 3 560)	(2868 to 3645)	(23.0 to 30.1)
Cuba	315 328 (283 323 to 351 233)	(1 907 to 2 402)	27.8 (20.5 to 36.5)	625 959 (562 627 to 704 614)	3 886 (3 487 to 4 378)	25.9 (22.5 to 29.3)
Dominica	1 062	1 435	48.0	2 506	3 072	47.1
	(935 to 1 215)	(1 251 to 1 649)	(42.2 to 54.7)	(2 234 to 2 831)	(2 729 to 3 472)	(42.8 to 52.2)
Dominican Republic	146 235	1 453	50.0	311 474	3 115	44.4
	(125 939 to 168 242)	(1 259 to 1 673)	(43.2 to 57.1)	(274 376 to 353 721)	(2 754 to 3 534)	(39.6 to 49.9)
Grenada	1 881	1 535	37.3	4 271	3 2 19	38.0
	(1 662 to 2 132)	(1 342 to 1 749)	(30.4 to 43.9)	(3 822 to 4 821)	(2 871 to 3 624)	(33.5 to 42.3)
Guyana	11312	1642	37.5	22 743	3 361	36.8
Haiti	(9 939 to 12 961)	(1 452 to 1 866)	(30.1 to 44.8)	(20 250 to 25 523)	(3 008 to 3 766)	(32.4 to 41.1)
	128 573	1 285	30.2	245 488	2 707	29.7
	(109 188 to 150 412)	(1 119 to 1 474)	(23.2 to 37.2)	(215 380 to 277 676)	(2 414 to 3 025)	(26.2 to 33.3)
	40 860	1 475	46.0	94 065	3 219	43.3
Jamaica	(35 361 to 47 156)	(1 271 to 1 700)	(40.3 to 51.7)	(83 351 to 106 483)	(2 847 to 3 648)	(38.9 to 48.6)
	91 170	1 940	35.9	210 801	3 842	34.8
Puerto Rico	(81 236 to 102 808)	(1 700 to 2 212)	(28.4 to 44.5)	(188 473 to 238 359)	(3 426 to 4 333)	(31.4 to 38.7)
Saint Lucia	2 562	1 418	38.1	5 987	3 009	38.3
	(2 233 to 2 928)	(1 235 to 1 625)	(32.5 to 44.5)	(5 332 to 6 742)	(2 672 to 3 395)	(34.3 to 43.0)
Saint Vincent and the Grenadines	1 938	1 610	51.6	4 350	3 384	51.1
	(1 718 to 2 183)	(1 423 to 1 826)	(44.6 to 58.1)	(3 888 to 4 892)	(3 016 to 3 802)	(45.8 to 56.0)
Suriname	8 965	1 587	42.2	18 863	3 231	40.5
	(7 832 to 10 247)	(1 390 to 1 806)	(35.0 to 49.9)	(16 795 to 21 246)	(2 882 to 3 628)	(36.5 to 45.4)
Trinidad and Tobago	23 013	1 569	26.1	54 029	3 291	27.6
Virgin Islands	(20 156 to 26 218)	(1 367 to 1 785)	(19.2 to 33.6)	(48 180 to 60 799)	(2 933 to 3 699)	(24.4 to 31.8)
	2 144	1 690	37.2	4 781	3 262	32.6
Central Latin America	(1 889 to 2 437)	(1 482 to 1 926)	(31.3 to 43.6)	(4 253 to 5 437)	(2 908 to 3 696)	(28.6 to 36.4)
	4 365 274	1 810	10.9	8 704 856	3 576	9.9
	(3 891 450 to 4 938 440)	(1 614 to 2 044)	(7.1 to 15.0)	(7 732 689 to 9 912 609)	(3 182 to 4 074)	(8.0 to 12.4)
	639 271	1 261	-8.0	1 345 985	2 544	-6.2
Colombia	(563 674 to 733 681)	(1 105 to 1 448)	(-15.1 to -0.7)	(1 194 928 to 1 530 954)	(2 253 to 2 901)	(-8.6 to -3.9)
Costa Rica	73 314	1 586	8.6	145 159	2 958	13.2
	(65 346 to 82 701)	(1 406 to 1 802)	(1.8 to 15.8)	(129 533 to 163 783)	(2 635 to 3 348)	(10.7 to 16.4)
El Salvador	91 859	1 580	24.9	171 514	2 902	17.1
	(81 906 to 103 738)	(1 406 to 1 789)	(16.5 to 34.1)	(152 981 to 194 992)	(2 591 to 3 291)	(14.1 to 20.1)
Guatemala	208 164	1 461	8.2	382 640	2 862	6.9
Honduras	(180 559 to 240 469)	(1 292 to 1 657)	(1.8 to 15.3)	(335 380 to 439 929)	(2 556 to 3 250)	(4.5 to 10.0)
	100 651	1 193	29.3	190 567	2 497	23.2
	(86 007 to 118 499)	(1 046 to 1 376)	(22.2 to 36.4)	(165 033 to 221 735)	(2 195 to 2 843)	(19.8 to 27.0)
	2 697 567	2 276	20.2	5 357 266	4 482	17.6
Mexico	(2 389 537 to 3 043 225)	(2 016 to 2 566)	(15.8 to 24.9)	(4 779 128 to 6 112 974)	(4 002 to 5 130)	(15.1 to 21.1)
	73 151	1 300	17.1	137 756	2 537	16.6
Nicaragua	(63 266 to 85 697)	(1 141 to 1 497)	(10.7 to 24.2)	(120 960 to 157 881)	(2 251 to 2 872)	(13.4 to 19.8)

	Incidence (95% UI)				Prevalence (95% UI)		
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017	
Panama	53 215	1 359	13.6	107 674	2 706	16.1	
	(47 145 to 60 506)	(1 201 to 1 549)	(7.3 to 20.4)	(95 861 to 121 838)	(2 405 to 3 064)	(13.0 to 19.4)	
Venezuela	428 082	1 497	0.5	866 296	2 929	2.3	
	(375 802 to 486 515)	(1 318 to 1 707)	(-6.1 to 7.8)	(764 916 to 993 630)	(2 596 to 3 336)	(-0.5 to 5.3)	
Tropical Latin America	5 612 748	2 522	48.7	12 676 683	5 402	48.0	
	(5 035 668 to 6 288 061)	(2 266 to 2 814)	(44.6 to 52.8)	(11 247 927 to 14 408 324)	(4 803 to 6 117)	(44.5 to 51.8)	
Brazil	5 480 139	2 5 3 6	49.2	12 412 809	5 430	48.6	
Paraguay	(4 920 456 to 6 134 580)	(2 280 to 2 826)	(45.1 to 53.5)	(11 011 375 to 14 113 681)	(4 827 to 6 149)	(45.0 to 52.4)	
	132 608	2 032	28.0	263 875	4 287	20.6	
North Africa and Middle East	(113 800 to 152 872)	(1 776 to 2 311)	(21.8 to 33.9)	(232 752 to 298 429)	(3 805 to 4 829)	(17.6 to 23.8)	
	9 084 601	1 562	3.2	19 413 992	3 582	-0.1	
North Africa and Middle East	(7 746 853 to 10 562 639)	(1 349 to 1 793)	(-1.5 to 7.5)	(16 874 777 to 22 281 107)	(3 144 to 4 081)	(-1.5 to 1.6)	
	9 084 601	1 562	3.2	19 413 992	3 582	-0.1	
	(7 746 853 to 10 562 639)	(1 349 to 1 793)	(-1.5 to 7.5)	(16 874 777 to 22 281 107)	(3 144 to 4 081)	(-1.5 to 1.6)	
	503 769	1 528	-0.9	803 232	3 634	-2.2	
Afghanistan	(423 506 to 596 609)	(1 334 to 1 740)	(-5.7 to 4.0)	(687 686 to 939 871)	(3 203 to 4 134)	(-4.4 to 0.3)	
	591 550	1 504	-2.9	1 351 184	3 486	-4.3	
Algeria	(508 284 to 679 527)	(1 301 to 1 743)	(-8.2 to 3.1)	(1 176 579 to 1 553 355)	(3 049 to 3 982)	(-6.5 to -1.9)	
Bahrain	21 480	1 558	9.4	58 143	3 711	9.4	
	(18 176 to 25 283)	(1 317 to 1 838)	(3.7 to 15.5)	(49 952 to 67 491)	(3 217 to 4 280)	(6.0 to 12.8)	
Egypt	1 323 510	1 410	8.8	2 647 936	3 249	4.1	
	(1 115 031 to 1 559 706)	(1 215 to 1 627)	(2.7 to 14.7)	(2 288 775 to 3 056 336)	(2 844 to 3 701)	(1.3 to 6.9)	
Iran	1 344 586	1 701	7.9	3 229 617	3 899	5.1	
	(1 151 472 to 1 567 985)	(1 462 to 1 976)	(3.4 to 12.4)	(2 806 087 to 3 697 598)	(3 411 to 4 454)	(3.6 to 6.9)	
Iraq	626 536	1 378	14.2	1 218 473	3 437	19.4	
Jordan	(512 072 to 759 959)	(1 153 to 1 631)	(5.7 to 22.8)	(1 040 997 to 1 424 301)	(2 979 to 3 958)	(14.9 to 24.4)	
	147 491	1 384	1.7	293 031	3 230	-0.8	
Kuwait	(122 800 to 175 900)	(1 183 to 1 618)	(-5.1 to 8.0)	(250 836 to 341 424)	(2 805 to 3 700)	(-3.5 to 2.2)	
	74 673	1 815	-4.9	180 593	4 251	-4.9	
	(64 300 to 86 138)	(1 570 to 2 110)	(-10.3 to 0.5)	(156 081 to 207 999)	(3 720 to 4 860)	(-7.3 to -2.3)	
	134 232	1 631	8.9	273 078	3 572	9.1	
Lebanon	(113 643 to 158 436)	(1 407 to 1 906)	(2.7 to 15.0)	(234 315 to 317 558)	(3 109 to 4 104)	(5.8 to 13.0)	
	107 284	1 615	-6.0	230 536	3 622	-7.6	
Libya	(91 898 to 123 652)	(1 400 to 1 844)	(-11.6 to -0.6)	(200 236 to 265 410)	(3 175 to 4 132)	(-9.6 to -5.6)	
Morocco	487 872	1 408	8.7	1 149 026	3 275	5.5	
	(417 555 to 570 750)	(1 210 to 1 636)	(2.2 to 14.5)	(999 534 to 1 314 358)	(2 861 to 3 725)	(3.3 to 7.8)	
Palestine	70 758	1 431	3.7	130 092	3 397	3.8	
	(58 259 to 85 605)	(1 224 to 1 672)	(-2.6 to 10.1)	(112 403 to 150 085)	(2 969 to 3 871)	(1.8 to 5.9)	
Oman	66 261	1 582	5.3	148 726	3 574	5.4	
	(55 336 to 80 190)	(1 362 to 1 849)	(-0.5 to 11.3)	(126 285 to 174 723)	(3 109 to 4 112)	(2.7 to 8.1)	
Qatar	54 445	2 011	-3.2	125 405	4 603	-3.5	
	(45 831 to 64 277)	(1 744 to 2 313)	(-9.8 to 4.0)	(106 851 to 146 810)	(4 029 to 5 271)	(-6.1 to -0.1)	
Saudi Arabia	695 984	2 191	-6.4	1 412 818	4 688	-8.6	
Sudan	(606 109 to 802 551)	(1 922 to 2 493)	(-11.4 to -1.0)	(1 232 967 to 1 613 742)	(4 161 to 5 312)	(-10.5 to -6.9)	
	527 474	1 303	8.9	945 064	3 198	7.7	
Syria	(439 000 to 639 987)	(1 121 to 1 509)	(3.2 to 14.5)	(817 590 to 1 105 440)	(2 802 to 3 670)	(5.0 to 10.7)	
	259 893	1 404	23.4	543 105	3 328	20.8	
· · · · · · · · · · · · · · · · · · ·	(213 922 to 316 693)	(1 177 to 1 651)	(16.6 to 30.4)	(464 701 to 630 683)	(2 880 to 3 833)	(16.7 to 25.1)	
	163 409	1 474	8.3	413 032	3 377	4.6	
Tunisia	(140 390 to 189 712)	(1 256 to 1 722)	(2.8 to 15.0)	(359 236 to 473 833)	(2 932 to 3 881)	(1.8 to 7.4)	
	1 276 654	1 610	-11.6	3 045 977	3 515	-17.9	
Turkey	(1 112 675 to 1 452 784)	(1 393 to 1 859)	(-17.3 to -5.0)	(2 669 478 to 3 499 517)	(3 072 to 4 038)	(-21.1 to -14.7)	
United Arab Emirates	191 722	2 010	-15.0	495 721	4 616	-16.4	
	(161 644 to 226 252)	(1 743 to 2 313)	(-19.5 to -9.5)	(426 385 to 574 778)	(4 041 to 5 262)	(-18.3 to -14.2)	
Yemen	406 535	1 339	2.6	701 073	3 177	1.3	
	(337 920 to 490 550)	(1 157 to 1 546)	(-2.4 to 8.4)	(602 668 to 813 602)	(2 783 to 3 610)	(-1.1 to 4.3)	
South Asia	27 645 658	1 709	33.4	54 501 408	3 585	30.4	
	(23 929 866 to 31 790 195)	(1 495 to 1 959)	(27.9 to 38.9)	(48 091 376 to 61 867 360)	(3 184 to 4 064)	(28.2 to 32.9)	
South Asia	27 645 658	1 709	33.4	54 501 408	3 585	30.4	
	(23 929 866 to 31 790 195)	(1 495 to 1 959)	(27.9 to 38.9)	(48 091 376 to 61 867 360)	(3 184 to 4 064)	(28.2 to 32.9)	
Bangladesh	1 879 191	1 237	38.8	3 975 599	2 801	42.5	
	(1 600 626 to 2 201 983)	(1 064 to 1 431)	(30.2 to 47.4)	(3 470 520 to 4 541 326)	(2 465 to 3 176)	(36.9 to 48.5)	
Bhutan	13 737	1 627	12.6	26 689	3 383	9.9	
India	(12 000 to 15 729)	(1 439 to 1 836)	(6.1 to 19.7)	(23 565 to 30 111)	(3 020 to 3 804)	(7.3 to 12.7)	
	22 618 646	1 793	31.4	44 741 891	3 723	28.0	
Nepal	(19 574 098 to 26 132 069)	(1 567 to 2 059)	(25.8 to 37.1)	(39 434 255 to 50 716 561)	(3 313 to 4 225)	(25.9 to 30.4)	
	349 043	1 291	15.8	677 787	2 726	14.2	
·	(302 584 to 403 990)	(1 136 to 1 468)	(8.7 to 22.3)	(600 780 to 764 528)	(2 435 to 3 064)	(11.3 to 17.0)	
	2 785 040	1 475	44.9	5 079 442	3 244	39.4	
Pakistan	(2 384 681 to 3 254 158)	(1 288 to 1 681)	(37.3 to 52.4)	(4 444 064 to 5 736 010)	(2 879 to 3 654)	(35.6 to 43.1)	
	24 523 775	1 104	85.4	68 124 841	2 688	83.2	
Southeast Asia, East Asia, and Oceania	(21 530 658 to 27 957 854)	(971 to 1 262)	(77.8 to 93.1)	(60 201 836 to 77 289 748)	(2 375 to 3 036)	(75.8 to 91.0)	
East Asia	21 903 706	1 462	111.4	62 282 056	3 375	99.1	
	(19 252 383 to 24 912 373)	(1 275 to 1 672)	(102.8 to 121.3)	(54 985 517 to 70 760 535)	(2 972 to 3 834)	(90.5 to 108.9)	
China	21 032 439	1 477	113.2	59 820 373	3 411	100.4	
	(18 488 797 to 23 929 008)	(1 288 to 1 691)	(104.4 to 123.6)	(52 811 012 to 67 990 803)	(3 004 to 3 874)	(91.6 to 110.3)	
North Korea	239 052	935	78.5	661 540	2 211	80.9	
	(206 380 to 274 852)	(803 to 1 075)	(66.4 to 90.6)	(578 846 to 755 182)	(1 930 to 2 515)	(71.5 to 90.8)	
Taiwan (Province of China)	279 358 (248 092 to 214 981)	1 126 (978 to 1 288)	42.6	796 814	2 502	39.3	
Oceania	85 737 (73 350 to 101 145)	708 (616 to 824)	89.2 (80.1 to 08.0)	164 350	1690	91.9	
American Samoa	(73 359 to 101 145)	(616 to 824)	(80.1 to 98.9)	(144 178 to 187 668)	(1 498 to 1 916)	(83.9 to 101.8)	
	431	781	65.8	907	1 797	64.8	
Federated States of Micronesia	(366 to 508)	(672 to 910)	(56.4 to 75.0)	(795 to 1 029)	(1581 to 2037)	(58.6 to 72.1)	
	708	692	91.1	1 477	1637	92.3	
	(599 to 839)	(596 to 806)	(79.5 to 104.4)	(1 292 to 1 685)	(1 441 to 1 849)	(83.5 to 102.5)	
	6 054	670	100.9	13 907	1 612	100.3	
Fiji	(5 095 to 7 141)	(568 to 787)	(89.8 to 113.0)	(12 174 to 15 879)	(1 416 to 1 830)	(89.3 to 112.9)	
	1 534	907	89.5	3 579	2 031	89.2	
Guam	(1 334 to 1 783)	(791 to 1 052)	(80.3 to 100.3)	(3 165 to 4 029)	(1795 to 2 290)	(80.2 to 98.3)	
	685	574	118.0	1 402	1 450	118.7	
Kiribati	(567 to 832)	(481 to 688)	(104.1 to 134.7)	(1 223 to 1 598)	(1 274 to 1 647)	(105.5 to 133.5)	
Marshall Islands	385	702	99.7	770	1 653	100.3	
	(326 to 452)	(608 to 813)	(88.6 to 111.1)	(675 to 880)	(1 463 to 1 875)	(90.5 to 110.2)	
Northern Mariana Islands	379	833	59.3	972	1 873	58.5	
	(323 to 442)	(717 to 971)	(50.7 to 67.9)	(854 to 1 102)	(1 651 to 2 131)	(52.4 to 65.0)	
Papua New Guinea	58 834	661	102.3	109 907	1 583	103.8	
	(50 099 to 69 931)	(573 to 772)	(90.0 to 115.5)	(96 082 to 125 691)	(1 400 to 1 802)	(93.9 to 116.7)	
Samoa	1 438	739	92.7	2 872	1 752	93.1	
Solomon Islands	(1 211 to 1 710)	(632 to 856)	(82.3 to 104.1)	(2 521 to 3 273)	(1548 to 1989)	(84.6 to 103.5)	
	7 719	1 344	36.0	13 900	3051	37.6	
	(6 839 to 8 769)	(1 204 to 1 507)	(28.8 to 44.1)	(12 309 to 15 687)	(2 726 to 3 441)	(33.9 to 41.8)	
	719	704	89.1	1 526	1 678	93.9	
Tonga	(607 to 860)	(600 to 827)	(78.8 to 99.5)	(1 339 to 1 731)	(1478 to 1900)	(84.2 to 104.3)	
	2 126	776	94.3	4 075	1844	95.1	
Vanuatu	(1 813 to 2 511)	(673 to 900)	(84.1 to 105.9)	(3 591 to 4 632)	(1 644 to 2 077)	(86.7 to 104.3)	
Southeast Asia	2 534 331	398	15.0	5 678 435	882	16.2	
	(2 181 508 to 2 958 504)	(344 to 463)	(10.5 to 20.2)	(5 027 741 to 6 452 084)	(786 to 1 002)	(13.9 to 18.6)	
Cambodia	77 041	523	46.7	153 486	1 125	46.5	
	(66 794 to 89 252)	(461 to 598)	(37.1 to 56.8)	(136 024 to 174 333)	(1 004 to 1 277)	(42.3 to 50.8)	
Indonesia	652 968	273 (231 to 326)	-29.5 (-33.9 to -24.6)	1 478 919 (1 300 607 to 1 728 999)	613 (541 to 711)	-28.3 (-30.5 to -26.3)	

		Incidence (95% UI)			Prevalence (95% UI)		
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017	
Laos	27 395	426	63.0	54 750	966	59.0	
	(23 238 to 32 211)	(368 to 493)	(51.8 to 74.4)	(48 334 to 62 213)	(861 to 1 089)	(53.7 to 64.3)	
Malaysia	123 322	417	70.1	276 611	938	68.7	
	(102 861 to 147 763)	(351 to 496)	(58.7 to 81.8)	(243 961 to 317 962)	(832 to 1 075)	(60.2 to 76.9)	
Maldives	1 836	424	29.7	4 071	955	27.4	
	(1 528 to 2 213)	(359 to 498)	(20.1 to 42.1)	(3 578 to 4 670)	(845 to 1 086)	(23.2 to 32.1)	
Mauritius	5 928	463	60.0	16 068	1 053	57.5	
Myanmar	(5 154 to 6 933)	(397 to 544)	(50.0 to 70.4)	(14 236 to 18 316)	(929 to 1 199)	(51.0 to 64.2)	
	271 773	536	40.7	581 330	1 161	38.1	
	(238 553 to 312 106)	(473 to 610)	(33.3 to 49.9)	(516 566 to 655 758)	(1 038 to 1 306)	(34.2 to 41.8)	
	364 928	369	87.7	751 580	837	81.7	
Philippines	(308 087 to 434 894)	(315 to 433)	(74.5 to 102.1)	(658 588 to 863 634)	(738 to 955)	(73.7 to 89.5)	
	115 106	523	50.3	261 390	1 104	43.9	
Sri Lanka	(100 678 to 132 382)	(456 to 601)	(39.6 to 61.1)	(232 626 to 297 059)	(984 to 1 253)	(39.5 to 49.1)	
Seychelles	511	499	56.8	1 213	1 099	54.8	
	(445 to 595)	(432 to 582)	(47.7 to 67.1)	(1 071 to 1 375)	(974 to 1 246)	(49.2 to 61.2)	
Thailand	329 474	447	32.7	879 742	992	34.7	
