Bolarinwa, Obasanjo ORCID logoORCID: https://orcid.org/0000-0002-9208-6408 (2024) Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950–2021, and the impact of the COVID-19 pandemic: a comprehensive

demographic analysis for the Global Burden of Disease Study 2021. The Lancet Public Health, 403 (10440). pp. 1989-2056.

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Global age-sex-specific mortality, life expectancy, and population estimates in 204 countries and territories and 811 subnational locations, 1950–2021, and the impact of the COVID-19 pandemic: a comprehensive demographic analysis for the Global Burden of Disease Study 2021







GBD 2021 Demographics Collaborators*

Summary

Background Estimates of demographic metrics are crucial to assess levels and trends of population health outcomes. The profound impact of the COVID-19 pandemic on populations worldwide has underscored the need for timely estimates to understand this unprecedented event within the context of long-term population health trends. The Global Burden of Diseases, Injuries, and Risk Factors Study (GBD) 2021 provides new demographic estimates for 204 countries and territories and 811 additional subnational locations from 1950 to 2021, with a particular emphasis on changes in mortality and life expectancy that occurred during the 2020–21 COVID-19 pandemic period.

Methods 22 223 data sources from vital registration, sample registration, surveys, censuses, and other sources were used to estimate mortality, with a subset of these sources used exclusively to estimate excess mortality due to the COVID-19 pandemic. 2026 data sources were used for population estimation. Additional sources were used to estimate migration; the effects of the HIV epidemic; and demographic discontinuities due to conflicts, famines, natural disasters, and pandemics, which are used as inputs for estimating mortality and population. Spatiotemporal Gaussian process regression (ST-GPR) was used to generate under-5 mortality rates, which synthesised 30763 locationyears of vital registration and sample registration data, 1365 surveys and censuses, and 80 other sources. ST-GPR was also used to estimate adult mortality (between ages 15 and 59 years) based on information from 31642 location-years of vital registration and sample registration data, 355 surveys and censuses, and 24 other sources. Estimates of child and adult mortality rates were then used to generate life tables with a relational model life table system. For countries with large HIV epidemics, life tables were adjusted using independent estimates of HIV-specific mortality generated via an epidemiological analysis of HIV prevalence surveys, antenatal clinic serosurveillance, and other data sources. Excess mortality due to the COVID-19 pandemic in 2020 and 2021 was determined by subtracting observed all-cause mortality (adjusted for late registration and mortality anomalies) from the mortality expected in the absence of the pandemic. Expected mortality was calculated based on historical trends using an ensemble of models. In locationyears where all-cause mortality data were unavailable, we estimated excess mortality rates using a regression model with covariates pertaining to the pandemic. Population size was computed using a Bayesian hierarchical cohort component model. Life expectancy was calculated using age-specific mortality rates and standard demographic methods. Uncertainty intervals (UIs) were calculated for every metric using the 25th and 975th ordered values from a 1000-draw posterior distribution.

Findings Global all-cause mortality followed two distinct patterns over the study period: age-standardised mortality rates declined between 1950 and 2019 (a 62.8% [95% UI 60.5-65.1] decline), and increased during the COVID-19 pandemic period (2020–21; 5·1% [0·9–9·6] increase). In contrast with the overall reverse in mortality trends during the pandemic period, child mortality continued to decline, with 4.66 million (3.98-5.50) global deaths in children younger than 5 years in 2021 compared with 5·21 million (4·50-6·01) in 2019. An estimated 131 million (126-137) people died globally from all causes in 2020 and 2021 combined, of which 15.9 million (14.7-17.2) were due to the COVID-19 pandemic (measured by excess mortality, which includes deaths directly due to SARS-CoV-2 infection and those indirectly due to other social, economic, or behavioural changes associated with the pandemic). Excess mortality rates exceeded 150 deaths per 100000 population during at least one year of the pandemic in 80 countries and territories, whereas 20 nations had a negative excess mortality rate in 2020 or 2021, indicating that all-cause mortality in these countries was lower during the pandemic than expected based on historical trends. Between 1950 and 2021, global life expectancy at birth increased by 22.7 years (20.8-24.8), from 49.0 years (46.7-51.3) to 71.7 years (70.9-72.5). Global life expectancy at birth declined by 1.6 years (1.0-2.2) between 2019 and 2021, reversing historical trends. An increase in life expectancy was only observed in 32 (15.7%) of 204 countries and territories between 2019 and 2021. The global population reached 7.89 billion (7.67-8.13) people in 2021, by which time 56 of 204 countries and territories had peaked and subsequently populations have declined. The largest proportion of

Published Online March 11, 2024 https://doi.org/10.1016/ S0140-6736(24)00476-8

See Online/Comment https://doi.org/10.1016/ S0140-6736(24)00463-X

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Correspondence to: Prof Simon I Hay, Institute for Health Metrics and Evaluation, University of Washington, Seattle, WA 98195, USA sihay@uw.edu population growth between 2020 and 2021 was in sub-Saharan Africa (39.5% [28.4-52.7]) and south Asia (26.3% [9.0-44.7]). From 2000 to 2021, the ratio of the population aged 65 years and older to the population aged younger than 15 years increased in 188 (92.2%) of 204 nations.

Interpretation Global adult mortality rates markedly increased during the COVID-19 pandemic in 2020 and 2021, reversing past decreasing trends, while child mortality rates continued to decline, albeit more slowly than in earlier years. Although COVID-19 had a substantial impact on many demographic indicators during the first 2 years of the pandemic, overall global health progress over the 72 years evaluated has been profound, with considerable improvements in mortality and life expectancy. Additionally, we observed a deceleration of global population growth since 2017, despite steady or increasing growth in lower-income countries, combined with a continued global shift of population age structures towards older ages. These demographic changes will likely present future challenges to health systems, economies, and societies. The comprehensive demographic estimates reported here will enable researchers, policy makers, health practitioners, and other key stakeholders to better understand and address the profound changes that have occurred in the global health landscape following the first 2 years of the COVID-19 pandemic, and longer-term trends beyond the pandemic.

Funding Bill & Melinda Gates Foundation.

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Introduction

Understanding mortality and population trends over time and across locations, age groups, and sexes is crucial for planning population-specific public health policies. Age-specific mortality rates can indicate the emergence of new adverse health risks in specific locations, while population counts can inform resource allocation and aid in planning future development. The COVID-19 pandemic has highlighted the importance of demography in understanding disease and injury burden1 and the roles health policy and infrastructure have in health and demographic outcomes.12 As the COVID-19 pandemic enters an endemic phase in some locations, demographic indicators can provide important context for understanding and addressing COVID-19, long COVID-19,3 and the interaction between COVID-19 and other diseases and injuries. Furthermore, demographic trends in the decades before the COVID-19 pandemic and reversals in those trends during the first 2 years of the COVID-19 pandemic (2020-21) can provide insights into potential long-term effects of the pandemic. These shifts in demographic patterns, including in population growth and age distribution, can help policy makers and public health experts better understand how the pandemic has impacted different groups within society and inform strategies for future pandemic preparedness and health-care planning.

The Global Burden of Diseases, Injuries, and Risk Factors Study (GBD) is an evolving research effort that quantifies the state of global health. The scope of the study has historically included estimating key demographic metrics and comprehensive health metrics for a set of national and subnational locations that has expanded over time. Mortality has been estimated as part of GBD since the first GBD estimates were published in the 1993 World Bank World Development Report, and

mortality estimates have been included in each update since GBD 2010.5-10 A comprehensive, internally consistent modelling strategy for estimating population and fertility was introduced in GBD 2017, greatly improving the consistency of results.11 Previously, GBD drew on population estimates from the UN Population Division of the Department of Economic and Social Affairs (UNPD).12,13 In GBD 2019, the demographic analysis used population, fertility, and mortality estimates to produce a typology that better helped to specify phases of demographic transition.¹⁰ The GBD demography framework is part of the greater GBD enterprise; thus, it differs from other demographic research initiatives by using estimates of disease and injury burden to inform population and mortality estimates, and vice versa. Attempting to estimate the effects of the pandemic is now a major focus of GBD and other demographic research efforts. 12,14-16

The GBD 2021 demographic analysis improved on GBD 2019 by using additional data sources and refined methods to generate updated estimates of mortality, life expectancy, and population size at the global, regional, national, and subnational levels for each year from 1950 to 2021. GBD 2021 is the first round to incorporate the COVID-19 pandemic into the modelling process through the estimation of excess mortality due to the pandemic, defined as the net difference between the number of deaths that occurred between 2020 and 2021 and the number of deaths that would be expected over the same period based on previous trends in all-cause mortality.16 The unified approach to estimate all-cause mortality and excess mortality in GBD 2021 is an innovation in current demographic research methods. This facilitates analysis of the interplay between wider demographic processes and the COVID-19 pandemic. In this iteration of the GBD demographic analysis, we aim to

Research in context

Evidence before this study

The UN Population Division of the Department of Economic and Social Affairs (UNPD) produces estimates and projections of global, regional, and national demographic metrics that are updated biannually. Their latest findings, published in the World Population Prospects 2022 revision, incorporated WHO estimates of excess mortality due to the COVID-19 pandemic in 2020 and 2021. Estimates of excess mortality during the pandemic have also been generated by the Institute for Health Metrics and Evaluation and the World Mortality Dataset. The International Database of the US Census Bureau reports population estimates and projections for more than 200 countries and areas, of which a subset are updated every year. Organisations including WHO, the Organisation for Economic Co-operation and Development, and the European Union release demographic estimates less regularly and typically only for select metrics or locations. Some national statistics offices also produce their own demographic indicators. The Global Burden of Diseases, Injuries, and Risk Factors Study (GBD) generates regularly updated and globally comparable health metrics, including mortality, life expectancy, and population estimates for past years, and forecasts up to the year 2100. The current GBD 2021 cycle is directly preceded by GBD 2019, which reported demographic estimates for 204 countries and territories for each year from 1950 through 2019. While each of these studies represent important efforts to provide insights into demographic estimates and the COVID-19 pandemic, only GBD estimates comply with the Guidelines for Accurate and Transparent Health Estimates Reporting, which identifies best practices for reporting global health estimates.

Added value of this study

GBD 2021 is one of the first studies to fully evaluate demographic trends in the context of the first 2 years of the COVID-19 pandemic. The study employed a unified framework to calculate excess mortality rates due to the COVID-19 pandemic along with a comprehensive set of demographic metrics including all-cause mortality, life expectancy, and

population counts for 204 countries and territories and 811 subnational locations. This allowed estimates of all-cause mortality to inform estimates of excess mortality due to the pandemic, and vice versa. In contrast, the demographic estimates published by UNPD for 2020 and 2021, although based on data available during the pandemic, did not use a unified framework for all-cause and excess mortality. Additionally, while the US Census Bureau published population estimates for 2020 and 2021, the estimates were adjusted to reflect the effects of the pandemic for only a subset of locations. GBD 2021 utilised a suite of customised and validated data processing and modelling tools, systematically analysing thousands of data sources to produce global, regional, national, and subnational demographic estimates by age, sex, and Sociodemographic Index (SDI) level for each year from 1950 to 2021. Compared with GBD 2019, GBD 2021 utilised 5296 additional data sources. Additionally, the model life table system used in GBD 2021 was improved to provide more accurate mortality estimates for older age groups. All estimates are packaged within freely accessible data-sharing and visualisation tools.

Implications of all the available evidence

Our study highlights the impact of the first 2 years of the COVID-19 pandemic at a novel level of granularity, demonstrating unprecedented reversals in adult mortality and life expectancy trends at the global, regional, and national levels. Furthermore, globally comparable measures of excess mortality due to the pandemic show substantial variation in the burden experienced by different countries and territories. Our comprehensive set of demographic estimates provides a rich description of evolving long-term trends in mortality and life expectancy across age groups, sexes, and SDI levels, and our population analyses reveal changing dynamics and age structures with implications for the future of health-care systems, economies, and societies. Collectively, the estimates reported here provide an integrated demographic framework for GBD and a valuable foundation for policy evaluation, development, and implementation around the world.

provide policy makers and the public with the information needed to gain a better understanding of the demographic context of disease and injury burden since 1950 and during the COVID-19 pandemic in 2020–21 specifically.

Methods

Overview

For each new GBD iteration, recently available data and improved methods are used to update the full time series of demographic estimates from 1950 to the latest year of analysis; GBD 2021 demographic estimates therefore supersede all previous estimates.

The GBD 2021 demographic methods closely followed those used in GBD 2019. Improvements for GBD 2021

centred on a single framework to estimate both all-cause mortality and excess mortality due to the COVID-19 pandemic. The analytical process for computing internally consistent demographic estimates included six main components: (1) estimating age-specific fertility rates; (2) estimating under-5 and adult (age 15–59 years) mortality rates; (3) estimating age-specific mortality rates using a relational model life table system with HIV adjustments; (4) estimating excess mortality due to the COVID-19 pandemic and adjusting all-cause mortality estimates accordingly; (5) accounting for fatal discontinuities such as wars, famines, and natural disasters; and (6) estimating population sizes. To resolve discrepancies due to the inherent interdependent nature of population, mortality,

See Online for appendix 1

and fertility estimates, the estimation process was run twice: first to generate preliminary numbers, and second to refine all estimates and ensure internal consistency. A detailed description of all methods and analytical flowcharts for all-cause mortality, fertility, and population estimation are available in appendix 1 (sections 2–6, 8).

This study complies with the Guidelines for Accurate and Transparent Health Estimates Reporting (GATHER); ¹⁷ a completed GATHER checklist is provided in appendix 1 (section 8). Python (version 3.8.17 and 3.10.4), Stata (version 15.1), and R (version 3.5 and 4.2) were used for statistical analysis This manuscript was produced with the GBD Collaborator Network and in accordance with the GBD Protocol. ¹⁸ An international network of collaborators provides, reviews, and analyses the available data to generate health metrics; the 2021 GBD round drew on the expertise of more than 11000 collaborators across more than 160 countries and territories.

Data sources and processing

The GBD 2021 analysis used a range of data types for mortality and population estimation that were identified from a systematic search of available data from government websites, statistical annuals, demographic compendia, large-scale surveys, and collaborator input; comprehensive details on the sources of input data are available online via the GBD 2021 Sources Tool. Under-5 mortality rates (U5MRs), defined as the probability of death from birth to age 5 years, were estimated using 30526 location-years of vital registration data (3179 new location-years for GBD 2021 compared with GBD 2019),10 237 location-years of sample vital registration data, and 1445 other sources (including 57 new surveys, one new census, and ten other new sources; appendix 1 section 8). Adult mortality, defined as the probability of death before age 60 years assuming survival to age 15 years, was estimated using 30 207 location-years of vital registration data (3150 new location-years for GBD 2021 compared with GBD 2019), 1435 location-years of sample vital registration data, 75 censuses, 280 surveys (including 65 sources of household death data and 167 sources of sibling history data), and 24 other sources (appendix 1 section 8). Age-specific mortality was estimated using 43758 empirical life tables for 1950-2021 (compared with 35406 in GBD 2019; appendix 1 section 8). Prevalence surveys, antenatal clinic serosurveillance, and vital registration were used to adjust for the impact of the HIV epidemic due to its exceptional impact on agespecific mortality. Fatal discontinuities were accounted for using 2235 location-years from vital registration and 237 other sources (compared with 1812 from vital registration and 174 other sources in GBD 2019). Estimation of excess mortality due to the COVID-19 pandemic utilised an additional 146139 datapoints of allcause mortality data at either weekly or monthly intervals from vital registration and surveillance reports that were assessed for completeness of registration (compared with

our previous excess mortality estimation,¹⁶ GBD 2021 used 1389 additional weeks or months of data).

Population estimates utilised national and subnational censuses (1277 overall; 25 new), population registries (749 location-years of data), and post-enumeration surveys (161 in total). Additionally, migration data on refugee movements from the UN High Commissioner for Refugees and datasets for select countries (primarily Gulf States and nations in the EU) were used to inform migration estimates.

All-cause mortality estimation

GBD 2021 all-cause mortality estimation followed the analytical framework for mortality analysis used in GBD 2019. Point estimates from surveys were generated using both direct and indirect estimation methods for U5MR, while for adult mortality, they were generated from sibling history data with methods that correct for inherent biases such as zero-survivor and recall bias. Time series estimates of the completeness of adult vital registration data were generated using the same modelling process as GBD 2019, which used a combination of five death distribution methods, and point estimates were adjusted accordingly.

Time series of under-5 and adult mortality without fatal discontinuities were estimated using spatiotemporal Gaussian process regression (ST-GPR), including a biasadjustment process for U5MR, to correct for systematic differences in the data sources and smooth results across time and location. Education, HIV, and lag-distributed income were included as covariates, along with U5MR for adult mortality. These estimates were used as inputs for the GBD relational model life table system with adjustments for older-age mortality to estimate HIV-free age-specific mortality rates. HIV mortality was modelled with a combination of ST-GPR, the Estimation and Projection Package Age-Sex Model,19 and Spectrum,20 and subsequently used to produce life tables that included HIV mortality. These abridged life tables were used to generate full life tables by single year age groups with further detailed age groups under the age of 1 year. Sexredistributed and age-redistributed fatal discontinuities by cause were aggregated by age and sex and added to the estimated mortality from the previous step to generate the final all-cause mortality life tables by location, year, sex, and age. We recalculated abridged life tables, including fatal discontinuities for each location, year, and sex combination, and then calculated the final envelope from these abridged life tables. Detailed methods for estimating each mortality component are available in appendix 1 (section 2).

Excess mortality due to the COVID-19 pandemic estimation

Excess mortality due to the COVID-19 pandemic in 2020 and 2021 is defined as the observed all-cause mortality minus the mortality that would be expected had

For the **GBD 2021 Sources Tool** see https://ghdx.healthdata.org/ gbd-2021/sources

the pandemic not occurred, based on historical trends. Excess deaths are those attributed to the COVID-19 pandemic as a whole, both from SARS-CoV-2 infection and from other pandemic-related factors such as deferred care seeking.21,22 Excess mortality was calculated using similar methods as in Wang et al (2022),16 with several key improvements. We included yearly observed deaths from vital registration to supplement daily, weekly, and monthly observed death data. We then used five variants of the spline for weekly seasonal patterns that set the second-to-last knot at 18, 24, 36, 48, or 60 months to allow for more stable trends. To select covariates, we used Rover, a method developed at the Institute for Health Metrics and Evaluation based on Bayesian model averaging. Rover is conceptually similar to the Bayesian model averaging method, which is widely used to explore the parameter space and aggregate estimates across candidate models based on performance metrics.²³ The main difference is that while Bayesian model averaging uses marginal likelihood, Rover focuses on out-of-sample performance. We included covariates pertaining to the COVID-19 pandemic, such as seroprevalence, and background population health metrics, such as the Healthcare Access and Quality Index.24 With the best model selected, we ran a prediction process using 100 draws for each covariate and 100 draws of estimated coefficients and residuals, estimated from the regressions run at the draw level using draw-level input data on both excess mortality and covariates. Mean values and 95% uncertainty intervals (UIs) were then generated at national, regional, and global levels. Out-of-sample predictive validity testing was conducted based on our final model specification. Complete excess mortality methodology is detailed in appendix 1 (section 2.8).

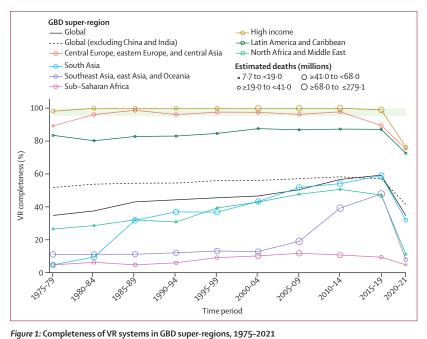
To determine age-specific and sex-specific excess mortality, we estimated all-cause mortality twice: once with data from during the pandemic in 2020 and 2021 included and once without. For location-years with vital registration data from during the pandemic, we computed the difference in estimated age-sex-specific mortality between the two sets of estimates. We then applied this distribution to our excess mortality estimates to calculate age-specific and sex-specific excess mortality. Due to instability in age-sex distributions and implausible patterns, we used the global age-sex distribution for locations with fewer than 75000 excess deaths, unless otherwise noted (appendix 1 section 2.8). Other pandemic-related mortality (OPRM) was estimated by calculating the difference between excess mortality and the sum of deaths due directly to COVID-19 infection and indirect deaths due to lower respiratory infections, measles, and pertussis. For locations with a negative OPRM, we adjusted the non-pandemic mortality estimates downward accordingly. We redistributed small discrepancies that remained between the mortality estimates that used vital registration age-sex-specific data from during the pandemic and the non-pandemic mortality estimates plus age-sex-specific excess mortality to ensure that the final mortality estimates including mortality shocks were consistent with observed high-quality vital registration data.

Population estimation

We used the Bayesian hierarchical cohort component model for population projection (BCCMP) from GBD 2019 to produce age-specific population estimates. This method used age-specific fertility estimates from GBD 2021 (appendix 1 section 3), the previously described age-specific mortality estimates, and available census and registry data as inputs. Auxiliary refugee and migration data were used to inform the prior distribution on net migration in countries with substantial migration or reliable data. The model estimates an age-specific 1950 baseline population, age-specific net migration, and age-specific population estimates that are fully consistent with the input fertility and mortality estimates. Complete population estimation methodology is in appendix 1 (section 4).

Expected mortality based on Socio-demographic Index (SDI) estimation

We analysed the relationship between age-specific log mortality rates and SDI using MR-BRT (meta-regression-Bayesian regularised trimmed), 25 a meta-regression programme (appendix 1 section 6.1). SDI is a composite indicator of a country's lag-distributed income per capita,



Completeness of virystems in GBD super-regions, 1975–2021

Completeness is defined as the total number of deaths registered in all Vir systems within a super-region during a 5-year period divided by the total number of estimated deaths within that super-region and period, with 100% completeness indicating that all deaths were registered. The size of the datapoints represents the number of estimated deaths. The solid black line shows the global completeness, the dashed black line indicates global completeness, excluding China and India, and other coloured lines indicate GBD super-regions. The green box indicates complete registration (defined as >95%). GBD=Global Burden of Diseases, Injuries, and Risk Factors

Study. VR=vital registration.

average years of schooling, and the total fertility rate in females younger than age 25 years (appendix 1 section 5). MR-BRT defines a linear mixed-effects model with a B-spline specification for the relationship between outcomes of interest and SDI. We used a cubic spline with five knots between 0 and 1, with left-most and rightmost spline segments enforced to be linear, and with slopes matching adjacent interior segments. To ensure that the results were not sensitive to the choice of spline knots, we used a model ensemble of over 50 cubic spline models, as described above. For each model, interior knot placement was randomly generated to be between 0.1 and 0.9, with minimum inter-knot distance of 0.1 and maximum inter-knot distance of 1.0. The final predictions were obtained using the ensemble aggregate over these 50 models. This model was performed separately for each GBD age-sex group. Expected mortality rates for each age-sex group based on SDI were used to estimate expected life expectancy. A similar analysis was done for excess mortality rates due to the COVID-19 pandemic, with the exception that two-degree splines were used.

Geographical units, age groups, and time periods

We produced estimates for each demographic metric by age-sex-location-year for 25 age groups: early neonatal (0-6 days), late neonatal (7-27 days), 1-5 months, 6-11 months, 12-23 months, 2-4 years, 5-9 years, every 5-year age group up to 95 years, and 95 years and older (fertility estimated for 5-year age groups between ages 10 years and 54 years); for males, females, and all sexes combined; for 204 countries and territories grouped into 21 regions and seven super-regions; and for every year from 1950 to 2021. We also included subnational analyses for 21 countries and territories (Brazil, China, Ethiopia, India, Indonesia, Iran, Italy, Japan, Kenya, Mexico, New Zealand, Nigeria, Norway, Pakistan, the Philippines, Poland, Russia, South Africa, Sweden, the UK, and the USA) and estimates by SDI quintile. All countries and territories were assigned an SDI value ranging from 0 (lowest income and educational attainment and highest fertility) to 100 and then grouped into quintiles from low SDI to high SDI.

Uncertainty analysis

Uncertainty was propagated throughout the estimation process. For under-5 and adult mortality, ST-GPR generated 1000 draws for every location, year, and sex combination; 1000 draws were also produced for the crude death rate associated with HIV estimates. The 100 draws of excess mortality due to the COVID-19 pandemic were repeated ten times to generate 1000 draws. These draw-level inputs were then used to create 1000 draws of all-cause mortality estimates and draw-level estimates of fatal discontinuities. Mean estimates and 95% UIs (the 25th and 975th ranked values from the 1000 draws) were generated for all demographic

metrics using the draw-level estimates. The uncertainty associated with fertility and mortality estimates was included as inputs in the BCCMP model to produce 1000 draws of population estimates.

Role of the funding source

The funders of this study had no role in study design, data collection, data analysis, data interpretation, or the writing of the report

Results

Civil registration and vital statistics completeness

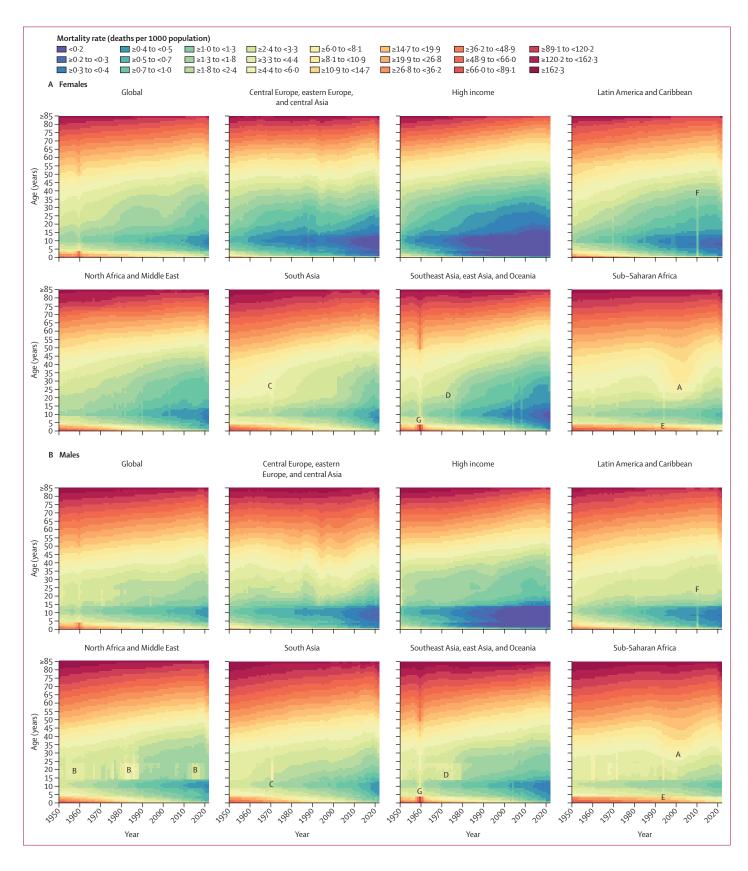
This section presents global, regional, and national-level results for key demographic metrics; given space constraints, estimates at the subnational level are presented in appendix 2. All subnational locations are listed in appendix 1 (section 8).

The proportion of deaths registered in vital registration systems increased substantially at the global level during the study period, from 30.3% in 1975 to a peak of 61.1% in 2016, before declining in subsequent years due to lags in reporting (figure 1). Completeness of death registration in vital registration systems varied markedly between regions, however, most progress in completeness was observed in China (where completeness peaked at 71.2% in 2018) and India (where completeness peaked at 80.1% in 2019; appendix 2 table S1). The Indian Sample Registration System is considered complete for the sample population it covers. Outside of China and India, progress in death registration has been slow, with only a $10 \cdot 3$ percentage point increase observed in the rest of the world between 1975 and the peak in 2016. This increase was concentrated in north Africa and the Middle East, which improved from 20.6% completeness in 1975 to a peak of 56.0% in 2016. While registration has been complete (defined as >95%) since 1975 for nearly all countries in the high-income super-region and central Europe, eastern Europe, and central Asia, in sub-Saharan Africa peak completeness of only 8.7% was reached in 2008 and completeness has declined since then. Death registration in Latin America and the Caribbean was more variable: countries such as Costa Rica, Cuba, and Argentina have been complete for many years; registration in countries such as Peru and Ecuador has remained around 60-90% complete, and others, such as Bolivia, continue to lack registration data. At the national level, 96 countries and territories had at

Figure 2: Global and GBD super-region all-cause mortality rates across the lifespan in females (A) and males (B), 1950–2021

Mortality rates are expressed as the number of deaths per 1000 population. Fatal discontinuities are indicated by the following letters: A=HIV epidemic; B=conflicts in the Middle East; C=war and genocide in India, Pakistan, and Bangladesh in 1971; D=war and genocide in Cambodia in the 1970s; E=Rwandan genocide in 1994; F=earthquake in Haiti in 2010; G=famine between 1959 and 1961. GBD=Global Burden of Diseases, Injuries, and Risk Factors Study.

See Online for appendix 2



least 1 year of complete death registration between 2010 and 2021; 29 countries and territories without complete death registration had at least 1 year of registering more than 75% of deaths; and 47 countries and territories had no vital registration data in the GBD 2021 mortality database. Registration was incomplete or non-existent in many countries with large numbers of deaths in 2021, especially in sub-Saharan Africa, including Nigeria and Democratic Republic of Congo. In the 2020–21 period, super-regions had varying degrees of lowered completeness indicative of lags in reporting (figure 1).

Mortality and life expectancy

Between 1950 and 2019, global age-standardised all-cause mortality rates per 100 000 population broadly declined, from 1980.5 age-standardised deaths (95% UI 1855 · 5-2115 · 0) in 1950 to 736 · 1 (700 · 1-772 · 8) in 2019 (appendix 2 table S3A), which equates to 62.8% (60.5–65.1) decline in mortality during the entire period. Global all-cause mortality rates across the human lifespan for the younger than 15 years and older than 40 years age groups broadly improved for both females and males between 1950 and 2019 (figure 2). This pattern was relatively consistent across super-regions, with the exception of increased mortality in sub-Saharan Africa during the HIV epidemic and a fluctuating pattern in the central Europe, eastern Europe, and central Asia superregion. However, substantial variation in mortality levels and trends across super-regions and over time were observed in the 15-39-years age group. This age group was particularly susceptible to mortality shocks such as famine in China between 1959 and 1961; conflicts in

the Middle East during multiple time periods; war in India, Pakistan, and Bangladesh and genocide in Bangladesh in 1971; war and genocide in Cambodia in the 1970s; the Rwandan genocide in 1994; and the earthquake in Haiti in 2010 (figure 2). Conflict and war had a larger impact on mortality rates in males than females. Furthermore, the HIV epidemic had an especially large impact on this age group in sub-Saharan Africa and a lesser impact in southeast Asia, east Asia, and Oceania, with a larger impact on females than males. Additionally, male mortality rates increased in Latin America and the Caribbean during the 2000s, to varying extents in countries such as El Salvador, Peru, Guatemala, Honduras, Mexico, Venezuela, and Brazil (appendix 2 figure S5). An increase in male and female mortality was observed in the high-income super-region during the late 2010s, which was most notable in the USA, Canada, and Spain (appendix 2 figure S5).

During the COVID-19 pandemic in 2020 and 2021, global age-standardised all-cause mortality rates increased by $21\cdot9\%$ (95% UI $13\cdot6-31\cdot1$) for males aged 15 years and older compared with 2019 and $16\cdot6\%$ ($10\cdot0-23\cdot4$) for females in the same age group and time period, reversing trends in mortality observed before the pandemic (appendix 2 table S3). In contrast, during 2020 and 2021, global mortality rates for both males and females generally remained constant or further decreased for age groups younger than 15 years (figure 2). In particular, between 2019 and 2021, global U5MR decreased by $7\cdot0\%$ ($2\cdot3-11\cdot1$). This continued reduction in child mortality was consistent across all super-regions (figure 2).

All-cause mortality rates differed between sexes, and the extent of this difference varied across age groups and

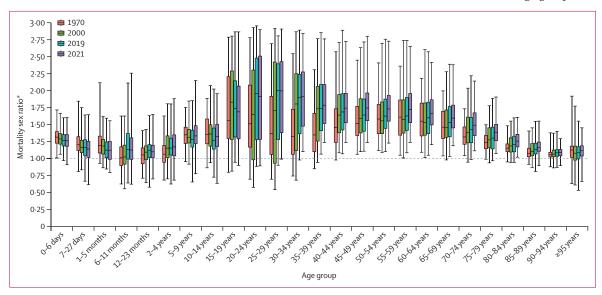


Figure 3: Distribution of the mortality sex ratio by age in 1970, 2000, 2019, and 2021
The distributions are for the mortality sex ratio calculated across all 204 countries and territories included in this study. The boxes represent the middle 50% of the distribution (25th and 75th percentiles), the horizontal line in boxes indicates the mean, and the whiskers show the middle 95% of the distribution (2-5th and 97-5th percentiles). *The ratio of male to female mortality rates, computed by dividing the male mortality rate by the female mortality rate for each age group and year.

			CC 2018 CT 1068	years, 2021				(thousands)	among children younger than 5 years in 2021 (thousands)	deaths due to COVID-19 in 2020 (thousands)	due to COVID-19 in 2021 (thousands)	mortainty rate due to COVID-19, 2020–21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					(0)
Global	35·7 (30·5 to 42·0)	-3·3% (-4·0 to -2·5)	0·12 (0·11 to 0·12)	0·19 (0·18 to 0·20)	74·8 (74·0 to 75·5)	69.0 (68.0 to 69.9)	71.7 (70.9 to 72.5)	67900.0 (65000.0 to 70800.0)	4660.0 (3980.0 to 5500.0)	5890 (5480 to 6440)	9970 (9260 to 10900)	1.04 (0.96 to 1.13)
Central Europe, eastern Europe, and Central Asia	12·0 (10·5 to 13·7)	-3.8% (-4.4 to -3.2)	0·11 (0·11 to 0·12)	0.25 (0.24 to 0.26)	75·5 (75·0 to 75·9)	67.4 (66.9 to 67.9)	71·5 (71·0 to 71·8)	5950.0 (5790.0 to 6130.0)	59.0 (51.7 to 67.6)	740 (681 to 801)	1400 (1300 to 1520)	2.70 (2.50 to 2.90)
Central Asia	20.9	-4·1%	0.11	0.22	74·3	67.4	70·8	724·0	42·6	108	150	1.46
	(17.6 to 24.6)	(-4·8 to -3·2)	(0.10 to 0.12)	(0.21 to 0.24)	(73·3 to 75·2)	(66.4 to 68.5)	(69·8 to 71·8)	(671·0 to 779·0)	(36·0 to 50·4)	(80 to 133)	(102 to 186)	(1.06 to 1.80)
Armenia	11·1	-4.8%	0.07	0.18	78·6	71·3	75·0	31·3	0.4	7	5	2.08
	(9·0 to 13·8)	(-6.0 to -3.6)	(0.06 to 0.07)	(0.16 to 0.19)	(77·8 to 79·4)	(70·3 to 72·4)	(74·1 to 76·0)	(28·9 to 33·8)	(0.3 to 0.5)	(5 to 9)	(3to6)	(1.43 to 2.61)
Azerbaijan	28·6	-4.0%	0.10	0.21	73·4	67.0	70·1	89·3	3.9	21	25	2·31
	(23·4 to 34·7)	(-5.0 to -3.0)	(0.09 to 0.11)	(0.19 to 0.23)	(72·5 to 74·3)	(66.0 to 68.2)	(69·2 to 71·2)	(81·9 to 96·4)	(3.2 to 4.7)	(17 to 24)	(20 to 30)	(1·83 to 2·67)
Georgia	9.7	-6·1%	0.10	0.25	75·8	67·3	71·5	59.6	0.4	6	17	3·29
	(7.7 to 12.2)	(-7·2 to -5·0)	(0.10 to 0.10)	(0.25 to 0.26)	(75·5 to 76·2)	(67·0 to 67·5)	(71·2 to 71·7)	(58.6 to 60.5)	(0.3 to 0.6)	(4 to 7)	(11 to 21)	(2·22 to 4·19)
Kazakhstan	10.2 (8.4 to 12.3)	-6·1% (-7·0 to -5·1)	0.13 (0.12 to 0.14)	0.28 (0.26 to 0.30)	73·9 (73·1 to 74·7)	65·3 (64·4 to 66·2)	69·6 (68·7 to 70·4)	181.0 (169.0 to 194.0)	4.1 (3.4 to 5.0)	30 (23 to 36)	51 (41 to 60)	2.36 (1.87 to 2.76)
Kyrgyzstan	17.0	-4·4%	0.10	0.23	76·1	68.4	72·3	38·9	2·7	7	6	1.06
	(14.9 to 19.0)	(-5·2 to -3·7)	(0.09 to 0.12)	(0.20 to 0.26)	(74·7 to 77·6)	(66.6 to 70.2)	(70·7 to 73·9)	(34·2 to 43·6)	(2·3 to 3·0)	(5 to 9)	(4 to 9)	(0.74 to 1.38)
Mongolia	16.9 (14.0to20.5)	-5.6% (-6.6 to -4.6)	0.12 (0.10 to 0.13)	0.29 (0.26 to 0.32)	74·6 (73·5 to 75·7)	65·7 (64·3 to 67·1)	70·0 (69·1 to 71·0)	21.5 (19.9 to 23.0)	$\frac{1.3}{(1.1 \text{ to } 1.6)}$	-2 (-5 to 1)	1 (-3 to 4)	-0.17 (-1.15 to 0.74)
Tajikistan	34·5	-3·1%	0.13	0.21	72·1	66.9	69.3	59·1	9.7	12	16	1.46
	(28·5 to 42·2)	(-4·1 to -2·1)	(0.11 to 0.15)	(0.18 to 0.24)	(70·4 to 73·7)	(65.1 to 69.1)	(67.8 to 71.0)	(52·2 to 65·6)	(8.0 to 11.9)	(9 to 15)	(11 to 20)	(1.06 to 1.79)
Turkmenistan	27·5	-3.7%	0.15	0.28	71.5	64·3	67.8	43·6	3.0	6	8	1.46
	(22·2 to 33·5)	(-4.6 to -2.6)	(0.12 to 0.19)	(0.24 to 0.34)	(69.4 to 73.7)	(62·0 to 66·8)	(65.5 to 70.1)	(36·5 to 51·2)	(2.4 to 3.7)	(5 to 8)	(6 to 10)	(1.06 to 1.79)
Uzbekistan	21.5	-3·5%	0.10	0.18	75·1	69.9	72.5	200.0	17.0	22	21	0.69
	(17.7 to 26.0)	(-4·4 to -2·5)	(0.09 to 0.12)	(0.15 to 0.20)	(73·6 to 76·6)	(68.1 to 71.7)	(70.8 to 74.2)	(175.0 to 227.0)	(14.0 to 20.7)	(12 to 30)	(7 to 31)	(0.30 to 0.98)
Central Europe	5.0 (4.5 to 5.6)	-4·7% (-5·1 to -4·2)	0.08 (0.08 to 0.08)	0.18 (0.18 to 0.18)	78·3 (78·2 to 78·5)	71·3 (71·1 to 71·4)	74·7 (74·5 to 74·8)	1760.0 (1740.0 to 1780.0)	5·3 (4·8 to 5·9)	195 (140 to 243)	353 (268 to 422)	2·54 (1·89 to 3·05)
Albania	13·1	-3.7%	0.06	0·13	78·7	73·6	76.0	30·1	0.4	5	7	2·36
	(10·7 to 16·0)	(-4.8 to -2.6)	(0.05 to 0.07)	(0·11 to 0·15)	(77·6 to 79·9)	(72·1 to 75·3)	(74.7 to 77.5)	(26·5 to 33·6)	(0.3 to 0.4)	(2 to 8)	(3 to 10)	(1·05 to 3·63)
Bosnia and	5·2	-3.6%	0.07	0·15	78·3	72·6	75·4	46·4	0.1	5	8	2.05
Herzegovina	(4·4 to 6·3)	(-4.4 to -2.7)	(0.06 to 0.09)	(0·12 to 0·17)	(76·9 to 79·8)	(70·8 to 74·6)	(73·8 to 77·1)	(39·7 to 53·0)	(0.1 to 0.2)	(1to 9)	(3 to 14)	(0.80 to 3.47)
Bulgaria	6.6	-4.6%	0.13	0.26	73·7	66.4	69.9	169.0	0.4	20	47	5·21
	(5.9 to 7.4)	(-5.2 to -4.1)	(0.13 to 0.14)	(0.25 to 0.27)	(73·3 to 74·1)	(65.9 to 67.0)	(69.4 to 70.3)	(164.0 to 173.0)	(0.3 to 0.4)	(11 to 26)	(36 to 56)	(3·82 to 6·30)
Croatia	4·6	-2.7%	0.06	0·13	80.3	74·1	77.2	62·4	0.2	5	10	1.84
	(3·8 to 5·4)	(-3.5 to -1.8)	(0.05 to 0.06)	(0·12 to 0·13)	(80.0 to 80.6)	(73·8 to 74·4)	(76.9 to 77.5)	(60·6 to 64·0)	(0.1 to 0.2)	(2 to 7)	(6 to 14)	(1.03 to 2.61)
Czechia	2.7 (2.3 to 3.1)	-3·2% (-4·0 to -2·4)	0.06 (0.06 to 0.06)	0·12 (0·12 to 0·13)	80.9 (80.6 to 81.1)	74·4 (74·2 to 74·6)	77.6 (77.3 to 77.8)	138.0 (136.0 to 141.0)	0.3 (0.2 to 0.3)	15 (8 to 22)	23 (12 to 32)	1.88 (1.00 to 2.57)
Hungary	4.0	-4.6% (-5.3 to -3.8)	0.09 (0.09 to 0.10)	0·19 (0·19 to 0·19)	78.0 (77.8 to 78.2)	70.9 (70.7 to 71.1)	74·5 (74·3 to 74·6)	154·0 (152·0 to 156·0)	0.4 (0.3 to 0.4)	12 (3 to 18)	26 (14 to 35)	2.02 (0.96 to 2.84)

	Under-5 mortality	lity	Probability of death betwe ages 15 and 59 years, 2021	death between I years, 2021	Life expectanc)	Life expectancy at birth in 2021 (years)	(years)	Total deaths in 2021 (thousands)	Total deaths among children younger than 5 years in 2021 (thousands)	Excess deaths due to COVID-19 in 2020 (thousands)	Excess deaths due to COVID-19 in 2021 (thousands)	Excess mortality rate due to COVID-19, 2020-21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					(0001
(Continued from previous page)	previous page)											
Montenegro	3.9	-5·5%	0.08	0.18	76.0	69.8	72·7	9.9	0.0	1	3	3·35
	(3.2 to 4.7)	(-6·5 to -4·5)	(0.08 to 0.09)	(0.17 to 0.19)	(75.4 to 76.6)	(69.0 to 70.5)	(72·1 to 73·3)	(9.4 to 10.4)	(0.0 to 0.0)	(1 to 1)	(3 to 3)	(2·78 to 3·90)
North	5.6	-4.9%	0.11	0·19	74·2	69.2	71.5	32.7	0.1	7	10	4.86
Macedonia	(4.9 to 6.3)	(-5.5 to -4.2)	(0.09 to 0.12)	(0·17 to 0·22)	(73·2 to 75·3)	(68.0 to 70.4)	(70.4 to 72.7)	(29.3 to 36.3)	(0.1 to 0.1)	(5 to 8)	(8 to 12)	(3.79 to 5.66)
Poland	4·4	-3.7%	0.07	0.18	79.7	71.8	75.7	517.0	1.5	65	101	2.28
	(3·9 to 5·0)	(-4.3 to -3.1)	(0.07 to 0.07)	(0.18 to 0.18)	(79.6 to 79.8)	(71.7 to 71.9)	(75.6 to 75.8)	(514.0 to 520.0)	(1.3 to 1.7)	(48 to 78)	(72 to 122)	(1.81 to 2.72)
Romania	6.7	-5.7%	0·10	0.22	76.8	69.2	72.9	334·0	1.2	38	72	3.00
	(6.1 to 7.4)	(-6.2 to -5.3)	(0·10 to 0·10)	(0.22 to 0.22)	(76.7 to 77.0)	(69.1 to 69.4)	(72.8 to 73.0)	(332·0 to 337·0)	(1.1 to 1.3)	(25 to 51)	(49 to 90)	(2.06 to 3.85)
Serbia	4.7	-5.4%	0.08	0.16	76.7	71.7	74·1	149.0	0.3	15	26	2.52
	(4.2 to 5.2)	(-6.3 to -4.6)	(0.08 to 0.09)	(0.16 to 0.16)	(76.5 to 76.9)	(71.5 to 71.8)	(74·0 to 74·3)	(147.0 to 151.0)	(0.3 to 0.4)	(5 to 27)	(6 to 44)	(0.61 to 4.24)
Slovakia	5.8	-2.6%	0.08	0.17	78·3	71·3	74·7	72·6	0.3	5	18	2·23
	(5.1 to 6.4)	(-3.2 to -2.0)	(0.08 to 0.08)	(0.17 to 0.18)	(78·1 to 78·6)	(71·0 to 71·5)	(74·6 to 74·9)	(71·5 to 73·6)	(0.3 to 0.4)	(2 to 8)	(13 to 22)	(1·38 to 2·88)
Slovenia	2·2	-4·2%	0.04	0·10	84.0	77.6	80.8	23·0	0.0	3	2	1.20
	(2·0 to 2·5)	(-4·8 to -3·6)	(0.04 to 0.04)	(0·09 to 0·10)	(83.4 to 84.6)	(77.2 to 78.1)	(80.4 to 81.3)	(22·0 to 23·9)	(0.0 to 0.0)	(1to4)	(0 to 4)	(0.31 to 1.88)
Eastern Europe	6·1 (5·6 to 6·5)	-5.2% (-5.6 to -4.8)	0.13 (0.12 to 0.14)	0.30 (0.28 to 0.32)	74·9 (74·2 to 75·5)	65.8 (65.0 to 66.6)	70·4 (69·8 to 70·9)	3470.0 (3340.0 to 3610.0)	11·1 (10·3 to 11·9)	436 (398 to 467)	899 (854 to 940)	3.33 (3.15 to 3.46)
Belarus	4·0	-6.9%	0.11	0.29	76.0	66.0	71.0	162.0	0.3	23	42	3.67
	(3·1 to 5·3)	(-8.2 to -5.5)	(0.10 to 0.13)	(0.25 to 0.33)	(74·4 to 77·5)	(64.2 to 67.8)	(69.2 to 72.7)	(141.0 to 186.0)	(0.3 to 0.4)	(17 to 29)	(32 to 54)	(2.78 to 4.77)
Estonia	2·5	-7·1%	0.07	0.17	81.2	72·4	76.9	18·6	0.0	0	3	1.44
	(2·2 to 2·9)	(-7·8 to -6·4)	(0.06 to 0.07)	(0.17 to 0.18)	(80.6 to 81.8)	(71·9 to 72·9)	(76.5 to 77.3)	(18·0 to 19·2)	(0.0 to 0.0)	(-1 to 1)	(2 to 5)	(0.59 to 2.33)
Latvia	3.7 (3.2 to 4.3)	-6·1% (-6·9 to -5·4)	0.10 (0.09 to 0.10)	0.26 (0.25 to 0.27)	78·1 (77·7 to 78·5)	68·3 (67·9 to 68·7)	73·2 (73·0 to 73·5)	34·2 (33·4 to 35·0)	0.1 (0.1 to 0.1)	1 (0to3)	7 (5 to 9)	2·35 (1·36 to 3·41)
Lithuania	3·5	-5.3%	0.09	0.24	78.9	69.2	74·1	47·2	0.1	5	10	2.84
	(3·1 to 3·9)	(-5.9 to -4.7)	(0.09 to 0.10)	(0.23 to 0.24)	(78.5 to 79.3)	(68.8 to 69.5)	(73·8 to 74·4)	(46·2 to 48·2)	(0.1 to 0.1)	(3 to 8)	(6 to 13)	(1.91 to 3.89)
Moldova	10.9	-4·4%	0.11	0.25	76.4	67.9	72·1	50·1	0.3	5	10	2·29
	(8.2 to 14.4)	(-5·7 to -3·0)	(0.10 to 0.12)	(0.23 to 0.27)	(75.4 to 77.3)	(66.7 to 69.0)	(71·0 to 73·2)	(47·0 to 53·6)	(0.2 to 0.4)	(5 to 6)	(10 to 11)	(2·21 to 2·38)
Russia	5.8 (5.5 to 6.2)	-5.6% (-5.9 to -5.2)	0.14 (0.14 to 0.14)	0.31 (0.31 to 0.31)	74·3 (74·3 to 74·4)	65·5 (65·5 to 65·6)	70.0 (69.9 to 70.0)	2410.0 (2410.0 to 2420.0)	8.1 (7.6 to 8.6)	357 (355 to 360)	690 (687 to 693)	3.70 (3.68 to 3.72)
Ukraine	7.8	-3·3%	0.11	0.29	75·7	66·3	71.0	745.0	2·2	44	137	2·18
	(6.2 to 9.2)	(-4·3 to -2·4)	(0.08 to 0.15)	(0.22 to 0.37)	(72·7 to 78·6)	(62·7 to 70·1)	(68.5 to 73.6)	(614.0 to 880.0)	(1·7 to 2·6)	(9 to 77)	(96 to 179)	(1·45 to 2·93)
High income	4·6 (4·2 to 5·0)	-2.4% (-2.8 to -2.0)	0.06 (0.06 to 0.06)	0·11 (0·11 to 0·11)	83.3 (83.3 to 83.4)	77.9 (77.8 to 78.0)	80.6 (80.5 to 80.7)	10 900.0 (10 800.0 to 10 900.0)	47.9 (44.0 to 52.2)	971 (939 to 1000)	947 (907 to 985)	0.90 (0.87 to 0.93)
Australasia	3:3 (2:8 to 3:8)	-3·3% (-4·0 to -2·5)	0.04 (0.04 to 0.04)	0.08 (0.08 to 0.08)	85·3 (85·3 to 85·4)	81.2 (81.1 to 81.2)	83·2 (83·2 to 83·3)	210.0 (209.0 to 210.0)	1.2 (1.0 to 1.4)	-5 (-6 to -5)	4 (3 to 5)	-0.03 (-0.06 to -0.00)
Australia	3.0	-3.6%	0.04	0.08	85.6	81.2	83.4	175.0	0.9	-3	4	0.01
	(2.5 to 3.6)	(-4.4 to -2.7)	(0.04 to 0.04)	(0.08 to 0.08)	(85.5 to 85.7)	(81.1 to 81.3)	(83.3 to 83.5)	(174.0 to 176.0)	(0.7 to 1.0)	(-4 to -3)	(3 to 4)	(-0.02 to 0.03)

	•		ages 15 and 59 years, 2021	ages 15 and 59 years, 2021				2021 (thousands)	among children younger than 5 years in 2021 (thousands)	deaths due to COVID-19 in 2020 (thousands)	due to COVID-19 in 2021 (thousands)	mortality rate due to COVID-19, 2020–21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					1000)
(Continued from previous page)	previous page)											
New Zealand	4·8 (4·3 to 5·4)	-2·3% (-2·9 to -1·6)	0.05 (0.05 to 0.05)	0.08 (0.08 to 0.08)	84·1 (83·9 to 84·3)	80.7 (80.5 to 80.9)	82.4 (82.3 to 82.6)	34·5 (34·1 to 35·0)	0.3 (0.3 to 0.3)	-2 (-2 to -2)	0 (0 to 0)	-0.21 (-0.27 to -0.15)
High-income Asia Pacific	a 2·2 (2·0 to 2·4)	-4·1% (-4·5 to -3·7)	0.03 (0.03 to 0.03)	0.07 (0.07 to 0.07)	87.8 (87.7 to 87.8)	81.8 (81.7 to 81.9)	84.8 (84.8 to 84.9)	1800.0 (1790.0 to 1800.0)	2·7 (2·5 to 2·9)	-27 (-32 to -22)	22 (15 to 29)	-0.01 (-0.04 to 0.01)
Brunei	9.7 (7.7 to 12.1)	-0.3% (-1.5 to 1.0)	0.08 (0.07 to 0.10)	0.13 (0.12 to 0.15)	78·3 (77·1 to 79·3)	74.9 (73.6 to 76.0)	76·6 (75·4 to 77·7)	1.8 (1.7 to 2.0)	0.1 (0.0 to 0.1)	0 (0 to 0)	0 (0 to 0)	0.13 (-0.08 to 0.30)
Japan	2·1 (1·9 to 2·4)	-3·5% (-4·1 to -2·9)	0.03 (0.03 to 0.03)	0.06 (0.06 to 0.06)	88·1 (88·0 to 88·2)	82.2 (82.1 to 82.2)	85·2 (85·1 to 85·2)	1440.0 (1430.0 to 1450.0)	1.8 (1.6 to 2.1)	-28 (-33 to -24)	8 (2 to 14)	-0.08 (-0.12 to -0.05)
Singapore	1.7 (1.4 to 2.0)	-4·2% (-5·2 to -3·2)	0.03 (0.03 to 0.03)	0.05 (0.05 to 0.05)	87.7 (87.5 to 87.9)	83.6 (83.4 to 83.8)	85.7 (85.5 to 85.9)	23.7 (23.3 to 24.2)	0.1 (0.1 to 0.1)	0 (-1 to 0)	2 (1 to 2)	0.10 (0.06 to 0.15)
South Korea	2·5 (2·0 to 2·9)	-4·9% (-5·9 to -4·0)	0.04 (0.03 to 0.04)	0.08 (0.07 to 0.08)	86.0 (85.9 to 86.2)	80.3 (80.1 to 80.5)	83.2 (83.1 to 83.4)	331.0 (326.0 to 336.0)	0.7 (0.5 to 0.8)	2 (1to3)	12 (12 to 14)	0.13 (0.12 to 0.15)
High-income North America	5.7 (5.2 to 6.2)	-1.7% (-2.1 to -1.3)	0.09 (0.09 to 0.09)	0.16 (0.16 to 0.16)	80.4 (80.3 to 80.6)	74·8 (74·6 to 74·9)	77.6 (77.4 to 77.7)	3780.0 (3750.0 to 3810.0)	23·1 (21·1to25·2)	530 (519 to 542)	560 (543 to 579)	1.53 (1.49 to 1.56)
Canada	4·0 (3·4 to 4·8)	-1.8% (-2.6 to -0.9)	0.05 (0.05 to 0.05)	0.09 (0.09 to 0.09)	84·1 (83·9 to 84·2)	79·5 (79·4 to 79·7)	81.8 (81.7 to 82.0)	310·0 (307·0 to 314·0)	$\frac{1.5}{(1.2 \text{ to } 1.8)}$	37 (35 to 39)	32 (30 to 34)	0.95 (0.90 to 0.99)
Greenland	10·6 (9·0 to 12·3)	-3·1% (-4·1to-2·3)	0.12 (0.11 to 0.14)	0.20 (0.17 to 0.23)	76·9 (75·7 to 77·9)	71.4 (69.7 to 72.7)	73·8 (72·4 to 75·0)	0.4 (0.4 to 0.5)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.38 (0.08 to 0.62)
USA	5.9 (5.4 to 6.4)	-1.7% (-2.1 to -1.2)	0.09 (0.09 to 0.09)	0.17 (0.16 to 0.17)	80.0 (79.9 to 80.2)	74·3 (74·1 to 74·4)	77·1 (77·0 to 77·2)	3470.0 (3440.0 to 3500.0)	21.6 (19.7 to 23.6)	493 (482 to 504)	528 (512 to 546)	1.59 (1.56 to 1.63)
Southern Latin America	8·5 (6·9 to 10·4)	-3·4% (-4·4 to -2·4)	0.08 (0.08 to 0.08)	0·14 (0·14 to 0·14)	79.9 (79.6 to 80.1)	73·8 (73·5 to 74·1)	76.8 (76.6 to 77.1)	553·0 (545·0 to 562·0)	6.6 (5.4 to 8.1)	41 (38 to 45)	71 (66 to 77)	0.88 (0.82 to 0.95)
Argentina	9.7 (7.7 to 12·1)	-3·3% (-4·4 to -2·3)	0.08 (0.08 to 0.09)	0.15 (0.14 to 0.15)	79·1 (78·8 to 79·3)	73·0 (72·7 to 73·3)	76·1 (75·7 to 76·3)	378·0 (372·0 to 386·0)	5·2 (4·1 to 6·5)	30 (27 to 32)	44 (40 to 48)	0.85 (0.79 to 0.94)
Chile	5.7 (4.9 to 6.4)	-3.5% (-4.1 to -2.8)	0.06 (0.06 to 0.06)	0·13 (0·13 to 0·13)	81.9 (81.7 to 82.1)	76·1 (76·0 to 76·3)	79·0 (78·9 to 79·2)	134·0 (133·0 to 135·0)	1.2 (1.0 to 1.3)	14 (12 to 15)	22 (21 to 23)	1.03 (0.96 to 1.10)
Uruguay	6.8 (5.5 to 8.5)	-4·2% (-5·3 to -3·1)	0.09 (0.08 to 0.09)	0·17 (0·17 to 0·17)	79·4 (79·0to79·7)	72.0 (71.6 to 72.4)	75·7 (75·3 to 76·0)	40·5 (39·7 to 41·4)	0.2 (0.2 to 0.3)	-2 (-3 to -2)	5 (5 to 6)	0.49 (0.38 to 0.59)
Western Europe	3.5 (3.2 to 3.8)	-2·4% (-2·7 to -2·0)	0.04 (0.04 to 0.04)	0.08 (0.08 to 0.08)	84·2 (84·1to 84·3)	79·4 (79·3 to 79·4)	81.8 (81.7 to 81.9)	4540.0 (4520.0 to 4560.0)	14·3 (13·3 to 15·5)	432 (411 to 448)	291 (271 to 311)	0.85 (0.80 to 0.89)
Andorra	1.2 (0.8 to 1.5)	-5.7% (-7.4 to -4.4)	0.04 (0.03 to 0.05)	0.08 (0.06 to 0.10)	85.7	80.7	83.0	0.6	0.0	0 (0 0+0)	0 (0 to 0)	0.60