	(283 509 to 380 917)	(382 to 523)	(23.6 to 42.8)	(782 178 to 999 750)	(880 to 1 125)	(30.2 to 39.9)	
Timor-Leste	5 119	428	80.3	9 540	970	72.9	
	(4 262 to 6 119)	(367 to 500)	(67.9 to 92.5)	(8 439 to 10 869)	(864 to 1 098)	(66.3 to 80.4)	
Vietnam	555 596	592	53.8	1 202 264	1 2 3 1	53.7	
b-Saharan Africa	(487 358 to 634 919)	(520 to 677)	(45.3 to 63.5)	(1 073 553 to 1 355 875)	(1 102 to 1 387)	(48.8 to 59.1)	
	13 312 641	1 585	0.6	22 179 916	3 365	1.3	
	(11 202 194 to 15 911 838)	(1 387 to 1 817)	(-3.4 to 4.5)	(19 338 138 to 25 333 682)	(2 988 to 3 792)	(0.2 to 2.3)	
	1 384 416	1 439	5.4	2 308 971	3 047	6.0	
Central sub-Saharan Africa	(1 159 424 to 1 647 365)	(1 254 to 1 643)	(0.8 to 10.0)	(2 016 706 to 2 627 336)	(2712 to 3 430)	(4.3 to 7.5)	
	337 738	1 645	1.8	534 079	3 357	-0.4	
Angola	(284 330 to 401 232)	(1 447 to 1 861)	(-3.3 to 7.2)	(469 414 to 607 797)	(2 988 to 3 776)	(-2.0 to 1.4)	
Central African Republic	49 775	1 302	7.5	87 815	2 816	10.8	
	(41 838 to 59 024)	(1 137 to 1 493)	(1.5 to 13.3)	(76 841 to 100 310)	(2 504 to 3 161)	(8.2 to 13.4)	
Congo (Brazzaville)	60 930	1 534	-1.8	109 468	3 169	-0.4	
	(51 862 to 71 202)	(1 332 to 1 753)	(-7.1 to 3.5)	(96 246 to 124 071)	(2 820 to 3 549)	(-2.2 to 1.3)	
DR Congo	894 868	1 365	6.9	1 507 505	2 9 4 1	8.4	
	(744 923 to 1 072 234)	(1 181 to 1 568)	(1.5 to 12.5)	(1 315 899 to 1 719 802)	(2 6 1 4 to 3 3 1 0)	(6.2 to 10.5)	
Equatorial Guinea	16 784	1 683	30.0	25 192	3 291	19.8	
Gabon	(14 064 to 20 174)	(1 477 to 1 916)	(22.8 to 37.4)	(22 071 to 28 725)	(2 930 to 3 707)	(17.0 to 22.7)	
	24 321	1 696	-11.4	44 911	3 471	-9.0	
	(20 955 to 28 161)	(1 485 to 1 929)	(-16.7 to -5.8)	(39 614 to 50 755)	(3 091 to 3 900)	(-10.6 to -7.3)	
	6 257 478	2 026	1.5	10 221 577	4 269	3.1	
Eastern sub-Saharan Africa	(5 253 032 to 7 503 431)	(1 780 to 2 315)	(-2.5 to 5.1)	(8 919 131 to 11 657 411)	(3 786 to 4 813)	(1.6 to 4.4)	
	159 367	1 835	-9.0	261 510	3 942	-4.5	
Burundi	(132 203 to 193 238)	(1 595 to 2 096)	(-14.6 to -3.7)	(227 444 to 300 475)	(3 496 to 4 447)	(-6.5 to -2.2)	
Comoros	12 392	1 952	-5.7	23 561	4 172	-5.1	
	(10 567 to 14 644)	(1 705 to 2 245)	(-11.2 to -0.5)	(20 684 to 26 718)	(3 707 to 4 708)	(-7.1 to -2.9)	
Djibouti	18 893	2 079	-5.5	36 025	4 390	-4.3	
	(16 201 to 22 165)	(1 830 to 2 378)	(-10.9 to 0.2)	(31 538 to 41 136)	(3 899 to 4 945)	(-5.9 to -2.5)	
Eritrea	93 626	2 028	2.5	154 710	4 167	1.8	
	(79 068 to 110 944)	(1 790 to 2 297)	(-2.8 to 8.1)	(134 738 to 177 045)	(3 708 to 4 675)	(0.2 to 3.6)	
Ethiopia	1 462 066	1 861	-7.3	2 378 021	3 908	-4.9	
Kenya	(1 219 718 to 1 768 436)	(1 614 to 2 167)	(-11.6 to -2.7)	(2 071 706 to 2 715 632)	(3 457 to 4 411)	(-6.6 to -3.1)	
	953 132	2 437	11.2	1 638 927	5 268	13.4	
	(803 115 to 1 132 723)	(2 121 to 2 803)	(6.8 to 15.1)	(1 417 177 to 1 896 755)	(4 636 to 6 012)	(11.2 to 15.6)	
	406 930	1 902	-2.5	679 831	4 120	-3.1	
Madagascar	(338 817 to 489 470)	(1 661 to 2 177)	(-8.6 to 3.0)	(591 095 to 777 498)	(3 638 to 4 638)	(-5.3 to -0.6)	
	267 854	1 932	1.1	436 216	3 998	2.8	
Malawi	(226 087 to 319 449)	(1 712 to 2 190)	(-3.7 to 6.2)	(382 584 to 498 067)	(3 554 to 4 498)	(0.7 to 4.7)	
Mozambique	489 770	2 152	9.9	748 843	4 364	7.1	
	(409 743 to 587 058)	(1 891 to 2 444)	(4.0 to 16.0)	(654 444 to 851 070)	(3 889 to 4 898)	(5.2 to 9.4)	
Rwanda	198 008	1 938	-8.4	338 370	4 053	-6.6	
	(166 126 to 238 037)	(1 699 to 2 225)	(-13.9 to -2.9)	(295 308 to 387 167)	(3 591 to 4 559)	(-8.7 to -4.8)	
Somalia	248 751	1 842	8.1	404 757	4 001	9.7	
	(206 588 to 303 438)	(1 608 to 2 109)	(2.9 to 12.8)	(351 109 to 464 115)	(3 534 to 4 505)	(7.7 to 11.9)	
South Sudan	160 057	2 035	1.6	255 470	4 3 4 7	4.4	
Tanzania	(134 678 to 194 096)	(1 785 to 2 337)	(-3.8 to 6.5)	(222 993 to 291 637)	(3 859 to 4 901)	(2.3 to 6.5)	
	906 582	2 099	2.6	1 496 145	4 362	3.4	
Uganda	(773 546 to 1 081 057)	(1 857 to 2 376)	(-2.9 to 8.0)	(1 310 157 to 1 703 384)	(3885 to 4911)	(1.7 to 5.0)	
	590 422	1 886	13.0	905 569	3998	15.1	
	(491 649 to 721 514)	(1 651 to 2 170)	(8.2 to 17.7)	(785 266 to 1 042 560)	(3 537 to 4 494)	(12.8 to 17.6)	
	285 704	2 193	-4.9	457 210	4 458	-3.7	
Zambia	(243 159 to 342 294)	(1 946 to 2 487)	(-10.1 to 0.4)	(398 984 to 525 604)	(3 965 to 5 011)	(-5.7 to -1.7)	
Southern sub-Saharan Africa	783 539	1 094	6.9	1 588 819	2 364	10.0	
	(660 901 to 927 509)	(939 to 1 277)	(3.4 to 10.3)	(1 386 207 to 1 814 625)	(2 084 to 2 685)	(8.2 to 12.1)	
Botswana	22 497	1 121	3.9	44 067	2 3 4 9	3.6	
	(18 858 to 26 839)	(961 to 1 304)	(-1.4 to 9.4)	(38 357 to 50 964)	(2 0 7 1 to 2 6 7 2)	(1.3 to 6.4)	
Lesotho	18 638	1 081	16.9	35 456	2 285	15.0	
	(15 651 to 22 158)	(933 to 1 248)	(12.1 to 21.9)	(30 871 to 40 448)	(2 018 to 2 583)	(12.6 to 17.9)	
Namibia	23 192	1 110	1.3	42 942	2 3 3 5	2.1	
South Africa	(19 459 to 27 532)	(959 to 1 289)	(-4.3 to 6.6)	(37 528 to 49 369)	(2 072 to 2 645)	(-0.3 to 4.7)	
	565 374	1 086	7.7	1 199 313	2 354	10.6	
Swaziland	(477 501 to 669 633)	(928 to 1 278)	(3.6 to 11.5)	(1 048 571 to 1 371 373)	(2 076 to 2 674)	(8.6 to 12.9)	
	10 647	1 102	6.1	18 886	2 314	6.7	
	(8 842 to 12 717)	(955 to 1 271)	(1.2 to 11.6)	(16 545 to 21 681)	(2 054 to 2 623)	(4.4 to 9.0)	
	143 192	1 168	6.8	248 155	2 469	9.9	
Zimbabwe	(119 532 to 172 513)	(1 018 to 1 349)	(1.1 to 11.7)	(214 732 to 283 358)	(2 181 to 2 789)	(7.3 to 12.4)	
	4 887 207	1 377	-4.6	8 060 548	2 964	-5.2	
Western sub-Saharan Africa	(4 090 246 to 5 814 346)	(1 202 to 1 573)	(-9.4 to 0.4)	(7 056 412 to 9 186 624)	(2 631 to 3 333)	(-6.3 to -4.1)	
Benin	124 717	1 291	-5.6	205 588	2 842	-4.7	
	(103 339 to 150 605)	(1 115 to 1 487)	(-11.7 to 0.0)	(178 823 to 234 573)	(2 513 to 3 193)	(-6.3 to -2.9)	
Burkina Faso	261 546	1 620	-4.0	421 164	3 334	-4.1	
	(224 754 to 307 546)	(1 436 to 1 830)	(-8.9 to 1.1)	(371 412 to 475 402)	(2 980 to 3 739)	(-5.7 to -2.5)	
Cameroon	316 255 (265 044 to 377 492)	1 382 (1 211 to 1 587)	-11.5 (-17.0 to -6.1)	524 826	2 977 (2 642 to 3 355)	-10.2 (-11.9 to -8.4)	
Cape Verde	6 5 7 9	1 222	11.6	(458 718 to 600 423) 13 633	2 709	9.8	
Chad	(5 539 to 7 758)	(1 049 to 1 425)	(6.7 to 16.3)	(12 003 to 15 484)	(2 396 to 3 067)	(7.4 to 12.1)	
	160 558	1 325	6.5	250 268	2 962	8.6	
	(132 985 to 194 187)	(1 156 to 1 520)	(1.0 to 11.8)	(218 617 to 283 549)	(2 625 to 3 329)	(6.3 to 10.9)	
	280 607	1 369	-8.3	486 432	2 991	-7.3	
Cote d'Ivoire	(235 856 to 334 523)	(1 193 to 1 563)	(-13.7 to -2.6)	(424 637 to 558 341)	(2 652 to 3 366)	(-8.9 to -5.3)	
	24 003	1 319	-2.8	40 273	2 885	-2.8	
The Gambia	(19 807 to 28 674)	(1 139 to 1 514)	(-8.4 to 2.0)	(35 115 to 45 899)	(2 554 to 3 246)	(-4.6 to -0.8)	
Ghana	393 890	1 584	10.2	689 807	3 246	6.3	
	(337 465 to 462 131)	(1 396 to 1 796)	(4.6 to 16.1)	(608 315 to 781 358)	(2 888 to 3 645)	(4.2 to 8.4)	
Guinea	129 686	1 304	-5.1	219 808	2 895	-4.5	
	(108 858 to 154 865)	(1 135 to 1 497)	(-10.2 to -0.2)	(192 536 to 250 433)	(2 573 to 3 263)	(-6.3 to -2.4)	
Guinea-Bissau	18 835	1 234	-11.3	31 297	2713	-10.4	
Liberia	(15 649 to 22 676)	(1 077 to 1 422)	(-16.9 to -5.9)	(27 174 to 36 023)	(2 397 to 3 059)	(-12.2 to -8.7)	
	49 085	1 204	-7.6	84 817	2 702	-6.5	
	(40 484 to 59 226)	(1 038 to 1 400)	(-14.3 to -1.4)	(73 614 to 97 168)	(2 374 to 3 044)	(-8.4 to -4.5)	
	214 790	1 276	-3.2	346 839	2 841	-2.7	
Mali	(176 951 to 259 269)	(1 103 to 1 469)	(-9.5 to 2.4)	(302 244 to 397 309)	(2 504 to 3 208)	(-5.0 to -0.6)	
	45 865	1 352	-11.8	79 675	2 965	-10.2	
Mauritania	(38 411 to 54 923)	(1 175 to 1 566)	-11.8 (-17.7 to -5.4)	(69 860 to 90 178)	(2 635 to 3 323)	-10.2 (-12.0 to -8.1)	

	Incidence (95% UI)			Prevalence (95% UI)		
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017
Niger	216 174	1 248	-5.5	331 276	2 805	-5.1
	(176 516 to 268 586)	(1 081 to 1 452)	(-11.6 to 1.0)	(288 335 to 378 987)	(2 485 to 3 159)	(-7.0 to -3.1)
Nigeria	2 309 653	1 370	-5.9	3 751 042	2 937	-7.2
	(1 926 332 to 2 758 290)	(1 183 to 1 576)	(-12.0 to -0.1)	(3 287 478 to 4 287 688)	(2 604 to 3 310)	(-8.9 to -5.4)
Sao Tome and Principe	3 436	1 975	-1.4	6 000	4 192	-6.3
	(3 000 to 3 979)	(1 755 to 2 234)	(-7.1 to 4.9)	(5 300 to 6 800)	(3 724 to 4 736)	(-8.5 to -4.0)
Senegal	166 558	1 331	-6.9	290 933	2 917	-7.1
	(139 141 to 197 758)	(1 155 to 1 532)	(-12.4 to -0.5)	(255 447 to 329 724)	(2 597 to 3 276)	(-8.6 to -5.5)
Sierra Leone	83 184	1 258	-5.6	142 636	2 772	-5.8
	(69 008 to 99 780)	(1 086 to 1 447)	(-11.5 to -0.2)	(124 135 to 162 832)	(2 449 to 3 129)	(-7.6 to -4.1)
Togo	81 738	1 256	-5.8	144 156	2 754	-5.0
	(67 864 to 98 041)	(1 088 to 1 452)	(-11.7 to -0.1)	(125 451 to 164 284)	(2 438 to 3 094)	(-6.8 to -3.0)

Table 2: Mortality for 2017 and percentage change o	fage-standardised rates betwee	en 1990 and 2017 by location for falls				
	Mortality (95% UI)					
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017			
Global	695 771	9.2	-5.9			
	(644 927 to 741 720) 93 850	(8.5 to 9.8) 15.1	(-13.7 to 3.5) -10.8			
Low SDI	(86 459 to 104 963)	(13.9 to 17.1)	(-22.4 to 6.0)			
Low-middle SDI	157 311 (144 698 to 175 240)	15.3 (14.1 to 17.2)	-2.7 (-19.3 to 18.3)			
Middle SDI	192 591	10.1	-8.3			
High-middle SDI	(167 707 to 212 051) 105 593	(8.9 to 11.0) 6.7	(-17.6 to 5.7) -2.2			
	(93 147 to 112 263) 143 826	(5.9 to 7.1) 5.7	(-19.4 to 9.2) -16.6			
High SDI	(140 311 to 147 243)	(5.6 to 5.9)	(-18.8 to -14.4)			
entral Europe, Eastern Europe, and Central Asia	35 374 (34 224 to 36 301)	6.3 (6.1 to 6.5)	-25.8 (-28.2 to -23.6)			
Central Asia	2 868	3.6	-33.5			
	(2 682 to 3 094) 88	(3.4 to 3.9) 2.4	(-38.0 to -27.9) -68.5			
Armenia	(83 to 94)	(2.2 to 2.5)	(-71.1 to -65.8)			
Azerbaijan	258 (205 to 360)	2.9 (2.3 to 3.8)	-32.3 (-48.4 to -3.1)			
Georgia	262	5.1	-17.4			
	(243 to 280) 780	(4.7 to 5.4) 4.5	(-24.8 to -9.6) -18.0			
Kazakhstan	(706 to 851)	(4.1 to 4.8)	(-25.3 to -11.0)			
Kyrgyzstan	132 (120 to 144)	2.5 (2.3 to 2.7)	-65.3 (-68.5 to -61.8)			
Mongolia	206	6.9	-9.1			
Tajikistan	(149 to 253) 311	(5.1 to 8.4) 4.0	(-27.4 to 14.5) -34.6			
талкізсан	(269 to 388) 106	(3.5 to 4.9) 2.6	(-45.7 to -11.4) -35.7			
Turkmenistan	(94 to 118)	(2.3 to 2.8)	-33.7 (-43.5 to -28.0)			
Uzbekistan	725 (635 to 820)	2.9 (2.6 to 3.3)	-36.1 (-43.7 to -28.2)			
Central Europe	14 438	7.1	-47.0			
·	(13 990 to 14 908) 80	(6.9 to 7.4) 2.2	(-48.9 to -45.0) -3.1			
Albania	(64 to 101)	(1.8 to 2.7)	(-24.2 to 21.2)			
Bosnia and Herzegovina	118 (103 to 136)	2.2 (2.0 to 2.5)	-21.3 (-41.6 to 15.0)			
Bulgaria	501	4.2	-30.7			
<u> </u>	(462 to 540) 1 150	(3.9 to 4.6) 12.8	(-36.3 to -24.6) 24.9			
Croatia	(1 072 to 1 237)	(11.9 to 13.7)	(14.4 to 35.9)			
Czech Republic	1 461 (1 346 to 1 580)	7.2 (6.6 to 7.7)	-72.5 (-74.6 to -70.2)			
Hungary	1874	9.4	-69.1			
Macedonia	(1 767 to 1 984) 99	(8.8 to 9.9) 3.2	(-71.1 to -67.1) 36.5			
Macedonia	(80 to 112)	(2.6 to 3.7)	(-12.3 to 73.0)			
Montenegro	26 (22 to 30)	2.9 (2.5 to 3.4)	-19.0 (-31.6 to -4.0)			
Poland	5 567 (5 195 to 5 967)	8.2 (7.7 to 8.8)	-31.9 (-36.9 to -26.3)			
Romania	1 677	5.4	-39.8			
	(1 567 to 1 787) 584	(5.0 to 5.8) 3.9	(-44.2 to -35.6) 3.2			
Serbia	(485 to 649)	(3.3 to 4.3)	(-11.3 to 19.9)			
Slovakia	758 (638 to 856)	9.1 (7.7 to 10.3)	-46.1 (-53.3 to -34.9)			
Slovenia	543	11.6	-33.3			
2.2.3.00	(501 to 589)	(10.7 to 12.5)	(-38.9 to -27.2)			

		Mortality (95% UI)					
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017				
Eastern Europe	18 067 (17 367 to 18 629)	6.3 (6.0 to 6.5)	-0.6 (-4.5 to 2.5)				
Belarus	982	7.3	7.7				
	(884 to 1 076) 119	(6.5 to 8.0) 5.4	(-3.6 to 18.5) -54.6				
Estonia	(103 to 136)	(4.7 to 6.2)	(-61.0 to -47.6)				
Latvia	244 (216 to 274)	7.3 (6.4 to 8.2)	-49.5 (-55.9 to -42.8)				
Lithuania	474 (441 to 506)	9.5 (8.8 to 10.2)	-17.3 (-23.9 to -10.2)				
Moldova	249	4.8	-45.9				
Russian Federation	(232 to 267) 12 477	(4.5 to 5.2) 6.3	(-49.8 to -41.7) 11.6				
	(12 058 to 12 822) 3 522	(6.1 to 6.5) 5.8	(4.9 to 15.3) -16.7				
Ukraine	(3 290 to 3 790)	(5.4 to 6.3)	(-22.8 to -9.3)				
High-income	131 213 (127 836 to 134 821)	5.4 (5.3 to 5.6)	-12.9 (-15.4 to -10.4)				
Australasia	3 739	6.5	32.1				
	(3 431 to 4 043) 3 172	(5.9 to 7.0) 6.5	(20.8 to 44.4) 41.8				
Australia	(2 863 to 3 476)	(5.8 to 7.1)	(28.0 to 58.0)				
New Zealand	567 (527 to 610)	6.6 (6.1 to 7.1)	0.6 (-7.2 to 8.7)				
High-income Asia-Pacific	16 160	3.4	-24.1				
P i	(15 448 to 16 859)	(3.2 to 3.5) 5.9	(-27.9 to -20.1) -16.5				
Brunei	(17 to 22)	(5.3 to 7.0)	(-29.7 to 2.7)				
Japan	12 142 (11 671 to 12 623)	2.9 (2.8 to 3.1)	-20.3 (-23.7 to -16.6)				
South Korea	3 834 (3 477 to 4 196)	5.0 (4.6 to 5.5)	-22.1 (-29.6 to -14.5)				
Singapore	165	2.6	-26.8				
	(151 to 179) 44 300	(2.3 to 2.8) 6.6	(-33.5 to -20.1) 57.2				
High-income North America	(43 240 to 45 357)	(6.4 to 6.7)	(52.9 to 61.3)				
Canada	5 922 (5 481 to 6 406)	7.6 (7.0 to 8.2)	22.0 (11.6 to 33.0)				
Greenland	8	15.8	-22.5				
USA	(8 to 10) 38 368	(14.3 to 18.0) 6.4	(-33.1 to -7.7) 61.0				
USA	(37 389 to 39 312)	(6.3 to 6.6) 3.8	(56.5 to 65.2) -22.9				
Southern Latin America	3 143 (2 919 to 3 379)	3.8 (3.5 to 4.1)	-22.9 (-29.0 to -16.5)				
Argentina	1 619 (1 464 to 1 798)	3.0 (2.7 to 3.3)	-37.6 (-44.0 to -30.4)				
Chile	1 274	5.6	(-44.0 to -30.4) 8.8				
	(1 147 to 1 411) 250	(5.0 to 6.2) 4.2	(-3.1 to 20.9) -16.3				
Uruguay	(223 to 277)	(3.8 to 4.7)	(-25.8 to -5.9)				
Western Europe	63 871 (61 445 to 66 265)	5.9 (5.7 to 6.1)	-28.2 (-31.3 to -25.1)				
Andorra	9	5.6	-16.0				
	(7 to 11) 1 408	(4.6 to 6.9) 7.1	(-31.2 to 3.6) -43.8				
Austria	(1 302 to 1 522)	(6.6 to 7.6)	(-48.3 to -39.1) 9.5				