	Onder-5 mortality		Probability or ages 15 and 59	Probability or death between ages 15 and 59 years, 2021	rie expertancy	Life expectancy at Diffn in 2021 (years)	(years)	Total deaths in 2021 (thousands)	Iotal deaths among children younger than 5 years in 2021 (thousands)	Excess deaths due to COVID-19 in 2020 (thousands)	Excess deaths due to COVID-19 in 2021 (thousands)	mortality rate due to COVID-19, 2020–21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					000
(Continued from previous page)	previous page)											
Austria	3·1	-2·9%	0.04	0.08	84·1	79·2	81.7	88.8	0.3	6	4	0.58
	(2·7 to 3·5)	(-3·5 to -2·2)	(0.04 to 0.04)	(0.08 to 0.08)	(83·9 to 84·2)	(79·1 to 79·4)	(81.5 to 81.8)	(87.7 to 89.9)	(0.2 to 0.3)	(5 to 7)	(3 to 5)	(0.44 to 0.72)
Belgium	3.7	-2·3%	0.05	0.08	84·2	79·3	81.8	111.0	0.4	17	2	0.85
	(3.0 to 4.4)	(-3·3 to -1·4)	(0.05 to 0.05)	(0.08 to 0.08)	(84·0 to 84·4)	(79·1 to 79·5)	(81.6 to 81.9)	(110.0 to 112.0)	(0.3 to 0.5)	(16 to 18)	(1 to 3)	(0.76 to 0.93)
Cyprus	2·4	-5.0%	0.04	0.07	83·2	79·2	81.2	9.2	0.0	0	1	0.30
	(2·0 to 2·9)	(-5.9 to -4·1)	(0.03 to 0.04)	(0.06 to 0.08)	(82·5 to 83·9)	(78·2 to 80·1)	(80.4 to 82.0)	(8.4 to 10.1)	(0.0 to 0.0)	(0 to 1)	(0 to 1)	(-0.24 to 0.76)
Denmark	3.6	-2·1%	0.04	0.07	83.5	79·5	81.5	56·7	0.2	0	2	0.23
	(3.2 to 4.1)	(-2·7 to -1·4)	(0.04 to 0.05)	(0.07 to 0.07)	(83.3 to 83.7)	(79·3 to 79·7)	(81.3 to 81.7)	(55·8 to 57·7)	(0.2 to 0.3)	(0 to 1)	(2 to 3)	(0.14 to 0.34)
Finland	2·2	-3·1%	0.04	0.09	84.9	79·5	82.2	57·1	0.1	1	2	0.30
	(1·9 to 2·6)	(-3·9 to -2·4)	(0.04 to 0.04)	(0.09 to 0.09)	(84.7 to 85.2)	(79·2 to 79·7)	(82.0 to 82.4)	(56·1 to 58·1)	(0.1 to 0.1)	(0to 2)	(2 to 3)	(0.16 to 0.43)
France	4·0	-1·4%	0.04	0.09	85·5	79·6	82.6	642.0	2.8	65	28	0.74
	(3·6 to 4·5)	(-1·9 to -0·9)	(0.04 to 0.04)	(0.09 to 0.09)	(85·4 to 85·6)	(79·5 to 79·7)	(82.5 to 82.7)	(639.0 to 646.0)	(2.5 to 3.1)	(61 to 68)	(24 to 32)	(0.68 to 0.79)
Germany	3.5 (3.3 to 3.8)	-2·0% (-2·3 to -1·6)	0.05 (0.05 to 0.05)	0.09 (0.09 to 0.09)	83.4 (83.3 to 83.5)	78·5 (78·5 to 78·6)	81.0 (80.9 to 81.0)	1010·0 (1000·0 to 1010·0)	2.8 (2.6 to 3.0)	38 (34 to 44)	63 (57 to 69)	0.60 (0.54 to 0.66)
Greece	3.9 (3.4 to 4.5)	-2·2% (-2·9 to -1·5)	0.05 (0.05 to 0.05)	0·11 (0·11 to 0·11)	82.8 (82.6 to 83.0)	77.2 (77.0 to 77.5)	80.0 (79.8 to 80.2)	, 144·0 (142·0 to 146·0)	0.3 (0.3 to 0.4)	5 (3 to 6)	15 (14 to 16)	0.95 (0.82 to 1.06)
Iceland	2.4 (2.0 to 2.9)	-2·3% (-3·3 to -1·2)	0.04 (0.04 to 0.04)	0.07 (0.07 to 0.07)	84.9 (84.2 to 85.5)	82·3 (81·6 to 83·0)	83·6 (82·9 to 84·3)	2.3 (2.2 to 2.4)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	-0.02 (-0.25 to 0.22)
Ireland	3.4	-3·5%	0.04	0.07	84·5	80.8	82.6	32·2	0.2	0	1	0.12
	(2.9 to 3.8)	(-4·2 to -2·8)	(0.04 to 0.04)	(0.07 to 0.07)	(84·2 to 84·7)	(80.5 to 81.0)	(82.4 to 82.8)	(31·6 to 32·9)	(0.2 to 0.2)	(0to1)	(0 to 1)	(0.02 to 0.21)
Israel	2·3	-5·1%	0.04	0.07	85·1	81.2	83.2	50·1	0.4	2	3	0.29
	(2·0 to 2·7)	(-5·8 to -4·3)	(0.03 to 0.04)	(0.07 to 0.07)	(84·9 to 85·3)	(80.9 to 81.5)	(82.9 to 83.4)	(49·0 to 51·1)	(0.4 to 0.5)	(2 to 3)	(3 to 4)	(0.24 to 0.34)
Italy	2.9	-3.0%	0.04	0.07	84.9	80·3	82.7	699.0	1.2	98	62	1.38
	(2.6 to 3.3)	(-3.6 to -2.4)	(0.04 to 0.04)	(0.07 to 0.07)	(84.8 to 85.0)	(80·2 to 80·4)	(82.6 to 82.7)	(695.0 to 702.0)	(1.0 to 1.3)	(95 to 101)	(59 to 66)	(1.34 to 1.44)
Luxembourg	3·5	-1.0%	0.04	0.07	84.9	80.4	82.6	4·5	0.0	0	0	0.31
	(2·9 to 4·2)	(-1.9 to -0.1)	(0.04 to 0.04)	(0.06 to 0.07)	(84.4 to 85.4)	(79.8 to 81.0)	(82.0 to 83.2)	(4·3 to 4·8)	(0.0 to 0.0)	(0 to 0)	(0 to 0)	(0.09 to 0.54)
Malta	5·3	-1.7%	0.04	0.07	84·1	81.3	82.7	4·0	0.0	0	0	0.62
	(4·2 to 6·6)	(-2.9 to -0.5)	(0.04 to 0.04)	(0.07 to 0.08)	(83·4 to 84·7)	(80.6 to 82.0)	(81.9 to 83.3)	(3·8 to 4·3)	(0.0 to 0.0)	(0 to 0)	(0 to 0)	(0.32 to 0.95)
Monaco	3.8 (3.7 to 3.9)	-1.0% (-2.2 to 0.2)	0.07 (0.05 to 0.08)	0·12 (0·10 to 0·14)	81.4 (79.8 to 83.2)	76·3 (74·7 to 77·8)	78.8 (77.2 to 80.4)	0.6 (0.5 to 0.7)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	1.33 (0.51 to 2.17)
Netherlands	3.8	-2·4%	0.05	0.06	83.2	79.8	81.5	170.0	0.7	15	15	0.92
	(3.5 to 4.2)	(-2·9 to -1·8)	(0.04 to 0.05)	(0.06 to 0.07)	(83.1 to 83.4)	(79.6 to 79.9)	(81.4 to 81.7)	(168.0 to 172.0)	(0.6 to 0.7)	(13 to 16)	(14 to 17)	(0.83 to 0.99)
Norway	2.1 (1.8 to 2.4)	-3.9% (-4.6 to -3.2)	0.04 (0.04 to 0.04)	0.06 (0.06 to 0.06)	84.9 (84.7 to 85.1)	81.7 (81.5 to 81.8)	83·3 (83·1 to 83·4)	41.9 (41.3 to 42·6)	0.1 (0.1 to 0.1)	0 (-1 to 0)	$\frac{1}{(0 \text{ to } 1)}$	0.06 (0.00 to 0.10)
Portugal	2.9	-4.4%	0.04	0.10	84·4	78·5	81.5	123.0	0.2	11	10	1.05
	(2.6 to 3.3)	(-5.0 to -3.8)	(0.04 to 0.04)	(0.10 to 0.10)	(84·3 to 84·6)	(78·3 to 78·7)	(81.4 to 81.7)	(122.0 to 124.0)	(0.2 to 0.3)	(10 to 12)	(9 to 11)	(0.95 to 1.14)
San Marino	1.7 (1.1 to 2.3)	-5·3% (-7·3 to -3·4)	0.03 (0.02 to 0.04)	0.06 (0.04 to 0.08)	88·1 (85·3 to 91·0)	84.4 (81.4 to 87.1)	86·2 (83·3 to 89·0)	0·3 (0·2 to 0·3)	0.0	0 (0100)	0 (0 to 0)	0.78 (0.01 to 1.98)

			ages 15 and 59 y	years, 2021				(thousands)	among children younger than 5 years in 2021 (thousands)	deaths due to COVID-19 in 2020 (thousands)	due to COVID-19 in 2021 (thousands)	mortality rate due to COVID-19, 2020–21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					1000)
(Continued from previous page)	previous page)											
Spain	3·0	-2.9%	0.04	0.08	85.7	79.9	82.9	445.0	1.0	72	22	1.03
	(2·7 to 3·3)	(-3.3 to -2.4)	(0.04 to 0.04)	(0.07 to 0.08)	(85.6 to 85.8)	(79.8 to 80.0)	(82.8 to 82.9)	(442.0 to 448.0)	(0.9 to 1.1)	(69 to 74)	(18 to 25)	(0.97 to 1.09)
Sweden	2·3	-2.6%	0.04	0.06	85.0	82.0	83.5	92·0	0·3	9	1	0.50
	(2·0 to 2·5)	(-3.2 to -2.0)	(0.03 to 0.04)	(0.05 to 0.06)	(84.1 to 85.9)	(80.9 to 83.0)	(82.8 to 84.2)	(86·0 to 98·7)	(0·2 to 0·3)	(8 to 9)	(-1 to 4)	(0.38 to 0.61)
Switzerland	3.7	-2·4%	0.03	0.05	86.4	82.5	84·5	69.7	0·3	9	3	0.69
	(3.3 to 4.2)	(-3·0 to -1·7)	(0.03 to 0.03)	(0.05 to 0.05)	(86.2 to 86.6)	(82.3 to 82.7)	(84·3 to 84·7)	(68.7 to 70.7)	(0·3 to 0·4)	(8 to 9)	(2 to 4)	(0.61 to 0.76)
UK	4·2	-2·3%	0.06	0·10	82·4	78·2	80·3	686·0	2.9	82	55	1.02
	(3·8 to 4·6)	(-2·9 to -1·7)	(0.06 to 0.06)	(0·10 to 0·10)	(82·3 to 82·5)	(78·1 to 78·3)	(80·2 to 80·3)	(683·0 to 690·0)	(2.6 to 3.2)	(80 to 85)	(51 to 58)	(0.99 to 1.06)
Latin America and Caribbean	16·5 (13·4 to 20·2)	-3·5% (-4·5 to -2·5)	0.13 (0.12 to 0.13)	0.23 (0.22 to 0.24)	75·9 (75·2 to 76·6)	68.9 (68.1 to 69.7)	72·3 (71·5 to 73·0)	4980.0 (4770.0 to 5200.0)	155·0 (125·0 to 190·0)	922 (847 to 1010)	1390 (1280 to 1520)	1.99 (1.85 to 2.15)
Andean Latin	16.7	-4·8%	0.13	0.22	74·3	68·3	71·1	565·0	20.6	220	246	3.79
America	(13·1 to 20·8)	(-6·0 to -3·6)	(0.11 to 0.14)	(0.20 to 0.24)	(72·9 to 75·5)	(66·9 to 69·6)	(69·8 to 72·4)	(514·0 to 621·0)	(16.2 to 25.7)	(209 to 231)	(233 to 258)	(3.59 to 3.97)
Bolivia	27.9	-4·5%	0.19	0.28	68.8	63.8	66.2	121.0	6.8	40	53	4·19
	(23.5 to 32.7)	(-5·4 to -3·6)	(0.16 to 0.22)	(0.25 to 0.32)	(66.7 to 70.5)	(61.9 to 65.6)	(64.1 to 67.9)	(106.0 to 140.0)	(5.7 to 8.0)	(33 to 46)	(46 to 59)	(3·58 to 4·72)
Ecuador	13.7	-4·3%	0.10	0.19	77·1	71.0	74·0	124·0	4.4	50	38	2.58
	(10.5 to 17.9)	(-5·7 to -2·9)	(0.09 to 0.12)	(0.16 to 0.22)	(75·5 to 78·7)	(69.0 to 73·1)	(72·1 to 75·7)	(107·0 to 143·0)	(3.4 to 5.8)	(43 to 58)	(28 to 46)	(2.10 to 3.02)
Peru	14·0	-5·2%	0.12	0.21	74·9	68.8	71.6	320·0	9.4	130	155	4.27
	(9·5 to 19·1)	(-7·0 to -3·6)	(0.11 to 0.14)	(0.19 to 0.24)	(73·4 to 76·3)	(67.3 to 70.1)	(70.2 to 73.0)	(289·0 to 357·0)	(6.4 to 12.8)	(129 to 131)	(154 to 156)	(4.24 to 4.30)
Caribbean	40.8 (33.9 to 48.8)	-1.1% (-2.0 to -0.3)	0.15 (0.13 to 0.17)	0.23 (0.20 to 0.25)	72·5 (70·7 to 74·1)	66.9 (64.9 to 68.7)	69·6 (67·7 to 71·3)	488.0 (440.0 to 541.0)	32.5 (26.9 to 39.0)	21 (-7 to 48)	107 (60 to 155)	1.48 (0.60 to 2.32)
Antigua and	9.3	-1.9%	0.09	0·14	77·1	73·0	75.0	0.7	0.0	0	0	-0·12
Barbuda	(8.0 to 10.7)	(-2.8 to -0.8)	(0.09 to 0.10)	(0·13 to 0·14)	(76·7 to 77·3)	(72·7 to 73·3)	(74.8 to 75.1)	(0.7 to 0.7)	(0.0 to 0.0)	(0 to 0)	(0 to 0)	(-0·55 to 0·28)
The Bahamas	10.2 (7.8 to 13.5)	-2·2% (-3·5 to -0·6)	0.16 (0.14 to 0.19)	0.29 (0.25 to 0.33)	73·6 (71·7 to 75·4)	66·1 (63·7 to 68·2)	69.8 (67.5 to 71.8)	3.8 (3.3 to 4.4)	0.0 (0.0 to 0.0)	1 (0to1)	$\frac{1}{(1 \text{ to } 1)}$	2.33 (1.56 to 2.88)
Barbados	11.7 (8.2 to 16.3)	-1·1% (-2·6 to 0·5)	0.10 (0.08 to 0.12)	0·14 (0·11 to 0·17)	77·6 (75·5 to 79·7)	74·4 (71·8 to 76·8)	76.0 (73.7 to 78.3)	3·3 (2·8 to 3·9)	0·1 (0·1to 0·1)	0 (-1 to 0)	0 (0 to 0)	-1.03 (-1.86 to -0.23)
Belize	14·4 (11·9 to 17·5)	-3·5% (-4·5 to -2·4)	0.13 (0.12 to 0.14)	0.21 (0.19 to 0.23)	76·1 (74·9 to 77·3)	70.5 (69.0 to 72.3)	73.2 (71.8 to 74.7)	2.3 (2.1 to 2.6)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 1)	0.72 (0.46 to 0.96)
Bermuda	3.8	-1.9%	0.06	0·13	83·3	75·6	79·3	0.7	0.5	0	0	1.23
	(3.2 to 4.5)	(-3.0 to -0.7)	(0.05 to 0.07)	(0·11 to 0·14)	(81·5 to 84·7)	(73·9 to 77·1)	(77·5 to 80·8)	(0.7 to 0.9)	(0.4 to 0.5)	(0 to 0)	(0 to 0)	(0.53 to 1.90)
Cuba	4.6	-3·0%	0.10	0·19	77·3	70.9	73.9	165.0	0.0	1	55	2.65
	(3.9 to 5.3)	(-3·7 to -2·2)	(0.09 to 0.11)	(0·17 to 0·20)	(76·3 to 78·3)	(69.9 to 72·1)	(73.0 to 74.9)	(151.0 to 178.0)	(0.0 to 0.0)	(-4 to 7)	(45 to 65)	(1.96 to 3.40)
Dominica	27.6	1.8%	0.12	0.21	73·3	67·4	70.2	0.8	5·3	0	0	1.24
	(20.2 to 37.1)	(0.1 to 3.3)	(0.10 to 0.15)	(0.17 to 0.26)	(70·8 to 75·5)	(64·4 to 70·3)	(67.4 to 72.7)	(0.6 to 1.0)	(4·3 to 6·4)	(0 to 0)	(0 to 0)	(0.44 to 2.38)
Dominican	24·9	-2·4%	0.10	0.20	77·3 (75·5 to 78·9)	70·5	73·7	73·0	0.0	1	9	0.48
Republic	(20·2 to 30·1)	(-3·4 to -1·4)	(0.09 to 0.12)	(0.17 to 0.23)		(68·3 to 72·5)	(71·8 to 75·5)	(64·1 to 82·9)	(0.0 to 0.0)	(-10 to 13)	(-5 to 20)	(-0.62 to 1.53)

			ages 15 and 55	ages 15 and 59 years, 2021				2021 (thousands)	among children younger than 5 years in 2021 (thousands)	deaths due to COVID-19 in 2020 (thousands)	due to COVID-19 in 2021 (thousands)	mortality rate due to COVID-19, 2020-21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					10000)
(Continued from previous page)	previous page)											
Grenada	12·6	-1.4%	0.14	0·23	72·9	67·3	69.9	1·1	0·3	0	0	1.54
	(10·1 to 15·6)	(-2.3 to -0.4)	(0.12 to 0.18)	(0·19 to 0·30)	(70·5 to 74·9)	(64·1 to 69·7)	(66.9 to 72.2)	(0·9 to 1·4)	(0·3 to 0·4)	(0 to 0)	(0 to 1)	(0.58 to 3.10)
Guyana	22.7	-2.7%	0.22	0.37	68·6	61.1	64·6	8.6	24·0	1	2	2·37
	(17.0 to 29.7)	(-4.2 to -1.2)	(0.17 to 0.28)	(0.29 to 0.46)	(65·0 to 72·1)	(57.0 to 65.4)	(60·6 to 68·6)	(6.4 to 11.6)	(19·9 to 28·8)	(0 to 2)	(1 to 5)	(0·77 to 4·53)
Haiti	70.6	-1.9%	0.28	0.34	61.5	58.8	60·1	131.0	0.5	14	26	1.67
	(59.2 to 84·1)	(-2.9 to -1.0)	(0.23 to 0.35)	(0.26 to 0.43)	(58.2 to 64.6)	(54.9 to 62.5)	(56·5 to 63·6)	(104.0 to 166.0)	(0.4 to 0.7)	(5 to 27)	(10 to 53)	(0.65 to 3.23)
Jamaica	15.0 (11.0 to 20.1)	-1.8% (-3.5 to 0.0)	0·12 (0·10 to 0·15)	0.16 (0.13 to 0.20)	76·4 (73·7 to 78·9)	72.0 (69.1 to 75.1)	74·1 (71·3 to 76·9)	24·2 (19·5 to 29·2)	0.1 $(0.1 to 0.1)$	0 (-2 to 1)	5 (3 to 7)	0.90 (0.25 to 1.61)
Puerto Rico	6.4	-2.7%	0.06	0·16	84·5	76.6	80.6	34·1	0.0	2	2	0.64
	(5.4 to 7.7)	(-3.6 to -1.7)	(0.05 to 0.07)	(0·13 to 0·18)	(82·8 to 86·4)	(74.4 to 79.1)	(78.5 to 82.8)	(29·1 to 39·3)	(0.0 to 0.0)	(-1 to 4)	(-1 to 5)	(-0.21 to 1.28)
Saint Kitts and	15.9	-1.6%	0.10	0.21	75·5	68·5	71.8	0.5	0.0	0	0	0.76
Nevis	(12.5 to 20.4)	(-2.9 to -0.4)	(0.09 to 0.12)	(0.18 to 0.24)	(73·9 to 77·1)	(66·7 to 70·2)	(70.1 to 73.5)	(0.5 to 0.6)	(0.0 to 0.0)	(0 to 0)	(0 to 0)	(0.30 to 1.13)
Saint Lucia	15·6 (11·2 to 21·2)	-1.0% (-2.7 to 0.6)	0.11 (0.09 to 0.14)	0.20 (0.16 to 0.25)	76·5 (73·8 to 78·9)	69.7 (66.4 to 72.7)	72.9 (69.7 to 75.6)	1.9 (1.6 to 2.5)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 1)	1.45 (0.48 to 2.74)
Saint Vincent and the Grenadines	13.0 (9.6 to 17.2)	-3·1% (-4·7 to -1·6)	0.14 (0.12 to 0.16)	0.22 (0.20 to 0.24)	75·2 (73·7 to 76·6)	69.7 (68.0 to 71.3)	72·2 (70·5 to 73·7)	1.2 (1.0 to 1.3)	0.2 (0.2 to 0.3)	0 (0 to 0)	0 (0 to 0)	0.62 (0.20 to 1.11)
Suriname	24·8	-2·3%	0.14	0.25	74·2	67.5	70.8	5·4	0.0	0	1	0.79
	(18·9 to 32·0)	(-3·7 to -0·8)	(0.12 to 0.18)	(0.21 to 0.31)	(70·9 to 76·7)	(63.4 to 70.7)	(66.9 to 73.6)	(4·3 to 7·2)	(0.0 to 0.1)	(0 to 0)	(0 to 3)	(0.03 to 2.25)
Trinidad and	13·6	-3·2%	0.14	0.25	75.0	67.6	71.0	16.7	0.2	1	4	2.00
Tobago	(10·2 to 18·0)	(-4·7 to -1·7)	(0.11 to 0.17)	(0.20 to 0.31)	(72.0 to 78.0)	(64.1 to 71.2)	(67.7 to 74·4)	(12.8 to 21.4)	(0.2 to 0.3)	(0 to 2)	(2 to 8)	(0.74 to 3.74)
Virgin Islands	5.9 (4.8 to 7.3)	-3·1% (-3·9 to -2·2)	0.08 (0.06 to 0.10)	0.21 (0.17 to 0.26)	82·3 (79·4 to 84·6)	71·3 (67·7 to 74·5)	76.6 (73.1 to 79.5)	0.9 $(0.7 to 1.2)$	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	1.49 (0.45 to 3.33)
Central Latin America	15·4 (11·9 to 19·7)	-3·1% (-4·5 to -1·9)	0.13 (0.12 to 0.13)	0.24 (0.23 to 0.25)	75·7 (74·9 to 76·5)	68·3 (67·3 to 69·3)	71.9 (70.9 to 72.8)	2080.0 (1970.0 to 2200.0)	60.4 (46.7 to 77.3)	497 (446 to 545)	610 (538 to 688)	2·21 (2·00 to 2·43)
Colombia	11.9	-3.8%	0.08	0.16	79.7	72.6	76·1	354·0	8·1	49	105	1.70
	(8.6 to 16.3)	(-5.4 to -2.1)	(0.08 to 0.10)	(0.15 to 0.18)	(78.2 to 81.2)	(70.8 to 74.5)	(74·5 to 77·8)	(314·0 to 398·0)	(5·8 to 11·0)	(37 to 62)	(78 to 127)	(1.28 to 2.08)
Costa Rica	9.4	-1.4%	0.08	0.17	81.2	74·3	77.7	30.7	0.5	1	6	0.74
	(8.2 to 10.7)	(-2.0 to -0.7)	(0.08 to 0.08)	(0.17 to 0.18)	(80.8 to 81.5)	(73·9 to 74·6)	(77.3 to 78.1)	(29.9 to 31.5)	(0.5 to 0.6)	(0to3)	(3 to 8)	(0.30 to 1.10)
El Salvador	9·5	-5·3%	0.12	0.28	77.2	67.9	72.7	52.0	1:1	6	11	1.40
	(7·1 to 12·5)	(-6·8 to -3·9)	(0.10 to 0.14)	(0.24 to 0.32)	(75.4 to 79.1)	(65.4 to 70.4)	(70.6 to 74.9)	(44.8 to 59.9)	(0·8 to 1·5)	(5 to 7)	(9 to 13)	(1.19 to 1.63)
Guatemala	25·5	-3.2%	0.15	0.27	72·7	66·2	69.4	113·0	7.6	20	32	1.78
	(20·0 to 32·6)	(-4.4to-1.9)	(0.14 to 0.17)	(0.24 to 0.29)	(71·3 to 74·1)	(64·4 to 67·9)	(67.8 to 71.0)	(102·0 to 125·0)	(6.0 to 9.8)	(16 to 23)	(27 to 37)	(1.46 to 2.06)
Honduras	15.0	-4·1%	0.18	0.25	70.7	66.4	68·5	72.9	3·3	12	20	1.65
	(12.2 to 18.2)	(-5·3 to -3·1)	(0.15 to 0.22)	(0.21 to 0.30)	(68.4 to 72.6)	(64.3 to 68.2)	(66·3 to 70·3)	(64.5 to 84.7)	(2·7 to 4·0)	(10 to 14)	(16 to 26)	(1.35 to 2.06)
Mexico	14·8 (11·6 to 18·9)	-3.2% (-4.5 to -2.0)	0·14 (0·14 to 0·14)	0.27 (0.27 to 0.27)	74.7 (74.4 to 74.9)	67.4 (67.0 to 67.7)	70.9 (70.6 to 71.2)	1120.0 (1110.0 to 1120.0)	28·1 (22·0 to 36·0)	335 (302 to 362)	341 (291 to 390)	2.61 (2.36 to 2.84)

	Under-5 mortality	ility	Probability of c	Probability of death between ages 15 and 59 years, 2021	Life expectancy	Life expectancy at birth in 2021 (years)	(years)	Total deaths in 2021 (thousands)	Total deaths among children younger than 5 years in 2021 (thousands)	Excess deaths due to COVID-19 in 2020 (thousands)	Excess deaths due to COVID-19 in 2021 (thousands)	Excess mortality rate due to COVID-19, 2020-21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					1000)
(Continued from previous page)	previous page)											
Nicaragua	13·8	-4·6%	0·11	0.21	76·8	69.9	73·3	38·3	1.8	14	16	2.21
	(10·3 to 18·0)	(-6·0 to -3·1)	(0·10 to 0·12)	(0.19 to 0.23)	(75·6 to 77·9)	(68.5 to 71.2)	(72·0 to 74·4)	(35·0 to 42·2)	(1.3 to 2.3)	(12 to 15)	(14to 18)	(1.99 to 2.42)
Panama	14·1	-2·3%	0.08	0.14	81.4	75·5	78·3	23.9	1.0	3	3	0.81
	(11·0 to 17·8)	(-3·5 to -1·0)	(0.06 to 0.09)	(0.11 to 0.16)	(79.5 to 83.5)	(73·1 to 78·2)	(76·2 to 80·8)	(19.7 to 27.9)	(0.8 to 1.3)	(1 to 4)	(1 to 5)	(0.33 to 1.20)
Venezuela	19.7	-0.8%	0.13	0.28	74·6	65·1	69.7	276·0	8.9	58	77	2.22
	(14.8 to 25.8)	(-2.2 to 0.5)	(0.11 to 0.16)	(0.23 to 0.32)	(72·3 to 76·9)	(62·2 to 68·1)	(67.0 to 72.3)	(231·0 to 326·0)	(6.6 to 11.6)	(52 to 64)	(68 to 87)	(2.00 to 2.43)
Tropical Latin America	12.0 (9.9 to 14·6)	-4·8% (-5·9 to -3·7)	0.12 (0.12 to 0.12)	0.22 (0.22 to 0.23)	77·3 (77·1 to 77·6)	70·2 (69·9 to 70·4)	73.7 (73.4 to 73.9)	1850.0 (1830.0 to 1870.0)	41.4 (33.8 to 50.3)	184 (170 to 197)	426 (408 to 444)	1.35 (1.29 to 1.41)
Brazil	11.9 (9.8 to 14.4)	-4·9% (-6·0 to -3·8)	0.12 (0.12 to 0.12)	0.22 (0.22 to 0.23)	77.4 (77.2 to 77.6)	70.2 (69.9 to 70.4)	73.7 (73.5 to 73.9)	1800.0 (1780.0 to 1810.0)	39.5 (32.4 to 47.8)	183 (169 to 197)	411 (393 to 429)	1.36 (1.29 to 1.42)
Paraguay	14.7 (10.5 to 19.6)	-3.0% (-4·5 to -1·5)	0·11 (0·10 to 0·14)	0.21 (0.18 to 0.25)	75.9 (73.8 to 77.6)	69.0 (66.5 to 71.1)	72·2 (69·9 to 74·2)	50·7 (43·7 to 59·3)	1.9 (1.4 to 2.5)	$\frac{1}{(0 \text{ to } 1)}$	15 (14 to 16)	1:11 (1:04 to 1:18)
North Africa and Middle East	1 20.2 (17.4 to 23.3)	-4·8% (-5·5 to -4·1)	0·12 (0·11 to 0·13)	0·19 (0·18 to 0·21)	73·7 (72·6 to 74·7)	68.9 (67.8 to 70.1)	71·1 (70·0 to 72·2)	4050.0 (3730.0 to 4390.0)	243.0 (208.0 to 280.0)	679 (583 to 753)	934 (797 to 1060)	1.33 (1.14 to 1.49)
Afghanistan	48.7	-4·7%	0.33	0.42	60.7	55·9	58·2	272·0	58.0	43	50	1.01
	(40.5 to 58.4)	(-5·7to-3·8)	(0.27 to 0.39)	(0.37 to 0.47)	(58.5 to 62.8)	(54·0 to 57·9)	(56·3 to 60·3)	(241·0 to 305·0)	(48.1 to 69.8)	(32 to 57)	(40 to 59)	(0.78 to 1.24)
Algeria	16.9	-4·1%	0·10	0.15	75·4	72·1	73·6	273·0	15·5	53	79	1.56
	(13.4 to 21.0)	(-5·4 to -2·9)	(0·09 to 0·11)	(0.13 to 0.17)	(74·3 to 76·4)	(70·6 to 73·6)	(72·3 to 74·9)	(243·0 to 306·0)	(12·2 to 19·3)	(51 to 54)	(62 to 95)	(1.35 to 1.75)
Bahrain	5.7	-3·5%	0.09	0.13	75·1	72·2	73·3	6·3	0·1	1	2	0.91
	(4.8 to 6.7)	(-4·4 to -2·7)	(0.08 to 0.10)	(0.11 to 0.14)	(74·1 to 76·0)	(71·1 to 73·3)	(72·3 to 74·4)	(5·6 to 7·0)	(0·1 to 0·1)	(1 to 1)	(1 to 2)	(0.75 to 1.03)
Egypt	12·8	-6.0%	0·14	0.24	70·2	66.9	68.4	712·0	33·1	89	152	1.20
	(10·5 to 15·7)	(-7.1 to -4.8)	(0·12 to 0·17)	(0.20 to 0.27)	(68·7 to 71·6)	(65.0 to 68.7)	(66.7 to 70.0)	(612·0 to 823·0)	(27·1 to 40·7)	(58 to 121)	(98 to 196)	(0.81 to 1.55)
Iran	5·3 (4·4 to 6·2)	-9.7% (-10.7 to -8.6)	0.09 (0.08 to 0.09)	0.17 (0.16 to 0.18)	77.2 (76.8 to 77.6)	71.9 (71.5 to 72.3)	74·4 (74·1 to 74·6)	569.0 (556.0 to 582.0)	5.6 (4.7 to 6.7)	158 (153 to 162)	205 (198 to 210)	2·12 (2·07 to 2·16)
Iraq	18·8	-4·3%	0·13	0.21	73·5	67.5	70.2	233·0	15.7	60	50	1.65
	(14·8 to 23·7)	(-5·4 to -3·0)	(0·10 to 0·16)	(0.17 to 0.26)	(71·6 to 75·4)	(65.6 to 70.0)	(68.3 to 72.5)	(193·0 to 269·0)	(12.4 to 19.9)	(50 to 70)	(35 to 62)	(1.33 to 1.94)
Jordan	11.5	-3.9%	0.08	0.13	77·6	74·1	75·7	45·5	2·5	9	15	1.01
	(9.4 to 14.1)	(-4.9 to -2.8)	(0.07 to 0.09)	(0.11 to 0.15)	(76·1 to 78·9)	(72·4 to 75·9)	(74·1 to 77·3)	(39·2 to 52·3)	(2·0 to 3·0)	(6 to 11)	(11 to 18)	(0.70 to 1.22)
Kuwait	8·1	-1.7%	0.04	0.09	85·1	78·1	80.7	12·1	0.4	2	2	0.48
	(6·6 to 9·7)	(-2.6 to -0.7)	(0.03 to 0.04)	(0.07 to 0.10)	(84·0 to 86·2)	(76·3 to 80·0)	(79.2 to 82.3)	(10·4 to 13·9)	(0.3 to 0.5)	(2 to 3)	(1 to 3)	(0.32 to 0.62)
Lebanon	7.7	-4.9%	0.08	0.16	78.4	72·2	75·2	49·6	0.6	8	18	2.86
	(5.4 to 10.9)	(-6.5 to -3.2)	(0.07 to 0.09)	(0.14 to 0.17)	(77.4 to 79.3)	(70·9 to 73·3)	(74·0 to 76·2)	(45·6 to 54·6)	(0.4 to 0.9)	(7 to 9)	(16 to 19)	(2.59 to 3.17)
Libya	21.6 (16.9 to 27.0)	-0.7% (-1.9 to 0.5)	0.13 (0.11 to 0.16)	0.20 (0.17 to 0.24)	73·4 (70·9 to 75·4)	68.7 (66.0 to 71.1)	70.8 (68.2 to 73.1)	46·3 (38·9 to 55·7)	$\frac{1.8}{(1.4 \text{ to } 2.2)}$	6 (5 to 7)	10 (8 to 12)	1.24 (0.99 to 1.48)
Могоссо	14·8	-5.9%	0·13	0·16	73.9	70.9	72·3	286.0	9.5	52	46	1.41
	(12·1 to 17·8)	(-6.9 to -4.8)	(0·10 to 0·16)	(0·13 to 0·19)	(72.2 to 75.8)	(69.4 to 72.9)	(70·7 to 74·3)	(241.0 to 318.0)	(7.7 to 11.4)	(41 to 62)	(36 to 57)	(1.15 to 1.68)

rate of change, change, 2000–21 -2-5% 0-09 -2-5% 0-08 -4-6% 0-08 -5-2% 0-04 to 0-09 -5-2% 0-04 to 0-09 -5-2% 0-04 to 0-00 -5-2% 0-05 -6-3 to -4-2) 0-04 to 0-07 -5-2% 0-10 -5-2% 0-11 -5-2% 0-15 -5-2% 0-16 -5-2% 0-17 -5-2% 0-18 -5-2% 0-19 -5-2% 0-10 -5-2% 0-10 -5-2% 0-10 -5-2% 0-10 -5-2% 0-10 -5-2% 0-10 -5-2% 0-10 -5-2% 0-10 -5-2% 0-10 -5-2% 0-15			(thousands)	among children younger than 5 years in 2021 (thousands)	deaths due to COVID-19 in 2020 (thousands)	due to COVID-19 in 2021 (thousands)	mortality rate due to COVID-19, 2020-21 (deaths per
ed from previous page) 9.1 (8.0 to 10.2) (-2.5% 0.09 (8.6 to 13.9) (-5.8 to -3.4) (0.07 to 0.09) 3.6 (2.9 to 4.6) (-6.3 to -4.2) (0.04 to 0.06) (2.9 to 4.6) (-6.3 to -4.2) (0.04 to 0.06) (2.9 to 4.6) (-6.3 to -4.2) (0.04 to 0.06) (2.9 to 2.9) (-5.2% 0.04 (2.9 to 12.4) (-5.1 to -4.0) (0.13 to 0.07) (8.0 to 12.4) (-5.1 to -4.0) (0.13 to 0.07) (8.0 to 12.4) (-5.2% 0.06 (9.1 to 13.4) (-5.2% 0.06 (9.1 to 13.4) (-7.3 to -5.3) (0.06 to 0.08) (9.1 to 13.4) (-7.3 to -5.3) (0.06 to 0.08) (10.3 38.9	Females	Males Both sexes					10000)
9.1							
10.8	76·3 .0·18) (75·1 to 77·4)	70.5 72.7 (69.1 to 71.7) (71.4 to 73.9)	17·0 (3·9) (15·3 to 19·0)	0.7 (0.6 to 0.8)	3 (3 to 4)	6 (5 to 6)	1.05 (0.98 to 1.11)
3.6	76·2 (0·17) (75·2 to 77·2)	71.5 73.8 (70.3 to 72.8) (72.6 to 74.9)	19·5 (4·9) (17·5 to 21·6)	1.3 (1.0 to 1.7)	1 (0 to 2)	4 (3 to 5)	0.50 (0.34 to 0.66)
bia 4.2 (3.2 to 5.3) (-9.7 to -6.8) (0.11 to 0.17) 36.8 (29.5 to 45.0) (-6.1 to -4.0) (0.13 to 0.20) 10.0 (8.0 to 12.4) (-5.9% 0.10 (8.4 to 12.5) (-6.2 to -4.1) (0.07 to 0.11) 11.1 -6.3% 0.05 (9.1 to 13.4) (-7.3 to -5.3) (0.06 to 0.08) 4.8 -4.2% 0.05 (9.1 to 13.4) (-7.1 to -3.5) (0.05 to 0.07) 38.9 -4.1% 0.05 37.1 -3.6% 0.13 sh 28.0 -5.3% 0.11 22.5 to 34.6) (-6.4 to -4.2) (0.09 to 0.13) (22.5 to 34.6) (-6.4 to -4.2) (0.08 to 0.13) (22.5 to 34.6) (-6.4 to -4.2) (0.09 to 0.13) (22.8 to 36.6) (-6.4 to -3.9) (0.08 to 0.13) (22.8 to 36.6) (-6.4 to -3.9) (0.08 to 0.13) (23.8 to 36.6) (-6.4 to -3.9) (0.08 to 0.13) (23.8 to 36.6) (-6.4 to -3.9) (0.04 to 0.17) (26.9 to 40.8) (-5.2 to -2.8) (0.14 to 0.17) (26.9 to 40.8) (-5.2 to -2.8) (0.15 to -1.2) (25.2 to -2.8) (0.15 to -2.2) (25.2 to -2.8) (25.2	79·2 (77·6 to 80·7)	76.1 77.2 (74.2 to 77.9) (75.4 to 78.9)	5·1 78·9) (4·2 to 6·0)	0.1 (0.1 to 0.2)	1 (1to1)	1 (1 to 1)	0.31 (0.23 to 0.37)
36.8	75·1 0·23) (72·9 to 77·2)	71.8 73.1 (69.9 to 73.6) (71.1 to 75.0)	156.0 5.0) (129.0 to 187.0)	2.0 (1.5 to 2.5)	15 (12 to 18)	12 (8 to 17)	0.38 (0.29 to 0.46)
100 (8.0 to 12.4) (-3.9 to -1.8) (0.08 to 0.13) (10.3	70·1 0·27) (67·2 to 72·7)	66.3 (68.0 (63.1 to 69.3) (64.9 to 70.8)	246·0 70·8) (200·0 to 300·0)	42·5 (33·9 to 52·1)	37 (27 to 46)	48 (26 to 72)	1.08 (0.69 to 1.50)
10.3	74·7 (72·5 to 76·6)	70·1 72·4 (67·5 to 72·4) (69·9 to 74·6)		2·0 (1·6 to 2·5)	7 (5 to 8)	16 (11 to 22)	0.53 (0.38 to 0.69)
11.1		70.8 73.7 (68.5 to 73.1) (71.5 to 75.9)	103·0 5·9) (84·9 to 124·0)	$\frac{1.7}{(1.4 \text{ to } 2.1)}$	8 (-1 to 15)	34 (26 to 42)	1.87 (1.14 to 2.54)
ab 48 -42% 0.06 (4.1to 5.7) (-5.1to -3.5) (0.05 to 0.07) (38.9 (32.0 to 46.5) (-5.1to -3.2) (0.14 to 0.23) (37.1 to 44.2) (-5.1to -3.2) (0.14 to 0.23) (31.4 to 44.2) (-4.5 to -2.7) (0.14 to 0.17) (22.5 to 34.6) (-6.4 to -4.2) (0.09 to 0.13) (22.8 to 36.6) (-6.4 to -4.2) (0.09 to 0.13) (22.8 to 36.6) (-6.4 to -3.9) (0.08 to 0.13) (26.9 to 40.8) (-5.2 to -2.8) (0.14 to 0.17) (26.9 to 40.8) (-5.2 to -2.8) (0.14 to 0.17) (26.9 to 40.8) (-5.2 to -2.8) (0.15 to 3.8 to 3.	78·3 (77·0 to 79·5)	72·3 75·2 (70·7 to 74·0) (73·7 to 76·7)	654·0 (6.7) (566·0 to 744·0)	11.4 (9.3 to 13.7)	111 (83 to 135)	144 (107 to 172)	1.62 (1.21 to 1.87)
38.9 (32.0to 46.5) (-5.1to -3.2) (0.14to 0.23) (37.1 37.1 -3.6% 0.15 (31.4to 44.2) (-4.5to -2.7) (0.14to 0.17) (22.5 to 34.6) (-6.4 to -4.2) (0.09 to 0.13) (29.3 -5.2% 0.10 (22.8 to 36.6) (-6.4 to -3.9) (0.08 to 0.13) (33.1 -4.0% 0.15 28.4 -5.1% 0.15	71.5 (70.8 to 72.3)	77.5 (75.7 to 79.6) (73.6 to 76.6)	20·1 76·6) (15·9 to 23·7)	0.4 (0.3 to 0.4)	-2 (-7 to 2)	4 (0 to 5)	0.21 (-0.24 to 0.61)
37.1 -3-6% 0.15 (31.4 to 44.2) (-4.5 to -2.7) (0.14 to 0.17) sh 28.0 -5:3% 0.11 (22.5 to 34.6) (-6.4 to -4.2) (0.09 to 0.13) (22.8 to 36.6) (-6.4 to -3.9) (0.08 to 0.13) (26.9 to 40.8) (-5.2 to -2.8) (0.14 to 0.17) (26.9 to 40.8) (-5.2 to -2.8) (0.14 to 0.17) (28.4 -5.1% 0.15)				37.8 (30.9 to 45.3)	19 (15 to 22)	37 (15 to 65)	0.85 (0.50 to 1.29)
lesh 28.0	70.8 0.25) (69.8 to 71.8)	66.4 68.5 (65.4 to 67.4) (67.6 to 69.3)	14 800.0 (14 000.0 to 15 600.0)	1180.0 (995.0 to 1410.0)	1610 (1500 to 1710)	2830 (2710 to 2960)	1.28 (1.24 to 1.32)
293 -5.2% 0.10 (22.8 to 36.6) (-64 to -3.9) (0.08 to 0.13) (33.1 -4.0% 0.15 (26.9 to 40.8) (-5.2 to -2.8) (0.14 to 0.17) (74·1 (72·0to 76·1)	70.6 72.3 (68.3 to 72.8) (70.0 to 74.3)	1100.0 74.3) (929.0 to 1280.0)	79.2 (63.4 to 98.0)	152 (127 to 208)	180 (154 to 219)	1.07 (0.92 to 1.37)
33.1 -4.0% 0.15 (26.9 to 40.8) (-5.2 to -2.8) (0.14 to 0.17) 1284 -5.1% 0.15	74·9 .0·16) (72·6 to 77·3)	72.7 73.7 (70.2 to 75.2) (71.3 to 76.2)	4·4 (6·2) (3·7 to 5·2)	0.4 (0.3 to 0.5)	0 (0 to 0)	0 (0 to 0)	0.09 (0.07 to 0.11)
28.4 -5.1% 0.15	71.2 (70.2 to 72.4)	66.6 68.7 (65.4 to 67.7) (67.8 to 69.6)	11700.0 59.6) (11100.0 to 12500.0)	730.0 (590.0 to 902.0)	1170 (1100 to 1240)	2270 (2160 to 2370)	1.29 (1.26 to 1.33)
(22.0 to 36.4) $(-6.3 to -3.8)$ $(0.13 to 0.18)$ $(0.21 to 0.27)$	70.8 .0.27) (68.8 to 72.4)	66·1 68·4 (64·1to 67·8) (66·4 to 70·1)	252·0 70·1) (224·0 to 290·0)	18·2 (14·0 to 23·4)	29 (22 to 32)	62 (58 to 70)	1.47 (1.39 to 1.59)
Pakistan 56·3 -2.2% 0.19 0.25 (46·2 to 68·0) (-3.2 to -1.2) (0.15 to 0.24) (0.20 to 0.30)	66.4 0.30) (63.8 to 68.8)	63.8 65.0 (61.3 to 66.1) (63.1 to 66.9)	1720.0 56.9) (1520.0 to 1940.0)	353.0 (288.0 to 428.0)	254 (236 to 271)	311 (258 to 385)	1.28 (1.15 to 1.48)

			ages 15 and 59 y	ages 15 and 59 years, 2021				2021 (thousands)	among children younger than 5 years in 2021 (thousands)	deaths due to COVID-19 in 2020 (thousands)	Excess deaths due to COVID-19 in 2021 (thousands)	mortality rate due to COVID-19, 2020-21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					
(Continued from previous page)	orevious page)											
Southeast Asia, east Asia, and Oceania	14·6 (12·6 to 17·0)	-5·1% (-5·8 to -4·4)	0.08 (0.07 to 0.09)	0·15 (0·13 to 0·17)	78·6 (77·2 to 80·0)	72·5 (70·9 to 74·1)	75·4 (74·1 to 76·6)	17800.0 (15900.0 to 19900.0)	352·0 (302·0 to 411·0)	165 (-39 to 534)	869 (424 to 1490)	0.24 (0.09 to 0.44)
East Asia	7·3 (6·2 to 8·6)	-7.9% (-8.9 to -6.9)	0.06 (0.04 to 0.07)	0.12 (0.09 to 0.15)	80.7 (78.9 to 82.5)	74·8 (72·7 to 77·0)	77.6 (76.0 to 79.1)	12100.0 (10400.0 to 14000.0)	90.0 (76.2 to 107.0)	55 (-6 to 292)	12 (-14 to 72)	0.02 (-0.01 to 0.12)
China	7.2 (6.1 to 8.6)	-7.7% (-8.5 to -6.8)	0.05 (0.04 to 0.07)	0.12 (0.09 to 0.14)	80.7 (78.9 to 82.6)	74·9 (72·7 to 77·1)	77.6 (76.0 to 79.2)	11700.0 (9980.0 to 13600.0)	86·1 (72·3 to 102·0)	59 (3 to 283)	11 (-2 to 55)	0.02 (0.00 to 0.12)
North Korea	10.5 (7.8 to 13.9)	-10.9% (-15.4 to -7.3)	0.12 (0.09 to 0.15)	0.20 (0.16 to 0.25)	76.2 (73.6 to 78.5)	70·1 (67·8 to 72·5)	73·3 (70·7 to 75·7)	242.0 (202.0 to 288.0)	3·1 (2·3 to 4·1)	1 (0to 5)	0 (0 to 1)	0.02 (0.00 to 0.12)
Taiwan (province of China)	4·6 (4·1 to 5·2)	-2·7% (-3·4 to -2·1)	0.05 (0.05 to 0.05)	0·12 (0·12 to 0·12)	84.6 (84.4 to 84.8)	78·1 (77·9 to 78·2)	81.3 (81.1 to 81.4)	184.0 (182.0 to 186.0)	0.7 (0.7 to 0.8)	-6 (-15 to 4)	1 (-18 to 16)	-0.11 (-0.69 to 0.43)
Oceania	47·1 (38·9 to 56·1)	-1.2% (-2.2 to -0.2)	0.21 (0.18 to 0.26)	0.29 (0.24 to 0.35)	66.6 (64.2 to 69.0)	62·5 (59·4 to 65·6)	64.4 (61.6 to 67.1)	108.0 (89.4 to 131.0)	19·8 (16·3 to 23·7)	1 (0to3)	16 (4 to 34)	0.69 (0.17 to 1.47)
American Samoa	12·1 (9·4 to 15·5)	-0.9% (-2.3 to 0.4)	0.16 (0.13 to 0.19)	0.23 (0.19 to 0.27)	72.8 (70.6 to 74.9)	69·3 (67·0 to 71·2)	71.0 (68.7 to 72.9)	0.4 (0.4 to 0.5)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Cook Islands	5.4 (5.4 to 5.5)	-4·4% (-5·4 to -3·4)	0.08 (0.07 to 0.10)	0.18 (0.15 to 0.22)	79·6 (77·6 to 81·6)	72.9 (70.9 to 74.7)	76·1 (74·2 to 78·0)	0.2 $(0.1 to 0.2)$	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Federated States of Micronesia	15·4 (12·2 to 19·1)	-4·1% (-5·2 to -2·9)	0.21 (0.16 to 0.27)	0.32 (0.26 to 0.40)	69.7 (66.6 to 72.4)	64·5 (61·1 to 67·5)	67.0 (63.6 to 69.9)	0.8 (0.7 to 1.0)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
ΞĒ	19·3 (14·6 to 25·2)	-1.4% (-2.9 to 0.3)	0.21 (0.16 to 0.26)	0.31 (0.23 to 0.38)	68.8 (65.8 to 71.9)	63.8 (60.4 to 67.4)	66·1 (62·9 to 69·6)	9.4 (7.2 to 12.0)	0·3 (0·3 to 0·5)	0 (0 to 0)	2 (0 to 4)	1.08 (0.27 to 2.36)
Guam	12.0 (9.6 to 14.9)	0.1% (-1.0 to 1.3)	0.11 (0·10 to 0·12)	0.21 (0.19 to 0.23)	82.9 (81.2 to 84.7)	73·5 (71·7 to 75·5)	77.9 (76.2 to 79.8)	1.2 (1.0 to 1.3)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	1.08 (0.65 to 1.48)
Kiribati	36.4 (29.6 to 44.7)	-2.6% (-3.6 to -1.5)	0.22 (0.17 to 0.28)	0.36 (0.30 to 0.44)	67.0 (64.1 to 69.5)	61·1 (57·8 to 64·0)	64·1 (60·9 to 66·8)	1.0 (0.8 to 1.2)	0·1 (0·1 to 0·1)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Marshall Islands	19.9 (15.3 to 26.2)	-3·1% (-4·4 to -1·7)	0.26 (0.21 to 0.33)	0.34 (0.28 to 0.41)	66.8 (63.5 to 69.6)	63.4 (59.8 to 66.5)	65·0 (61·5 to 68·1)	0.4 (0.4 to 0.6)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Nauru	24·5 (18·2 to 33·0)	-3·1% (-4·5 to -1·6)	0.28 (0.22 to 0.34)	0.43 (0.37 to 0.51)	65·7 (62·3 to 68·7)	59·2 (55·8 to 62·4)	62·3 (58·8 to 65·4)	0.1 $(0.1 to 0.1)$	0.0 (0.0 to 0.0)	0 (0to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Niue	51·1 (51·0 to 52·5)	2.8% (1.8 to 3.7)	0.15 (0.12 to 0.18)	0.23 (0.19 to 0.29)	69.2 (67.6 to 71.1)	65·1 (62·9 to 66·8)	67·1 (65·1 to 69·0)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Northern Mariana Islands	6.2 (5.0 to 7.4)	-0.7% (-1.6 to 0.1)	0·13 (0·11 to 0·15)	0.22 (0.18 to 0.25)	75.0 (73.8 to 77.1)	69·5 (68·1 to 71·9)	72.0 (70.7 to 74.2)	0.4 (0.3 to 0.4)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.38 (-0.75 to 1.39)
Palau	16.9 (13.9 to 20.8)	-1.5% (-2.7 to -0.4)	0·15 (0·12 to 0·19)	0.28 (0.23 to 0.33)	70·5 (68·2 to 72·6)	67.7 (64.9 to 70.5)	68.7 (66.1 to 71.1)	0.2 (0.2 to 0.2)	0.0	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)