Belgium	2 156 (1 993 to 2 329)	8.1 (7.5 to 8.7)	9.5 (0.1 to 19.2)				
Cyprus	87 (75 to 98)	4.7	-36.1				
Denmark	827	(4.1 to 5.3) 6.5	(-47.6 to -18.9) -58.7				
	(765 to 898) 1 339	(6.0 to 7.0) 10.2	(-62.1 to -54.6) -15.1				
Finland	(1 252 to 1 433)	(9.5 to 10.9)	(-21.4 to -8.0)				

	Mortality (95% UI)					
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017			
France	13 812	7.8	-38.6			
	(12 711 to 14 953)	(7.2 to 8.4)	(-44.1 to -32.5)			
Germany	14 328	6.5	-23.6			
·	(12 997 to 15 881)	(5.9 to 7.2)	(-31.9 to -14.6)			
	672	2.8	-41.0			
Greece	(626 to 723)	(2.6 to 3.0)	(-45.2 to -36.6)			
Iceland	35	5.8	-7.1			
	(33 to 38)	(5.4 to 6.2)	(-14.7 to 1.5)			
Ireland	323	4.4	-32.5			
	(296 to 352)	(4.0 to 4.8)	(-38.4 to -25.6)			
Israel	369	2.9	-29.3			
	(339 to 399)	(2.7 to 3.2)	(-35.4 to -22.5)			
Italy	7 665	4.2	-45.4			
	(7 068 to 8 314)	(3.9 to 4.5)	(-50.0 to -40.4)			
Luxembourg	82	7.7	-17.0			
Malta	(73 to 92)	(6.9 to 8.6)	(-26.8 to -6.6)			
	55	6.4	-17.8			
	(51 to 60)	(5.9 to 6.9)	(-25.2 to -10.0)			
	3 465	9.2	41.6			
Netherlands	(3 203 to 3 740)	(8.6 to 10.0)	(29.3 to 55.3)			
Norway	1 014	8.8	-21.4			
	(973 to 1 055)	(8.4 to 9.2)	(-25.1 to -17.9)			
Portugal	784	3.2	-52.4			
	(722 to 843)	(2.9 to 3.4)	(-56.6 to -48.4)			
Spain	3 996	3.6	-19.7			
	(3 708 to 4 301)	(3.3 to 3.8)	(-26.0 to -13.5)			
	1 670	6.6	2.8			
Sweden	(1 560 to 1 786)	(6.2 to 7.0)	(-4.8 to 11.1)			
Switzerland	1 929	9.3	-41.1			
	(1 785 to 2 083)	(8.6 to 10.0)	(-46.0 to -35.7)			
United Kingdom	7 781	5.4	12.3			
	(7 617 to 7 958)	(5.3 to 5.6)	(9.5 to 15.1)			
Latin America and Caribbean	35 929	6.5	-22.5			
Andean Latin America	(34 977 to 36 769)	(6.3 to 6.6)	(-25.0 to -20.3)			
	2 568	4.6	-14.8			
	(2 263 to 2 824)	(4.1 to 5.1)	(-27.1 to -3.1)			
	518	6.2	-22.0			
Bolivia	(387 to 653)	(4.7 to 7.8)	(-38.3 to -0.3)			
Ecuador	966	6.5	-19.8			
	(870 to 1 070)	(5.9 to 7.2)	(-27.8 to -10.6)			
Peru	1 084	3.4	-5.8			
	(818 to 1 312)	(2.6 to 4.1)	(-34.1 to 20.5)			
Caribbean	3 800	7.4	2.8			
Antique and Deskude	(3 485 to 4 103)	(6.8 to 8.0)	(-5.5 to 11.6)			
	2	2.2	7.9			
Antigua and Barbuda	(2 to 2)	(2.1 to 2.4)	(-3.0 to 20.0)			
	13	4.1	7.9			
The Bahamas	(12 to 15)	(3.7 to 4.5)	(-3.5 to 20.7)			
Barbados	13	2.7	9.9			
	(12 to 14)	(2.5 to 3.0)	(-1.2 to 21.5)			
Belize	12	4.5	11.4			
	(11 to 12)	(4.1 to 4.8)	(-2.3 to 24.8)			
Bermuda	4	3.0	-17.7			
	(3 to 4)	(2.7 to 3.2)	(-26.5 to -8.7)			
Cuba	2 592	12.9	12.2			
Dominica	(2 341 to 2 852)	(11.6 to 14.2)	(0.4 to 25.2)			
	3	3.3	37.0			
Dominican Republic	(3 to 3)	(3.0 to 3.6)	(22.0 to 52.3)			
	188	2.0	-17.1			
	(152 to 245)	(1.6 to 2.6)	(-34.3 to 13.9)			
	7	4.3	-4.6			
Grenada	(7 to 8)	(4.0 to 4.6) 7.3	(-13.6 to 5.1) -2.6			
Guyana	(35 to 45)	7.3 (6.5 to 8.2)	-2.6 (-15.1 to 10.8)			

	Mortality (95% UI)					
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017			
Haiti	315	5.6	-17.1			
lamaisa	(223 to 425) 69	(4.1 to 7.6) 2.2	(-32.6 to 2.3) 35.0			
Jamaica	(57 to 79)	(1.8 to 2.6)	(9.5 to 58.0)			
Puerto Rico	304 (280 to 328)	4.3 (3.9 to 4.6)	0.9 (-7.6 to 10.0)			
Saint Lucia	6	3.2	-4.6			
Saint Vincent and the Grenadines	(6 to 7) 7 (7 to 8)	(2.9 to 3.4) 5.3 (4.8 to 5.7)	(-13.6 to 5.5) 24.8 (11.9 to 38.9)			
Suriname	27	5.2	10.5			
Trinidad and Tobago	(24 to 30) 54	(4.7 to 5.8) 3.3	(-3.0 to 23.9) -26.5			
minuau anu robago	(44 to 64) 8	(2.8 to 4.0) 5.2	(-39.5 to -12.4) 5.2			
Virgin Islands	(7 to 9)	(4.4 to 5.8)	(-13.8 to 22.4)			
Central Latin America	12 069 (11 495 to 12 478)	5.3	-43.0 (46.7±0.40.8)			
Colombia	1 808	(5.0 to 5.4) 3.4	(-46.7 to -40.8) -52.6			
Colonibia	(1 606 to 2 037)	(3.0 to 3.8)	(-58.3 to -46.5)			
Costa Rica	324 (289 to 350)	6.4 (5.7 to 7.0)	-32.7 (-40.5 to -25.7)			
El Salvador	486	8.2	-8.1			
	(398 to 582) 849	(6.7 to 9.8) 7.7	(-25.8 to 22.2) -27.5			
Guatemala	(754 to 946)	(6.9 to 8.5)	(-36.1 to -18.8)			
Honduras	185	3.0 (2.2 to 4.2)	-18.5			
Moving	(139 to 253) 6 827	6.2	(-42.7 to 15.2) -43.3			
Mexico	(6 405 to 7 016)	(5.8 to 6.4)	(-47.9 to -41.5)			
Nicaragua	220 (190 to 253)	4.7 (4.1 to 5.4)	-19.2 (-30.8 to -2.9)			
Panama	154	3.8	-32.5			
	(142 to 167) 1 216	(3.5 to 4.1) 4.6	(-39.0 to -25.6) -35.4			
Venezuela	(1 064 to 1 400)	(4.0 to 5.2)	(-43.9 to -25.6)			
Tropical Latin America	17 493 (16 920 to 17 936)	7.9 (7.7 to 8.1)	-8.2 (-11.8 to -5.2)			
Brazil	17 200	8.0	-8.8			
5.02	(16 626 to 17 651) 293	(7.7 to 8.2) 5.8	(-12.5 to -5.8) 34.2			
Paraguay	(224 to 349)	(4.5 to 7.0)	(1.7 to 69.1)			
North Africa and Middle East	21 444	4.9	-19.0			
	(17 796 to 23 324) 21 444	(4.0 to 5.4) 4.9	(-28.7 to 5.0) -19.0			
North Africa and Middle East	(17 796 to 23 324)	(4.0 to 5.4)	(-28.7 to 5.0)			
Afghanistan	2 540 (2 091 to 3 098)	13.8 (12.0 to 16.0)	-20.1 (-40.7 to 38.9)			
Algeria	1 274	3.7	-18.9			
Aigeria	(1 017 to 1 635) 18	(3.1 to 4.7) 1.6	(-31.9 to 7.1) -37.9			
Bahrain	(12 to 22)	(1.2 to 2.0)	-57.9 (-50.1 to -15.4)			
Egypt	2 750	4.4 (3.1 to 5.8)	-13.5			
Iran	(1 971 to 3 597) 2 715	3.9	(-31.5 to 10.3) -26.3			
	(2 547 to 3 135) 352	(3.7 to 4.5) 1.3	(-36.1 to -5.2) -56.9			
Iraq	(308 to 427)	(1.1 to 1.4)	-50.9 (-69.2 to -34.3)			
Jordan	165	2.4	-34.2			
Vsit	(144 to 192) 94	(2.1 to 2.8) 2.4	(-46.8 to -14.1) -23.9			
Kuwait	(84 to 105)	(2.1 to 2.6)	(-32.0 to -14.8)			
Lebanon	304 (186 to 496)	5.8 (3.6 to 8.8)	-25.0 (-52.7 to 12.3)			

		Mortality (95% UI)					
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017				
Libya	239 (149 to 325)	4.6 (3.0 to 6.2)	-15.5				
Morocco	1 251	4.1	(-46.5 to 13.4) -11.3				
	(975 to 1 571) 115	(3.2 to 5.1) 3.5	(-28.9 to 16.7) -29.9				
Palestine	(82 to 137)	(2.8 to 4.0)	(-43.9 to -11.4)				
Oman	75 (60 to 93)	3.2 (2.5 to 3.9)	-26.8 (-47.4 to 6.6)				
Qatar	78 (41 to 108)	3.6 (2.6 to 4.6)	-25.3 (-46.1 to 3.6)				
Saudi Arabia	1 785	8.8	-18.4				
	(1 159 to 2 522) 1 199	(5.5 to 12.2) 4.5	(-52.1 to 33.1) -21.8				
Sudan	(886 to 1 609)	(3.3 to 6.1)	(-41.9 to 10.4)				
Syria	274 (218 to 337)	2.1 (1.7 to 2.7)	-24.1 (-41.8 to 3.1)				
Tunisia	347	3.1	-17.6				
Turkey	(265 to 434) 4 536	(2.4 to 3.9) 5.4	(-37.2 to 10.0) -25.1				
Turkey	(3 290 to 5 270) 423	(3.9 to 6.2) 4.6	(-40.6 to 5.8) -23.1				
United Arab Emirates	(228 to 610)	(3.1 to 6.0)	(-51.1 to 18.4)				
Yemen	889 (610 to 1 225)	4.9 (3.3 to 6.5)	-16.1 (-40.0 to 42.5)				
South Asia	239 791	22.0	-2.7				
	(220 244 to 270 634) 239 791	(20.0 to 25.0) 22.0	(-19.6 to 20.4) -2.7				
South Asia	(220 244 to 270 634)	(20.0 to 25.0)	(-19.6 to 20.4)				
Bangladesh	6 304 (5 349 to 7 374)	5.9 (5.1 to 6.8)	-28.9 (-48.0 to 0.1)				
Bhutan	95	17.6	-22.9				
India	(70 to 124) 221 298	(13.1 to 22.3) 25.4	(-40.3 to 4.6) -7.4				
IIIuIa	(201 395 to 251 201) 2 911	(23.0 to 29.2) 16.4	(-23.6 to 15.4) -12.5				
Nepal	(2 253 to 3 619)	(12.8 to 20.1)	-12.5 (-29.5 to 13.6)				
Pakistan	9 182	8.8 (6.0 to 11.2)	-0.3 (-31.3 to 41.4)				
Southeast Asia, East Asia, and Oceania	(6 111 to 11 763) 193 933	8.9	-3.8				
	(158 885 to 209 800) 140 843	(7.4 to 9.6) 8.5	(-24.8 to 12.1) 12.1				
East Asia	(107 347 to 155 273)	(6.6 to 9.3)	(-23.6 to 32.2)				
China	134 773 (102 016 to 148 952)	8.6 (6.7 to 9.5)	12.8 (-23.9 to 33.4)				
North Korea	1 757	6.7	28.5				
Taiwan (Province of China)	(1 355 to 2 219) 2 045	(5.2 to 8.3) 5.7	(-5.1 to 68.0) -26.7				
Taiwan (Province of China)	(1 921 to 2 182)	(5.3 to 6.0) 7.5	(-31.8 to -21.2)				
Oceania	506 (367 to 661)	7.5 (6.0 to 9.0)	12.7 (-7.0 to 33.9)				
American Samoa	2 (1 to 2)	4.8	5.7				
Federated States of Micronesia	(1 to 2) 4	(4.2 to 5.4) 6.1	(-13.7 to 29.8) 11.9				
	(3 to 5) 21	(4.7 to 7.4)	(-16.6 to 45.6) 7.4				
Fiji	(18 to 24)	(3.0 to 3.9)	(-13.9 to 42.0)				
Guam	7 (6 to 8)	4.6 (4.0 to 5.2)	26.8 (-0.6 to 57.4)				
Kiribati	2	2.4	-0.8				
	(1 to 2) 2	(1.9 to 2.9) 7.0	(-18.0 to 19.4) 16.9				
Marshall Islands	(1 to 3)	(5.6 to 8.6)	(-9.0 to 47.1)				
Northern Mariana Islands	2 (2 to 2)	5.2 (4.4 to 5.9)	4.2 (-22.9 to 32.0)				

December 100,000 2017 generated relied rates per 100,000 1990 and 2017 20.3 20.			Mortality (95% UI)							
Pagua New Journea (193 to 460)	Location	2017 counts		standardised rates between						
Samoa 7	Papua New Guinea									
Solomon Islands	Samoa									
Solimon Islands										
Tonga G 10 G 12 G 2	Solomon Islands	(85 to 119)	(27.0 to 35.4)	(-28.5 to 8.1)						
Vanuatu	Tonga	· · · · · · · · · · · · · · · · · · ·								
Southeast Asia	Vanuatu		6.2	22.6						
(49148 to 57098) (9.8 to 11.3) (39.8 to 13.0) (1.6 to 1.6	Southeast Asia									
Cambodia (1.452 to 1.944) (1.5.3 to 2.0.1) (2.3.7 to 17.9)	Journe ast Asia									
Indonesia (16 924 to 20 366) (10.1 to 12.0) (5.6 fo 2.8.5) (3.6 to .28.5) (406) (9.9) (5.5) (3.8 to 3.9.9) (3.8 to 3.8) (3.8 to 5.7) (4.4 to 5.7) (5.8 to 8.6) (5.8 to 5.9) (3.9 to 5.8) (3.8 to 5.9) (3.9 to 5.8) (3.8 to 5.9) (3.9 to 5.9)	Cambodia		_							
Laos	Indonesia	_								
Malaysia 831 3.8 -18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.3 18.5 18.5 19.5	Laos	406	9.9	5.5						
Malaysia (626 to 978) (2.9 to 4.5) (36.6 to 14.4) Maldives 15 5.0 44.2 (13 to 17) (4.4 to 5.7) (-58.7 to -8.6) Mauritius 65 4.4 31.5 (59 to 72) (3.9 to 4.8) (17.8 to 5.4) Myanmar 6872 17.4 -15.7 (5953 to 7929) (15.3 to 19.9) (32.6 to 7.9) Philippines 3921 6.2 57.5 Sir Lanka (1783 to 2 568) (8.7 to 12.3) (27.4 to 24.6) Seychelles 6 6.2 3.6 Seychelles (5 to 7) (5.2 to 7.1) (21.4 to 13.8) Thailand 3602 4.0 -50.6 Seychelles (5 to 7) (5.2 to 7.1) (21.4 to 13.8) Timor-Leste 63 8.4 18.6 (6.1 to -32.0) Timor-Leste (16 to 14.43) (3.5 to 4.6) (6.01 to -32.0) (6.7 to 10.2) (15.9 to 6.4) Vietnam (14 662 18.0 2.7 (7.1 to 7.7) (6.7 to 10.2										
Maidrives (13 to 17) (4.4 to 5.7) (-58 7 to -8.6) Mauritius 65 4.4 31.5 (59 to 72) (3.9 to 4.8) (17.8 to 45.4) Myanmar 6 872 17.4 -15.7 (5953 to 7929) (15.3 to 19.9) (32.6 to 7.9) Philippines 3 921 6.2 57.5 (5 478 to 4411) (5.5 to 6.9) (39.7 to 77.6) Sri Lanka (1783 to 2568) (8.7 to 12.3) (27.4 to 24.6) Seychelles 6 6.2 -3.6 Seychelles 6 6.2 -3.6 Seychelles 6 6.2 -3.6 Thailand 3 602 4.0 -50.6 Thailand (3 (15 to 4.143) (3.5 to 4.6) (60.1 to 32.0) Timor-Leste (47 to 77) (5.7 to 10.2) (15.9 to 60.4) Vietnam (14 662 18.0 2.7 Vietnam (12 524 to 17 136) (15.4 to 21.0) (-26.5 to 29.4) Sub-Saharan Africa 3 387 7.5 8.1 <td>Malaysia</td> <td>(626 to 978)</td> <td>(2.9 to 4.5)</td> <td>(-36.6 to 14.4)</td>	Malaysia	(626 to 978)	(2.9 to 4.5)	(-36.6 to 14.4)						
Mauritius 65 (Spit 072) (Spit 072) (3.9 to 4.8) (17.8 to 45.4) Myanmar 6 872 (5953 to 7929) (15.3 to 19.9) (32.6 to 7.9) Philippines 3 921 (5.2 to 5.9) 6.2 57.5 Philippines (3 478 to 4411) (5.5 to 6.9) (39.7 to 77.6) 3.3 (17.8 to 4411) (5.5 to 6.9) (39.7 to 77.6) Sri Lanka (1 783 to 2 568) (8.7 to 12.3) (27.4 to 24.6) (27.4 to 24.6) 3.3 (27.4 to 24.6) (27.4 to 13.8) Seychelles 6 6.2 (2 3.6 to 7.9) (27.4 to 13.8) Thailand 3 602 (5 to 7.1) (21.1 to 13.8) (5.5 to 7.1) (21.4 to 13.8) Thailand 3 602 (3.5 to 4.0) (5.6 to 10.3 to 2.0) Timor-Leste 63 (3 8.4 to 18.6 to 11.0) (1.5 to 6.0) (10.3 to 10.2) (1.5 to 6.0) Vietnam 14 662 (12.5 to 11.1) (27.5 to 6.0 to 32.0) (1.5 to 10.1) (2.5 to 50.0) Sub-Saharan Africa 38 086 (9.5) (1.5 to 11.1) (24.6 to 0.0) (2.7 to 11.1) (2.6 to 10.0) (2.5 to 29.4) (2.5 to 29	Maldives	_								
Myanmar 6 872 (5 953 to 7 929) (15.3 to 19.9) (32.6 to 7.9) Philippines 3 921 (5.2 to 7.5) (32.6 to 7.9) Philippines 3 921 (5.2 to 7.5) (37.5 to 4.411) (5.5 to 6.9) (39.7 to 7.5) Sri Lanka 2 147 (10.4 do.4 do.3.3) (27.4 to 24.6) 3.3 (27.4 to 24.6) 3.3 Seychelles 6 (5.2 do.2 do.4.0 do.5.0) (21.4 to 13.8) 3.6 6.2 do.4.0 -50.6 Seychelles (5 to 7) (5 to 7.1) (21.4 to 13.8) -50.6 -70.6	Mauritius	65	4.4	31.5						
Philippines 3921 6.2 57.5	Myonmor									
Philippines (3 478 to 4411) (5.5 to 6.9) (39.7 to 77.6)	iviyanmar									
Sri Lanka (1783 to 2568) (8.7 to 12.3) (-27.4 to 24.6) Seychelles 6 6.2 -3.6 (5 to 7) (5.2 to 7.1) (21.4 to 13.8) Thailand 3 502 4.0 50.6 (3 161 to 4143) (3.5 to 4.6) (-60.1 to -32.0) Timor-Leste 63 8.4 18.6 (47 to 77) (6.7 to 10.2) (-15.9 to 600.4) Vietnam 14 662 18.0 2.7 (12 524 to 17 136) (15.4 to 21.0) (-26.5 to 29.4) Sub-Saharan Africa 38 086 9.5 -14.1 Central sub-Saharan Africa 3 387 7.5 -8.1 Angola (674 to 773) (6.2 to 9.7) (-23.9 to 13.9) Angola (677 to 1174) (7.3 to 12.3) (-32.5 to 20.3) Central African Republic (94 to 249) (9.9 to 11.2) (-33.5 to 12.6) Congo (Brazzaville) 168 8.1 -16.9 Congo (Brazzaville) (10 to 257) (5.3 to 12.1) (-39.9 to 11.8) DR Congo (110 to	Philippines		· ·							
Seychelles 6 (5 to 7) (5.2 to 7.1) 3.6 (2.1.4 to 13.8) Thailand 3 602 (3.161 to 4.143) 4.0 (5.0 to 6.0) 50.6 (60.1 to 32.0) Timor-Leste (3 161 to 4.143) (3.5 to 4.6) (60.1 to 32.0) (15.9 to 60.4) Vietnam 14 662 (18.0) 2.7 (27.5 to 59.4) 2.7 (26.5 to 29.4) 38.086 (15.4 to 21.0) (26.5 to 29.4) 50.5 (14.1) (26.5 to 29.4) 50.5 (14.1) 60.5 to 3.1 60.5 to 3.2	Sri Lanka		· ·							
Sto 7 (5.2 to 7.1) (21.4 to 13.8)	Sevchelles	6	6.2	-3.6						
Thailand (3 161 to 4 143) (3.5 to 4.6) (60.1 to -32.0) Timor-Leste 63 8.4 18.6 (47 to 77) (6.7 to 10.2) (15.9 to 6.0.4) Vietnam 14 662 18.0 -2.7 (12 524 to 17 136) (15.4 to 21.0) (26.5 to 29.4) Sub-Saharan Africa 38 886 9.5 -14.1 Sub-Saharan Africa (34 089 to 44 273) (8.6 to 11.1) (24.6 to 0.0) Central sub-Saharan Africa 3387 7.5 8.1 Angola 855 9.2 -10.9 (677 to 1174) (7.3 to 12.3) (32.5 to 20.3) Central African Republic (94 to 249) (5.9 to 11.2) (-33.5 to 12.6) Congo (Brazzaville) 168 8.1 -16.9 Congo (Brazzaville) 1(10 to 257) (5.3 to 12.1) (-39.9 to 11.8) DR Congo 2 111 7.0 -5.4 Equatorial Guinea (20 to 53) (4.8 to 11.8) (49.6 to 30.2) Gabon 75 8.3 -20.0 (54 to 109)										