			ages 15 and 59 years, 2021	9 years, 2021				(thousands)	among children younger than 5 years in 2021 (thousands)	deaths due to COVID-19 in 2020 (thousands)	due to COVID-19 in 2021 (thousands)	mortality rate due to COVID-19, 2020–21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					(000)
(Continued from previous page)	orevious page)											
Papua New Guinea	52·7 (43·5 to 62·8)	-1.4% (-2.5 to -0.4)	0.22 (0.18 to 0.27)	0.29 (0.23 to 0.37)	65·5 (62·8 to 68·3)	61.9 (58.4 to 65.4)	63·5 (60·3 to 66·7)	80.7 (65.2 to 99.6)	17·6 (14·5 to 21·1)	1 (0 to 2)	13 (3 to 29)	0.75 (0.18 to 1.62)
Samoa	13.0 (10.1 to 16.6)	-2·4% (-3·8 to -0·9)	0.17 (0.14 to 0.21)	0.22 (0.18 to 0.27)	71.9 (69.5 to 74.2)	69·6 (67·2 to 71·5)	70·7 (68·3 to 72·8)	1.4 (1.2 to 1.6)	0·1 (0·1 to 0·1)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Solomon Islands	19·5 (15·6 to 24·2)	-2.7% (-3.9 to -1.5)	0.23 (0.18 to 0.29)	0.33 (0.27 to 0.41)	68.4 (65.2 to 71.1)	63.7 (60.3 to 66.5)	65.9 (62.6 to 68.7)	4·6 (3·7 to 5·7)	0.4 (0.3 to 0.5)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Tokelau	64·0 (64·0 to 64·0)	5·3% (4·1 to 6·3)	0.17 (0.14 to 0.20)	0·19 (0·15 to 0·24)	67.8 (65.6 to 70.0)	67·1 (65·1 to 69·0)	67·5 (65·3 to 69·5)	0.0 (0.0 to 0.0)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Tonga	11.7 (9.0 to 14.9)	-2.8% (-4.2 to -1.4)	0.13 (0.10 to 0.16)	0.20 (0.16 to 0.25)	75·7 (72·9 to 78·2)	70·6 (67·9 to 73·1)	73·1 (70·4 to 75·6)	0.7 (0.6 to 0.8)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Tuvalu	17·3 (13·2 to 22·5)	-5.4% (-6.8 to -4.0)	0.19 (0.15 to 0.24)	0.29 (0.23 to 0.35)	70.6 (67.8 to 73.2)	65.8 (62.7 to 68.7)	68.0 (65.7 to 70.1)	0·1 (0·1 to 0·1)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.00 (0.00 to 0.00)
Vanuatu	20.7 (16.3 to 26.6)	-2·5% (-3·8 to -1·2)	0.20 (0.17 to 0.24)	0.35 (0.30 to 0.41)	69.4 (67.3 to 71.3)	62·5 (59·9 to 64·8)	65.7 (63.3 to 67.8)	2.3 (1.9 to 2.7)	0.2 (0.1 to 0.2)	0 (0 to 0)	0 (0 to 1)	0.41 (0.10 to 0.87)
Southeast Asia	21.5 (18.2 to 25.4)	-3.9% (-4.7 to -3.1)	0.12 (0.11 to 0.14)	0.22 (0.19 to 0.25)	74·3 (72·7 to 75·8)	67.9 (66.1 to 69.7)	71.0 (69.4 to 72.5)	5510.0 (4870.0 to 6180.0)	243.0 (205.0 to 287.0)	109 (-33 to 304)	841 (428 to 1410)	0.70 (0.29 to 1.26)
Cambodia	30.7 (25.5 to 37.4)	-5·3% (-6·2 to -4·3)	0.15 (0.12 to 0.19)	0.25 (0.20 to 0.31)	71.0 (68.2 to 73.6)	65·2 (62·3 to 68·2)	68·2 (65·3 to 71·0)	129.0 (104.0 to 156.0)	11.0 (9.1 to 13.4)	0 (0 to 0)	14 (4 to 27)	0.40 (0.12 to 0.79)
Indonesia	24·1 (19·5 to 29·5)	-3.8% (-4.9 to -2.8)	0.14 (0.11 to 0.18)	0.21 (0.16 to 0.27)	72.0 (69.6 to 74·3)	67·3 (64·4 to 70·3)	69.5 (67.3 to 71.9)	2200.0 (1790.0 to 2630.0)	107.0 (86.1 to 130.0)	133 (47 to 271)	364 (124 to 717)	0.94 (0.32 to 1.87)
Laos	40·2 (31·3 to 50·3)	-5.2% (-6.4 to -3.9)	0.15 (0.12 to 0.19)	0.23 (0.19 to 0.29)	70·4 (67·4 to 73·2)	65.4 (62.2 to 68.7)	67.8 (64.6 to 70.9)	51.0 (40.9 to 62.3)	7.0 (5.4 to 8.8)	0 (0 to 0)	5 (2 to 11)	0.36 (0.12 to 0.78)
Malaysia	6.2 (5.6 to 7.0)	-1.8% (-2.4 to -1.2)	0.11 (0.11 to 0.12)	0.20 (0.19 to 0.22)	75·7 (75·2 to 76·2)	70·4 (69·5 to 71·1)	72.9 (72.1 to 73.4)	224·0 (214·0 to 240·0)	3·0 (2·7 to 3·4)	-15 (-27 to -6)	37 (19 to 52)	0.34 (-0.05 to 0.70)
Maldives	12·5 (10·1 to 15·6)	-4·4% (-5·6 to -3·2)	0.05 (0.04 to 0.06)	0.08 (0.06 to 0.10)	81.2 (79.7 to 82.6)	78·1 (76·1 to 80·0)	79·4 (77·6 to 81·1)	$\frac{1.6}{(1.4 \text{ to } 1.9)}$	0·1 (0·1 to 0·1)	0 (0 to 0)	0 (0 to 0)	0.28 (0.05 to 0.56)
Mauritius	12·6 (10·5 to 14·3)	-1.5% (-2.4 to -0.7)	0.11 (0.10 to 0.12)	0.21 (0.19 to 0.22)	76.9 (76.1 to 78.1)	70·1 (69·1 to 71·6)	73·4 (72·5 to 74·8)	13·2 (11·9 to 14·3)	0.2 (0.1 to 0.2)	0 (-1 to 0)	2 (0 to 3)	0.44 (-0.38 to 1.04)
Myanmar	39·2 (31·7 to 49·3)	-4.8% (-5.9 to -3.7)	0.14 (0.12 to 0.18)	0.26 (0.21 to 0.32)	71.2 (68.7 to 73.5)	64·1 (61·3 to 66·9)	67.6 (64.9 to 70.2)	511.0 (423.0 to 620.0)	42·1 (33·9 to 53·2)	17 (6 to 34)	66 (21 to 134)	0.82 (0.27 to 1.65)
Philippines	21.0 (17.3 to 25.3)	-2.6% (-3.7 to -1.5)	0.15 (0.13 to 0.18)	0.28 (0.24 to 0.32)	72.2 (70.6 to 73.8)	64·8 (63·0 to 66·7)	68·3 (66·9 to 69·5)	880.0 (799.0 to 968.0)	47.6 (39.3 to 57.6)	-17 (-19 to -16)	229 (227 to 230)	0.94 (0.93 to 0.95)
Seychelles	13.3 (10.8 to 16.4)	-0.0% (-1.1 to 1.1)	0.11 (0.09 to 0.12)	0.20 (0.18 to 0.21)	76·5 (75·5 to 77·4)	70.8 (69.9 to 71.7)	73.4 (72.5 to 74.3)	0.9 (0.8 to 0.9)	0.0 (0.0 to 0.0)	0 (0 to 0)	0 (0 to 0)	0.06 (-0.31 to 0.36)
Sri Lanka	6.0 (4.6 to 7.7)	-4.9% (-6.1 to -3.6)	0.07 (0.04 to 0.09)	0.16 (0.11 to 0.21)	79.7 (76.8 to 83.1)	73.4 (69.6 to 78.1)	76.6 (73.2 to 80.5)	158.0 (110.0 to 209.0)	1.8 (1.4 to 2.3)	-10 (-54 to 23)	18 (-19 to 48)	0.17 (-1.60 to 1.58)

	(A)	2	Probability of death betwee ages 15 and 59 years, 2021	Probability of death between ages 15 and 59 years, 2021	LITE expectancy	Life expectancy at birth in 2021 (years)	(years)	lotal deaths in 2021 (thousands)	lotal deaths among children younger than 5 years in 2021 (thousands)	Excess deaths due to COVID-19 in 2020 (thousands)	Excess deaths due to COVID-19 in 2021 (thousands)	mortality rate due to COVID-19, 2020–21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					(2)
(Continued from previous page)	orevious page)											
Thailand	7.4	-4·2%	0.09	0.21	80·3	72·4	76·3	626.0	4·0	1	62	0.44
	(6.5 to 8.3)	(-5·1 to -3·2)	(0.07 to 0.11)	(0.17 to 0.25)	(77·8 to 82·6)	(69·1 to 75·8)	(73·5 to 79·1)	(499.0 to 766.0)	(3·5 to 4·5)	(0 to 2)	(20 to 117)	(0.14 to 0.83)
Timor-Leste	35·2 (29·0 to 42·7)	-4·1% (-5·1 to -3·1)	0.16 (0.12 to 0.19)	0.21 (0.17 to 0.26)	70·5 (68·2 to 72·8)	66.9 (64.2 to 69.6)	68·6 (66·1 to 71·0)	9.5 (7.9 to 11.4)	$\frac{1.4}{(1.2 \text{ to } 1.7)}$	0 (0to0)	1 (0 to 2)	0.45 (0.14 to 0.88)
Viet Nam	11:1	-4·4%	0.08	0.19	78·3	69.9	74·0	701.0	17·5	1	44	0.23
	(8.7 to 14:3)	(-5·6 to -3·2)	(0.06 to 0.10)	(0.16 to 0.24)	(76·5 to 80·3)	(68.0 to 72.0)	(72·1 to 76·1)	(587.0 to 813.0)	(13·7 to 22·5)	(0to1)	(14 to 90)	(0.07 to 0.47)
Sub-Saharan Africa	70·7 (59·7 to 84·0)	-3·5% (-4·3 to -2·7)	0.24 (0.22 to 0.26)	0.34 (0.32 to 0.37)	64·1 (62·4 to 65·5)	58·7 (56·8 to 60·3)	61.3 (59.5 to 62.7)	9430.0 (8620.0 to 10500.0)	2630.0 (2210.0 to 3140.0)	805 (747 to 864)	1600 (1480 to 1720)	1·13 (1·05 to 1·19)
Central sub- Saharan Africa	58·3 (49·7 to 68·9)	-4·6% (-5·4 to -3·8)	0.25 (0.22 to 0.29)	0.37 (0.33 to 0.41)	63.8 (61.5 to 66.0)	58·4 (56·1 to 60·5)	61.0 (58.7 to 63.1)	1090.0 (953.0 to 1250.0)	259·0 (220·0 to 307·0)	94 (84 to 104)	174 (150 to 202)	1.04 (0.91 to 1.17)
Angola	54·7	-5·3%	0.27	0.37	63.7	58·4	61.0	250.0	65·3	15	40	0.92
	(45·7 to 65·1)	(-6·3 to -4·5)	(0.22 to 0.32)	(0.32 to 0.43)	(60.8 to 66.6)	(55·6 to 61·1)	(58.2 to 63.7)	(208.0 to 296.0)	(54·3 to 78·0)	(13 to 18)	(29 to 51)	(0.71 to 1.10)
Central African	110·0	-2·4%	0.39	0.57	55·2	48·2	51.4	73·7	20.6	9	9	1.47
Republic	(89·2 to 136·0)	(-3·4 to -1·3)	(0.33 to 0.47)	(0.50 to 0.65)	(51·2 to 58·6)	(44·5 to 51·7)	(47.6 to 54.9)	(60·8 to 89·4)	(16.6 to 25.8)	(6 to 12)	(6 to 14)	(0.98 to 2.15)
Congo	39.2	-4.6%	0.31	0.35	63·1	60.6	61.8	46·3	5·0	5	8	1.25
(Brazzaville)	(32.4 to 47.3)	(-5.7 to -3.6)	(0.25 to 0.37)	(0.29 to 0.42)	(60·4 to 65·6)	(58.1 to 62.9)	(59.2 to 64.2)	(39·6 to 54·4)	(4·2 to 6·1)	(4 to 6)	(5 to 10)	(0.93 to 1.49)
Democratic Republic of the Congo	57.8 (48.3 to 71.4)	-4.6% (-5.5 to -3.6)	0.23 (0.19 to 0.28)	0.35 (0.30 to 0.40)	64·5 (62·3 to 67·0)	59.0 (56.6 to 61.4)	61.6 (59.3 to 64·1)	698.0 (595.0 to 802.0)	165.0 (137.0 to 204.0)	61 (55 to 67)	112 (96 to 135)	1.02 (0.91 to 1.16)
Equatorial	46·3	-4.6%	0.29	0.37	63.7	59·3	61.5	10·5	$\frac{1.8}{(1.3 \text{ to } 2.4)}$	1	2	1.12
Guinea	(34·6 to 62·3)	(-6.0 to -3.1)	(0.22 to 0.38)	(0.30 to 0.45)	(58.9 to 67.7)	(55·3 to 62·9)	(57.2 to 65.3)	(8·2 to 13·6)		(1 to 2)	(1to 3)	(0.73 to 1.55)
Gabon	32·5 (23·6 to 44·5)	-3·7% (-5·1 to -2·1)	0.23 (0.19 to 0.29)	0.35 (0.29 to 0.41)	67·3 (64·0 to 70·2)	60.9 (57.8 to 63.6)	63.9 (60.6 to 66.7)	15·5 (12·9 to 18·7)	1.4 $(1.0 to 1.9)$	2 (2 to 2)	3 (2 to 4)	1.49 (1.22 to 1.69)
Eastern sub- Saharan Africa	57.9 (47.4 to 71.6)	-4.0% (-5.0 to -3.0)	0.24 (0.22 to 0.26)	0.36 (0.33 to 0.38)	64·5 (62·9 to 66·0)	58.9 (57.2 to 60.4)	61.5 (59.8 to 63.0)	3330.0 (3040.0 to 3700.0)	787.0 (640.0 to 978.0)	282 (259 to 305)	662 (594 to 712)	1:17 (1:07 to 1:25)
Burundi	63.9	-4·3%	0.22	0.32	64.9	60.0	62·2	97.4	29.6	4	11	0.66
	(50.0 to 82.0)	(-5·4 to -3·1)	(0.19 to 0.26)	(0.27 to 0.36)	(62.6 to 67.2)	(57.7 to 62.3)	(59·9 to 64·4)	(84.8 to 112.0)	(23.0 to 38.3)	(4 to 5)	(10 to 12)	(0.60 to 0.70)
Comoros	48.0 (39.0 to 58.9)	-3.7% (-4.7 to -2.6)	0.18 (0.14 to 0.22)	0.24 (0.20 to 0.28)	68·2 (65·8 to 70·2)	64·8 (62·5 to 66·9)	66.5 (64.2 to 68.5)	5.9 (5.1 to 6.8)	0.8 (0.7 to 1.0)	0 (0to0)	1 (1 to 1)	0.94 (0.86 to 1.01)
Djibouti	37.2	-4·1%	0.23	0.31	67.0	62·3	64·3	9·3	1.1	1	2	1.38
	(30.1 to 45.6)	(-5·1 to -3·0)	(0.18 to 0.29)	(0.26 to 0.38)	(63.4 to 70.0)	(59·0 to 65·1)	(60·9 to 67·2)	(7·5 to 11·6)	(0.9 to 1.4)	(1 to 2)	(1 to 3)	(0.98 to 1.72)
Eritrea	45·5	-3·5%	0.25	0.38	64.8	58·7	61.7	50.8	8.8	1	7	0.52
	(34·4 to 60·3)	(-4·9 to -2·2)	(0.20 to 0.31)	(0.32 to 0.46)	(61.5 to 67.8)	(55·2 to 61·7)	(58.3 to 64.7)	(41.6 to 62.3)	(6.6 to 11.7)	(1 to 2)	(5 to 7)	(0.44 to 0.60)
Ethiopia	52·2	-4.8%	0·19	0.28	67·5	62.0	64·5	737.0	180.0	72	157	1·14
	(41·8 to 65·1)	(-5.8 to -3.7)	(0·17 to 0·22)	(0.25 to 0.32)	(65·7 to 69·2)	(60.3 to 63.7)	(63·1 to 65·8)	(678.0 to 805.0)	(143.0 to 225.0)	(67 to 78)	(143 to 170)	(1·04 to 1·23)

			ages 15 and 59 years, 2021	Probability of death between ages 15 and 59 years, 2021	Life expectanc)	Life expectancy at birth in 2021 (years)	(years)	Total deaths in 2021 (thousands)	lotal deaths among children younger than 5 years in 2021 (thousands)	Excess deaths due to COVID-19 in 2020 (thousands)	Excess deaths due to COVID-19 in 2021 (thousands)	Excess mortality rate due to COVID-19, 2020-21 (deaths per
	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					0001
(Continued from previous page)	previous page)											
Kenya	36.6	-4.0%	0.22	0.35	67.2	61.0	63.9	357.0	43.7	56	86	1.49
	(29.7 to 44.7)	(-5.1 to -3.0)	(0.20 to 0.26)	(0.31 to 0.39)	(65.2 to 68.9)	(59.4 to 62.6)	(62.5 to 65.2)	(326.0 to 390.0)	(35.3 to 53.5)	(51 to 61)	(77 to 94)	(1.34 to 1.60)
Madagascar	57.6	-3·1%	0.25	0.31	63.9	60·5	62·1	206.0	48.9	24	33	1:11
	(46.2 to 72.4)	(-4·2 to -2·0)	(0.20 to 0.30)	(0.27 to 0.37)	(61.7 to 66.2)	(58·2 to 63·0)	(59·9 to 64·5)	(177.0 to 237.0)	(39.0 to 62.0)	(22 to 26)	(28 to 37)	(0:97 to 1:21)
Malawi	52·1	-5.4%	0.31	0.46	62·1	55·8	58.7	173.0	29.6	8	43	1.49
	(43·0 to 62·7)	(-6.4 to -4·5)	(0.27 to 0.36)	(0.41 to 0.50)	(59·5 to 64·5)	(53·7 to 57·7)	(56.7 to 60.6)	(154.0 to 196.0)	(24.3 to 35.8)	(7 to 9)	(38 to 48)	(1.31 to 1.64)
Mozambique	62·2	-4·5%	0.33	0.50	59.9	53·4	56·4	307·0	68·5	9	54	1·11
	(49·4 to 79·3)	(-5·7 to -3·3)	(0.28 to 0.38)	(0.45 to 0.56)	(57.4 to 62.4)	(51·0 to 55·5)	(54·0 to 58·6)	(268·0 to 350·0)	(54·0 to 88·1)	(5 to 13)	(42 to 64)	(0·94 to 1·25)
Rwanda	41.4	-5.9%	0.21	0.30	67·5	62·3	65·0	92·1	15·1	2	20	0.88
	(33.7 to 49.8)	(-6.9 to -4.9)	(0.17 to 0.24)	(0.26 to 0.34)	(65·2 to 69·7)	(60·0 to 64·3)	(62·7 to 67·1)	(79·4 to 107·0)	(12·3 to 18·3)	(2 to 3)	(16 to 22)	(0.72 to 0.97)
Somalia	92·3	-2.6%	0.36	0.53	56.9	50·7	53·6	238.0	86.0	25	41	1.26
	(75·9 to 112·0)	(-3.5 to -1.6)	(0.30 to 0.43)	(0.45 to 0.61)	(53.6 to 59.9)	(47·1 to 54·0)	(50·1 to 56·9)	(197.0 to 288.0)	(70.2 to 106.0)	(20 to 29)	(30 to 54)	(0.96 to 1.57)
South Sudan	129.0 (103.0 to 159.0)	-0.8% (-1.8 to 0.3)	0.28 (0.22 to 0.35)	0.40 (0.33 to 0.48)	58·1 (53·6 to 62·0)	52·6 (47·9 to 56·7)	55·0 (50·5 to 59·1)	115·0 (92·3 to 144·0)	47·5 (37·6 to 59·9)	10 (8 to 11)	12 (9 to 16)	0.96 (0.75 to 1.14)
Tanzania	52.4	-4·2%	0.23	0.31	65.9	61.3	63·5	440.0	101.0	38	89	1·17
	(42.4 to 65.6)	(-5·2 to -3·1)	(0.19 to 0.26)	(0.28 to 0.35)	(63.8 to 67.8)	(59.2 to 63.1)	(61·4 to 65·3)	(390.0 to 498.0)	(78.6 to 131.0)	(35 to 42)	(80 to 95)	(1·07 to 1·24)
Uganda	64·6	-3.6%	0.23	0.38	64.9	57.8	61.2	329·0	98.2	16	58	0.92
	(50·6 to 83·0)	(-4.8 to -2.4)	(0.19 to 0.27)	(0.32 to 0.43)	(62.2 to 67.3)	(55.3 to 60.3)	(58.7 to 63.7)	(283·0 to 382·0)	(79.1 to 123.0)	(11 to 18)	(36 to 70)	(0.67 to 1.08)
Zambia	46·1	-5.4%	0.33	0.47	61.4	55.8	58·3	175.0	27.9	14	49	1.75
	(36·5 to 58·1)	(-6.5 to -4.2)	(0.28 to 0.38)	(0.40 to 0.53)	(58.4 to 64.2)	(53.0 to 58.6)	(55·4 to 61·0)	(145.0 to 207.0)	(21.9 to 35.4)	(13 to 16)	(36 to 63)	(1.35 to 2.13)
Southern sub- Saharan Africa	43.6 (36.2 to 53.2)	-2.8% (-3.7 to -1.8)	0.31 (0.30 to 0.33)	0.47 (0.45 to 0.49)	63.0 (61.8 to 63.9)	55.9 (54.7 to 57.0)	59·3 (58·2 to 60·3)	1040.0 (989.0 to 1090.0)	71.4 (59.0 to 87.7)	155 (152 to 158)	297 (281 to 311)	3.01 (2.90 to 3.10)
Botswana	40.6 (30.3 to 53.9)	-2.8% (-4.1 to -1.4)	0.32 (0.27 to 0.36)	0.45 (0.40 to 0.51)	62.9 (60.9 to 65.0)	57.0 (55.0 to 58.9)	59.7 (58.0 to 61.6)	28·1 (24·7 to 31·3)	2·0 (1·5 to 2·6)	$\frac{1}{(1 \text{ to } 1)}$	10 (7 to 12)	2.54 (1.90 to 3.06)
Eswatini	42·1 (33·4 to 53·8)	-3.9% (-5.0 to -2.7)	0.46 (0.39 to 0.54)	0.66 (0.59 to 0.73)	56·1 (53·0 to 59·2)	49·5 (46·9 to 52·2)	52·5 (49·6 to 55·5)	17·6 (14·6 to 20·9)	$\frac{1.2}{(1.0 \text{ to } 1.6)}$	2 (2 to 3)	6 (4 to 7)	3.91 (2.97 to 4.57)
Lesotho	78.8	-1.0%	0.53	0.73	52·1	45·3	48·5	37.9	3·4	3	11	4·47
	(64.6 to 94.5)	(-2.0 to -0.1)	(0.46 to 0.60)	(0.67 to 0.78)	(49·7 to 54·6)	(43·5 to 47·2)	(46·5 to 50·5)	(33.0 to 42.9)	(2·7 to 4·1)	(3 to 3)	(9 to 13)	(3·79 to 5·14)
Namibia	33.4	-3·3%	0.29	0.47	64·0	56·5	60·1	26.8	1.9	2	9	2.33
	(26.1 to 43.0)	(-4·4 to -2·0)	(0.25 to 0.35)	(0.41 to 0.53)	(61·3 to 66·5)	(53·8 to 58·9)	(57·4 to 62·5)	(22.9 to 31.4)	(1.5 to 2.5)	(2 to 2)	(7 to 10)	(2.00 to 2.65)
South Africa	38·6	-3·3%	0.28	0.44	64.8	57.4	61.0	733·0	38·4	130	204	3·12
	(31·9 to 47·1)	(-4·2 to -2·3)	(0.27 to 0.30)	(0.42 to 0.46)	(64.0 to 65.5)	(56.6 to 58.3)	(60.3 to 61.6)	(712·0 to 754·0)	(31·6 to 47·1)	(130 to 130)	(204 to 204)	(3·12 to 3·12)
Zimbabwe	52.7	-1.9%	0.41	0.56	58·0	52·2	55·0	193·0	24·6	16	57	2.56
	(43.6 to 64.5)	(-2.9 to -0.9)	(0.36 to 0.47)	(0.51 to 0.62)	(55·5 to 60·4)	(49·7 to 54·5)	(52·5 to 57·3)	(167·0 to 222·0)	(20·2 to 30·2)	(14 to 18)	(45 to 67)	(2.14 to 2.93)
Western sub- Saharan Africa	86.3 (73.5 to 101.0)	-3·2% (-3·9 to -2·5)	0.21 (0.18 to 0.23)	0.29 (0.26 to 0.32)	64·5 (62·5 to 66·3)	59.9 (57.6 to 61.9)	62·1 (59·9 to 63·8)	3970.0 (3580.0 to 4510.0)	1510.0 (1280.0 to 1780.0)	274 (248 to 299)	468 (422 to 511)	0.81 (0.75 to 0.86)
Benin	77·3	-2.9%	0.19	0.29	65.9	60·1	62.9	105.0	39·6	4	13	0.67
	(62·8 to 95·2)	(-3.9 to -1.9)	(0.16 to 0.22)	(0.26 to 0.34)	(63.5 to 68.0)	(57·8 to 62·1)	(60.5 to 65.0)	(92.8 to 120.0)	(32·0 to 49·1)	(3 to 5)	(11 to 14)	(0.60 to 0.75)

Mortality rat in 2021 (deaths per 1000) (Continued from previous page) Burkina Faso 95-5 (77-9 to 117-7			,					2021 (thousands)	among children younger than 5 years in 2021 (thousands)	to COVID-19 in 2020 (thousands)	COVID-19 in 2021 (thousands)	due to COVID-19, 2020–21 (deaths per
(Continued from previou Burkina Faso 95.ºc (77)	Mortality rate in 2021 (deaths per 1000)	Annualised rate of change, 2000–21	Females	Males	Females	Males	Both sexes					1000)
	us page)											
	95·5	-3.0%	0.21	0.33	63·0	57·4	60·1	218·0	87.8	15	25	0.95
	(77·9 to 117·0)	(-4.0 to -2.0)	(0.18 to 0.25)	(0.29 to 0.37)	(60·7 to 65·1)	(54·9 to 59·6)	(57·6 to 62·3)	(192·0 to 249·0)	(71.1 to 109.0)	(14 to 16)	(19 to 28)	(0.82 to 1.04)
Cabo Verde 15·0 (11·3	15·0	-5.8%	0.08	0.20	77-8	69.0	73·2	3·7	0·1	0	0	0.41
	(11·3 to 19·7)	(-7.3 to -4.2)	(0.07 to 0.10)	(0.17 to 0.25)	(75-8 to 79-8)	(66.8 to 71.2)	(71·1to 75·4)	(3·1 to 4·2)	(0·1 to 0·2)	(0 to 0)	(0 to 0)	(0.23 to 0.64)
Cameroon 65·5	65·5	-3·2%	0.26	0.36	63·6	58·5	60.8	261.0	67.6	16	46	1.03
(54·3	(54·3 to 77·6)	(-4·1to-2·3)	(0.21 to 0.31)	(0.31 to 0.42)	(60·6 to 66·1)	(55·7 to 60·8)	(58.0 to 63.2)	(225.0 to 308.0)	(55.6 to 80.4)	(14 to 17)	(39 to 51)	(0.91 to 1.14)
Chad 112·0 (94·6·	112·0	-2·3%	0.25	0.33	60·5	56·5	58·3	182·0	92·9	14	12	0.80
	(94·6 to 134·0)	(-3·2 to -1·4)	(0.20 to 0.30)	(0.28 to 0.39)	(56·9 to 63·5)	(52·5 to 59·8)	(54·5 to 61·5)	(153·0 to 220·0)	(77·9 to 112·0)	(11 to 16)	(9 to 14)	(0.63 to 0.90)
Côte d'Ivoire 68·5	68·5	-3·4%	0.21	0.31	65.8	60·3	62.7	209·0	64·4	19	24	0.80
(58·2	(58·2 to 80·6)	(-4·2 to -2·5)	(0.17 to 0.26)	(0.26 to 0.36)	(63.1 to 68.4)	(57·6 to 62·7)	(59.9 to 65.1)	(181·0 to 244·0)	(54·3 to 76·1)	(17 to 20)	(21 to 28)	(0.71 to 0.88)
The Gambia 44·2	44·2	-4·0%	0.24	0·34	65.9	60.9	63·2	17.6	42·0	2	3	1.16
(35·3	(35·3 to 55·4)	(-5·1 to -2·9)	(0.19 to 0.28)	(0·29 to 0·39)	(63.4 to 68.2)	(58.5 to 63.2)	(60·9 to 65·5)	(15.2 to 20.3)	(32·3 to 53·9)	(2 to 3)	(2 to 3)	(1.01 to 1.33)
Ghana 43·4	43·4	-4·0%	0.21	0·31	67.4	61.7	64·6	250·0	42·6	18	40	0.93
(33·6	(33·6 to 55·5)	(-5·2 to -2·7)	(0.18 to 0.25)	(0·27 to 0·36)	(65.0 to 69.6)	(59.5 to 63.9)	(62·3 to 66·7)	(215·0 to 289·0)	(35·3 to 51·5)	(16 to 20)	(32 to 48)	(0.80 to 1.05)
Guinea 86·8 (72·7	86.8	-3·4%	0.25	0.32	62·2	58·2	60·1	127·0	4·4	14	19	1.37
	(72.7 to 104.0)	(-4·3 to -2·5)	(0.20 to 0.30)	(0.27 to 0.38)	(58·9 to 65·1)	(54·6 to 61·2)	(56·6 to 63·0)	(107·0 to 152·0)	(3·6 to 5·4)	(12 to 17)	(13 to 23)	(1.07 to 1.64)
Guinea-Bissau 61·8	61.8	-4·6%	0.31	0.45	61.3	55·1	58·1	18.4	10.9	3	3	1.45
(50·9	(50.9 to 75.1)	(-5·6 to -3·6)	(0.25 to 0.37)	(0.38 to 0.53)	(58.8 to 63.8)	(52·4 to 57·7)	(55·6 to 60·7)	(15.8 to 21.2)	(8.4 to 14.4)	(3 to 3)	(1 to 4)	(1.07 to 1.77)
Liberia 66·9 (51·7	66.9	-4·5%	0.23	0.28	64·1	61.6	62.7	39·5	101.0	3	4	0.88
	(51.7 to 87.8)	(-5·7 to -3·1)	(0.19 to 0.29)	(0.24 to 0.34)	(60·1 to 67·4)	(57.7 to 64.8)	(58.9 to 66.0)	(32·2 to 49·3)	(83.9 to 124.0)	(3 to 4)	(4 to 5)	(0.77 to 1.00)
Mali 97·7	97.7	-3·3%	0.25	0.32	61·1	57·3	59·1	234·0	4·6	21	36	1.28
(81·4	(81.4 to 118.0)	(-4·1to-2·3)	(0.22 to 0.30)	(0.28 to 0.36)	(58·8 to 63·2)	(55·1 to 59·2)	(56·8 to 61·0)	(208·0 to 265·0)	(3·8 to 5·5)	(18 to 23)	(33 to 40)	(1.17 to 1.36)
Mauritania 33.7	33·7	-4·3%	0.17	0·19	70·1	68.4	69.2	25·0	100.0	3	3	0.82
(28.3	(28·3 to 40·2)	(-5·2 to -3·4)	(0.13 to 0.21)	(0·15 to 0·23)	(67·4 to 72·5)	(65.6 to 71.0)	(66.5 to 71.7)	(21·0 to 30·1)	(80.9 to 124.0)	(3 to 4)	(2 to 4)	(0.66 to 0.93)
Niger 88.7	88.7	-4·4%	0.21	0.28	63·5	60·1	61.8	206.0	787.0	13	17	0.66
(72·1	(72.1 to 110.0)	(-5·3 to -3·4)	(0.17 to 0.26)	(0.23 to 0.33)	(60·0 to 66·6)	(56·3 to 63·4)	(58.1 to 65.0)	(170.0 to 253.0)	(662.0 to 938.0)	(12 to 15)	(13 to 20)	(0.56 to 0.74)
Nigeria 96·3 (81·8	96·3 (81·8 to 114·0)	-3·1% (-3·9 to -2·2)	0.19 (0.15 to 0.24)	0.25 (0.21 to 0.31)	65.0 (62.2 to 67.4)	60.7 (58.0 to 63.1)	62.8 (60.8 to 64.6)	1820.0 (1650.0 to 2030.0)	0.1 (0.1 to 0.1)	106 (96 to 116)	186 (167 to 210)	0.67 (0.62 to 0.73)
São Tomé and 17.8	17.8	-7·1%	0.15	0.20	72·2	68.6	70·4	1·1	19·3	0	0	0.51
Príncipe (13·5	(13.5 to 23.2)	(-8·4 to -5·7)	(0.12 to 0.19)	(0.17 to 0.24)	(70·1 to 74·1)	(66.5 to 70.3)	(68·3 to 72·1)	(1·0 to 1·3)	(16·1 to 23·0)	(0 to 0)	(0 to 0)	(0.47 to 0.55)
Senegal 40·5	40·5	-5·2%	0.19	0.27	68.2	63.7	65.9	111.0	28·9	12	22	1·15
(33·9	(33·9 to 47·9)	(-6·0 to -4·3)	(0.16 to 0.23)	(0.23 to 0.31)	(65.8 to 70.2)	(61.4 to 65.8)	(63.5 to 67.9)	(96.4 to 130.0)	(22·8 to 36·4)	(10 to 14)	(19 to 25)	(0·97 to 1·26)
Sierra Leone 97.2 (77.3	to 121.0)	-3·9% (-5·0 to -2·8)	0.24 (0.19 to 0.29)	0.29 (0.24 to 0.34)	62·1 (58·2 to 65·5)	59·2 (54·9 to 62·8)	60.6 (56.5 to 64.1)	79·5 (65·3 to 97·7)	3.4 (2.7 to 4.2)	6 (5 to 7)	6 (5 to 7)	0.75 (0.67 to 0.83)
Togo 56.7	7 to 70.8)	-3.7%	0.21	0.33	66.0	60·2	63·1	62.8	13.8	3	8	0.72
(45.7		(-4.8 to -2.6)	(0.18 to 0.26)	(0.28 to 0.39)	(62.7 to 69.0)	(56·6 to 63·2)	(59·6 to 66·2)	(51.4 to 77.5)	(11.1 to 17.4)	(3 to 4)	(6 to 9)	(0.57 to 0.82)

Table 1: Under-5 mortality rate (2021), rate of change in under-5 mortality (2000-21), probability of death between ages 15 and 59 years (2021), life expectancy at birth (2021), total number of deaths among all ages (2021), and excess deaths due to the COVID-19 pandemic (2020, 2021) globally and for GBD regions, super-regions, countries, and territories

by location. Female mortality was generally lower than male mortality in all age groups, with substantial heterogeneity across countries and territories (figure 3). The highest variability in the ratio of male to female mortality rates across countries and territories was found in the 15–39 age groups; although little change in the mortality sex ratio has been observed between locations over time, the ratio generally increased between 1970 and 2021, indicating that the gap between male and female mortality has been increasing, generally driven by mortality rates among females decreasing at a faster rate than among males. Globally in 2021, the mortality rate for males aged 15–39 years was 65·9% (95% UI 56·8–74·7) higher than for females. The widening gap between

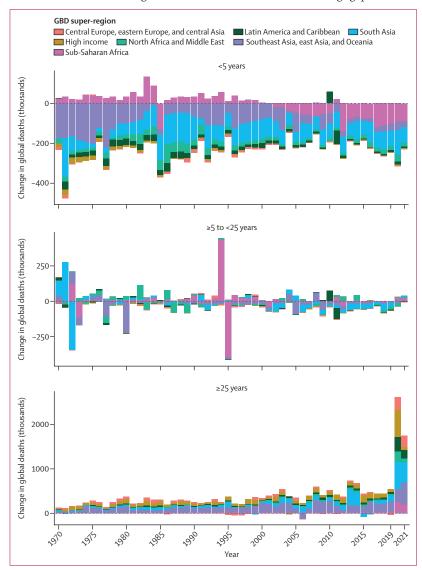


Figure 4: Annual change in all-cause deaths by GBD super-region across three age groups, 1970-2021

Annual change is defined as the difference between the number of deaths in the current year and the preceding year. The y-axes scales differ by age groups. The large change in the 5–24 years group between 1994 and 1995 was due to deaths during the Rwandan genocide. Different colours show GBD super-regions. GBD=Global Burden of Diseases, Injuries, and Risk Factors Study.

males and females was also observed for nearly all age groups aged 40 years and older. In the neonatal age groups, the ratio of male to female mortality rates declined slightly over time towards 1, while the variability among countries and territories remained similar. Individuals aged 40 years and older had a consistent pattern of an increasing ratio of male to female mortality rates over time, with increased variability observed among those aged 65 years and older across countries and territories from 1970 to 2000, followed by little change in variability from 2000 to 2021.

Despite declines in age-standardised all-cause mortality rates during the study period, the global number of deaths due to all causes combined increased from 44.0 million (95% UI 40.3-47.7) in 1950 to 50.3 million $(49 \cdot 3 - 51 \cdot 4)$ in 2000 and $57 \cdot 0$ million $(54 \cdot 9 - 59 \cdot 6)$ in 2019, largely reflecting a growing population and changing age structures. Global deaths further increased to 63 · 1 million (60.6-65.9) in 2020 and 67.9 million (65.0-70.8)in 2021, a notable spike attributable to the COVID-19 pandemic (table 1). Since 1970, the number of global deaths in the 25 years and older age group had increased steadily, until an unprecedented increase in 2020-21 (figure 4). This increase was observed across all GBD super-regions, with the exception of central Europe, eastern Europe, and central Asia, from 2000 to 2019. In contrast, deaths in children under 5 years declined over the entire study period, including during the COVID-19 pandemic period, with death counts of 20.0 million (17·2-23·0) in 1950, 9·21 million (8·73-9·73) in 2000, 5.21 million (4.50-6.01) in 2019, 4.89 million (4.19-5.71)in 2020, and 4.66 million (3.98-5.50) in 2021 (appendix 2 table S1). Initially, most of this decline could be attributed to declines in both U5MR and the under-5 population in southeast Asia, east Asia, and Oceania (especially China) until a tapering off around the year 2000. After this, the share of the decline attributed to sub-Saharan Africa began to increase, and this pattern continued during 2021 (figure 4). The largest number of under-5 deaths was observed in south Asia and sub-Saharan Africa during the pandemic, with south Asia accounting for 25.7% (24.1–27.2) of all deaths in children under 5 years 2020 and 25.3% (24.0-26.6) in 2021, and sub-Saharan Africa accounting for 55.5% (53.2-57.7) in 2020 and 56.3% (54.1-58.4) in 2021. The number of global deaths in the intermediate age (ages 5-24 years) demonstrates large yearly variability with no clear patterns, since deaths in this age group were heavily impacted by mortality shocks such as the Rwandan genocide in 1994 and natural disasters such as the earthquake in Haiti in 2010. Deaths in this age group increased slightly during 2020 and 2021 in most superregions, but these increases were minimal compared with previous years, and in comparison to the increase observed in ages 25 years and older.

Historically, global life expectancy at birth has increased steadily; between 1950 and 2021, global life expectancy at birth increased by 22.7 years (95% UI 20.8 to 24.8), from 49.0 years (46.7 to 51.3) to 71.7 years (70.9 to 72.5; table 1;appendix 2 table S4). Life expectancy improved for females from 51.6 years (49.4 to 53.8) in 1950 to 76.0 years (75.2 to 76.7) in 2019 and for males from 46.7 years (44.3 to 49.2) in 1950 to 70.8 years (69.9 to 71.7) in 2019(figure 5). At the super-region level, the largest increases in life expectancy occurred in south Asia and north Africa and the Middle East, while at the national level, some of the largest increases were in South Korea and Iran (appendix 2 table S4). During this time period, the smallest gains in life expectancy occurred in the central Europe. eastern Europe, and central Asia and high-income superregions and, at the national level, in Ukraine and Lesotho. Increasing life expectancy was generally consistent across all super-regions over the entire period, with the exception of mortality shocks in several locations, stagnation in sub-Saharan Africa during the HIV/AIDS epidemic, and slow progress in central Europe, eastern Europe, and central Asia before the mid-2000s. In 2020 and 2021, however, these trends reversed. Between 2019 and 2021, global life expectancy declined by 1.6 years (1.0 to 2.2); all super-regions had decreases in life expectancy during this period, ranging from a 3.7 year (3.4 to 4.1) decline in Latin America and the Caribbean to a 0.3 year (-1.9 to 1.3) decline in southeast Asia, east Asia, and Oceania (appendix 2 table S4). An increase in life expectancy during this period was only observed in 32 (15.7%) of 204 countries and territories.

Excess mortality due to the COVID-19 pandemic

We estimated 5.89 million (95% UI 5.48-6.44) excess deaths globally attributable to the COVID-19 pandemic in 2020 and 9.97 million (9.26-10.9) excess deaths in 2021 (table 1). The GBD super-regions with the highest all-age excess mortality rates in 2020 and 2021 combined were central Europe, eastern Europe, and central Asia (269 · 7 excess deaths per 100 000 population [250·0-289·6]) and Latin America and the Caribbean (199.0 [184.7-215.4]). The super-regions with the lowest all-age excess mortality rates during this time period were southeast Asia, east Asia, and Oceania (23.8 [8.9-44.1]) and high-income (90.2 [87.2-93.2]); appendix 2 figure S2). At the national level, in 2020 and 2021 combined, all-age excess mortality rates were highest in Bulgaria (520.8 [382.0-630.0]) and Lesotho ($447 \cdot 0 [379 \cdot 3 - 514 \cdot 0]$), the highest rate in 2020 was in Peru ($413 \cdot 4 [410 \cdot 3 - 416 \cdot 1]$), and the highest rate in 2021 was in Bulgaria (697.5 [532.4–830.5]; appendix 2 figure S2). For seven countries and territories (Taiwan [province of China], Mongolia, Japan, New Zealand, Iceland, Antigua and Barbuda, and Barbados), the all-age excess mortality rate for 2020 and 2021 combined was negative, indicating that fewer deaths occurred in these locations during the first 2 years of the pandemic than what would be expected based on past trends. In 2020, 20 countries

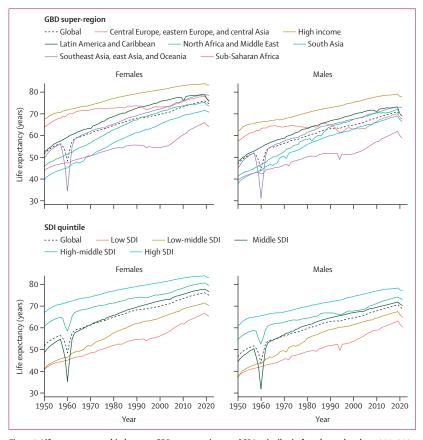


Figure 5: Life expectancy at birth across GBD super-regions and SDI quintiles in females and males, 1950–2021
The different colours represent GBD super-regions in the top row and SDI quintiles in the bottom row. The decline in life expectancy in 1960 for the southeast Asia, east Asia, and Oceania super-region was due to famine.

GBD=Global Burden of Diseases, Injuries, and Risk Factors Study. SDI=Socio-demographic Index.

and territories had negative excess mortality, while in 2021, only New Zealand and Barbados had negative excess mortality (table 1).

Additionally, we computed age-standardised excess mortality rates to compare the impact of the pandemic across countries and territories while controlling for different population age structures. Age-standardised rates and all-age rates differed substantially, with the highest age-standardised excess mortality rates observed in nations in sub-Saharan Africa, Latin America, and the Middle East (figure 6). The lowest age-standardised rates were found in some countries and territories in the Caribbean, east Asia, and Oceania, and some highincome nations. There was substantial variability within all super-regions. The countries or territories with the highest age-standardised rates during 2020 and 2021 combined were Eswatini (992.5 age-standardised excess deaths per 100 000 population [95% UI 745 · 5 to 1173 · 2]), Lesotho (874·3 [734·7 to 1009·4]), and Somalia $(715 \cdot 6 [549 \cdot 3 \text{ to } 912 \cdot 7])$; the nations with the lowest rates were Barbados (-61.5 [-111.6 to -13.1]), Mongolia (-32.9 [-209.6 to 131.0]), and Antigua and Barbuda (-13.7 [-55.5 to 27.9]).

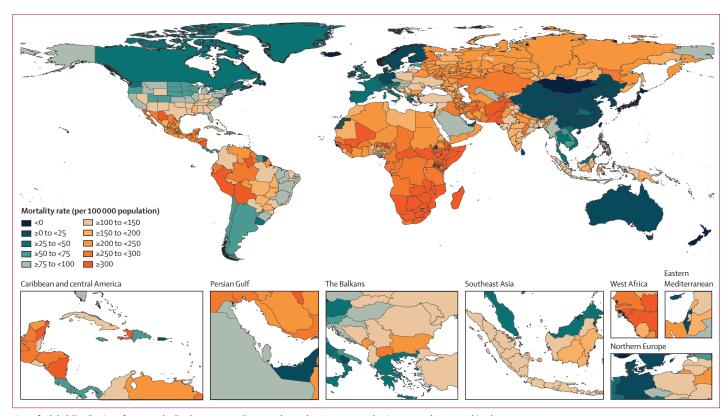


Figure 6: Global distribution of age-standardised excess mortality rates due to the COVID-19 pandemic, 2020 and 2021 combined

Mortality rates are expressed as the number of deaths per 100 000 population. Excess mortality rates are negative in countries and territories where fewer deaths occurred than predicted.

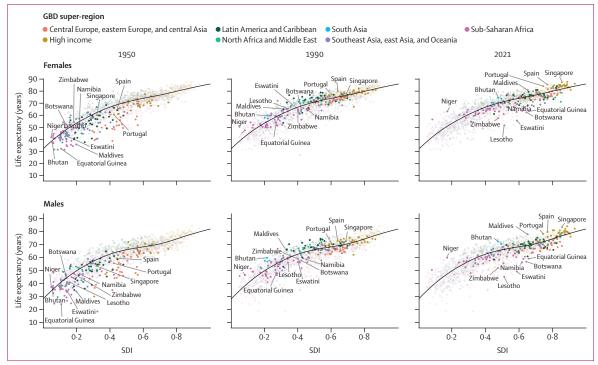


Figure 7: National life expectancy at birth versus SDI, and expected life expectancy based on SDI, in females and males in 1950, 1990, and 2021
Life expectancy at birth is shown for 204 countries and territories coloured by GBD super-region. Transparent points in all plots show every fifth year between 1950 and 2015, and 2021 in the first two columns. The black line represents the expected life expectancy at birth based on SDI, and the shaded area corresponds to 95% uncertainty intervals. GBD=Global Burden of Diseases, Injuries, and Risk Factors Study. SDI=Socio-demographic Index.

Estimated mortality versus expected mortality based on SDI

Between 1950 and 2021, longer life expectancies at birth were generally associated with higher SDI levels (figure 7; table 2). For females in 2021, the super-regions with the largest proportion of nations with a life expectancy higher than expected based on SDI were high-income (31 of 36 nations), south Asia (three of five nations), and Latin America and the Caribbean (16 of 33 nations), while central Europe, eastern Europe, and central Asia (23 of 29 nations), sub-Saharan Africa (35 of 46 nations), and north Africa and the Middle East (14 of 21 nations) had the highest proportion of nations with a lower life expectancy than expected based on SDI. For males in 2021, the GBD super-regions with the largest proportion of nations with a life expectancy greater than expected based on SDI were high-income (31 of 36 nations), south Asia (three of five nations), and north Africa and the Middle East (11 of 21 nations); the super-regions with the highest proportion of nations displaying a life expectancy lower than expected based on SDI were central Europe, eastern Europe, and central Asia (24 of 29 nations), sub-Saharan Africa (34 of 46 nations), and southeast Asia, east Asia, and Oceania (24 of 34 nations). Between 1950 and 2021, an increase in both life expectancy at birth and SDI was observed in all countries and territories. For females in 2021, the five countries or territories with the largest positive difference between estimated life expectancy and expected life expectancy based on SDI were Somalia (13.9 years), Niger (10.0 years), Spain (6.5 years), Portugal (6.0 years), and Singapore ($5 \cdot 6$ years); the five countries or territories with the largest negative difference were Lesotho (-19.6 years), Eswatini (-17.9 years), Botswana (-12.8 years), Equatorial Guinea (-12.5 years), and Zimbabwe (-12.5 years; table 3). For males in 2021, the five countries or territories with the largest positive difference between estimated life expectancy and expected life expectancy based on SDI were Somalia (12 \cdot 2 years), Niger (10 \cdot 6 years), the Maldives (8.4 years), Bhutan (7.1 years), and Singapore (6.7 years); the five countries or territories with the largest negative difference were Lesotho ($-21 \cdot 2$ years), Eswatini (-18.7 years), Zimbabwe (-13.4 years), South Africa (-12.8 years), and Botswana (-12.4 years; table 4).