New York	Thailand	(3 161 to 4 143)	(3.5 to 4.6)	(-60.1 to -32.0)						
Vietnam 14 662 (12 524 to 17 136) (15.4 to 21.0) (2-6.5 to 29.4) (2-6.5 to 29.4) Sub-Saharan Africa 38 086 (9.5) (34 089 to 44 273) (8.6 to 11.1) (24.6 to 0.0) Central sub-Saharan Africa (2742 to 4 773) (22 to 9.7) (23.9 to 13.9) Angola 855 (677 to 1174) (7.3 to 12.3) (32.5 to 20.3) Central African Republic 146 (7.9) (23.5 to 20.3) Central African Republic 168 (10 to 257) (5.9 to 11.2) (-33.5 to 12.6) Congo (Brazzaville) 168 (110 to 257) (5.3 to 12.1) (-39.9 to 11.8) DR Congo 2 111 (7.0) (-5.4) (-54.0 to 9.1) (-56.2 to 20.5) Equatorial Guinea 33 (20 to 53) (4.8 to 11.8) (49.6 to 30.2) Gabon 75 (34 to 109) (5.4 to 109) (6.0 to 11.7) (44.2 to 7.5) Eastern sub-Saharan Africa 16 221 (12 to 12.2) (16.9) Burundi 389 (12.0) (26.2 (28 to 45) (7.8 to 12.4) (-38.7 to -0.2) Djibouti 41 (29 to 58) (7.8 to 12.4) (-38.7 to -0.2) Efritrea 207 (11.6) (11.6) (-16.4)	Timor-Leste									
Sub-Saharan Africa 38 086 (34 089 to 44 273) 9.5 (8.6 to 11.1) 1-14.1 (24.6 to 0.0) Central sub-Saharan Africa 3 387 (2742 to 4773) (6.2 to 9.7) (23.9 to 13.9) Angola 855 (677 to 1174) (7.3 to 12.3) (32.5 to 20.3) Central African Republic 146 (7.9) -10.5 Central African Republic (94 to 249) (5.9 to 11.2) (-33.5 to 12.6) Congo (Brazzaville) 168 (110 to 257) (5.3 to 12.1) (-39.9 to 11.8) DR Congo 2 111 (7.0) -5.4 (-5.4 to 9.1) (-26.2 to 20.5) Equatorial Guinea 33 (20 to 53) (4.8 to 11.8) (-49.6 to 30.2) Gabon 75 (8.3) -20.0 (-24.2 to 7.5) Eastern sub-Saharan Africa 16 221 (1.2 to 12.2 to 1.2 to	Vietnam	14 662	18.0	-2.7						
Central sub-Saharan Africa (34 089 to 44 273) (8.6 to 11.1) (-24.6 to 0.0) Angola 855 9.2 -10.9 Central African Republic 146 7.9 -10.5 Central African Republic (94 to 249) (5.9 to 11.2) (-33.5 to 12.6) Congo (Brazzaville) 168 8.1 -16.9 Congo (Brazzaville) (110 to 257) (5.3 to 12.1) (-39.9 to 11.8) DR Congo 2 111 7.0 -5.4 Equatorial Guinea 33 7.5 -18.8 Equatorial Guinea (20 to 53) (4.8 to 11.8) (-49.6 to 30.2) Gabon 75 8.3 -20.0 (54 to 109) (6.0 to 11.7) (-44.2 to 7.5) Eastern sub-Saharan Africa 16 221 12.2 -16.9 Burundi (305 to 487) (9.6 to 14.7) (-40.8 to -1.1) Comoros 35 9.6 -21.4 Comoros (28 to 45) (7.8 to 12.4) (-38.7 to -0.2) Djibouti (29 to 58) (7.9 to 13.6) (-40.8 to 8	Cub Cabanan Africa									
Central sub-Saharan Africa (2 742 to 4 773) (6.2 to 9.7) (-23.9 to 13.9) Angola 855 9.2 -10.9 Central African Republic 146 7.9 -10.5 Central African Republic (94 to 249) (5.9 to 11.2) (-33.5 to 12.6) Congo (Brazzaville) 168 8.1 -16.9 Congo (Brazzaville) 2111 7.0 -5.4 DR Congo 2111 7.0 -5.4 (1564 to 3049) (5.4 to 9.1) (-26.2 to 20.5) Equatorial Guinea 33 7.5 -18.8 (20 to 53) (4.8 to 11.8) (-49.6 to 30.2) Gabon 75 8.3 -20.0 (54 to 109) (6.0 to 11.7) (-44.2 to 7.5) Eastern sub-Saharan Africa 16 221 12.2 -16.9 (14 760 to 17 956) (11.2 to 13.5) (-28.4 to -2.3) Burundi 389 12.0 -26.2 (20 to 54 97) (9.6 to 14.7) (-40.8 to -1.1) Comoros 35 9.6 -21.4	Sub-Sanaran Airica									
Angola Central African Republic Central African Republic Central African Republic Congo (Brazzaville) Congo (Brazzaville) DR Congo Congo (Brazzaville) Congo (Brazzaville) DR Congo Congo (Brazzaville) Congo (Brazzaville) Congo (Brazzaville) Congo (Brazzaville) Congo (Congo (Brazzaville) Congo (Congo (Brazzaville) Congo (Congo (C	Central sub-Saharan Africa									
Central African Republic 146 (94 to 249) (5.9 to 11.2) (-33.5 to 12.6) Congo (Brazzaville) 168 (110 to 257) (5.3 to 12.1) (-39.9 to 11.8) DR Congo 2 111 (7.0) (5.4 to 9.1) (-5.4 to 9.1) (-26.2 to 20.5) Equatorial Guinea 33 (20 to 53) (4.8 to 11.8) (49.6 to 30.2) Gabon 75 (5.4 to 109) (6.0 to 11.7) (44.2 to 7.5) Eastern sub-Saharan Africa 16 221 (1.2 to 13.5) (2.8 4 to -2.3) Burundi 389 (305 to 487) (9.6 to 14.7) (-40.8 to -1.1) Comoros 35 (28 to 45) (7.8 to 12.4) (-38.7 to -0.2) Djibouti 41 (29 to 58) (7.4 to 13.6) (7.4 to 13.6) (-40.8 to 8.2) Eritrea 207 (11.6) (-16.4)	Angola									
Congo (Brazzaville)	Central African Renublic	· · · · · · · · · · · · · · · · · · ·								
Congo (Brazzaville) (110 to 257) (5.3 to 12.1) (-39.9 to 11.8)										
Tequatorial Guinea Company Com	Congo (Brazzaville)	(110 to 257)	(5.3 to 12.1)	(-39.9 to 11.8)						
Equatorial Guinea 33 7.5 -18.8 (20 to 53) (4.8 to 11.8) (-49.6 to 30.2) 75 8.3 -20.0 (54 to 109) (6.0 to 11.7) (-44.2 to 7.5) Eastern sub-Saharan Africa 16 221 12.2 -16.9 (14 760 to 17 956) (11.2 to 13.5) (-28.4 to -2.3) Burundi 389 12.0 -26.2 (305 to 487) (9.6 to 14.7) (-40.8 to -1.1) Comoros 35 9.6 -21.4 (28 to 45) (7.8 to 12.4) (-38.7 to -0.2) Djibouti 41 10.0 -18.1 (29 to 58) (7.4 to 13.6) (-40.8 to 8.2) Eritrea 207 11.6 -16.4	DR Congo									
Gabon (20 to 53) (4.8 to 11.8) (-49.6 to 30.2) Gabon 75 8.3 -20.0 (54 to 109) (6.0 to 11.7) (-44.2 to 7.5) Eastern sub-Saharan Africa 16 221 12.2 -16.9 (14 760 to 17 956) (11.2 to 13.5) (-28.4 to -2.3) Burundi 389 12.0 -26.2 (305 to 487) (9.6 to 14.7) (-40.8 to -1.1) Comoros 35 9.6 -21.4 (28 to 45) (7.8 to 12.4) (-38.7 to -0.2) Djibouti 41 10.0 -18.1 (29 to 58) (7.4 to 13.6) (-40.8 to 8.2) Eritrea 207 11.6 -16.4	Equatorial Guinea	33	7.5	-18.8						
Gabon (54 to 109) (6.0 to 11.7) (-44.2 to 7.5) Eastern sub-Saharan Africa 16 221 12.2 -16.9 Burundi 389 12.0 -26.2 (305 to 487) (9.6 to 14.7) (-40.8 to -1.1) Comoros 35 9.6 -21.4 (28 to 45) (7.8 to 12.4) (-38.7 to -0.2) Djibouti 41 10.0 -18.1 (29 to 58) (7.4 to 13.6) (-40.8 to 8.2) Eritrea 207 11.6 -16.4										
Burundi (14 760 to 17 956) (11.2 to 13.5) (-28.4 to -2.3) Burundi 389 12.0 -26.2 (305 to 487) (9.6 to 14.7) (-40.8 to -1.1) Comoros 35 9.6 -21.4 (28 to 45) (7.8 to 12.4) (-38.7 to -0.2) Djibouti (29 to 58) (7.4 to 13.6) (-40.8 to 8.2) Eritrea 207 11.6 -16.4	Ganon									
Burundi (305 to 487) (9.6 to 14.7) (-40.8 to -1.1) Comoros 35 9.6 -21.4 (28 to 45) (7.8 to 12.4) (-38.7 to -0.2) Djibouti 41 10.0 -18.1 (29 to 58) (7.4 to 13.6) (-40.8 to 8.2) Eritrea 207 11.6 -16.4	Eastern sub-Saharan Africa									
Comoros 35 (28 to 45) 9.6 (7.8 to 12.4) -21.4 (-38.7 to -0.2) Djibouti 41 (29 to 58) 10.0 (7.4 to 13.6) -18.1 (-40.8 to 8.2) Eritrea 207 11.6 -16.4 -16.4	Burundi			-26.2						
(28 to 45) (7.8 to 12.4) (-38.7 to -0.2) Djibouti 41 10.0 -18.1 (29 to 58) (7.4 to 13.6) (-40.8 to 8.2) Eritrea 207 11.6 -16.4	Comoros									
(29 to 58) (7.4 to 13.6) (-40.8 to 8.2)										
Eritrea	Djibouti	(29 to 58)	(7.4 to 13.6)	(-40.8 to 8.2)						
	Eritrea									

	Mortality (95% UI)							
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017					
Ethiopia	4 461 (3 845 to 5 132)	13.1	-27.5					
Kenya	2 125	(11.5 to 14.9) 12.7	(-42.9 to -3.3) -8.2					
,	(1 898 to 2 485)	(11.3 to 14.5)	(-33.4 to 15.7)					
	726	8.6	-22.8					
Madagascar	(564 to 939) 923	(6.8 to 10.9)	(-35.3 to -8.1)					
Malawi	923	13.2	-14.5					
	(797 to 1 077)	(11.4 to 15.4)	(-31.2 to 20.0)					
Mozambique	1 471	15.5	-7.4					
	(1 085 to 1 821)	(12.1 to 19.0)	(-29.4 to 25.4)					
Rwanda	499	11.1	-31.8					
Somalia	(404 to 629)	(9.1 to 13.8)	(-46.7 to -5.7)					
	500	10.3	-10.8					
	(363 to 694)	(7.8 to 13.6)	(-31.4 to 22.0)					
	346	10.8	-10.7					
South Sudan	(261 to 466)	(7.9 to 14.4)	(-32.0 to 21.5)					
Tanzania	2 585	11.5	-12.0					
	(2 240 to 3 029)	(9.8 to 13.8)	(-26.8 to 9.2)					
Uganda	1 094	9.3	-14.5					
	(846 to 1 351)	(7.4 to 11.3)	(-39.0 to 16.4)					
Zambia	811	14.7	-18.9					
Caushana anh Cahanan Africa	(701 to 933) 1 569	(12.7 to 17.0) 3.1	(-36.3 to 0.2) - 20.6					
Southern sub-Saharan Africa	(1 461 to 1 796)	(2.9 to 3.6) 3.7	(-36.9 to -2.0) -22.2					
Botswana	(34 to 56)	(3.0 to 4.6)	(-40.7 to 5.3)					
Lesotho	54	5.1	-2.1					
	(41 to 68)	(3.9 to 6.3)	(-35.7 to 38.2)					
Namibia	57	4.3	-23.5					
South Africa	(49 to 68)	(3.7 to 5.1)	(-38.7 to -2.9)					
	1 036	2.6	-25.4					
	(933 to 1 186)	(2.3 to 2.9)	(-38.9 to -5.1)					
	22	4.4	-20.0					
Swaziland	(17 to 28)	(3.4 to 5.5)	(-42.2 to 8.5)					
	356	6.7	8.0					
Zimbabwe	(262 to 455)	(5.0 to 8.7)	(-22.0 to 34.7)					
Western sub-Saharan Africa	16 911	10.2	-14.4					
	(14 329 to 20 729)	(8.6 to 12.4)	(-26.5 to 3.3)					
Benin	411	9.7	-19.0					
Burkina Faso	(330 to 501)	(7.9 to 11.8)	(-34.7 to 0.9)					
	1 249	15.7	-12.7					
	(1 081 to 1 438)	(13.8 to 17.7)	(-25.9 to 6.1)					
	1 164	11.8	-18.0					
Cameroon	(933 to 1 429)	(9.6 to 14.5)	(-34.4 to 1.4)					
Cape Verde	11	2.2	-35.1					
	(9 to 13)	(1.9 to 2.7)	(-48.2 to -17.3)					
Chad	592	11.0	-1.9					
	(452 to 792)	(8.1 to 15.2)	(-20.0 to 23.4)					
Cote d'Ivoire	984	11.3	-12.9					
The Gambia	(792 to 1 248)	(9.1 to 14.2)	(-31.6 to 8.9)					
	129	15.4	-2.4					
	(106 to 155)	(12.9 to 18.3)	(-27.5 to 23.0)					
	1 865	15.0	14.0					
Ghana	(1 580 to 2 141)	(12.9 to 17.2)	(-10.8 to 49.6)					
Guinea	554	11.0	-9.3					
	(461 to 661)	(9.1 to 13.1)	(-32.1 to 17.3)					
Guinea-Bissau	68	11.2	-24.5					
	(55 to 89)	(9.4 to 13.8)	(-39.5 to -5.3)					
Liberia	152	8.9	-26.6					
Mali	(115 to 193)	(6.9 to 11.0)	(-41.4 to -5.8)					
	709	9.1	-22.8					
	(546 to 977)	(7.0 to 12.8)	(-36.6 to -2.2)					
	156	8.8	-23.6					
Mauritania	(121 to 206)	(7.0 to 11.5)	(-39.6 to -1.0)					

		Mortality (95% UI)						
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017					
Niger	599	9.1	-22.5					
Nigei	(430 to 884)	(6.4 to 13.7)	(-36.3 to -3.1)					
Nigeria	7 018	8.7	-21.2					
Nigeria	(5 103 to 9 772)	(6.3 to 12.1)	(-41.4 to 7.2)					
Sao Tome and Principe	14	13.4	9.9					
3ao Tome and Finicipe	(10 to 19)	(8.6 to 18.8)	(-23.5 to 49.1)					
Senegal	662	10.3	-14.1					
Seriegai	(518 to 805)	(8.3 to 12.3)	(-28.4 to 5.1)					
Sierra Leone	323	10.5	-10.9					
Sicila Leone	(264 to 400)	(8.7 to 12.8)	(-30.5 to 13.9)					
Togo	252	9.3	-20.9					
Togo	(204 to 316)	(7.7 to 11.2)	(-37.9 to -0.3)					

Table 3: YLLs, YLDs, and DALYs for 2017 and percent	age change of age-standardised rat	es between 1990 and 2017 by lo	ation for falls						
Location		YLLs (95% UI)	Percentage change in age-		YLDs (95% UI)	Percentage change in age-		DALYs (95% UI)	Percentage change in age-
Location	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017	2017 counts	2017 age-standardised rates per 100,000	Percentage change in age- standardised rates between 1990 and 2017
Global	16 688 088	217	-18.5	19 252 699	243	-9.3	35 940 787	459	-13.9
	(15 101 897 to 17 636 830)	(196 to 229)	(-31.7 to -6.2)	(13 725 429 to 26 140 433)	(173 to 330)	(-10.7 to -7.9)	(30 185 695 to 42 903 289)	(387 to 547)	(-21.3 to -8.0)
LowSDI	3 035 204	319	-17.7	1 708 842	185	9.9	4744 046	504	-9.4
	(2 776 524 to 3 310 498)	(295 to 353)	(-31.5 to 1.7)	(1 237 007 to 2 286 036)	(135 to 247)	(7.6 to 12.1)	(4178 135 to 5 354 913)	(448 to 567)	(-20.8 to 4.7)
Low-middle SDI	4 322 097	320	-16.1	2 470 809	175	15.0	6792 906	495	-7.2
	(3 909 061 to 4 707 961)	(293 to 352)	(-26.6 to -0.4)	(1 785 368 to 3 315 556)	(127 to 234)	(12.0 to 18.2)	(6035 771 to 7657 744)	(444 to 556)	(-16.3 to 4.7)
Middle SDI	4 783 212	228	·20.3	3 184 082	143	21.4	7 967 294	372	-8.1
	(4 047 237 to 5 182 512)	(195 to 247)	(·36.4 to ·8.6)	(2 283 323 to 4 318 877)	(103 to 193)	(16.1 to 26.7)	(6 753 806 to 9 216 910)	(317 to 428)	(-20.8 to 0.8)
High-middle SDI	2 548 533	165	-25.7	5 051 300	305	-16.1	7 599 833	470	-19.8
	(2 312 949 to 2 700 612)	(150 to 175)	(-40.3 to -15.9)	(3 573 300 to 6 952 811)	(216 to 419)	(-18.3 to -14.0)	(6 063 448 to 9 610 574)	(379 to 589)	(-26.5 to -16.0)
High SDI	1 937 067	103	-29.4	6 784 835	419	-8.2	8 721 903	522	-13.3
	(1 884 198 to 1 989 251)	(100 to 106)	(-31.5 to -27.3)	(4 820 996 to 9 259 655)	(296 to 576)	(-9.6 to -6.9)	(6 780 201 to 11 177 346)	(400 to 678)	(-15.3 to -11.7)
Central Europe, Eastern Europe, and Central Asia	966 579	197	-28.5	4 022 519	771	-8.4	4 989 097	969	-13.3
	(928 588 to 997 962)	(189 to 204)	(-31.1 to -25.8)	(2 840 390 to 5 582 122)	(542 to 1 067)	(-10.5 to -6.2)	(3 805 499 to 6 529 439)	(742 to 1 257)	(-15.9 to -11.2)
	122 416	136	-46.1	418 376	479	-11.8	540 792	615	-22.7
Central Asia	(113 998 to 134 465) 2 276	(126 to 149) 69	-46.1 (-50.2 to -40.3) -76.8	(295 878 to 574 794) 16 372	(339 to 658) 454	-11.8 (-14.2 to -9.2) -24.9	(417 563 to 695 406) 18 649	(475 to 792) 523	-22.7 (-26.5 to -19.2) -41.9
Armenia	(2 119 to 2 433) 10 720	(64 to 74)	(-79.0 to -74.2) -46.0	(11 540 to 22 780) 49 940	(320 to 630) 470	(-28.0 to -22.0)	(13 794 to 25 043)	(390 to 699) 578	(-47.0 to -37.3)
Azerbaijan	(8 267 to 16 408)	(84 to 160)	(-59.6 to -12.8)	(35 164 to 68 858)	(333 to 646)	(-10.2 to -2.3)	(45 508 to 79 483)	(435 to 757)	(-24.8 to -7.8)
	7 014	164	-40.2	21 028	442	-20.7	28 042	606	-27.1
Georgia	(6 504 to 7 513)	(151 to 177)	(-46.2 to -33.2)	(14 874 to 28 703)	(312 to 604)	(-22.6 to -18.7)	(21 907 to 35 656)	(475 to 765)	(-30.5 to -24.1)
Kazakhstan	32 612	177	-30.1	90 542	500	-9.1	123 154	677	-15.7
Kyrgyzstan	(29 134 to 36 265)	(158 to 196)	(-37.9 to -22.0)	(63 918 to 124 290)	(353 to 689)	(-12.4 to -6.1)	(95 768 to 157 645)	(526 to 866)	(-19.7 to -12.1)
	5 903	96	-72.3	25 349	445	-26.0	31 252	541	-42.9
Mongolia	(5 361 to 6 546)	(87 to 106)	(-75.2 to -69.1)	(17 964 to 34 850)	(316 to 609)	(-28.3 to -23.6)	(24 081 to 40 499)	(414 to 704)	(-47.4 to -38.7)
	9 883	294	-2.5	19 030	628	0.1	28 914	923	-0.8
Tajikistan	(7 327 to 12 349)	(220 to 365)	(-29.1 to 25.4)	(13 653 to 25 831)	(450 to 853)	(·3.5 to 3.9)	(22 406 to 36 248)	(712 to 1 158)	(-11.3 to 8.0)
	16 810	176	-39.7	39 965	527	-17.0	56 775	704	-24.2
Turkmenistan	(14 316 to 21 166)	(152 to 221)	(-50.9 to -15.5)	(28 630 to 54 347)	(378 to 718)	(-19.7 to -14.6)	(44 682 to 70 704)	(548 to 887)	(-29.5 to -16.2)
	4 608	94	-49.6	22 089	470	-7.0	26 697	564	-18.5
	(4 030 to 5 237)	(83 to 106)	(-56.7 to -41.9)	(15 572 to 30 456)	(333 to 645)	(-10.6 to -3.3)	(20 143 to 34 644)	(424 to 736)	(-23.5 to -13.9)
Uzbekistan	(4 030 to 5 237) 32 589 (28 580 to 36 836)	(83 to 106) 105 (93 to 119)	-53.4 (-59.6 to -46.5)	(15 572 to 30 456) 134 060 (94 595 to 185 084)	(333 to 645) 453 (320 to 621)	(-10.6 to -3.3) -8.8 (-11.9 to -5.4)	(20 143 to 34 644) 166 649 (127 974 to 217 536)	(424 to 736) 558 (427 to 724)	(-23.5 to -13.9) -22.7 (-27.5 to -18.2)
Central Europe	269 086	159	-47.7	1 622 149	1 015	-10.6	1891 234	1 174	-18.4
	(259 919 to 278 513)	(153 to 165)	(49.9 to -45.4)	(1 145 319 to 2 244 576)	(713 to 1 405)	(-13.0 to -8.3)	(1413 934 to 2 508 615)	(875 to 1 559)	(-21.8 to -15.4)
Albania	2 160	69	-15.7	30 503	895	8.1	32 663	965	5.9
	(1 692 to 2 623)	(54 to 85)	(-33.6 to 5.0)	(21 598 to 42 606)	(632 to 1 245)	(3.0 to 13.1)	(23 547 to 44 598)	(694 to 1 316)	(0.6 to 10.8)
Bosnia and Herzegovina	2 589	55	-23.9	40 939	913	8.4	43 527	968	5.8
	(2 268 to 2 903)	(48 to 61)	(-40.8 to 1.8)	(28 870 to 56 486)	(640 to 1 267)	(3.4 to 13.2)	(31 409 to 59 203)	(695 to 1 319)	(0.8 to 10.7)
Bulgaria	12 973	143	-38.7	94 477	931	-11.7	107 450	1 0 7 4	-16.6
	(11 906 to 14 047)	(131 to 156)	(-44.1 to -32.9)	(66 595 to 131 476)	(653 to 1 283)	(-14.0 to -9.5)	(79 183 to 144 455)	(7 9 6 to 1 4 2 6)	(-19.5 to -14.0)
Croatia	14 195	173	-2.3	51 864	778	-5.2	66 060	951	-4.7
	(13 163 to 15 147)	(161 to 185)	(-9.8 to 5.4)	(36 803 to 71 016)	(550 to 1 069)	(-8.3 to -2.2)	(50 919 to 85 088)	(723 to 1 236)	(-7.7 to -1.7)
Czech Republic	21 769	126	-67.7	177 369	1 192	-4.2	199 139	1318	-19.4
	(20 123 to 23 408)	(116 to 136)	(-70.3 to -64.9)	(125 355 to 244 115)	(843 to 1 650)	(-6.9 to -1.4)	(146 807 to 265 562)	(969 to 1775)	(-24.3 to -15.2)
Hungary	28 011	161	-68.1	144 988	1 024	-19.2	173 000	1 185	-33.1
	(26 292 to 29 821)	(150 to 171)	(-70.3 to -65.8)	(102 398 to 200 260)	(724 to 1 422)	(-22.3 to -16.3)	(130 137 to 227 092)	(884 to 1 578)	(-37.6 to -28.8)
Macedonia	1 961	72	19.1	25 157	915	12.6	27 119	987	13.1
	(1 674 to 2 193)	(60 to 80)	(-20.0 to 50.5)	(17 722 to 35 055)	(646 to 1 269)	(8.6 to 16.7)	(19 675 to 36 957)	(718 to 1 343)	(7.1 to 17.5)
	567	69	-27.9	7 194	914	13.6	7 761	983	9.2
Montenegro	(486 to 668) 105 048	(59 to 82) 188	-27.9 (-39.9 to -12.6) -34.6	7 194 (5 075 to 9 994) 560 199	(643 to 1 274) 1 051	(11.2 to 15.9) -7.6	(5 604 to 10 539) 665 246	707 to 1 344) 1 239	9.2 (5.6 to 12.4) -13.0
Poland	(97 365 to 113 222)	(174 to 203)	(-40.1 to -29.1)	(395 305 to 774 489)	(740 to 1 455)	(-10.7 to -4.5)	(499 321 to 875 365)	(929 to 1 631)	(-16.7 to -9.8)
Romania	46 331	180	-52.0	265 040	975	-26.1	311 371	1 155	-31.8
Romania	(43 140 to 49 665)	(168 to 193)	(-55.5 to -48.4)	(186 496 to 367 238)	(681 to 1 350)	(-28.9 to -23.4)	(232 675 to 412 957)	(865 to 1 528)	(-35.0 to -28.9)
Serbia	10 800	81	-16.5	106 672	914	14.1	117 473	996	10.8
Serbia	(8 756 to 12 191) 15 786	(66 to 92) 208	(-34.9 to 1.7) -46.5	(75 506 to 147 982) 77 917	(642 to 1 266) 1 069	(10.8 to 17.4)	(85 851 to 159 741) 93 703	(724 to 1354) 1277	(6.6 to 14.9) -20.5
Slovenia	(12 875 to 18 267)	(171 to 241)	(-55.0 to -31.5)	(55 159 to 108 045)	(753 to 1 480)	(-14.4 to -10.2)	(70 102 to 124 080)	(952 to 1 695)	(-25.1 to -16.0)
	6 895	182	-45.1	39 828	1 279	3.9	46 724	1 461	-6.5
Eastern Europe	(6 331 to 7 444) 575 077	(167 to 196) 231	(-50.0 to -40.1) -8.6 (-12.6 to -5.3)	(28 331 to 54 481) 1 981 994 (1 388 116 to 2 749 579)	(908 to 1 768) 733 (514 to 1 013)	(1.8 to 6.0) -2.8 (-5.2 to -0.4)	(35 178 to 61 455) 2557 071	(1 088 to 1 948) 964 (747 to 1 245)	(-10.1 to -3.4) -4.3 (-6.4 to -2.2)
Belarus	(549 117 to 596 079) 31 047 (27 689 to 34 297)	(220 to 240) 267 (237 to 295)	(-12.6 to -5.3) -11.4 (-21.5 to -1.1)	(1 388 116 to 2 749 579) 94 968 (66 861 to 131 753)	759 (533 to 1 047)	(-5.2 to -0.4) -4.9 (-7.5 to -2.4)	(1966 184 to 3 316 952) 126 015 (98 278 to 162 801)	(747 to 1 245) 1 025 (803 to 1 311)	(6.4 to -2.2) -6.7 (9.9 to -3.5)
Estonia	2 975 (2 537 to 3 449)	(237 to 295) 173 (147 to 201)	-59.3 (-65.6 to -52.0)	(96 861 to 131 753) 13 355 (9 379 to 18 546)	734 (516 to 1 016)	(-7.5 to -2.4) -20.9 (-23.1 to -18.5)	(98 2 / 8 to 162 801) 16 330 (12 325 to 21 395)	907 (685 to 1 187)	(9.9 to -3.5) -32.9 (-37.4 to -29.4)
Latvia	6029	228	-52.8	20 854	752	-23.6	26 883	981	-33.2
	(5 190 to 6 893)	(196 to 262)	(-59.4 to -45.8)	(14 724 to 28 890)	(527 to 1 046)	(-26.0 to -21.2)	(20 778 to 34 581)	(759 to 1 260)	(-37.2 to -29.8)
Lithuania	11 582	288	-33.2	33 622	809	-10.2	45 204	1 098	-17.6
	(10 646 to 12 561)	(264 to 314)	(-38.9 to -26.4)	(23 682 to 46 493)	(568 to 1 120)	(-12.7 to -7.8)	(35 135 to 57 887)	(855 to 1 402)	(-21.2 to -14.4)
Moldova	7 875 (7 291 to 8 492)	172 (159 to 185)	-52.3 (-56.4 to -47.8)	30 864 (21 916 to 42 377) 1 375 571	665 (473 to 912)	-19.7 (-22.3 to -17.0)	38 739 (29 724 to 50 146) 1 769 246	837 (640 to 1 081)	·29.6 (·33.3 to ·26.4)
Russian Federation	393 675 (378 251 to 405 484)	229 (219 to 236)	5.6 (-1.6 to 9.3)	(966 580 to 1 906 872)	740 (519 to 1 023)	2.9 (0.2 to 5.5)	(1 360 426 to 2 297 059)	968 (747 to 1 252)	3.5 (1.1 to 5.7)
Ukraine	121 893	235	-24.2	412 760	705	-13.0	534 653	940	-16.1
	(112 493 to 132 443)	(217 to 256)	(-30.8 to -16.9)	(289 234 to 575 017)	(493 to 979)	(-15.6 to -10.5)	(409 488 to 698 091)	(730 to 1 216)	(-19.2 to -13.2)
High-income	1 705 180	95	-26.4	5 840 033	385	-8.5	7 545 214	479	-12.7
	(1 655 481 to 1 749 551)	(92 to 97)	(-28.8 to -24.4)	(4 153 445 to 7 965 892)	(272 to 529)	(-10.2 to -6.9)	(5 876 493 to 9 658 549)	(368 to 620)	(-14.6 to -11.2)
Australasia	40 521	90	4.5	261 552	713	23.1	302 072	802	20.7
	(37 201 to 44 017)	(82 to 97)	(-4.6 to 14.3)	(184 830 to 362 585)	(502 to 994)	(20.7 to 25.6)	(225 902 to 401 819)	(590 to 1 081)	(17.9 to 23.2)
	34 091	88	10.7	214 068	693	24.3	248 159	781	22.6
Australia	(30 739 to 37 609) 6 429	88 (79 to 97) 97	(-1.4 to 23.0) -15.0	(151 387 to 296 609) 47 484	(488 to 966) 820	24.3 (21.7 to 27.0) 19.4	248 159 (185 581 to 330 409) 53 913	(575 to 1 051) 917	(19.7 to 25.3) 14.4
New Zealand	(6 000 to 6 899) 235 605	(91 to 104)	(-21.1 to -8.5) -42.8	(33 598 to 65 562) 1 306 146	(580 to 1 142) 481	(14.7 to 24.4) 10.6	(40 044 to 71 798) 1541 751	(677 to 1 238)	(9.9 to 18.8)
High-income Asia-Pacific Brunel	(222 969 to 248 489)	(69 to 78)	(46.3 to -38.7)	(931 659 to 1 779 010)	(341 to 654)	(8.5 to 12.8)	(1 172 479 to 2 016 435)	(416 to 729)	(-5.6 to 1.8)
	725	175	-16.3	1 956	468	-0.6	2 681	642	-5.4
Japan	(613 to 824)	(152 to 196)	(-29.4 to 2.0)	(1 370 to 2 707)	(328 to 653)	(-3.7 to 2.3)	(2 076 to 3 463)	(498 to 819)	(-11.6 to 0.7)
	153 654	60	-30.4	992 975	513	26.2	1 146 629	573	16.3
Japan	(146 734 to 161 071)	(57 to 63)	(-33.8 to -26.7)	(711 271 to 1 343 552)	(366 to 694)	(23.6 to 29.6)	(863 275 to 1 500 191)	(427 to 754)	(12.5 to 19.7)
South Korea	76 952	108	-55.3	283 072	418	-19.1	360 024	526	-30.6
Singapore	(69 091 to 84 788)	(97 to 118)	(-60.0 to -50.3)	(199 131 to 391 660)	(293 to 577)	(-21.9 to -16.4)	(278 774 to 467 156)	(405 to 683)	(-34.7 to -27.0)
	4 274	69	-39.8	28 143	434	4.4	32 417	503	-5.1
High-income North America	(3 901 to 4 700)	(63 to 76)	(-45.3 to -33.8)	(19 805 to 38 911)	(305 to 600)	(1.5 to 6.9)	(24 114 to 43 077)	(376 to 670)	(-9.6 to -1.9)
	599 913	109	22.3	1 577 676	311	-29.3	2 177 589	421	-20.6
Canada	(584 935 to 615 363)	(106 to 112)	(18.2 to 25.7)	(1 116 030 to 2 139 319)	(221 to 419)	(-33.9 to -24.9)	(1712 659 to 2746 243)	(332 to 530)	(-25.3 to -16.0)
	66 502	108	5.8	157 562	298	8.7	224 064	406	7.9
Greenland	(61 915 to 71 689)	(101 to 116)	(-1.7 to 14.5)	(110 895 to 216 847)	(210 to 413)	(6.5 to 10.9)	(177 868 to 283 351)	(317 to 518)	(5.3 to 10.7)
	190	310	-34.4	254	395	-31.1	444	705	-32.6
	(170 to 214)	(277 to 347)	(-45.8 to -15.5)	(180 to 349)	(280 to 540)	(-33.2 to -29.2)	(368 to 542)	(586 to 854)	(-38.2 to -25.0)
USA	533 210	109	23.9	1 419 832	313	-31.7	1 953 042	422	·22.8
	(518 637 to 546 456)	(106 to 112)	(19.6 to 27.6)	(1 005 157 to 1 926 893)	(223 to 422)	(-36.4 to -27.2)	(1 535 647 to 2 465 035)	(333 to 532)	(-27.6 to -17.9)
Southern Latin America	59 531	80	-31.2	224 284	304	-15.3	283 815	384	·19.2
	(54 838 to 64 697)	(73 to 87)	(-37.2 to -24.3)	(159 020 to 308 056)	(215 to 417)	(-18.0 to -12.5)	(217 150 to 365 468)	(293 to 495)	(-22.3 to ·16.1)
Argentina	33 078	68	-39.3	152 318	314	-11.8	185 395	381	-18.4
	(29 399 to 37 307)	(60 to 76)	(-46.5 to -31.4)	(107 701 to 208 266)	(223 to 430)	(-15.0 to -8.6)	(140 141 to 240 554)	(289 to 495)	(-22.3 to -14.9)
Chile	22 363	106	-17.0	58 448	279	-25.6	80 811	384	-23.4
	(19 843 to 25 050)	(94 to 119)	(-26.9 to -6.7)	(41 185 to 80 108)	(196 to 381)	(-28.6 to -22.5)	(62 877 to 101 891)	(299 to 486)	(-27.0 to -19.7)
Uruguay	4 087 (3 614 to 4 575) 769 612	91 (80 to 102) 97	-23.1 (-32.5 to -12.1) -37.5	13 509 (9 541 to 18 532) 2 470 375	312 (219 to 428) 399	-6.8 (-9.8 to -3.7)	17 596 (13 571 to 22 589) 3 239 987	402 (310 to 517) 496	-11.0 (-14.9 to -7.5)
Western Europe	769 612 (736 657 to 801 284)	97 (93 to 101)	-37.5 (40.4 to -34.9)	2 470 375 (1 753 341 to 3 381 635) 465	399 (281 to 549)	0.0 (-0.9 to 1.0)	3 239 987 (2 529 527 to 4 139 650) 585	496 (379 to 646)	-10.5 (-13.6 to -8.2)
Andorra	120 (96 to 151)	99 (79 to 126)	-26.4 (-40.4 to -8.3) -49.5	465 (328 to 644) 53 138	427 (301 to 594) 424	2.1 (0.3 to 4.2) -13.4	585 (439 to 762) 72 339	526 (392 to 687) 550	-4.8 (-10.2 to -0.1) -25.6
	(96 to 151) 19 201	127							(-29.5 to -22.6)
Austria	19 201 (17 743 to 20 672) 28 046	127 (117 to 136) 141	(-53.6 to -45.2) -4.0	(37 624 to 73 371) 79 498	(298 to 584) 488	(-15.3 to -11.5) 15.0	(56 024 to 92 127) 107 544	(420 to 707) 629	10.1
Belglum	19 201 (17 743 to 20 672) 28 046 (26 047 to 30 076) 1515	(117 to 136) 141 (131 to 151) 92	-4.0 (-11.4 to 4.0) -36.1	79 498 (56 366 to 109 479) 6 140	488 (345 to 676) 396	(-15.3 to -11.5) 15.0 (12.5 to 17.6)	107 544 (84 752 to 137 308) 7 655	629 (486 to 813) 488	(7.1 to 13.0) -11.7
Belglum Cyprus	19 201 (17 743 to 20 672) 28 046 (26 047 to 30 076) 1 515 (1 292 to 1 729) 8 687	(117 to 136) 141 (131 to 151) 92 (78 to 105) 81	-4.0 (-11.4 to 4.0) -36.1 (-46.9 to -18.1) -61.7	79 498 (56 366 to 109 479) 6 140 (4 323 to 8 520) 31 276	488 (345 to 676) 396 (279 to 550) 402	(-15.3 to -11.5) 15.0 (12.5 to 17.6) -3.2 (-5.6 to -1.2) -0.5	107 544 (84 752 to 137 308) 7 655 (5 796 to 10 083) 39 963	629 (486 to 813) 488 (368 to 646) 483	(7.1 to 13.0) -11.7 (-17.2 to -6.3) -21.5
Belglum	19 201 (17.743 to 20.672) 28 046 (26 047 to 30.076) 1515 (1.292 to 1729) 8 687 (8.011 to 9 402) 17 948	(117 to 136) 141 (131 to 151) 92 (78 to 105) 81 (75 to 87) 174	-4.0 (-11.4 to 4.0) -36.1 (46.9 to -18.1) -61.7 (64.7 to -58.2)	79 498 (56 366 to 109 479) 6 140 (4 323 to 8 520) 31 276 (22 226 to 43 040) 40 362	488 (345 to 676) 396 (279 to 550) 402 (285 to 555) 494	(-15.3 to -11.5) 15.0 (12.5 to 17.6) -3.2 (-5.6 to -1.2) -0.5 (-3.2 to 2.0) 9.2	107 544 (84 752 to 137 308) 7 655 (5 796 to 10 083) 39 963 (31 025 to 51 860) 58 310	629 (486 to 813) 488 (368 to 646) 483 (367 to 632) 667	(7.1 to 13.0) -11.7 (-17.2 to 6.3) -21.5 (-27.0 to -16.9) -3.0
Belgium Cyprus Denmark	19 201 (27 474 310 20 672) 28 046 (26 047 to 30 076) 1 515 (1 29 2 to 17 29) 8 687 (8 011 to 9 402) 17 948 (16 700 to 19 322) 15 5 443	(117 to 136) 141 (131 to 151) 92 (78 to 105) 81 (75 to 87) 174 (161 to 188) 127	-4.0 (-11.4 to 4.0) -36.1 (-46.9 to -18.1) -61.7 (-64.7 to -58.2) -26.4 (-32.2 to -19.5) -41.4	79 498 (56 366 to 109 479) 6 140 (4 323 to 8 520) 31 276 (22 226 to 43 040) 40 362 (28 696 to 55 595) 407 285	488 (345 to 676) 396 (279 to 550) 402 (285 to 555) 494 (350 to 682) 477	(-15.3 to -11.5) 15.0 (22.5 to 17.6) -3.2 (-5.6 to -1.2) -0.5 (-3.2 to 2.0) 9.2 (7.1 to 11.4) -4.4	107 544 (84 752 to 137 308) 7 655 (5 796 to 10 083) 39 963 (31 025 to 51 860) 58 310 (46 496 to 73 446) 561 829	629 (486 to 813) 488 (368 to 646) 483 (367 to 632) 667 (524 to 848) 554	(7.1 to 13.0) -11.7 (-17.2 to -6.3) -21.5 (-27.0 to -16.9) -3.0 (-6.8 to 0.3) -16.5
Belgium Cyprus Denmark Finland	19 201 (17 34) 20 672) 28 046 (26 047 to 30 076) 1515 (1292 to 1729) 8 687 (8 011 to 9 402) 17 948 (16 700 to 19 322) 154 543 (142 298 to 155 969)	(117 to 136) 141 (131 to 151) 92 (78 to 105) 81 (75 to 87) 174 (161 to 188) 127 (117 to 137)	4.0 (11.4 to 4.0) 36.1 (46.9 to 18.1) 61.7 (64.7 to 58.2) 26.4 (32.2 to 19.5) 41.4 (46.5 to 36.8)	79 498 (5386 to 109 479) 6 140 (4323 to 8 520) 31 276 (22 226 to 43 040) 40 362 (28 696 to 55 595) 407 285 (287 888 to 559 300)	488 (345 to 676) 396 (279 to 550) 402 (285 to 555) 494 (350 to 682) 427 (301 to 590) 410	(15.3 to :11.5) 15.0 (12.5 to 17.6) 3.2 (5.6 to :1.2) -0.5 (3.2 to 2.0) 9.2 (7.1 to 11.4) -4.4 (6.3 to 2.5) 2.4	107 544 (84752 to 137 308) 7 655 (5 796 to 10 083) 3 9 963 (31 025 to 51 860) 58 310 (46 496 to 73 446) 561 829 (441 226 to 714 224)	629 (485 to 813) 488 (368 to 646) 483 (367 to 632) 667 (524 to 848) 554 (427 to 715) 518	(7.1 to 13.0) 11.7 (17.2 to 6.3) 21.5 (27.0 to 16.9) 3.0 (6.8 to 0.3) 16.5 (20.6 to 13.5) 8.9