In 2020 and 2021 combined, lower age-standardised excess mortality rates due to the COVID-19 pandemic were broadly associated with higher SDI levels, but the association was not consistently strong (figure 8). The GBD super-regions with the largest proportion of countries and territories with an excess mortality rate higher than expected based on SDI were central Europe, eastern Europe, and central Asia (26 of 29 nations), Latin America and the Caribbean (21 of 33 nations), and south Asia (three of five nations); the super-regions with the largest proportion of nations with an excess mortality rate lower than expected based on SDI were southeast

	1950			1990			2000			2010			2021		
	Estimated life expectancy	Estimated Expected Difference Estimated life life expectancy expectancy expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference
Global	49.0	63.4	-14·3	65.5	69.5	-4.0	67.2	70.7	-3.4	70.5	71.7	-1.2	71.7	72.9	-1.2
Low SDI	38.6	45.7	-7.0	53·1	54.0	-1.0	54.9	56.2	-1.2	60.2	60.2	0.1	9.79	64.9	-2·3
Low-middle SDI	38.8	50.1	-11-3	9.09	61.1	-0.5	63.0	64.1	-1:1	99.5	0.79	-0.5	67.4	6.69	-2.5
Middle SDI	46.2	55.5	-9.2	0.79	68.3	-1.3	9.69	6.69	-0.3	72·3	71-4	1.0	73·2	73·1	0.2
High-middle SDI	9.75	65.1	-7.5	70.4	71.0	9.0-	71.4	72·3	6.0-	74.7	73.9	8.0	76.2	75-7	0.5
High SDI	63.9	71.0	-7.1	75.6	75.7	-0.1	77.8	77.2	0.5	80.0	9.87	1.5	80.2	6.62	0.4
SDI=Socio-demographic Index.	phic Index.														
Table 2: Life expectancy (estimated, expected based on SDI, and their difference), globally and by SDI quintile, for 1950, 1990, 2000, 2010, and 2021	tancy (estimate	ed, expected k	ased on SDI,	and their diffe	rence), globa	lly and by SD	I quintile, for	1950, 1990, 2	2000, 2010, a	nd 2021					

Health Street																	2021
S16 656 1440 681 772 441 698 776 347 773 773 774 <th></th> <th>Estimated life expectancy</th> <th>Expected life expectancy</th> <th>Difference</th> <th>Estimated life expectancy</th> <th>Expected life expectancy</th> <th>Difference</th> <th></th> <th>Expected life expectancy</th> <th>Difference</th> <th>Estimated life expectancy</th> <th></th> <th>Difference</th> <th>Estimated life expectancy</th> <th></th> <th>Difference</th> <th>ا</th>		Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference		Expected life expectancy	Difference	Estimated life expectancy		Difference	Estimated life expectancy		Difference	ا
648 72. 644 73. 75. 74. 75. <td>lobal</td> <td>51.6</td> <td>65.6</td> <td>-14.0</td> <td>68.1</td> <td>72.2</td> <td>-4.1</td> <td>8-69</td> <td>73.6</td> <td>-3.7</td> <td>73-3</td> <td>74.8</td> <td>-1.6</td> <td>74.8</td> <td>76.2</td> <td>-1.4</td> <td>0.67</td>	lobal	51.6	65.6	-14.0	68.1	72.2	-4.1	8-69	73.6	-3.7	73-3	74.8	-1.6	74.8	76.2	-1.4	0.67
\$19. 68.6 -16. 71.6 71.6 71.9 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.6 71.7 71.6 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 71.6 71.7 <th< td=""><td>Central Europe, eastern Europe, and central Asia</td><td>63.8</td><td>72.2</td><td>-8.4</td><td>73.8</td><td>75.5</td><td>-1.7</td><td>73·2</td><td>9.92</td><td>3.3</td><td>75.7</td><td>78.0</td><td>-2:2</td><td>75.5</td><td>79.3</td><td></td><td>0.77</td></th<>	Central Europe, eastern Europe, and central Asia	63.8	72.2	-8.4	73.8	75.5	-1.7	73·2	9.92	3.3	75.7	78.0	-2:2	75.5	79.3		0.77
922 694 4173 779 771 779 <td>entral Asia</td> <td>51.9</td> <td>9.89</td> <td>-16.7</td> <td>71.6</td> <td>73·1</td> <td>-1.5</td> <td>71.0</td> <td>73.9</td> <td>-2.9</td> <td>73.6</td> <td>75.4</td> <td>-1.7</td> <td>74·3</td> <td>76.2</td> <td>-1.9</td> <td>0.68</td>	entral Asia	51.9	9.89	-16.7	71.6	73·1	-1.5	71.0	73.9	-2.9	73.6	75.4	-1.7	74·3	76.2	-1.9	0.68
39.2 67.6 7.84 7.06 7.13 7.06 7.13 7.06 7.13 7.06 7.13 7.10 7.13 7.10 7.13 7.13 7.14 <th< td=""><td>Armenia</td><td>52.2</td><td>69.4</td><td>-17-3</td><td>73.9</td><td>72.8</td><td>1.1</td><td>74.9</td><td>73.9</td><td>1.1</td><td>77.1</td><td>75.9</td><td>1.2</td><td>9.87</td><td>77-3</td><td>1.3</td><td>0.70</td></th<>	Armenia	52.2	69.4	-17-3	73.9	72.8	1.1	74.9	73.9	1.1	77.1	75.9	1.2	9.87	77-3	1.3	0.70
\$\frac{1}{2}\$ \$1	Azerbaijan	39.2	9.29	-28.4	9.02	74·3	-3.7	9.02	73.9	-3·3	73.0	75.8	-2.7	73.4	77.0	-3.6	0.69
613 692 793 776 744 4.54 796 756 452 756 757 751 757 751 759 750 751 750 751 751 750 751 752 <td>Georgia</td> <td>57.0</td> <td>73.0</td> <td>-16.0</td> <td>73.7</td> <td>75.9</td> <td>-2.2</td> <td>74.0</td> <td>75.2</td> <td>-1.3</td> <td>77.9</td> <td>76.4</td> <td>1.4</td> <td>75.8</td> <td>78.1</td> <td>-2.3</td> <td>0.73</td>	Georgia	57.0	73.0	-16.0	73.7	75.9	-2.2	74.0	75.2	-1.3	77.9	76.4	1.4	75.8	78.1	-2.3	0.73
519 660 -171 709 720 -111 714 728 -15 738 731 0.7 761 740 399 616 -217 656 701 -14 670 672 771 773 776 776 776 770 <td>Kazakhstan</td> <td>61.3</td> <td>69.2</td> <td>6.7-</td> <td>72.6</td> <td>74·1</td> <td>-1.5</td> <td>70.5</td> <td>9.52</td> <td>-5.2</td> <td>73.0</td> <td>76.7</td> <td>-3.7</td> <td>73.9</td> <td>7.77</td> <td>-3.8</td> <td>0.73</td>	Kazakhstan	61.3	69.2	6.7-	72.6	74·1	-1.5	70.5	9.52	-5.2	73.0	76.7	-3.7	73.9	7.77	-3.8	0.73
399 616 -217 655 701 -45 670 752 -57 711 737 -26 746 750 488 683 -219 695 730 734 -47 700 734 731 731 731 731 731 731 731 732 732 734 <td>Kyrgyzstan</td> <td>51.9</td> <td>0.69</td> <td>-17.1</td> <td>6.02</td> <td>72.0</td> <td>-1:1</td> <td>71.4</td> <td>72.8</td> <td>-1.5</td> <td>73.8</td> <td>73·1</td> <td>0.7</td> <td>76.1</td> <td>74.7</td> <td>1.4</td> <td>09.0</td>	Kyrgyzstan	51.9	0.69	-17.1	6.02	72.0	-1:1	71.4	72.8	-1.5	73.8	73·1	0.7	76.1	74.7	1.4	09.0
406 620 -213 686 701 -14 690 696 -07 717 710 07 721 724 283 -196 693 -194 713 -14 714 690 696 -07 717 717 717 717 717 717 714 <td>Mongolia</td> <td>39.9</td> <td>9.19</td> <td>-21.7</td> <td>65.5</td> <td>70.1</td> <td>-4.5</td> <td>0.29</td> <td>72.2</td> <td>-5.2</td> <td>71.1</td> <td>73.7</td> <td>-2.6</td> <td>74.6</td> <td>75.0</td> <td>4.0-</td> <td>0.62</td>	Mongolia	39.9	9.19	-21.7	65.5	70.1	-4.5	0.29	72.2	-5.2	71.1	73.7	-2.6	74.6	75.0	4.0-	0.62
488 683 -196 693 734 492 700 734 734 734 735 735 735 735 735 735 735 734 <td>Tajikistan</td> <td>40.6</td> <td>62.0</td> <td>-21.3</td> <td>9.89</td> <td>70.1</td> <td>-1.4</td> <td>0.69</td> <td>9.69</td> <td>-0.7</td> <td>71.7</td> <td>71.0</td> <td>2.0</td> <td>72.1</td> <td>72.4</td> <td>-0.3</td> <td>0.54</td>	Tajikistan	40.6	62.0	-21.3	9.89	70.1	-1.4	0.69	9.69	-0.7	71.7	71.0	2.0	72.1	72.4	-0.3	0.54
92.1 65.3 -13.2 73.7 71.5 <t< td=""><td>Turkmenistan</td><td>48.8</td><td>68.3</td><td>-19.6</td><td>69.3</td><td>73·4</td><td>-4.2</td><td>70.0</td><td>73·4</td><td>-3.4</td><td>73·1</td><td>75·1</td><td>-2.0</td><td>71.5</td><td>26.7</td><td>-5.2</td><td>0.68</td></t<>	Turkmenistan	48.8	68.3	-19.6	69.3	73·4	-4.2	70.0	73·4	-3.4	73·1	75·1	-2.0	71.5	26.7	-5.2	0.68
589 706 -118 746 754 -08 764 771 -07 790 788 0.2 783 801 902 644 -143 757 733 24 784 740 789 756 789	Uzbekistan	52.1	65.3	-13.2	72.7	71.5	1.2	71.5	73·1	-1.7	73-4	74.8	-1.4	75·1	75.6	-0.5	99.0
592 644 -143 757 733 24 784 740 444 884 759 45 787 773 4 56 606 -132 752 723 724 745 745 746 745 746 747 746 747 746 747 746 747 746 747 748 747 748 747 748 747 748 748 747 748	entral Europe	58.9	9.02	-11.8	74.6	75·4	8.0-	76.4	77-1	-0.7	79.0	78.8	0.2	78·3	80.1	-1.8	0.80
475 606 -132 762 775 786 745 786 786 786 786 789 786 789 <td>Albania</td> <td>50.2</td> <td>64.4</td> <td>-14·3</td> <td>75.7</td> <td>73·3</td> <td>2.4</td> <td>78.4</td> <td>74.0</td> <td>4.4</td> <td>80.4</td> <td>75.9</td> <td>4.5</td> <td>78.7</td> <td>77-3</td> <td>1.4</td> <td>0.71</td>	Albania	50.2	64.4	-14·3	75.7	73·3	2.4	78.4	74.0	4.4	80.4	75.9	4.5	78.7	77-3	1.4	0.71
589 699 -110 735 754 -19 737 766 -29 759 <td>Bosnia and Herzegovina</td> <td>47.5</td> <td>9.09</td> <td>-13.2</td> <td>76.2</td> <td>72.7</td> <td>3.5</td> <td>78.0</td> <td>74.5</td> <td>3.5</td> <td>8.62</td> <td>9.92</td> <td>3.3</td> <td>78.3</td> <td>77.8</td> <td>0.4</td> <td>0.72</td>	Bosnia and Herzegovina	47.5	9.09	-13.2	76.2	72.7	3.5	78.0	74.5	3.5	8.62	9.92	3.3	78.3	77.8	0.4	0.72
624 702 -174 757 763 -06 781 773 0.8 800 789 11 803 <td>Bulgaria</td> <td>58.9</td> <td>6.69</td> <td>-11.0</td> <td>73.5</td> <td>75.4</td> <td>-1.9</td> <td>73-7</td> <td>9-9/</td> <td>-2.9</td> <td>75.9</td> <td>78.0</td> <td>-2.1</td> <td>73-7</td> <td>79.3</td> <td>-5.5</td> <td>0.77</td>	Bulgaria	58.9	6.69	-11.0	73.5	75.4	-1.9	73-7	9-9/	-2.9	75.9	78.0	-2.1	73-7	79.3	-5.5	0.77
681 732 -56 766 -09 784 793 -08 809 806 809 809 809 809 809 809 809 812 77 784 793 764 775 125 785 789 789 789 819 789 819 789 819 810	Croatia	52.9	70.2	-17.4	75.7	76-3	9.0-	78.1	77-3	8.0	80.0	78.9	1:1	80.3	80.3	0.0	0.80
624 715 915 715 <td>Czechia</td> <td>68.1</td> <td>73.7</td> <td>-5.6</td> <td>75.6</td> <td>9-9/</td> <td>6.0-</td> <td>78.4</td> <td>79.3</td> <td>8.0-</td> <td>80.9</td> <td>9.08</td> <td>0.3</td> <td>80.9</td> <td>81.2</td> <td>4.0-</td> <td>0.83</td>	Czechia	68.1	73.7	-5.6	75.6	9-9/	6.0-	78.4	79.3	8.0-	80.9	9.08	0.3	80.9	81.2	4.0-	0.83
6 644 696 -32 783 764 164 764 764 764 764 764 764 764 764 774 785 -18 754 775 769 779 769 779 769 779 779 779 789	Hungary	62.4	71.5	-9.2	73.8	75.8	-1.9	76.1	77.5	-1.5	78.5	79.1	9.0-	78.0	79.9	-2.0	0.79
493 676 -184 726 475 -184 755 -18 754 773 -19 742 786 596 712 -11 75 75 78 78 79 789	Montenegro	66.4	9.69	-3.2	78.3	76.4	1.8	26.7	76.4	0.3	7.77	78.5	-0.7	0.92	80.1	-4.1	0.80
596 712 415 756 751 65 780 773 68 805 791 15 756 751 752 752 752 752 752 752 752 752 752 753 752 753 752 753 753 754 752 753 753 754 752 753 753 754 754 753 754 754 754 754 753 754	North Macedonia	49.3	9.29	-18.4	72.6	74·5	-2.0	73.7	75.5	-1.8	75.4	77-3	-1.9	74·2	9.87	4.4	0.75
699 671 663 672 715 715 715 715 718 718 719 719 719 719 719 719 719 719 719 719 715 719 <td>Poland</td> <td>9.65</td> <td>71.2</td> <td>-11.5</td> <td>75.6</td> <td>75·1</td> <td>0.5</td> <td>78.0</td> <td>77.3</td> <td>8.0</td> <td>80.5</td> <td>79.1</td> <td>1.5</td> <td>79.7</td> <td>9.08</td> <td>6.0-</td> <td>0.81</td>	Poland	9.65	71.2	-11.5	75.6	75·1	0.5	78.0	77.3	8.0	80.5	79.1	1.5	79.7	9.08	6.0-	0.81
499 704 205 730 <td>Romania</td> <td>6.09</td> <td>67.1</td> <td>-6.3</td> <td>73.0</td> <td>75.0</td> <td>-1.9</td> <td>74.7</td> <td>76.2</td> <td>-1.5</td> <td>77.5</td> <td>77.8</td> <td>-0.3</td> <td>8-9/</td> <td>79.3</td> <td>-2.5</td> <td>0.77</td>	Romania	6.09	67.1	-6.3	73.0	75.0	-1.9	74.7	76.2	-1.5	77.5	77.8	-0.3	8-9/	79.3	-2.5	0.77
644 722 738 756 759 0.3 779 781 0.0 796 796 796 796 797 797 797 797 797 798 799 <td>Serbia</td> <td>49.9</td> <td>70.4</td> <td>-20.5</td> <td>73.0</td> <td>75.2</td> <td>-2.3</td> <td>73.8</td> <td>0.92</td> <td>-2.2</td> <td>76.7</td> <td>78·3</td> <td>-1.6</td> <td>2.92</td> <td>80.1</td> <td>-3.4</td> <td>0.79</td>	Serbia	49.9	70.4	-20.5	73.0	75.2	-2.3	73.8	0.92	-2.2	76.7	78·3	-1.6	2.92	80.1	-3.4	0.79
6 95 73 -138 780 780 996 996 890 20 840 817 e 695 731 -36 746 762 1.5 771 -42 751 786 -37 749 804 706 706 706 -0.1 758 750 0.8 747 762 -15 766 789 -15 769 789 803 803 804 804 804 700 732 734 762 783 721 766 780 803 621 760 783 781 781 781 803 803 804	Slovakia	64.4	72.2	-7.8	75.6	75.9	-0.3	77.9	78·1	-0.2	9.62	8.67	-0.1	78.3	9.08	-2·3	0.81
6 6 7 7 4 7 7 4 7 4 6 6 6 7 4 7 7 4 7 7 4 7 7 4 7 7 4 7	Slovenia	59.5	73·3	-13.8	78.0	78.0	0.1	80.0	9.62	0.4	83.0	80.9	2.0	84.0	81.7	2.3	0.84
706 706 706 706 706 707 707 707 708 707 709 709 709 709 709 709 709 709 700 <td>astern Europe</td> <td>69.5</td> <td>73·1</td> <td>-3.6</td> <td>74.6</td> <td>76-2</td> <td>-1.5</td> <td>72.9</td> <td>77.1</td> <td>-4.2</td> <td>75.1</td> <td>78.8</td> <td>-3.7</td> <td>74.9</td> <td>80.4</td> <td>-5.6</td> <td>0.80</td>	astern Europe	69.5	73·1	-3.6	74.6	76-2	-1.5	72.9	77.1	-4.2	75.1	78.8	-3.7	74.9	80.4	-5.6	0.80
700 733 334 750 764 -14 762 783 -21 80.8 80.3 6.5 81.7 81.7 81.7 81.8 81.7	Belarus	9.02	9.02	-0.1	75.8	75.0	8.0	74.7	76.2	-1.5	9.92	78.1	-1.5	0.92	8.62	-3.8	0.78
72.0 73.6 -1.6 74.7 76.6 -1.9 76.0 78.0 -20 78.1 80.3 -2.1 78.1 81.2 -2.2 78.2 -2.2 78.2 78.2 28.2 -2.4 78.9 81.2 82.2 -2.2 78.7	Estonia	70.0	73·3	-3·3	75.0	76-4	-1.4	76.2	78.3	-2.1	8.08	80.3	0.5	81.2	81.7	-0.5	0.84
68.7 71.5 -2.8 76.1 76.3 -0.2 77.5 -0.2 78.7 80.1 -1.4 78.9 82.2 56.5 69.9 -13.4 71.5 74.5 -3.0 75.6 75.0 -25 74.7 76.3 -1.6 76.4 78.0 -2.6 77.4 78.9 78.9 78.0 -2.8 77.4 -4.9 78.8 79.4 78.9 78	Latvia	72.0	73.6	-1.6	74.7	9.92	-1.9	0.9/	78.0	-2.0	78·1	80.3	-2.1	78·1	81.2	-3.1	0.83
565 699 -134 715 745 -30 750 -25 747 763 -16 764 780 780 -25 747 769 763 746 749 748 761 -43 764 780 806 -80 70-8 73-3 73-4 764 763 724 749 764 777 -23 757 789 789 67-7 74-0 74-0 76-0 78-0 78-0 81-2 79-3 73-4 87-3 87-3 87-3 87-3 71-9 73-0 74-0 73-0 73-0 73-0 73-2 73-1 83-2 83-3 83-0 71-0 73-	Lithuania	2.89	71.5	-2.8	76·1	26.3	-0.2	77.5	77.77	-0.2	78.7	80.1	-1.4	78.9	82.2	-3·3	98.0
695 733 938 745 763 -1.8 725 774 49 748 79.1 43 79.1 643 80.6 - 708 730 22 748 756 -0.8 755 763 2.8 754 777 2.3 757 78.9 71-9 736 -1.7 797 78.0 7.8 7.1 82.1 79.4 79.5 84.0 80.4 35 85.3 81.7 72-0 733 -1.3 80.0 778 78.1 81.3 81.3 81.3 81.4 84.2 80.4 38 85.6 81.7 81.7 81.7 81.7 81.7 81.7 81.7 81.7	Moldova	26.5	6.69	-13.4	71.5	74.5	-3.0	72.5	75.0	-2.5	74·7	26.3	-1.6	76-4	78.0	-1.6	0.73
70.8 73.0 -2.2 74.8 75.6 -0.8 73.5 76.3 -2.8 75.4 77.7 -2.3 75.7 78.9 - 67.7 74.0 67.3 74.0 67.3 76.0 13 81.2 75.4 77.7 -2.3 75.7 78.9 - 71.9 73.6 -1.7 79.7 78.0 1.7 82.1 79.4 2.6 84.0 80.4 3.5 85.3 81.7 72.0 73.3 -1.3 80.0 77.8 2.1 82.3 79.3 3.1 84.2 80.4 3.8 85.6 81.7	Russia	69.5	73·3	-3.8	74·5	76·3	-1.8	72.5	77.4	-4.9	74.8	79·1	-4.3	74·3	9.08	-6.3	0.81
67.7 74.0 -6.3 79.4 78.6 0.8 81.2 79.9 1.3 83.1 80.8 2.4 83.3 82.0 71.9 73.6 -1.7 79.7 78.0 1.7 82.1 79.4 2.6 84.0 80.4 3.5 85.3 81.7 72.0 73.3 -1.3 80.0 77.8 2.1 82.3 79.3 3.1 84.2 80.4 3.8 85.6 81.7	Ukraine	8.02	73.0	-2.2	74.8	75.6	8·0-	73-5	26-3	-2.8	75-4	77.7	-2.3	75.7	78.9	-3:3	0.76
71-9 73-6 -1-7 79-7 78-0 1-7 82-1 79-4 2-6 84-0 80-4 3-5 85-3 81-7 72-0 73-3 -1-3 80-0 77-8 2-1 82-3 79-3 3-1 84-2 80-4 3-8 85-6 81-7	High income	2.79	74.0	-6.3	79.4	78.6	8.0	81.2	6.62	1.3	83.1	80.8	2.4	83.3	82.0	1.3	0.85
72-0 73-3 -1-3 80-0 77-8 2-1 82-3 79-3 3-1 84-2 80-4 3-8 85-6 81-7	Australasia	71.9	73.6	-1.7	7.67	78.0	1.7	82.1	79.4	5.6	84.0	80.4	3.5	85.3	81.7	3.6	0.85
	Australia	72.0	73·3	-1.3	80.0	77.8	2.1	82.3	79.3	3.1	84.2	80.4	3.8	9.58	81.7	3.9	0.84

																1
	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected I life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	1
(Continued from previous page)	previous page)															
New Zealand	71.5	74.5	-3.0	78.4	9.82	-0.2	80.8	8.62	1:1	82.8	9.08	2.2	84.1	81.9	2.2	0.85
High-income Asia Pacific	9.65	71.5	-11.9	6.08	79.3	1.7	84.1	80.8	3:3	86.2	81.7	4.5	87.8	82.7	5.1	0.88
Brunei	49.5	9-59	-16.1	73·1	76.2	-3.0	75.2	7-77	-2.5	77.1	79.4	-2.3	78-3	9.08	-2.3	0.81
Japan	63.5	72.8	-9.3	82-3	6.62	2.4	85.1	81.1	4.0	2.98	81.7	2.0	88.1	82.5	9.9	0.87
Singapore	60.5	9.79	-2.1	78.2	76.7	1.5	81.7	79.3	2.4	85.0	81.2	3.7	87.7	82.0	9.9	98.0
South Korea	46.5	61.6	-15·1	75.9	26.8	6.0-	79.7	8.62	0.0-	84.0	81.7	2.2	0.98	83.0	3.1	0.89
High-income North America	71.1	74.8	-3.7	79.1	79·1	0.0	79.7	80.1	-0.4	81.4	81.2	0.1	80.4	82.4	-1.9	0.86
Canada	70.9	75.0	-4.1	9.08	9.62	1.0	81.8	8.08	1.1	83.6	81.7	1.8	84.1	82.7	1.4	0.87
Greenland	52.2	73.6	-21.3	67.5	78.0	-10.5	71.1	78-3	-7.2	74.9	80.4	-5.6	6.92	81.4	-4.5	0.83
USA	71.2	74.8	-3.7	79.0	79.1	-0.1	79.5	80.1	9.0-	81.1	81.1	0.0	80.0	82.4	-2.3	0.86
Southern Latin America	64.0	70.2	-6.3	26.3	74.0	2.3	78.4	75.5	3.0	9.62	9.9/	3.1	6.62	78.5	1.4	0.74
Argentina	6.99	9.02	-3.7	0.97	74.0	2.0	6.77	75.5	2.4	0.62	76.3	2.7	79.1	78.1	6.0	0.72
Chile	55.2	0.69	-13.8	26.7	74.0	2.7	79.8	75.9	3.9	81.3	77.3	4.1	81.9	79.3	5.6	0.77
Uruguay	70.2	70.4	-0.2	6.9/	73.9	3.0	9.8/	75.1	3.5	80.0	76.2	3.9	79.4	7.77	1.7	0.72
Western Europe	69.2	74.0	-4.8	79.5	78.5	1:1	81.5	8-62	1.8	9.58	80.8	2.8	84.2	81.9	2.3	0.85
Andorra	6.77	74.5	3.3	82.3	78.9	3.4	83.5	9.62	4.0	84.8	81.6	3.2	85.7	82.5	3.2	0.87
Austria	9.89	74.4	-5.8	0.62	9.87	0.3	81.3	6.62	1.4	83.2	81.1	2.2	84.1	82.0	2.0	0.85
Belgium	6.89	73-7	-4.9	79-3	78.3	1.0	81.0	9.62	1.4	82.8	80.8	2.0	84.2	82.0	2.2	0.85
Cyprus	61.7	69.4	-7.7	76·3	75.8	0.5	78.1	78.5	-0.4	81.3	9.08	2.0	83.2	81.4	1.8	0.84
Denmark	71.9	75.4	-3.4	6.77	80.3	-2.3	79.3	9.18	-2.2	81.6	82.4	8.0-	83.5	83.3	0.2	0.90
Finland	68.1	73·4	-5.4	79.4	78.8	9.0	81.5	6.62	1.6	83.7	81.1	5.6	84.9	82.2	2.7	98.0
France	8.69	72.7	-2.9	81.1	78.0	3.1	82.7	79-4	3.3	84.6	80.4	4:1	85.5	81.6	3.9	0.84
Germany	70.2	75.5	-5.3	9.87	80.8	-2.2	81.2	81.9	7.0-	82.8	82.8	0.0	83.4	9.58	-0.2	0.90
Greece	70.9	71.7	6.0-	79.4	76.4	3.0	80.8	78.1	2.7	82.7	79.4	3.3	82.8	79.9	2.9	0.79
Iceland	74.0	73-4	9.0	80.2	79.1	1.1	82.1	80.4	1.7	83.4	81.6	1.9	84.9	82.7	2.2	0.88
Ireland	67.2	73.9	9.9-	9.77	77.7	-0.1	79.3	9.62	-0.2	82.9	81.2	1.6	84.5	82.7	1.8	0.87
Israel	72.7	71.7	1.0	78.8	77-4	1.4	9.08	9.8/	2.0	83.4	79.4	4.0	85.1	9.08	4.5	0.81
Italy	6.89	72.2	-3.3	80.3	77-3	3.0	82.4	9.87	3.8	84.4	9.62	4.8	84.9	80.4	4.5	0.81
Luxembourg	68.2	75.6	-7.4	78.7	9.62	8.0-	81.4	80.9	0.4	83.4	82.0	1.4	84.9	83.0	1.9	0.88
Malta	67.4	6.79	-0.5	78.7	75.9	5.9	81.1	77.4	3.7	83.3	78.8	4.5	84·1	80.3	3.8	0.80
Monaco	68.1	8-9/	-8.7	81.0	81.7	-0.7	81.4	82.5	-1:1	81.7	83.1	-1.4	81.4	83.7	-2.3	0.91
Netherlands	72.9	75.8	-2.9	80.1	80.1	0.0	80.7	81.2	9.0-	82.8	82.2	9.0	83.2	83.1	0.1	0.89
Norway	73·7	75.9	-2.2	80.1	80.1	0.0	81.6	81.7	-0.2	83.4	82.8	9.0	84.9	83.9	1.0	0.92
Portugal	6.09	68.1	-7.2	9.77	74.4	3.2	80.1	0.9/	4.1	83.1	77-3	6.9	84.4	78.5	0.9	0.74
San Marino	76.2	75.5	0.7	82.4	80.8	1.6	84.5	82.2	2.3	9.78	82.8	4.8	88.1	83.0	5.1	0.89
Spain	64.5	0.69	-4.5	80.4	75.4	5.1	82.9	77.0	6.3	85.0	78·3	2.9	85.7	79.3	6.5	0.77
Charles	7 7	ı	0	0 0 0	20.0	,	0,0		0	0		,	0			0