Belgium Cyprus Denmark Finland France	19 201 (2743 to 20 672) 28 046 (26 047 to 30 076) 1 515 (1292 to 17.29) 8 687 (8011 to 9 402) 17 948 15 454 (14 228 to 15 9 5 9) 17 17 60 97 67)	(117:0:136) 141 (131:0:151) 92 (78:0:105) 81 (75:0:87) 174 (161:0:188) 127 (117:0:137) (96:0:120) 71	4.0 (31,4 to 4.0) (36,1 (46.9 to 38.1) -61.7 (64.7 to 58.2) -26.4 (32.2 to 19.5) -41.4 (46.5 to 36.8) -35.9 (42.6 to 28.5)	79 498 (\$6366 to 109 479) 6 140 (4 323 no 8 520) 31 276 (22 226 to 43 040) 40 362 (28 696 to 55 595) 407 285 (28 78 88 to 55 9 30) 51 1389 (361 675 to 703 307) 55 019	488 (345 to 676) 396 (279 to 550) 402 (285 to 555) 494 (350 to 682) 427 (301 to 590) 410 (289 to 567) 373	(15.3 to -11.5) 15.0 (12.5 to 17.6) -3.2 (5.6 to -1.2) -0.5 (3.2 to 2.0) 9.2 (7.1 to 11.4) -4.4 (6.3 to 2.5) -4.9 -4.9	107 544 (24 572 to 137 308) 7 655 (5795 to 10 683) 39 963 (31 025 to 51 860) 58 310 (46 496 to 73 446) 56 1829 (41 226 to 714 224) 68 9051 (53 845 to 879 284) 66 430	629 (486 to 813) 488 (368 to 646) 483 (367 to 632) 667 (524 to 848) 554 (427 to 715) 518 (394 to 671)	(7.1 to 13.0) 11.7 (17.2 to 6.3) (21.5 (27.0 to 16.9) -3.0 (6.8 to 0.3) 16.5 (20.6 to -13.5) -8.9 (13.0 to -5.6)
Belgium Cyprus Deomark Finland France Germany	19 201 (17743 to 20 672) 28 046 (26 047 to 30 076) 1515 (26 047 to 30	(117:0:136) 141 (131:0:151) 92 (78:0:105) 81 (75:0:87) 174 (161:0:188) 127 (117:0:137) 107 (96:0:120) 71 (66:0:76)	4.0 (1),4 to 4.0) (36.1) (46.9 to 18.1) (61.7) (62.7 to 58.2) (26.4 to 58.8) (41.4) (45.5 to 58.8) (42.2 to 58.8) (42.2 to 58.9) (42.4 to 58.9) (42.4 to 58.9) (42.4 to 58.9) (43.7 to 58.9)	79 498 (56 366 to 109 479) 6 140 (4 23 20 85 20) 31 276 (22 226 to 43 040) 40 362 (28 69 to 55 95) 407 285 (27 88 to 55 930) 511 389 (361 675 to 70 33 07) 55 019 (38 710 to 76 317) 1723 (1223 to 23 74)	488 (345 to 676) 396 (279 to 550) 402 (285 to 555) 494 (350 to 682) 427 (301 to 590) (289 to 567) 373 (262 to 515)	(15.3 to .11.5) 15.0 (12.5 to 17.6) -3.2 (5.6 to 1.2) -0.5 (3.2 to 2.0) 9.2 (7.1 to 11.4) -4.4 (6.3 to 2.5) 2.4 (0.3 to 4.5)	107 544 (84752 1017 208) 7 655 0831 (5796 10 1083) (31025 10 51 860) (31025 10 51 860) (46 496 10 73 446) (46 496 10 714 274) (48 205 10 10 10 10 10 10 10 10 10 10 10 10 10	629 (886 to 813) 488 (568 to 646) 483 (567 to 627) 667 (524 to 848) 554 (427 to 713) (390 to 677) (390 to 677) 444 (332 to 588)	(7.1 to 13.0) 11.7 (17.2 to 6.3) 21.5 (27.0 to -16.9) -3.0 (6.8 to 0.3) 16.5 (20.6 to -12.5) 8.9 (13.0 to -5.6) 14.5 (18.1 to -11.7) (0.5)
Belgium Cyprus Denmark Finland France Germany Grece	19 201 (1734 20 672) (2734 20 672) (28 046 (26 047 20 076) (15 15 15 (29 20 17 29) (8 011 10 9 402) (17 948 (15 700 19 322) (15 45 43 (14 22 98 10 15 96) (16 011 10 19 76 57) (11 410 (16 550 12 25 8)	(117 to 136) 141 (131 to 151) 92 (78 to 105) 81 (75 to 87) 174 191 197 (96 to 120) 71 (66 to 76)	4.0 (31,4104.0) (36.1 (46.910.18.1) (64.77 to 58.2) (26.4 (32.210.19.5) (41.4 (46.510.36.8) (35.9 (42.610.28.5) (44.1 (48.210.39.7)	79 498 (165 864 10 10 479) 6 140 (10 10 479) 6 140 (10 10 479) 6 140 (12 10 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	488 (351 to 676) 396 396 (279 to 550) 402 (285 to 555) 494 595 (291 to 682) (201 to 590) (201 to 590) (201 to 597) (289 to 567) (289 to 567) (290 to 566) 411 (290 to 566) 400	(15.3 to -11.5) 15.0 (12.5 to 17.6) -3.2 (5.6 to -1.2) (5.6 to -1.2) (5.7 to -1.2) (7.1 to 11.4) -4.4 (6.3 to -2.5) -4.4 (0.3 to 4.5) -4.9 (6.9 to -2.7) 5.1	107 544 107 545 7 655 721 137 308] 7 655 725 72 137 308] 107 107 107 107 107 107 107 107 107 107	629 (486 to 813) 488 (388 to 646) 483 (507 to 622) 667 (524 to 848) 535 (422 77 75) (384 to 677) 444 (32 to 588) 512 (393 to 667) 481	(7.1 to 13.0) 11.7 (17.2 to 6.3) (21.5 (27.0 to 16.9) -3.0 (6.8 to 0.3) 16.5 (20.6 to -13.5) -8.9 (13.0 to -5.6)
Belgium Cyprus Demmark Finland France Germany Greece Iceland	19 701 17 743 P2 06 672] 28 046 10 10 10 10 10 (12 92 10 1 10 10 10 10) (12 92 10 1 729) (12 92 10 1 729) (13 700 10 13 12) (14 700 10 13 12) (14 700 10 13 10 10 10 10 10 10 10 10 10 10 10 10 10	(117 to 136) (141 (131 to 151) (123 to 151) (124 to 151) (127 to 105) (131 (127 (127 (127 (127 (127 (127 (127 (12	4.0 (1)4.140.4(0) (36.1) (46.9 to 18.1) (41.7 to 58.7) (26.4 to 19.8) (41.2 to 19.9) (41.4 to 19.8) (42.2 to 19.9) (42.2 to 19.9) (42.2 to 19.9) (42.2 to 19.9) (42.2 to 19.9) (42.2 to 19.9) (42.2 to 19.9)	79 498 (1997) 1914	488 (351 6276) 396 396 396 397 (281 955) 494 (351 9682) 427 (201 955) 373 (262 10 515) 411 (290 956) 400 400 (201 956)	(15.3 to 11.5) (12.5 to 17.6) (2.5 to 17.6) (5.6 to 1.3) (5.6 to 1.3) (5.6 to 1.3) (5.7 to 1.3) (7.1 to 1.3) (8.3 to 2.5) (8.3 to 2.5) (8.3 to 2.5) (8.3 to 2.5) (8.3 to 2.5) (8.3 to 2.7) (8.3 to 2.7) (9.3 to 1.5) (10.5 to 1.3) (10.5 to 1.3) (10.5 to 1.3) (10.5 to 1.3) (10.5 to 1.3)	107 544 8272147137081 (5.798 (5.10.083) 1.798 (5.10.083) 1.39963 (31.075 (5.1.866) 1.38.103 (4.1.873 (629 (486 to 313) 488 (588 to 546) (867 to 532) 667 (524 to 848) 554 (427 to 715) 532 (32 to 588) 512 (32 to 588) 512 (32 to 588) 512 (32 to 588) 512 (32 to 588) 512 (32 to 588) 512 (33 to 657)	(7.1013.0) (11.7) (17.210.6.3) (27.20.16.9) (28.10.16.9) (48.10.3) (49.10.13.5)
Brigium Cyprus Dennark Finland France Germany Greece Icoland Ireland	19 701 (17.743 to 2)6 6721 28 046 (29.047 to 10.076) (1.292 to 1.729) (8 011 to 9 402) (1.292 to 1.729) (8 011 to 9 402) (1.394 to 1.739 to	(117 to 136) 1141 (131 to 131) (231 to 131)	4.0 (314104.0) (361.81) (46.719.81) (46.719.98.7) (46.719.98.7) (46.719.98.7) (47.109.81) (48.109.98.7)	79 498 (165 864 10 10 479) 6 140 (10 10 479) 6 140 (10 10 479) 6 140 (12 10 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10	488 (351 to 676) 396 396 (279 to 550) 402 (285 to 555) 494 595 (291 to 682) (201 to 590) (201 to 590) (201 to 597) (289 to 567) (289 to 567) (290 to 566) 411 (290 to 566) 400	(15.3 to 1.15) (15.5 to 17.6) (12.5 to 17.6) (12.5 to 17.6) (12.5 to 17.6) (12.5 to 17.6) (13.5 to 17.6) (13.5 to 17.6) (14.5 to 17.6) (15.5	107 544 184721:1173081 (7786:010:083) 39963 (310:15:05:186) (46:986:07:146) 56:1879 (46:986:07:146) (46:986:07	629 (486 to 813) 488 488 (88 to 946) 67 (52 to 848) 554 (427 to 715) 518 (98 to 67) 481 (98 to 67) 486 (98 to 67)	(7.1 to 13.0) (11.7) (11.7) (11.7 to 6.3) (21.5) (22.0 to 16.9) (48.0 0.3) (48.0 0.3) (48.0 0.3) (49.0 to 13.5)
Belgium Cyprus Demmark Finland France Germany Greece Icel and Irradid Israel	19 201 (17 74140 20672) (17 74140 20672) (17 74140 20672) (18 6047 03 100 76) (18 6047 03 100 76) (18 6047 03 100 76) (18 6047 03 100 76) (18 6047 03 100 76) (18 610 76) (18 61110 197 657) (18 61110 197 677) (18 61110 197	(117 to 136) (141 to 131) (131 to 131)	4.0 (1)4.10 to (1) (36.1 to (1) to (1) (46.7 to (8.2)) (46.7 to (8.2)) (46.7 to (8.2)) (46.5 to (8.6)) (47.5 to (1) to (1) (48.5 to (1) to (1) (48.2 to (1) to (1) (49.2 to (1) to (1) (49	79 498 140 109 479] 6 140 109 479] 6 140 109 479] 6 140 109 479] 6 140 109 479] 6 140 109 479] 6 140 109 479 6 140	488 (351 6276) 396 396 (221 0550) (225 10 550) (225 10 550) (225 10 550) 494 (350 10 682) 407 407 407 (251 0550) 408 409 409 400 400 400 400 400 400 400 400	(15.3 to 11.5) (15.5 to 17.6) (12.5 to 17.6) (12.5 to 17.6) (13.6 to 17.6) (14.6 to 17.6) (14.6 to 17.6) (14.6 to 17.6) (14.6 to 17.6) (15.1	107 544 8272147137081 (5.798 (5.10.083) 1.798 (5.10.083) 1.39963 (31.075 (5.1.866) 1.38.103 (4.1.873 (629 (486 to 313) 488 (588 to 546) (867 to 532) 667 (524 to 848) 554 (427 to 715) 532 (32 to 588) 512 (32 to 588) 512 (32 to 588) 512 (32 to 588) 512 (32 to 588) 512 (32 to 588) 512 (33 to 657)	(7.10130) (11.7) (1.7210.43) (21.7) (1.7210.43) (21.7) (21.7) (21.7) (21.7) (20
Belgium Cyprus Denmark Finland France Germany Greece Locland Ireland Issael Italy	19 201 (17 74140 26 672) (27 74140 26 672) (28 647 10 300 76) (30 76 10 300 76) (30 76 10 300 76) (30 76 10 300 76) (30 76 10 300 76) (30 76 10 300 76) (30 76 10 300 76) (30 76 10 300 76) (40 20 76 10 300 76) (40 76 10 300 76) ((117 to 136) (114 151) (114 151) (114 151) (114 151) (114 151) (114 151) (117 17) (1	4.0 (1)14161.0] (46.916.18.1) (46.716.98.2) (2)24.4 (41.716.98.2) (41.716.98.2) (41.716.98.2) (41.716.98.2) (42.716.98.2) (42.716.98.2) (43.716.98.2) (43.716.98.2) (43.716.98.2) (43.716.98.2) (43.716.98.2) (43.716.98.2) (44.716.48.2) (44.716.48.2) (44.716.48.2) (44.716.48.2) (44.716.48.2) (44.716.48.2) (44.716.48.2)	79 498 279 16 26 26 27 27 48 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	488 (b45 to 50) (279 to 50) (279 to 50) (40) (40) (40) (40) (40) (40) (40) (4	(3.3 to 11.5) (12.5 to 7.7) (12.5 to 7.7) (12.5 to 7.7) (2.5 to 1.7) (2.5 to 1.7) (2.5 to 1.7) (2.7) (2.7) (2.7) (2.7) (2.7) (2.7) (2.7) (2.7) (2.7) (2.7) (3.10 to 5.7) (4.3 to 5.7) (4.3 to 6.7) (5.3 to 6.7) (6.3	107 544 84721x137308 (7785 0.10 0.83) (7785 0.10 0.83) (3795 0.10 0.83) (310 0.75 0.51 860) (310 0.75 0.51 860) (46.98 0.77 461) (46.98 0.77 462) (48.97 0.77 463) (48.97 0.77 472) (48.97 0.87 1.87 5.77) (48.97 0.87 5.77) (48.97	637 (485:0313) (485:0313) (485:0314) (481:046) (481:046) (487:043) (487:043) (487:0513) (487:0513) (487:0715) (487:0513) (487:0513) (487:0715)	(7.1 to 13.0) (11.7) (12.7 to 4.3) (12.7 to 14.5) (2.2 to 14.5) (2.3 to 14.5) (3.5 to 15.5) (4.5 to 15.5)
Belgium Cypris Demmark Finland France Germany Greece Iceland Irrahad Israel	19 201 (177418-026-72) (26-047-0-10-72) (26-047-0-10-72) (20-047-0-10-72) (20-047-0-10-72) (20-047-0-10-72) (20-047-0-72) (20-04	(117 to 136) 114 1 151 1 (111 103 151) (28 to 105) 81 1 (15 107) (15 107) (15 107) (16 108) (17 107) (17 107) (17 107) (17 107) (18 108)	4.0 (1)14/10-(0) (30.1 (30.1 (30.1 (40.1 (40.1) (40.1) (40.1) (40.1 (40.1) (40.1 (40.1) (40.1 (40.1 (40.1) (40.1 (40.1 (40.1) (40.1 (40.1 (40.1) (40.1 (40.1 (40.1) (40.1 (40.1 (40.1) (40.1 (40.1 (40.1) (40.1) (40.1 (40.1) (40.1) (40.1 (40.1) (40.1) (40.1) (40.1 (40.1)	79 488 279 289 279 289 289 289 289 289 289 289 289 289 28	488 488 488 488 488 488 488 488 488 488	(15.3 to 11.5) (15.5 to 17.6) (15.5 to 17.6) (25.6 to 17.7) (3.5 to 17.6) (3.5 to 17.7) (7.1 to 11.4) (4.4 to 2.5) (4.9 to 2.7) (4.9 to 2.7) (4.9 to 2.7) (4.9 to 2.7) (5.6 to 17.7) (6.9 to 2.7) (7.1 to 11.4) (7.1	107 544 84721x137308 (7786 10 10 083) (7786 10 10 083) 39 963 (31 075 10 51 866) (44 12 06 10 74 27 24) 689 051 (44 12 06 10 74 27 24) (48 97 10 87 52 77 (48 97 10 87 10 87 (48 97 10 87 10 87 (48 97 10	629 (485-9318) (485-9318) (485-9318) (481-9318) (481-9318) (491-93	7.1 to 13.0 13.17 (12.7 to 14.5) (27.9 to 14.6) 3.0 3.0 (2.0 to 13.1) (2.0 to 13.1) (2.0 to 13.1) (3.0 to 2.1) (4.5 to 2.1) (4.5 to 2.1) (5.1 to 2.1) (5.1 to 2.1) (5.1 to 2.1) (5.1 to 2.1) (5.1 to 2.1) (5.1 to 2.1) (6.1 to 15.6) (7.2 to 2.2) (7.2 to 2.2)
Belgium Cyprus Dennark Finland France Germany Greece Iceland Israel Isaly Luxembourg Netherlands Norway	19 201 (17 24140 26472) (26 647 to 30 076) (26 647 to 30 076) (26 647 to 30 076) (27 22 261 729) (27 22 261 729) (27 22 261 729) (38 011 to 5 402) (39 110 5 402) (42 298 to 165 569) (42 298 to 165 569) (47 27 676) (46 111 to 137 657) (46 656 to 5 640) (57 078 05 5 550) (47 078 05 5	(117 to 136) (117 to 136) (111 to 131) (111 to 131) (178 to 105) (18 to 105) (19 to 107) (4.0 (1)14/10 (1) (46.919.18.1) (46.919.18.1) (42.19.19.19.1) (42.19.19.19.19.19.19.19.19.19.19.19.19.19.	79 458 277 274 275 275 275 275 275 275 275 275 275 275	488 (165 m55) (279 m550) (279 m550) (285 m55)	(15.3 to 11.5) (15.3 to 11.5) (15.5 to 17.6) (15.5 to 17.6) (5.6 to 1.3) (5.6 to 1.3) (5.6 to 1.3) (7.1 to 11.4) (4.4) (4.3 to 2.5) (7.1 to 11.4) (4.9 to 2.7) (9.0 to 3.7) (9	107-544 1472-14173-268 (5796-16-10-683) (5796-16-10-683) (5796-16-10-683) (5996-16-10-683)	637 (446:0233) (466:0246) (466:0246) (468:0466) (433) (437:0476) (524:0466) ((7.16.13.0) (1.17.10.13.1) (1.17.10.13.1) (1.17.10.16.1) (2.10.16.16.16.1) (2.10.16.16.16.1) (2.10.16.16.16.1) (2.10.16.16.16.16.1)
Belgium Cyprus Demmark Finland France Germany Greece Iceland Ireland	19 201 (177418-20672) (26047-03-10-76) (26047-03-10-76) (1515) (12922-01-729) (19017-03-76) (19017-0	(117 to 136) (117 to 136) (111 to 151) (117	4.0 (1)14/10.6 (66.910.18.1) (66.910.18.1) (64.710.98.2) (12.210.19.9) 41.4 (64.510.36.6) (22.610.98.9) (22.610.98.9) (24.510.98.9)	79 4 98 92 729 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1	488 (485 ms 5) (279 ms 5) (279 ms 5) (279 ms 5) (279 ms 5) (285 ms	(33.10.11.3) (15.10.11.2)	107-544 1472-1471-1758 (8796:10.10.83) 1976:10.10.83) 1996:10.10.83) 1996:10.10.83) 1996:10.10.83) 1996:10.10.83) 1996:10.10.83) 1996:10.10.83) 1996:10.10.83) 1996:10.10.83) 1996:10.10.10.10.10.10.10.10.10.10.10.10.10.1	632 (445-0213) (445-0213) (455-046) (433-046) (433-046) (432-047) (432-047) (432-047) (432-047) (432-047) (433-047) (434-047)	(7.1 0.13.0) (1.17) (1.12.10, 4.1) (1.12.10, 4.1) (2.20 10.16.9) (3.10) (4.8.10.0) (4.8.10.0) (2.0.10.10, 4.1) (2.0.10.10, 4.1) (2.0.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (3.10.10, 4.1) (4.10.10, 4.1) (4.10.10, 4.1) (4.10.10, 4.1) (4.10.10, 4.1) (4.10.10, 4.1)
Belgium Cprus Denmark Finland France Germany Greece Icidand Ireland Israel Ludand Israel Malta Netheriands Norway Portugal Spain	19 201 (177418-20672) (26047-03-10-76) (26047-03-10-76) (1515) (12922-01-729) (19017-03-10-76) (19017-03-76) (1901	(117 to 136) (117 to 136) (111 to 151) (111	4.0 (4.6 5) 10.18.1 (4.6 5) 10.18.1 (4.7 1) (4	79 4 98 92 729 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	488 (485-695) (P45-695) (P27-9550) (P27-9550) (P37-9550) (P37-9550	(3.3 to 1.13) (1.5 to 1.75) (1	107-544 167-1512-1513-1513-1513-1513-1513-1513-1513	632 (465-923) (465-923) (465-924) (467-923) (467-923) (477-923) (524-9849 (477-923) (524-9849 (477-923) (524-9849 (477-923) (524-9849 (477-923) (441-923) (477-923) (481-923) (4	(7.1 to 13.0) (1.17) (1.12 to 13.0) (1.17) (1.12 to 14.0) (2.0 to 16.9) (3.0) (4.8 to 0.3) (2.0 to 16.9) (4.8 to 0.3) (2.0 to 1.15) (2.0 to 1.15) (3.1 to 1.17) (4.1 to 1.
Belgium Cyprus Demmark Finland France Germany Greece Icoland Ireland Israel Isr	19 201 (17 7414 026472) (26 047 to 30 076 076 076 076 076 076 076 076 076 07	(117 to 136) (117 to 136) (111 to 131) (111 to 131) (178 to 105) (181 to 131) (178 to 105) (178 to 107) (178 to 137) (178 to 137) (179 to 137) (179 to 137) (179 to 138) (179	4.0 (1)14/10.6 (66.910.18.1) (66.910.18.1) (64.710.98.2) (12.210.19.9) 41.4 (64.510.36.6) (22.610.98.9) (22.610.98.9) (24.510.98.9)	79 458 527 52 52 52 52 52 52 52 52 52 52 52 52 52	488 (485 mode) (279 mode) (279 mode) (285 mode) (297 mode) (285 mo	(15.3 to 11.5) (15.3 to 11.5) (15.5 to 17.6) (15.5 to 17.6) (5.6 to 1.3) (5.6 to 1.3) (5.6 to 1.3) (5.7 to 11.4) (4.4) (4.3 to 2.5) (5.7 to 11.4) (4.9 to 2.7) (5.9 to 2.7) (5.9 to 2.7) (5.9 to 2.7) (6.9 to 2.7) (6	107-544 1472-14172-1581 (5796-16-10-83) (5796-16-10-83) (5796-16-10-83) (5996-10-83) (5996-16-10-83) (5996-16-10-83) (5996-16-10-83) (5996-16-	632 (445-0213) (445-0213) (455-046) (433-046) (433-046) (432-047) (432-047) (432-047) (432-047) (432-047) (433-047) (434-047)	(7.1 to 13.0) (1.17) (1.12 to 4.1) (1.12 to 4.1) (2.20 to 16.9) (3.0 to 16.9) (3.0 to 16.9) (4.6 to 0.3) (2.0 to 16.9) (4.6 to 0.3) (2.0 to 1.3) (2.0 to 1.3) (3.5 to 1.3) (4.5 to 1.3) (4.5 to 1.3) (4.5 to 1.3) (4.5 to 1.3)

	YLLs (95% UI)				YLDs (95% UI)				
Location	2017 counts	2017 age-standardised rates per 100.000	Percentage change in age- standardised rates between	2017 counts	2017 age-standardised rates per 100.000	Percentage change in age- standardised rates between	2017 counts	2017 age-standardised rates per 100.000	Percentage change in age- standardised rates between
United Kingdom	99 475 (97 198 to 101 657)	91 (89 to 93)	1990 and 2017 -6.6 (-9.2 to -4.4)	358 687 (254 601 to 495 597)	406 (286 to 561)	1990 and 2017 16.1 (14.6 to 17.4)	458 163 (354 175 to 593 849)	497 (378 to 650)	1990 and 2017 11.1 (9.2 to 12.6)
Latin America and Caribbean	831 890	144	-31.6	1 243 792	213	16.0	2 075 683	357	-9.4
	(805 313 to 853 332)	(140 to 148)	(-33.9 to -29.5)	(893 099 to 1 658 404)	(153 to 283)	(11.8 to 20.3)	(1 728 233 to 2 486 729)	(298 to 427)	(-14.2 to -5.0)
Andean Latin America	73 068	125	-22.4	95 766	167	6.3	168 834	291	-8.3
	(64 005 to 82 028)	(110 to 140)	(-36.4 to -9.3)	(68 412 to 130 236)	(119 to 227)	(1.3 to 11.6)	(138 604 to 202 617)	(239 to 350)	(-17.5 to -0.5)
Bolivia	(11 671 to 20 732) 28 705	(118 to 199) 179	-32.0 (-51.2 to -6.2) -24.9	16 734 (12 063 to 22 365) 29 188	(122 to 229) 186	(-0.5 to 8.0) -4.5	32 705 (25 922 to 40 004) 57 893	328 (260 to 398) 365	-17.1 (-30.9 to -1.3) -15.7
Ecuador	(25 462 to 32 280)	(159 to 201)	(-33.3 to -15.3)	(20 843 to 39 978)	(133 to 256)	(-9.5 to 0.8)	(48 905 to 68 161)	(308 to 431)	(-21.2 to -9.9)
	28 392	88	-16.6	49 844	156	13.6	78 236	244	0.4
Caribbean	(21 118 to 35 155)	(66 to 109)	(-44.8 to 11.6)	(35 701 to 67 959)	(112 to 212)	(7.5 to 20.3)	(61 448 to 97 774)	(192 to 305)	(-15.8 to 14.2)
	61 877	126	-7.3	82 026	165	22.1	143 904	291	7.3
Antigua and Barbuda	(55 871 to 67 608)	(113 to 138)	(-14.4 to 0.3)	(58 184 to 111 446)	(117 to 225)	(19.0 to 25.3)	(118 695 to 173 510)	(239 to 351)	(1.8 to 12.2)
	42	45	5.6	135	136	28.9	177	181	22.2
	(39 to 46)	(41 to 49)	(-5.4 to 17.4)	(96 to 184)	(96 to 186)	(23.9 to 33.6)	(139 to 227)	(142 to 231)	(16.4 to 27.6)
The Bahamas	315	85	2.8	554	144	22.5	870	229	14.3
	(285 to 349)	(77 to 93)	(-8.1 to 15.6)	(394 to 760)	(102 to 197)	(18.6 to 26.5)	(702 to 1 090)	(186 to 285)	(8.2 to 20.2)
Barbados	187	45	2.7	543	137	28.7	730	182	21.1
	(171 to 205)	(41 to 50)	(-7.6 to 13.7)	(386 to 744)	(97 to 187)	(23.5 to 33.6)	(570 to 932)	(143 to 233)	(15.3 to 26.5)
Belize	323 (298 to 350)	99 (92 to 107)	21.8 (5.9 to 36.1) -28.6	511 (367 to 689) 143	157 (112 to 210) 144	37.4 (32.8 to 42.0) 18.7	835 (691 to 1010) 197	256 (212 to 309) 197	30.9 (22.9 to 37.4)
Bermuda	54 (50 to 59) 32 784	52 (48 to 58) 187	-28.6 (-36.2 to -19.8) 3.6	(100 to 196) 29 238	(102 to 199) 179	18.7 (14.3 to 22.5) 18.0	(154 to 251) 62 022	(153 to 252) 366	(-5.3 to 6.3) 10.2
Cuba	(29 579 to 36 385)	(169 to 208)	(-7.4 to 16.0)	(20 550 to 40 057)	(126 to 246)	(14.1 to 21.9)	(52 440 to 73 158)	(308 to 434)	(3.5 to 17.0)
	63	80	45.8	118	145	37.5	181	224	40.4
Dominican Republic	(57 to 69)	(73 to 88)	(30.2 to 63.0)	(84 to 161)	(103 to 197)	(32.7 to 42.3)	(146 to 223)	(181 to 274)	(34.1 to 47.1)
	4 805	48	-25.0	14 658	147	22.6	19 463	195	5.9
Grenada	(3 829 to 6 164)	(39 to 62)	(-41.1 to 4.9)	(10 400 to 19 876)	(104 to 199)	(15.9 to 29.9)	(14 921 to 24 537)	(150 to 246)	(-3.2 to 16.5)
	125	90	-10.4	208	156	29.6	332	245	11.4
	(115 to 135)	(82 to 98)	(-19.2 to -0.7)	(148 to 280)	(111 to 211)	(25.4 to 33.7)	(271 to 407)	(199 to 300)	(4.5 to 17.0)
Guyana	1099	166	-2.6	1 140	169	28.4	2 240	335	10.9
	(950 to 1264)	(144 to 188)	(-17.4 to 12.3)	(817 to 1 531)	(122 to 226)	(23.7 to 32.8)	(1 869 to 2 639)	(281 to 395)	(1.5 to 19.7)
Haiti	10 499	118	-27.4	13 646	150	22.9	24 145	268	-5.8
	(7 098 to 14 401)	(83 to 159)	(-42.3 to -1.7)	(9 913 to 18 175)	(109 to 198)	(19.4 to 26.6)	(18 782 to 30 051)	(211 to 333)	(-19.5 to 11.3)
Jamaica	1 549 (1 217 to 1 835)	54 (42 to 63)	46.4 (11.2 to 75.7) 0.2	4 407 (3 140 to 5 989)	151 (107 to 204)	31.4 (26.6 to 36.1)	5 956 (4 677 to 7 581)	204 (160 to 260)	35.0 (25.8 to 43.5)
Puerto Rico	5 273 (4 850 to 5 716) 128	96 (89 to 105) 64	(-8.9 to 10.3)	9 617 (6 743 to 13 265) 281	172 (121 to 239) 141	29.9 (26.1 to 33.6) 26.9	14 890 (12 073 to 18 527) 408	269 (218 to 334) 205	17.4 (11.8 to 22.5) 14.7
Saint Lucia Saint Vincent and the Grenadines	(116 to 139) 166	(59 to 70) 130	-5.1 (-14.7 to 5.8) 32.3	(200 to 380) 211	(100 to 190) 164	(22.3 to 31.7) 43.0	(323 to 507) 376	(163 to 255) 294	(8.8 to 20.4) 38.1
Suriname	(151 to 181)	(119 to 143)	(18.3 to 48.0)	(151 to 282)	(117 to 219)	(38.6 to 47.6)	(311 to 450)	(244 to 352)	(30.5 to 45.7)
	599	106	7.5	940	162	30.0	1 539	268	20.0
Trinidad and Tobago	(532 to 669)	(95 to 119)	(-6.5 to 22.8)	(675 to 1 264)	(116 to 217)	(25.7 to 34.6)	(1 270 to 1 868)	(222 to 325)	(12.5 to 27.0)
	1 492	99	-15.7	2 512	153	18.1	4 003	252	2.0
	(1 201 to 1 824)	(80 to 120)	(-31.8 to 1.7)	(1 783 to 3 411)	(109 to 208)	(14.0 to 22.3)	(3 174 to 4 964)	(202 to 310)	(-7.5 to 11.3)
Virgin Islands	(1 201 to 1 824) 149 (126 to 169)	(80 to 120) 97 (84 to 111)	(-31.8 to 1.7) 3.3 (-14.2 to 21.3)	215 (151 to 295)	(109 to 208) 146 (103 to 202)	(14.0 to 22.3) 19.4 (14.3 to 24.6)	364 (293 to 451)	(202 to 310) 243 (197 to 301)	12.4 (2.6 to 21.0)
Central Latin America	311 994 (295 931 to 324 289)	127 (121 to 132)	-45.5 (-49.1 to -43.1)	432 420 (309 703 to 576 521)	178 (127 to 237)	-2.4 (-6.2 to 1.5)	744 415 (622 308 to 885 841) 113 623	305 (254 to 363)	·26.6 (-31.1 to -22.4)
Colombia	50 422 (43 923 to 57 797)	97 (84 to 111)	-51.7 (-58.1 to -44.3)	63 201 (44 728 to 85 716)	119 (84 to 161)	-16.8 (-20.6 to -12.9)	(93 753 to 136 539)	216 (179 to 259)	-37.2 (-42.5 to -31.8)
Costa Rica El Salvador	5 817 (5 135 to 6 361) 10 798	118 (104 to 129) 183	-23.0 (-32.6 to -15.7) -20.3	6 682 (4 695 to 9 104) 8 384	136 (96 to 186) 142	2.5 (-1.6 to 7.1) 1.0	12 499 (10 283 to 14 874) 19 182	254 (209 to 302) 325	-11.2 (-17.9 to -6.2) -12.2
El Salvador	(8 568 to 13 833)	(145 to 232)	(-36.2 to 8.8)	(5 924 to 11 289)	(100 to 191)	(-4.5 to 6.8)	(15 969 to 23 191)	(271 to 391)	(-22.7 to 6.1)
Guatemala	25 285	187	-34.3	19 652	149	-2.7	44 937	336	-23.3
Honduras	(22 235 to 28 548) 5 772	(165 to 211) 77	(-42.5 to -25.5) -32.0	(14 091 to 26 266) 10 016 (7 190 to 13 388)	(107 to 198) 132	(-6.4 to 1.2) 11.2	(38 275 to 52 302) 15 788 (12 603 to 19 539)	(286 to 390) 209	(-29.7 to -17.2) -9.8 (-21.2 to 2.8)
Mexico	(4 482 to 7 612)	(58 to 103)	(-50.4 to -7.7)	(7 190 to 13 388)	(95 to 176)	(6.5 to 15.6)	(12 603 to 19 539)	(166 to 257)	(-21.2 to 2.8)
	173 248	143	-47.2	272 504	228	3.8	445 752	371	-24.4
	(162 372 to 178 651)	(135 to 148)	(-51.6 to -45.3)	(195 339 to 361 744)	(162 to 302)	(-0.8 to 8.2)	(369 909 to 534 652)	(308 to 446)	(-29.8 to -19.8)
Nicaragua	5 0 2 8	95	-30.2	6 742	126	4.1	11 770	221	-14.0
	(4 3 0 7 to 5 8 7 1)	(81 to 110)	(-41.3 to -16.2)	(4 828 to 9 082)	(90 to 169)	(-0.6 to 9.1)	(9 661 to 14 209)	(181 to 266)	(-21.8 to -5.4)
Panama	3 933	100	-21.6	5 046	127	3.2	8 979	227	-9.4
	(3 502 to 4 355)	(89 to 111)	(-30.5 to -12.8)	(3 560 to 6 885)	(89 to 173)	(-1.9 to 7.9)	(7 443 to 10 750)	(188 to 271)	(-15.5 to -4.2)
Venezuela	31 692 (27 091 to 37 025) 384 951	107 (92 to 125) 170	-38.5 (-47.5 to -28.0) -23.2	40 194 (28 434 to 54 748) 633 580	137 (97 to 186) 270	-8.8 (-13.1 to -4.7) 33.2	71 885 (58 075 to 87 477) 1018 530	244 (198 to 295)	·24.8 (·30.9 to ·18.4)
Tropical Latin America	(369 410 to 395 868)	(163 to 174)	(-27.4 to -20.2)	(457 986 to 844 999)	(195 to 361)	(28.0 to 38.5)	(845 849 to 1 226 178)	(366 to 528)	(-2.0 to 9.4)
	378 758	171	-23.6	620 786	272	33.8	999 544	443	3.7
Brazil	(363 124 to 389 681)	(164 to 177)	(-27.9 to -20.5)	(448 970 to 827 987)	(196 to 363)	(28.4 to 39.1)	(829 821 to 1 202 599)	(369 to 532)	(-2.2 to 9.3)
Paraguay	6 193	107	19.8	12 793	209	10.6	18 986	316	13.5
North Africa and Middle East	(4 735 to 7 588)	(82 to 131)	(-17.5 to 56.9)	(9 015 to 17 253)	(148 to 282)	(6.1 to 14.9)	(14 987 to 23 650)	(250 to 391)	(0.2 to 25.8)
	845 178	151	-29.4	891 722	164	-11.6	1 736 900	315	-21.1
North Africa and Middle East	(737 652 to 930 109)	(130 to 165)	(41.1 to -2.6)	(631 423 to 1 220 846)	(117 to 224)	(-15.2 to -8.0)	(1 448 630 to 2 074 624)	(262 to 376)	(-29.7 to -7.5)
	845 178	151	-29.4	891 722	164	-11.6	1 736 900	315	-21.1
	(737 652 to 930 109)	(130 to 165)	(41.1 to -2.6)	(631 423 to 1 220 846)	(117 to 224)	(-15.2 to -8.0)	(1 448 630 to 2 074 624)	(262 to 376)	(-29.7 to -7.5)
Afghanistan	153 728	457	-30.3	45 605	197	-3.4	199 333	654	-24.0
	(122 514 to 192 511)	(379 to 552)	(-58.3 to 85.3)	(33 461 to 60 614)	(144 to 260)	(-5.7 to -1.4)	(166 288 to 239 257)	(558 to 765)	(-50.2 to 44.0)
Algeria	49 559	125	-26.3	61 743	159	-15.5	111 302	284	-20.6
	(37 875 to 67 803)	(96 to 169)	(-41.7 to 2.5)	(43 718 to 85 355)	(113 to 220)	(-19.5 to -11.6)	(88 342 to 140 831)	(226 to 358)	(-29.0 to -8.1)
Bahrain	721	48	-36.6	2 483	158	-4.1	3 204	206	-14.3
	(473 to 930)	(35 to 59)	(-50.4 to -10.3)	(1 750 to 3 402)	(112 to 217)	(-8.7 to 0.8)	(2 424 to 4 226)	(158 to 268)	(-21.4 to -5.8)
	124 914	142	-26.4	122 849	149	-9.8	247 763	291	-18.7
Egypt	(92 504 to 156 122)	(104 to 180)	(-41.7 to 3.1)	(86 980 to 167 786)	(106 to 203)	(-14.5 to -5.1)	(196 727 to 300 405)	(228 to 354)	(-29.5 to -4.0)
	96 728	123	-39.5	139 116	168	-7.8	235 844	292	-24.6
Iraq	(86 702 to 113 091)	(110 to 142)	(-48.4 to -18.5)	(98 188 to 192 417)	(119 to 233)	(-11.9 to -3.8)	(190 975 to 290 941)	(238 to 359)	(-31.6 to -13.8)
	15 749	40	-62.7	60 091	168	17.4	75 840	208	-16.9
Jordan	(13 236 to 20 527) 7 870	(35 to 50) 79	(-74.7 to -34.3) -43.4	(43 196 to 80 640) 12 727	(121 to 225) 140 (99 to 193)	(14.0 to 20.8) -11.5	(58 724 to 95 554) 20 597	(161 to 264) 219	(-31.9 to -0.4) -26.5
Kuwait	(6 592 to 9 366)	(68 to 93)	(-57.2 to -19.2)	(8 955 to 17 533)	(99 to 193)	(-15.9 to -7.4)	(16 593 to 25 733)	(176 to 273)	(-36.1 to -14.6)
	4 3 19	91	-28.8	7 644	180	-8.7	11 962	271	-16.6
	(3 805 to 4 820)	(80 to 100)	(-37.0 to -20.2)	(5 399 to 10 630)	(127 to 249)	(-11.5 to -5.9)	(9 667 to 14 896)	(218 to 337)	(-20.8 to -12.7)
Lebanon	6 8 5 6	97	-33.3	11 541	151	-5.0	18 397	248	-18.5
	(3 9 8 9 to 1 4 3 6 5)	(58 to 179)	(-54.9 to -4.1)	(8 077 to 16 034)	(106 to 209)	(-9.7 to -0.3)	(13 314 to 25 882)	(181 to 341)	(-30.5 to -4.9)
Libya	9 723	148	-21.7	9 877	155	-19.6	19 600	303	-20.6
	(6 104 to 13 107)	(95 to 197)	(-50.6 to 7.7)	(6 964 to 13 652)	(109 to 214)	(-23.4 to -15.8)	(14 408 to 24 404)	(226 to 376)	(-37.2 to -6.5)
Morocco	46 783	137	-22.0	53 585	153	-6.1	100 368	289	-14.4
	(35 573 to 60 920)	(104 to 176)	(-39.3 to 7.4)	(38 169 to 73 167)	(108 to 208)	(-10.2 to -2.1)	(79 713 to 123 893)	(231 to 355)	(-25.3 to 0.1)
	5 606	123	-36.9	6 143	159	-1.3	11 749	282	-20.8
Palestine	(3 679 to 7 122)	(85 to 150)	(-52.5 to -12.8)	(4 386 to 8 354)	(114 to 217)	(-3.9 to 1.4)	(8 989 to 14 630)	(220 to 350)	(-33.6 to -7.0)
Oman	3 164	82	-31.1	6 211	150	-7.6	9 374	231	-17.5
Qatar	(2 475 to 4 059)	(66 to 100)	(-51.3 to 7.6)	(4 326 to 8 601)	(105 to 208)	(-12.1 to -3.3)	(7 329 to 11 957)	(183 to 294)	(-29.7 to -2.3)
	3 9 1 1	123	-29.2	5 274	193	-12.2	9 184	317	-19.7
Saudi Arabia	(1 933 to 5 482)	(81 to 161)	(-54.2 to 0.2)	(3 681 to 7 341)	(136 to 267)	(-15.7 to -8.7)	(6 461 to 12 013)	(243 to 408)	(-33.3 to -7.1)
	71 193	237	-24.3	60 333	201	-22.1	131 525	438	-23.3
	(50 219 to 98 514)	(165 to 324)	(-54.7 to 19.7)	(42 538 to 83 407)	(143 to 278)	(-26.3 to -17.8)	(100 977 to 166 670)	(336 to 549)	(-43.1 to -1.3)
Sudan	62 630 (45 545 to 85 170)	160 (118 to 216)	-31.7 (-55.9 to 15.9)	(42 538 to 83 407) 55 604 (40 799 to 73 076)	(143 to 278) 181 (134 to 235)	-1.5 (-5.6 to 2.4)	118 234 (92 316 to 148 717)	341 (267 to 422)	-18.5 (-38.5 to 6.4)
Syria	10 415	64	-30.2	23 839	145	5.4	34 254	209	-8.8
	(8 353 to 12 594)	(51 to 78)	(-46.3 to -5.9)	(16 805 to 32 947)	(103 to 201)	(0.3 to 10.8)	(26 743 to 43 333)	(163 to 265)	(-18.8 to 1.5)
Tunisia	10 037	88	-32.1	18 078	148	-9.1	28 115	236	·19.3
	(7 350 to 13 740)	(64 to 121)	(-49.1 to -8.3)	(12 753 to 24 997)	(104 to 204)	(-13.7 to -4.0)	(21 535 to 36 202)	(180 to 302)	(·29.3 to ·8.9)
	94 737	117	-55.4	130 952	151	-31.5	225 689	268	·44.5
Turkey	(83 728 to 105 727) 20 352	(103 to 132) 181	-55.4 (-66.4 to -34.5) -25.5	(92 435 to 181 480) 21 344	(106 to 210) 197	-31.5 (-36.1 to -26.6) -26.7	(184 708 to 278 346) 41 696	(221 to 329) 378	-44.5 (-53.6 to -32.7) -26.1
United Arab Emirates Yemen	(10 756 to 29 408)	(116 to 243)	(-52.0 to 14.3)	(15 034 to 29 320)	(139 to 270)	(-30.3 to -23.1)	(29 158 to 54 903)	(281 to 478)	(-41.0 to -9.7)
	45 393	163	-25.7	35 852	159	-5.8	81 245	323	-17.0
South Asia	(30 686 to 64 606)	(112 to 226)	(-51.9 to 59.4)	(26 034 to 48 122)	(116 to 213)	(-9.2 to -2.8)	(61 017 to 105 070)	(245 to 409)	(-37.2 to 17.3)
	6 234 779	436	-12.4	2 920 997	191	21.3	9 155 776	627	-4.3
South Asia	(5 691 038 to 6 837 136)	(401 to 482)	(-24.1 to 5.0)	(2 112 287 to 3 879 064)	(138 to 254)	(18.0 to 24.7)	(8 198 592 to 10 227 260)	(564 to 696)	(-14.4 to 8.9)
	6 234 779	436	-12.4	2 920 997	191	21.3	9 155 776	627	-4.3
	(5 691 038 to 6 837 136)	(401 to 482)	(-24.1 to 5.0)	(2 112 287 to 3 879 064)	(138 to 254)	(18.0 to 24.7)	(8 198 592 to 10 227 260)	(564 to 696)	(-14.4 to 8.9)
Bangladesh	190 047 (140 862 to 246 333)	138 (108 to 173)	-30.4 (-56.8 to 12.8)	203 154 (145 158 to 273 854)	(138 to 254) 143 (102 to 192)	21.8 (15.2 to 28.3)	393 201 (312 564 to 487 421)	281 (228 to 343)	-11.0 (-33.3 to 16.9)
Bhutan	2 527	349	-30.7	1 398	178	-2.5	3 925	528	-23.2
	(1 686 to 3 473)	(246 to 469)	(-49.2 to -1.5)	(1 011 to 1 874)	(129 to 237)	(-6.7 to 1.7)	(3 021 to 5 003)	(414 to 663)	(-37.4 to -1.4)
India	5 614 927 (5 153 557 to 6 180 884) 72 434	500 (460 to 555) 311	-13.6 (-25.3 to 3.4)	2 405 399 (1 739 948 to 3 195 447) 36 708	199 (144 to 264)	19.8 (16.7 to 23.0) 6.6	8 020 326 (7 216 843 to 8 914 148) 109 142	698 (628 to 775) 458	-6.1 (-16.4 to 7.3) -16.3
Nepal Pakistan	(52 704 to 95 796) 354 844	(232 to 400) 207	-24.0 (-41.9 to 6.3) -3.8	(26 461 to 49 047) 274 338	147 (106 to 197) 173	(2.8 to 10.1) 31.7	(85 684 to 135 751) 629 182	(364 to 560) 380	(-30.8 to 6.3)
Pakistan Southeast Asia, East Asia, and Oceania	(231 227 to 464 133)	(136 to 266)	(-29.3 to 27.2)	(198 293 to 365 294)	(125 to 230)	(27.5 to 36.1)	(487 063 to 762 998)	(296 to 459)	(-9.4 to 29.2)
	4 820 531	211	-21.5	3 103 790	123	53.9	7924 321	334	-4.3
East Asia	(3 868 525 to 5 229 697)	(172 to 229)	(-45.0 to -6.3)	(2 197 891 to 4 255 206)	(87 to 168)	(44.6 to 63.6)	(6 522 685 to 9 277 614)	(278 to 387)	(-25.9 to 8.7)
	3 397 124	208	-18.8	2 807 526	152	67.0	6 204 650	361	3.7
	(2 502 465 to 3 785 673)	(157 to 232)	(-49.2 to -2.7)	(1 983 847 to 3 858 130)	(108 to 209)	(56.7 to 77.7)	(4854 132 to 7 441 190)	(287 to 430)	(-25.0 to 18.2)
	3 238 257	209	-18.9	2 696 044	154	67.6	5 934 301	363	3.8
	(2 366 246 to 3 626 518)	(157 to 234)	(-50.1 to -2.3)	(1 905 183 to 3 703 498)	(109 to 211)	(57.0 to 78.5)	(4 623 849 to 7 121 496)	(288 to 433)	(-25.6 to 18.6)
China	(2 366 246 to 3 626 518)	(157 to 234)	(-50.1 to -2.3)	(1 905 183 to 3 703 498)	(109 to 211)	(57.0 to 78.5)	(4 623 849 to 7 121 496)	(288 to 433)	(-25.6 to 18.6)
	56 949	218	23.0	31 885	107	73.8	88 834	325	36.0
	(42 072 to 75 825)	(163 to 285)	(-12.8 to 71.0)	(22 859 to 43 323)	(76 to 144)	(66.6 to 81.1)	(71 086 to 111 167)	(261 to 405)	(6.9 to 71.6)
China North Korea		149	-42.4	34 369 (24 192 to 47 746)	108 (76 to 149)	28.0 (22.2 to 33.6)	81 561 (71 014 to 94 354)	257 (224 to 297)	-25.2 (-31.0 to -19.7)
	47 192 (43 935 to 50 654)	(140 to 160)	(-46.6 to -38.1)						
North Korea Taiwan (Province of China) Oceania	22 505	213	8.8	8 572	85	84.2	31 077	298	23.3
	(15 467 to 30 784)	(154 to 279)	(-16.5 to 33.7)	(6 230 to 11 524)	(62 to 114)	(78.1 to 90.0)	(23 277 to 39 776)	(232 to 372)	(-1.1 to 44.5)
North Korea Talwan (Province of China) Ceania American Samoa	22 505 (15 467 to 30 784) 57 (48 to 64)	213 (154 to 279) 118 (101 to 132)	8.8 (-16.5 to 33.7) -5.5 (-21.7 to 15.0)	8 572 (6 230 to 11 524) 42 (30 to 57)	(62 to 114) 82 (59 to 112)	(78.1 to 90.0) 51.7 (45.3 to 58.3)	(23 277 to 39 776) 98 (83 to 116)	(232 to 372) 200 (170 to 234)	(-1.1 to 44.5) 11.8 (-2.0 to 28.1)
North Korea Talwan (Province of China) Oceania American Samoa Federated States of Micronesia	22 505 (15 467 to 30 784) 57 (48 to 64) 127 (84 to 172) 751	213 (154 to 279) 118 (101 to 132) 147 (102 to 193) 91	8.8 (-16.5 to 33.7) -5.5 (-21.7 to 15.0) 2.2 (-30.5 to 39.2)	8 572 (6 230 to 11 524) 42 (30 to 57) 75 (54 to 101) 680	(62 to 114) 82 (59 to 112) 82 (59 to 110) 78	(78.1 to 90.0) 51.7 (45.3 to 58.3) 76.2 (68.3 to 84.1) 89.8	(23 277 to 39 776) 98 (83 to 116) 202 (156 to 257) 1 431	(232 to 372) 200 (170 to 234) 229 (180 to 287)	(-1.1 to 44.5) 11.8 (-2.0 to 28.1) 20.2 (-8.3 to 50.5) 35.9
North Korea Talwan (Province of China) Oceania American Samoa	22 505 (15 467 to 30 784) 57 (48 to 64) 127 (84 to 172)	213 (154 to 279) 118 (101 to 132) 147 (102 to 193)	8.8 (-16.5 to 33.7) -5.5 (-21.7 to 15.0) 2.2 (-30.5 to 39.2)	8 572 (6 230 to 11 524) 42 (30 to 57) 75 (54 to 101)	(62 to 114) 82 (59 to 112) 82 (59 to 110)	(78.1 to 90.0) 51.7 (45.3 to 58.3) 76.2 (68.3 to 84.1)	(23 277 to 39 776) 98 (83 to 116) 202 (156 to 257)	(232 to 372) 200 (170 to 234) 229 (180 to 287)	(-1.1 to 44.5) 11.8 (-2.0 to 28.1) 20.2 (-8.3 to 50.5)

Part			YLLs (95% UI)			YLDs (95% UI)			DALYs (95% UI)		
Part	Location	2017 counts		standardised rates between	2017 counts		standardised rates between	2017 counts		standardised rates between	
Company	Marshall Islands		178	14.4		81	87.1		259	30.3	
Company Comp		48	107	0.8	42	80	45.6	90	187	16.1	
Teach	Papua New Guinea	15 202	195	12.5	5 790	80	95.4 (87.6 to 103.7)	20992	275	28.3 (-5.5 to 58.9)	
The color	Samoa	189	117	6.3	145	88	80.4	334	204	29.1	
Column	Solomon Islands	4 077 (3 281 to 4 903)	823 (680 to 973)	-15.8 (-33.8 to 6.2)	759 (551 to 1 003)	162 (117 to 213)	(31.1 to 37.7)	4 836 (4 037 to 5 653)	986 (843 to 1 131)	-10.3 (-27.4 to 9.7)	
Part		(70 to 96)	(80 to 110)	(-22.7 to 21.2)	(54 to 102)	(59 to 111)	(68.7 to 85.3)	(132 to 187)	(149 to 209)	(6.3 to 40.6)	
Company		(245 to 525)	(107 to 219)	(-21.7 to 65.7)	(159 to 294)	(70 to 129)	(83.9 to 98.2)	(440 to 760)	(195 to 323)	(2.7 to 74.0)	
Section		(1 309 912 to 1 542 331) 50 273	(217 to 253) 383	(-39.2 to -14.9) -15.7	(208 176 to 385 489) 8 257	(32 to 60) 60	(-2.4 to 6.2) 36.0	(1565 442 to 1846 980) 58 529	(257 to 301) 443	(-35.0 to -12.6) -11.1	
		509 835	233	-42.9	86 103	35	-33.2	595 938	268	41.8	
Company		15 097	259	-12.2	2 992	52	50.9	18 089	311	+5.5	
Description	Malaysia	21 467	79	-24.4	12 333	42	43.8	33800	121	-9.5	
Control	Maldives	410	111	-51.9	181	43	7.4	590	153	-43.2	
Property	Mauritius	2 0 3 9 (1 8 2 5 to 2 2 5 6)	139 (125 to 154)	28.6 (13.0 to 44.4)	700 (496 to 965)	46 (32 to 63)	44.0 (37.1 to 50.6)	2 739 (2 450 to 3 060)	185 (166 to 206)	32.1 (19.6 to 44.7)	
	Myanmar	202 682 (170 674 to 243 608)	423 (362 to 499)	-24.2 (-44.4 to 2.1)	30 599 (22 257 to 40 838)	61 (44 to 81)	27.5 (22.3 to 32.4)	233 281 (201 357 to 274 562)	483 (418 to 562)	(-39.7 to 4.7)	
1906		(121 329 to 157 940)	(137 to 175)	(26.3 to 65.9)	(26 428 to 50 029)	(29 to 55)	(59.6 to 75.5)	(156 260 to 198 222)	(174 to 220)	(33.6 to 66.0)	
Process		(41 342 to 64 975)	(184 to 283)	(-37.8 to 7.1)	(8 269 to 16 129)	(35 to 68)	(20.4 to 33.8)	(52 641 to 77 638)	(232 to 337)	(-30.9 to 9.7)	
	,	(157 to 219) 105 080	(145 to 200) 123	(-25.9 to 9.1) -42.2	(39 to 76) 39 279	(35 to 68) 44	(30.0 to 44.0) 14.4	(208 to 279) 144 359	(191 to 254) 167	(-17.4 to 14.6) -33.5	
Control Cont		2 166	205	-4.1	499	50	56.7	2 666	256	3.9	
Column		299 251	327	-8.2	57 685	59	32.1	356 935	387	-3.7	
Control Cont	Sub-Saharan Africa	1 283 950	189	-19.0	1 229 845	184	-2.6	2513796	374	-11.7	
Profess Prof	Central sub-Saharan Africa	132 699	159	-15.0	128 392	167	3.5	261 092	326	-6.5	
Company	Angola	34 760 (26 892 to 50 985)	189 (150 to 261)	-23.9 (-46.4 to 19.0)	29 496 (21 418 to 39 602)	184 (134 to 245)	-3.8 (-6.1 to -1.5)	64 256 (51 804 to 81 692)	374 (303 to 456)	-15.1 (-31.2 to 6.4)	
		6 146 (3 475 to 12 051)	186 (121 to 316)	-8.4 (-31.7 to 23.6)	5 023 (3 653 to 6 672)	156 (114 to 208)	11.5 (8.9 to 14.3)	11169 (7827 to 17407)	343 (259 to 475)	-0.2 (-14.3 to 17.6)	
Property		(3 856 to 9 027)	(112 to 261)	(-43.7 to 6.6)	(4 325 to 7 956)		(-5.0 to -0.6)	(9 031 to 15 279)		(-27.9 to 2.0)	
Professor Prof		(54 823 to 138 829)	(109 to 213)	(-30.0 to 19.1)	(61 487 to 111 188)		(3.7 to 9.0)	(128 290 to 224 729)		(-14.2 to 12.2)	
Common C		(704 to 2 031)	(91 to 248)	(-62.3 to 13.6)	(910 to 1 705)	(119 to 222)	(1.4 to 11.7)	(1 842 to 3 253)	(237 to 410)	(-39.1 to 11.6)	
		(1 550 to 3 440) 534 844	(123 to 257)	(-43.4 to 0.9)	(1 729 to 3 201)	(135 to 247)	(-15.6 to -10.9)	(3 607 to 5 872)	(283 to 446) 468	(-29.9 to -6.2)	
Company Comp		13 690	225	-30.2	15 009	222	-7.1	28699	447	-20.4	
December	Comoros	920	177	-27.3	1 330	235	-8.7	2 250	412	-17.8	
Decompose	Djibouti	1320	187	-21.4	1 994	242	-10.1	3 314	429	·15.4	
Section 1940	Eritrea	7992	231	-18.4	8 765	232	-0.1	16.758	462	-10.2	
Maringer	Ethiopia	144 032		-33.1 (-52.0 to -3.5)	139 331	228	-4.8 (-6.9 to -2.9)		466 (388 to 551)		
October Octo	Kenya	63 203 (55 217 to 76 054)	230 (205 to 270)	-7.2 (-31.4 to 15.3)	96 950 (70 610 to 128 483)		8.5 (6.3 to 10.8)	160 153 (132 620 to 193 453)	528 (440 to 630)	1.0 (-15.1 to 11.4)	
Principal Prin		(19 652 to 34 352)	(129 to 215)	-28.9 (-43.5 to -8.6)	38 628 (27 879 to 51 439)	(166 to 305)	(8.0 to -2.8)	(51 826 to 79 083)	(317 to 480)	-17.0 (-25.1 to -7.2)	
Particle		(23 145 to 33 643) 52 374	(215 to 298) 305	(-34.3 to 47.8) -8.0	(17 634 to 32 346) 41 139	(161 to 294) 237	(-3.6 to 1.8) -2.7		(402 to 556) 542	(-21.9 to 20.7) -5.8	
Design		15 256	200	-36.8	18 739	224	-9.9	33995	424	-24.9	
Control Cont		18 610	193	-12.0	24 328	234	9.2	42939	427	-1.5	
Terminal 1974 277 132 1319 241 27 16782 45 45 45 16782		12 594	207	-8.6	14 496	241	3.4	27090	448	-2.5	
Septembox Sept	Tanzania	86 274	227	-12.0	83 589	243	0.2	169 862	470	-6.0	
Compose Comp	Uganda	36 951	169	-12.7	51 097	224	17.5	88 048	393	2.3	
Section of Company Section Section Section Section Section Section Secti	Zambia	(23 300 to 32 623)	274 (236 to 316)	(-38.7 to 7.4)	(18 913 to 34 499)		-3.6 (-5.8 to -1.4)	(44 834 to 63 373)	(446 to 609)	(-25.3 to 2.1)	
Company Comp	Southern sub-Saharan Africa	(37 637 to 46 623)		(-33.3 to -3.3)	(56 207 to 106 673)	(84 to 157)		(97 464 to 148 485)	(150 to 224)	(-14.3 to 0.6)	
1,175 1,17		(812 to 1536)	(53 to 93)		(1 529 to 2 914)	(82 to 155)		(2 517 to 4 124)	(146 to 228)	(-25.1 to -3.6)	
Marcian Marc		(1 157 to 2 072)	(84 to 146)		(1 325 to 2 454)	(84 to 156)		(2 691 to 4 171)	(183 to 279)	(-17.2 to 26.9)	
Western and School 1,000		(1 169 to 1 805) 26 015	(73 to 107) 54	(-36.7 to -0.4) -24.6	(1 578 to 2 955) 57 918	(86 to 160) 114	(-10.4 to -3.9) 1.1	(2 904 to 4 441) 83 934	(167 to 248) 168	(-22.8 to -4.4) -8.9	
China		723	99	-13.3	951	115	-2.4	1674	214	-7.7	
Western West		10 723	125	13.3	13 591	133	13.0	24314	258	13.1	
Bern 13189	Western sub-Saharan Africa	574 775	199	-20.1	436 774	159	-10.5	1011550	358	-16.1	
Bushins Face 65 CSG 309 15.1 22.871 137 -7.1 68.898 496 12.3	Benin	13 189 (10 177 to 16 743)	184 (146 to 227)	-25.8 (-40.9 to -5.7)	11 574 (8 429 to 15 402)	158 (115 to 209)	-8.4 (-10.9 to -5.9)	24 763 (20 300 to 29 555)	342 (281 to 405)	-18.7 (-28.7 to -7.0)	
Cape Verde		45 026 (36 747 to 55 273)	309 (268 to 357)	-15.1 (-28.9 to 4.1)	23 871 (17 280 to 31 719)	187 (136 to 248)	-7.1 (-9.9 to -4.6)	68 898 (58 442 to 82 268)	496 (429 to 577)	-12.3 (-21.7 to -0.3)	
Color	Cameroon	(29 507 to 48 142)	(183 to 281)	(-36.8 to -2.4)	(20 874 to 38 671)	(118 to 216)	(-16.2 to -11.6)	(54 546 to 79 559)	(322 to 462)	(-28.1 to -7.0)	
100	Cape Verde	(212 to 282)	(43 to 57)	(-47.2 to -15.5)	(477 to 914)	(95 to 181)	(-5.5 to 2.2)	(719 to 1161)	(144 to 231)	(-20.7 to -5.3)	
100 100		(17 040 to 28 994)	(167 to 303)	(-21.4 to 20.1)	(10 435 to 18 994)	(121 to 219)	(2.2 to 7.3)	(29 726 to 44 687)	(311 to 482)	(-11.4 to 13.5)	
Chang		(27 605 to 45 054) 3 665	(180 to 284) 284	(-32.9 to 5.9) -7.6	(20 107 to 36 827) 2 176	(121 to 221) 154	(-10.3 to -5.9) -6.5	(51 849 to 75 590) 5 842	(326 to 467) 438	(-23.5 to -0.1) -7.2	
(471916 (417)		54 049	281	8.3	36 843	173	(-9.1 to -4.2) -0.3	90892	453	4.9	
(1) 608102-10-10-11 (176-02-98) (151-10-04) (151-06-65) (151-06-10		16 674	212	-18 2	12 5 1 5	162	-9.5		374	-14.7	
1.0 1.0		2.508	225	-28.4	1 797	151	-13.0	4 305	376	-22.9	
Main 27792	Liberia	4732	167	-36.4	4 663	146	-11.8	9 3 9 5	313	-26.9	
Mauritania 4182 163 224 428 158 158 157 8643 321 22.6	Mali	27 762 (20 300 to 37 237)	184 (141 to 256)	-28.4 (-43.3 to -3.8)	18 884 (13 629 to 25 255)	153 (110 to 204)	-9.0 (-11.9 to -6.1)	46 646 (36 887 to 57 982)	337 (272 to 419)	-20.7 (-30.9 to -6.1)	
Nger 23736 176 342 15008 158 9.5 42744 333 24.5 (1.61) 12.10	Mauritania	4 3 6 2 (3 1 6 1 to 6 0 2 9)	163 (123 to 220)	-28.4 (-44.0 to -2.2)	4 281 (3 090 to 5 745)	158 (115 to 211)	-15.7 (-18.2 to -13.0)	8 643 (6 860 to 10 663)	321 (261 to 392)	-22.6 (-31.4 to -8.3)	
Nigeria 244338 171 2-6.6 196819 153 -1.9 441.656 324 21.0 (171.6515-055248) (122-0241) (463.10-6.5) (141.4616-15422) (1111.0206) (165.0-11.1) (153.7010-150981) (257.0402) (22.10-6.3) (22.10-6.3) (23.10-6.00) (23.1	Niger	23 736 (16 631 to 34 106)	176 (126 to 264)	-34.2 (-51.0 to -10.7)	19 008 (13 780 to 25 463)	158 (114 to 210)	-9.5 (-12.1 to -6.8)	42 744 (33 584 to 54 166)	333 (261 to 430)	-24.5 (-36.3 to -9.9)	
SecTome and Principe (810 no.517 p.237 no.423) (2.8 no.5.4.6) (2.3 no.5.40) (1.51 no.299) (1.52 no.10.2) (659 no.822) (4.41 no.653) (2.1.5 no.7.6) (5.5 no.824) (4.2.5 no.7.6) (5.5 no.824) (4.2.5 no.7.6) (5.5 no.824) (5.5 no.8.4) (1.5 no.8.		244 838 (177 615 to 355 248)	171 (122 to 241)	-26.4 (-45.3 to 0.5)	196 819 (141 458 to 264 282)	153 (111 to 205)	-13.9 (-16.9 to -11.1)	441 656 (353 720 to 550 981)	324 (257 to 402)	-21.0 (-32.2 to -6.3)	
Sensigal [12.21/20.24877] [151 10.248] (53 10.18] [12.0710.21864] (1310.277) (13.80-7.0) (28.650-643.587) (9310.641) (55 100.34) Serra Leone (10.144) 2.05 -2.16 7.91 15.1 -9.9 183.56 3.56 -7.1 Serra Leone (10.190.10.349) (10.10.200) (12.310.76) (15.50.202.100) (19410.423) (29.10.49) 10.11 176 -56 7.99 15.1 -4.7 15.100 3.26 -4.33 10.12 -1.00		(380 to 637)	(237 to 423)	(-28.4 to 24.4)	(233 to 430)	(161 to 299)	(-16.2 to -10.2)	(659 to 982)	(441 to 663)	(-21.5 to 7.6)	
Serra Lecone (8.192 to 3.150.1) (1.681 0.256) (38.9 to 3.7) (5.802 to 10.566) (1.010 2.021) (42.3 to 7.6) (1.502 7.22 1.06) (29.1 to 4.2) (29.1 to 4.9) (42.3 to 7.6) (1.502 7.22 1.06) (29.1 to 4.9) (42.3 to 7.6)		(14 212 to 24 872)	(151 to 243)	(-35.3 to 1.8)	(12 007 to 21 864)	(119 to 217)	(-11.8 to -7.0)	(28 485 to 43 582)	(293 to 431)	(-25.0 to -3.4)	
Togo (6357 to 10 549) (142 to 221) (41.0 to -7.6) (5 777 to 10 703) (109 to 202) (12.4 to -7.0) (13 149 to 19 364) (270 to 388) (28.9 to -8.7)	Sierra Leone Togo	(8 192 to 13 601) 8 111	(168 to 256) 176	(-38.9 to 3.7) -26.0	(5 802 to 10 546) 7 989	(110 to 201) 151	(-12.3 to -7.6) -9.7	(15 052 to 22 106) 16 100	(294 to 423) 326	(-29.1 to -1.9) -19.3	