		1950			1990			2000			2010			2021			SDI, 2021
Miles Mile		Estimated life expectancy	Expected life expectancy	Difference	mated	>	Difference	_	>	Difference	Estimated life expectancy		Difference	Estimated life expectancy	Expected life expectancy	Difference	1
	(Continued from	previous page)															
13. 13. 14. 13.	Switzerland	71.1	78.6	-7.5	81.2	82.4	-1.2	83.1	83.0	0.2	85.0	83.7	1.3	86.4	84.4	1.9	0.93
1, 18, 18, 17, 19, 2.9, 7.6, 7.6, 7.6, 7.6, 7.6, 7.6, 7.6, 7.6	ΛĶ	71-3	74.7	-3.4	78.4	78.5	0.0-	80.1	6.62	0.1	82.5	80.9	1.6	82.4	82.2	0.2	98.0
Mathematical National Property Mathematical National Property Mathematical National Property Mathematical National Property Mathematical National	England	71.8	74.7	-2.9	9.87	78.5	0.2	80.3	6-6/	0.3	82.8	80.9	1.8	82.6	82.2	0.4	98.0
Mathematical National Property Mathematical National Property Mathematical National Nat	Northern Ireland	2.89	73.7	-5.1	77.2	77.8	9.0-	9.62	79.4	0.2	81.8	80.4	1.4	82.3	81.6	0.7	0.84
A11 739 736 739 741 739 741 741 742 741 742 741 742 741 742 743 743 743 743 743 743 743 744 743 744 <td>Scotland</td> <td>0.89</td> <td>74.4</td> <td>-6.4</td> <td>26.7</td> <td>78.5</td> <td>-1.7</td> <td>9.87</td> <td>79.9</td> <td>-1.4</td> <td>8.08</td> <td>6.08</td> <td>-0.1</td> <td>80.8</td> <td>82.0</td> <td>-1.2</td> <td>0.85</td>	Scotland	0.89	74.4	-6.4	26.7	78.5	-1.7	9.87	79.9	-1.4	8.08	6.08	-0.1	80.8	82.0	-1.2	0.85
cycle 524 586 -73 724 124 58 729 724 724 144 58 729 721 721 721 721 721 721 723 743 789 740 741 723 743 743 743 743 743 743 743 743 743 744 744 740 740 740 740 744 744 740 743 743 743 743 744 <td>Wales</td> <td>71.1</td> <td>73.9</td> <td>-2.8</td> <td>78.5</td> <td>77.4</td> <td>1:1</td> <td>79.7</td> <td>78.9</td> <td>8.0</td> <td>81.9</td> <td>6.62</td> <td>2.0</td> <td>81.1</td> <td>81.4</td> <td>-0.3</td> <td>0.83</td>	Wales	71.1	73.9	-2.8	78.5	77.4	1:1	79.7	78.9	8.0	81.9	6.62	2.0	81.1	81.4	-0.3	0.83
atin 425 606 -181 706 714 -08 748 727 21 773 741 741 32 743 745 747 741 742 742 742 742 742 742 742 742 742 742	Latin America and Caribbean	52.4	9.65	-7-3	7.27	71.4	1.4	75.8	72.8	3.0	76.1	74·3	1.8	75.9	75.6	0.3	0.65
Size	Andean Latin America	42.5	9.09	-18·1	9.02	71.4	8.0-	74.8	72.7	2.1	77-3	74·1	3.2	74·3	75.9	-1.6	0.65
Size Goze Control	Bolivia	38.2	57.5	-19.3	62.4	68.3	-5.9	67.4	70.8	-3.4	71.0	72.7	-1.6	8.89	74.5	-5.8	09.0
H12	Ecuador	51.2	65.9	-11.7	74·2	72.0	2.1	9.92	72.8	3.7	77.5	74·1	3.4	77-1	76.2	1.0	99.0
370 629 594 698 720 22 721 731 10 564 745 148 725 and 603 629 559 636 720 721 731 10 760 774 760 774 760 775 760 774 760 775 767 766 767 766 767	Peru	41.2	9.09	-19.4	72.0	71.7	0.3	8.9/	73.0	3.8	79.7	74·5	5.1	74.9	0.92	-1.1	99.0
nd 603 629 629 226 774 748 25 768 760 07 78.0 774 06 771 sed 601 704 103 745 770 -25 744 783 -39 763 794 31 736 sed 600 -3-4 756 683 73 73 73 744 783 29 763 794 31 736 sed 600 -3-4 756 683 73 73 73 744 789 770 772 772 775 -0-3 776 sed 600 -3-4 756 683 73 73 73 744 789 760 772 772 775 -0-3 776 sed 601 704 704 705 80 704 808 781 26 849 799 50 83 n 563 502 61 774 770 0.4 808 781 26 849 799 50 83 n 563 502 61 774 770 733 14 794 756 0.2 777 771 1.4 14 sed 700 58	Caribbean	57.0	65.9	-5.9	8.69	72.0	-2.2	72.1	73·1	-1.0	56.4	74.5	-18.1	72.5	75.5	-3.0	0.64
section of the control of th	Antigua and Barbuda	60.3	62.9	-2.6	77-4	74.8	2.5	8-9/	76.0	2.0	78.0	77.4	9.0	77·1	9.82	-1.6	0.75
5 6.5 67.9 -114 76.1 75.9 0.2 76.7 76.6 0.2 77.7 77.6 0.9 77.6 97.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.9 77.4 77.9 7	The Bahamas	60.1	70.4	-10.3	74.5	77.0	-2.5	74.4	78-3	-3.9	26.3	79.4	-3·1	73.6	80.4	8.9-	0.81
Secondary Seco	Barbados	26.5	6.29	-11-4	76.1	75.9	0.2	26.7	9.9/	0.2	77.2	77.5	-0.3	9.77	78.5	8.0-	0.75
6.65 6.81 -1.6 774 770 0.4 808 781 2.6 84.9 79.9 5.0 83.3 4.97 6.58 3.0 76.7 73.3 3.4 79.2 73.4 5.7 80.4 74.8 5.6 77.3 4.97 6.58 -1.61 74.7 73.3 1.4 75.4 75.6 -0.2 75.7 77.1 -1.4 73.3 4.97 6.58 -1.61 74.7 73.3 1.4 75.4 75.6 -0.2 75.7 77.1 -1.4 73.3 5.89 56.1 2.8 72.6 69.0 3.6 76.5 72.7 3.8 75.9 74.8 77.3 5.89 60.3 -7.4 66.5 69.9 -3.3 67.8 72.4 -4.5 69.6 73.9 -4.2 68.6 5.89 65.1 -1.17 54.1 62.0 -7.9 56.6 65.3 -8.6 67.6 67.6 -40.1 61.5 5.80 65.0 -6.4 76.5 72.5 72.4 -4.5 69.6 73.9 -4.2 68.6 5.80 65.0 -6.4 76.5 72.5 72.4 -2.8 72.5 72.5 72.5 72.5 5.80 60.3 -7.4 60.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 60.3 -7.4 60.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 60.3 -7.4 60.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 60.3 -7.4 72.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 60.3 -7.4 72.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 60.3 -7.4 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 72.5 5.80 72.5 72	Belize	9.95	0.09	-3.4	9.57	68.3	7.3	73·3	71.4	1.9	76.2	73·3	2.9	76.1	74.7	1.4	0.61
88) 658 30 767 733 34 792 734 57 804 748 56 773 an 563 658 -161 747 733 14 754 756 -02 757 771 -14 733 an 563 502 61 734 690 44 769 712 57 771 -14 733 589 561 28 678 724 456 696 774 769 774 773 773 773 773 773 773 773 773 773 773 773 773 773 773 773 774 773 774 77	Bermuda	99.2	68.1	-1.6	77.4	77.0	0.4	80.8	78.1	5.6	84.9	6.62	5.0	83.3	6.08	2.4	0.82
a 497 65-8 1-6-1 747 73-3 14 75-4 75-6 -0.2 75-7 77-1 -1-4 73-3	Cuba	6.89	65.8	3.0	76.7	73·3	3.4	79.2	73-4	5.7	80.4	74.8	9.9	77-3	26.3	1.0	29.0
and 563 564 63 44 769 712 579 759 736 736 737 58.9 56.1 28 726 727 38 759 748 1.1 729 52.9 60.3 -74 66.5 69.9 -33 678 724 -45 696 739 -42 686 62.9 63.9 -74 66.5 69.9 -79 566 653 -86 776 779 <td>Dominica</td> <td>49.7</td> <td>65.8</td> <td>-16.1</td> <td>74.7</td> <td>73·3</td> <td>1.4</td> <td>75.4</td> <td>75.6</td> <td>-0.2</td> <td>75.7</td> <td>77.1</td> <td>-1.4</td> <td>73-3</td> <td>78.5</td> <td>-5.1</td> <td>0.75</td>	Dominica	49.7	65.8	-16.1	74.7	73·3	1.4	75.4	75.6	-0.2	75.7	77.1	-1.4	73-3	78.5	-5.1	0.75
58.9 56.1 2.8 72.6 69.0 3.6 76.5 72.7 3.8 75.9 74.8 1.1 72.9 52.9 60.3 -74 66.5 69.9 -3.3 67.8 72.4 -45 69.6 73.9 -42 68.6 69.9 -3.3 67.8 72.4 -45 69.6 73.9 -46 67.9 -40.9 69.6 67.9 -40.9 68.6 65.3 -8.6 67.6 77.6 67.6 -40.1 61.5 68.6 68.9 77.4 -45 76.9 77.4 -45 69.6 67.9 -40.1 61.5 68.6 65.3 -8.6 67.6 67.6 67.9 77.4 78.9 78.9 78.4 78.9 78.4 78.9 78.4 78.9 78.9 78.4 78.9 78.9 78.4 78.9 78.9 78.9 78.9 78.9 78.9 78.9 78.9 78.9 78.9 78.9 78.9 78.9 78.9	Dominican Republic	56.3	50.2	6.1	73·4	0.69	4.4	6.92	71.2	5.7	6-9/	73.6	3.4	77.3	75.0	2.3	0.62
52-9 603 -74 665 699 -33 678 724 -45 696 73-9 -4-2 68-6 414 53-1 -11-7 54-1 62-0 -7-9 56-6 65-3 -8-6 27-6 67-6 -40-1 61-5 586 65-0 -6-4 76-5 72-5 4-0 76-8 74-3 2-5 79-4 75-5 3-9 76-4 586 65-0 -6-4 76-5 72-5 4-0 76-8 74-3 2-5 79-4 75-5 3-9 76-4 586 62-0 67-1 -4-2 78-2 76-0 2-1 80-2 77-4 2-8 83-2 78-9 4-3 84-5 58a 60-2 63-5 -3-3 69-2 73-9 -4-6 73-5 75-5 75-7 77-7 -2-0 75-5 58a 53-6 59-6 -5-3 71-8 70-4 73-5 72-5 10 75-1 74-0 75-1 58a 53-6 53-6 -5-3 71-8 70-4 73-5 73-5 73-5 73-5 73-5 59a 61-2 59-6 -7-4 71-5 73-1 73-5 73-0 75-4 75-8 73-1 73-5 59a 61-2 60-6 -7-4 71-5 73-1 73-5 73-5 73-5 73-5 73-5 73-5 73-5 73-5 73-5 59a 61-2 60-6 -7-4 71-5 73-1 73-5 7	Grenada	58.9	56.1	2.8	72.6	0.69	3.6	76.5	72.7	3.8	75.9	74.8	1.1	72.9	76.3	-3.3	0.67
414 531 -117 541 620 -79 566 653 -86 676 676 -401 615 586 650 -64 765 725 40 768 743 25 794 755 3.9 764 580 62.9 67.1 -4.2 782 760 2.1 80.2 77.4 2.8 83.2 78.9 4.3 845 581 60.2 63.5 -3.3 69.2 76.0 2.1 80.2 77.4 2.8 83.2 78.9 4.3 845 582 596 -6.1 72.5 71.2 1.3 76.2 73.9 2.4 73.7 77.7 77.7 7.2 583 586 -5.3 71.8 70.4 1.4 73.5 72.5 1.0 75.1 74.0 1.1 75.2 584 73.1 73.2 73.2 73.5 73.5 73.5 73.5 73.5 73.5 585 586 -5.3 71.8 70.4 71.4 73.5 73.5 73.5 73.5 585 586 -7.4 71.9 71.5 73.5 73.5 73.5 73.5 586 73.1 73.5 73.5 73.5 73.5 587 73.1 73.5 73.5 588 73.1 73.5 73.5 73.5 589 73.1 73.5 73.5 589 73.1 73.5 73.5 589 73.1 73.5 73.5 589 73.1 73.5 73.5 589 73.1 73.5 73.5 589 73.1 73.5 73.5 589 73.1 73.5 73.5 589 73.1 73.5 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.5 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 589 73.1 73.1 740 74.1 740 74.1 750 740 750 740 750 750	Guyana	52.9	60.3	-7.4	99.2	6.69	-3·3	8.29	72-4	-4.5	9.69	73.9	-4.2	9.89	75.8	-7.2	0.65
(58.6) (65.0) -64 76.5 72.5 40 76.8 74.3 25 79.4 75.5 3.9 76.4 (50.2) (62.1) -4.2 78.2 76.0 2.1 80.2 77.4 2.8 83.2 78.9 4.3 76.4 (6.2) (6.2) 63.5 -6.3 76.2 77.5 77.7 77.7 -2.0 75.5 (6.2) 53.6 -6.1 77.5 71.2 1.3 76.2 73.9 2.4 79.4 77.7 -2.0 75.5 (6.2) 53.6 -6.1 77.5 1.4 73.5 72.5 1.0 75.1 74.0 1.1 75.2 (6.1) 75.1 71.1 71.5 73.5 73.6 73.4 76.8 76.4 76.1 76.1 77.1 77.2 (6.1) 75.1 75.1 73.5 73.0 76.4 76.8 76.1 76.1 77.1 77.1 77.2 <t< td=""><td>Haiti</td><td>41.4</td><td>53·1</td><td>-11.7</td><td>54·1</td><td>62.0</td><td>6-7-</td><td>9.99</td><td>65.3</td><td>9.8-</td><td>27.6</td><td>9.29</td><td>-40.1</td><td>61.5</td><td>69.4</td><td>-7.9</td><td>0.45</td></t<>	Haiti	41.4	53·1	-11.7	54·1	62.0	6-7-	9.99	65.3	9.8-	27.6	9.29	-40.1	61.5	69.4	-7.9	0.45
ico 629 671 4-2 78-2 760 21 80-2 774 2.8 83-2 78-9 4-3 84-5 84-5 84-5 84-5 84-5 84-5 84-5 84-5	Jamaica	9.85	0.59	-6.4	2.92	72.5	4.0	8.9/	74·3	2.5	79.4	75.5	3.9	76-4	26.7	-0.3	0.68
ia 536 596 6-6-1 72-5 71-2 13 76-2 73-9 24 79-4 75-7 77-7 77-7 2-0 75-5 75-7 13-7 13-7 13-7 13-7 13-7 13-7 13-7 13	Puerto Rico	6-79	67.1	-4.2	78.2	0.92	2.1	80.2	77-4	2.8	83.2	78.9	4.3	84.5	81.1	3.4	0.83
ia 53-6 59-6 -6-1 72-5 71-2 13 76-2 73-9 24 79-4 75-4 4-0 76-5 76-5 76-5 76-5 76-5 76-5 76-5 76-5	Saint Kitts and Nevis	60.2	63.5	3.3	69.2	73.9	-4.6	73.5	75.6	-2.2	75.7	7:17	-2.0	75.5	78.9	-3.4	0.75
cent 53.3 58.6 -5.3 71.8 70.4 1.4 73.5 72.5 1.0 75.1 74.0 1.1 75.2 1.0 75.1 les	Saint Lucia	53.6	9.65	-6.1	72.5	71.2	1.3	76.2	73.9	2.4	79.4	75.4	4.0	2.92	76.3	0.2	0.67
e 61.2 59.6 1.5 71.1 71.5 -0.5 73.0 72.8 0.1 75.6 74.4 1.2 74.2 and 59.2 66.6 -7.4 71.9 75.1 -3.2 73.0 76.4 -3.4 76.8 78.1 -1.3 75.0	Saint Vincent and the Grenadines	53.3	58.6	-5.3	71.8	70.4	1.4	73·5	72.5	1.0	75·1	74.0	1:1	75.2	75.5	-0.2	0.64
and 59.2 66.6 -7.4 71.9 75.1 -3.2 73.0 76.4 -3.4 76.8 78.1 -1.3 75.0	Suriname	61.2	9.65	1.5	71.1	71.5	-0.5	73.0	72.8	0.1	9.52	74.4	1.2	74.2	75.5	-1.2	0.63
	Trinidad and Tobago	59.2	9.99	-7.4	71.9	75·1	-3.2	73.0	76.4	-3.4	8-9/	78.1	-1.3	75.0	79.3	-4.2	0.77
															(Table 3 continues on next page)	nues on ne	kt page

rom pre															
ontinued from previo	Estimated Expected life life expectancy expectancy	ed Difference	Estimated life expectancy	Expected life expectancy	Difference										
gg	ous page)														
	.8 69.2	4.4	75.4	75.9	-0.5	77.0	77-4	-0.5	9.08	6.62	0.7	82-3	6.08	1.3	0.82
bia	0.09 0	-8.9	73.5	70.8	2.7	76.7	72.5	4.2	78.5	74.0	4.5	75·7	9.57	0.1	0.64
	9-65 0-	-3.7	75.0	70.8	4.1	78.4	72.4	0.9	81.2	74.0	7.2	79.7	75.9	3.8	99.0
COSTA RICA 57	57.4 62.0	-4.6	79.3	72.5	2.9	80.5	74.0	6.5	82.3	75.4	7.0	81.2	77.3	3.9	0.70
El Salvador 46.2	.2 53.5	-7·3	74.4	8-59	8.5	78.5	69.2	9.5	7.67	71.5	8.1	77.2	73.4	3.8	0.56
Guatemala 41.8		-12.4	65.4	62.3	3.1	70.3	66.1	4.2	73.6	70.1	3.5	72.7	72.4	0.4	0.54
Honduras 40-5		-12.6	71.0	63.2	7.8	70.7	9.99	4.1	71.8	9.69	2.1	70.7	71.9	-1.2	0.51
Mexico 49.7	9.09 2.1	-10.9	73.2	71.5	1.7	76.4	73·3	3.1	7.77	74-4	3.3	74.7	76.2	-1.5	99.0
Nicaragua 49·5	.5 55.0	-5.5	0.77	64.1	12.9	80.1	6-29	12.2	9.62	70.2	9.4	8.92	72.2	4.6	0.52
Panama 63.2	.2 63.8	9.0-	78.9	72.8	6.1	80.9	74·1	8.9	82.0	75.1	6.9	81.4	77-3	4.1	0.71
Venezuela 57·1	:1 62.9	-5.8	75.2	71.9	3.3	78.7	73·4	5.2	80.1	74.4	5.7	74.6	74.8	-0.2	09.0
Tropical Latin 55·4 America	.4 57.9	-2.5	73.2	71.4	1.9	0.92	72.7	3.3	78.2	74.4	3.7	77.3	75.8	1.6	0.65
Brazil 55-4	.4 57.9	-2.5	73·1	71-4	1.7	0.9/	72.7	3.3	78.2	74.4	3.7	77-4	75.8	1.6	0.65
Paraguay 59.8	9-65 8-1	0.2	77.2	70.4	2.9	6.77	72.4	5.5	78.2	74.0	4.2	75.9	75.8	0.1	0.64
North Africa and 45.8 Middle East	.8 53.5	7-7-	67.2	0.69	-1.8	71.1	72.0	6.0-	73.9	73.9	0.0	73·7	0.92	-2.3	99.0
Afghanistan 38.0	.0 45.6	9-2-	52.5	51.9	9.0	54·1	52.3	1.8	8.65	57.5	2.3	2.09	63.5	-2.8	0.34
Algeria 44·5	··5 49·3	-4.8	71.2	6.69	1.3	74.0	72.7	1.3	0.92	74.5	1.5	75-4	0.92	9.0-	99.0
Bahrain 52-7	:7 56.5	-3.8	70.5	74.0	-3.5	71-3	75.6	-4·3	75.0	77.3	-2.2	75.1	78.9	-3.9	0.75
Egypt 45.5	595 29.5	-11.0	63.7	68.1	4.4	68.7	71.5	-2.9	69.3	71.2	-1.9	70.2	74.5	4.4	0.61
Iran 43·7	.7 51.9	-8.2	69.5	9.69	-0.1	75.0	73-4	1.5	78.1	75.5	5.6	77.2	77.1	0.1	0.70
Iraq 58·6		8.4	70·3	67.4	3.0	71.8	6.69	2.0	73.8	72.2	1.6	73.5	75.9	-2.4	99.0
Jordan 52-9	.9 48.4	4.5	71.9	72.7	8.0-	72.2	74·1	-1.9	77.2	0.92	1.2	9.77	77-8	-0.3	0.73
Kuwait 67-2	.2 62.6	4.6	77.3	76-4	6.0	80.2	7.7.7	2.5	82.8	79.8	3.1	85.1	81.7	3.3	0.85
Lebanon 55.8	.8 59.3	-3.5	73·1	72-4	0.7	6.92	73.9	3.0	0.08	76.2	3.9	78.4	78.3	0.1	0.74
Libya 43.7	.7 50.2	-6.5	74.5	72.5	2.0	76.2	75.5	0.7	74.9	7.77	-2.8	73.4	78.1	-4.8	0.73
0.		-1.4	68.3	0-59	3.3	71-3	6.79	3.4	73·1	70.4	2.7	73.9	73·3	9.0	0.56
		-5.6	72·3	9.89	3.8	75.7	74.7	1.0	77.3	77.4	-0.1	26-3	79.3	-3.0	0.77
Palestine 46.2		-3·1	71.7	67.1	4.5	73.2	6.69	3.3	74.9	72.2	2.7	76.2	75.2	1.0	0.63
Qatar 62.5	.5 58.6	3.9	72.7	75.8	-3·1	73·7	77.5	-3.9	75.6	9.62	-4.0	79.2	81.7	-2.5	0.85
Saudi Arabia 53:3	3 54.6	-1.3	69.4	72.7	-3·3	71.6	75.6	-4.1	73.5	78-3	-4.8	75·1	8.08	-5.7	0.82
Sudan 47·1	7.1 48.4	-1.3	59.2	9.09	-1.4	64.1	64.1	0.0-	8.89	8.89	0.0-	70.1	72.7	-2.6	0.54
Syria 54·6	.6 51.1	3.5	70.7	9.89	2.1	72.8	71.5	1.2	9.52	74·3	1.3	74·7	75·1	-0.4	0.62
Tunisia 44.0	.0 50.2	-6.2	74.4	70.2	4.1	6.92	73·3	3.6	78.9	75·1	3.8	77.1	9.92	0.5	89.0
Türkiye 50.0	.0 57.2	-7.2	71.3	6.69	1.5	9.77	72.5	5:1	9.62	74.8	4.7	78·3	77.4	6.0	0.71
United Arab 57-4 Emirates	.4 53.9	3.5	70.9	75.6	-4.7	72.5	78.9	-6.4	71-3	81.2	-10.0	71.5	81.9	-10.3	0.85
Yemen 32.0	.0 44.1	-12.1	9.09	55.4	5.1	64.7	61.3	3.4	69.4	6.99	2.5	68.5	69.4	-1.0	0.45

																2021
	Estimated life expectancy	Expected life expectancy	Difference	ı												
(Continued from previous page)	revious page)	52.7	-13:1	61.5	62.6	1.0	65.4	66.4	-1.0	69.4	9.69	60	70.8	73-3	-2.5	0.56
Bangladesh	43.3	46.5	7.3.3	60.7	56.5	3.7	67.1	61.3	r.ç ∞;	71.1	65.6	9:5	74.1	71.7	5.6	0.49
Bhutan	38.0	40.9	-2.9	60.2	55.4	. 8:4	9:29	61.3	4:3	72.5	67.1	5.4	74.9	70.4	4.5	0.47
India	38.6	53.5	-14.9	61.7	63.2	-1.5	65.6	6.99	-1.3	9.69	70.1	. 4.0-	71.2	73.9	-2.6	0.58
Nepal	40.8	45.6	8-4-	58.4	54:3	4.1	£-99	9.69	9.9	9.02	64.7	5.9	70.8	8.89	2.0	0.43
Pakistan	46.1	9.09	-4.5	65.9	62.0	6.0	65.9	65.8	-2.9	65.7	8.89	-3.0	66.4	71.5	-5.1	0.50
Southeast Asia, east Asia, and Oceania	49.6	54.6	-5.1	69.4	70·2	6.0-	72.3	73.0	-0.7	76.2	75.2	1.0	78.6	77.0	1.6	0.70
East Asia	9.09	53.9	-3:3	70.1	70.2	-0.2	73-3	73·3	0.0-	77.8	75.8	2.0	80.7	77.8	2.9	0.73
China	50.7	53.1	-2.4	6.69	6.69	0.1	73-4	72.8	9.0	77.8	75.5	2.3	80.7	77.7	3.0	0.72
North Korea	41.2	65.9	-21.7	72.4	71.2	1.2	64.8	71.2	-6.3	73-4	72.5	6.0	76.2	73.6	5.6	0.57
Taiwan (province of China)	58.4	61.0	-2.6	77.3	76·3	1.0	79.8	78.8	1.0	83.0	81.1	1.9	84.6	82.7	1.9	0.87
Oceania	49.2	55.8	9.9-	64.5	9.99	-2.1	65.7	68.3	-2.7	9.99	0.69	-2.4	9.99	70.1	-3.4	0.47
American Samoa	63.2	70.8	9.7-	73.8	74.8	-1:1	73.0	75.5	-2.4	72.6	76.2	-3.5	72.8	77.3	4.4	0.72
Cook Islands	46.7	63.5	-16.9	71-4	73-4	-2.0	75.6	75-4	0.3	78.8	77-4	1.4	9.62	9.62	0.0	0.78
Federated States of Micronesia	45.1	8-95	-11.7	9-59	6.69	-4·3	8.99	71.7	-4.9	9.89	73.0	4.4	2.69	74·1	-4.5	0.59
Fiji	59.2	61.3	-2.1	69.1	72.5	-3.4	68.2	74·1	0.9-	69.2	75.0	-5.8	8.89	26.3	-7.5	0.68
Guam	70.1	73-4	-3.3	75.8	9.9/	8.0-	78.6	77.8	2.0	82.9	78.9	4.0	82.9	80.3	5.6	0.80
Kiribati	48.0	59.3	-11.2	61.5	9./9	-6.1	63.5	69.2	-5.7	65.1	9.02	-5.5	0.79	72.2	-5.2	0.53
Marshall Islands	53.6	26.5	-2.9	66.3	9.89	-2.3	63.9	70.2	-6.4	9.49	71.9	-7.3	8.99	73.6	8.9-	0.57
Nauru	54.5	6.99	-12.4	64·3	72.7	-8.4	61.5	72.0	-10.6	62.0	72.7	-10.6	65.7	75·1	4-6-	0.63
Niue	54.5	63.5	0.6-	71.9	74.0	-2.1	71.6	75.2	-3.6	72.7	26.7	-4.0	69.2	77.8	9.8-	0.73
Northern Mariana Islands	65.4	69.2	-3.8	73·2	77.5	-4.4	75·3	78.8	-3.5	76.2	78.8	-2.5	75.0	9.62	-4.6	0.77
Palau	50.8	68.1	-17-3	9.89	76.2	-7.5	2.69	77-3	-7.5	9.69	77.8	-8.4	70.5	78.8	-8.3	0.75
Papua New Guinea	45.9	49.3	-3.5	62.8	62.0	8.0	64.4	64.7	-0.3	65.5	66.1	9.0-	65.5	68.1	-2.6	0.42
Samoa	58.0	60.3	-2.3	71-1	70.8	0.3	71.7	71.9	-0.2	72.0	73·1	-1.1	71.9	74·1	-2.2	0.59
Solomon Islands	48.6	51.9	-3.3	64·1	61.3	2.8	65.8	64.7	1.1	6.99	66.1	0.8	68.4	9.89	-0.2	0.43
Tokelau	58.2	61.0	-2.8	9.89	72.0	-3.4	70.3	73.6	-3.3	72.2	75.2	-3.0	8.79	76.7	6.8-	0.69
Tonga	65.9	58.9	3.9	73·1	71.0	2.1	73.9	72.8	1:1	74.6	73.9	8.0	75.7	75.2	0.5	0.63
Tuvalu	49.2	9-85	-9.4	62.5	6.99	4.4	63.5	70.2	-6.7	0.69	72.0	-3.1	9.02	73.7	-3.1	0.58
Vanuatu	49.9	53.9	-4.0	67.2	64.4	2.8	68.1	9.99	1.5	69.3	9.89	2.0	69.4	70.2	8.0-	0.47
Southeast Asia	47.2	56.1	6.8-	6.79	70.1	-2.1	70.5	72.5	-2.0	73·3	74.0	-0.7	74·3	75.8	-1.5	0.65

																2021
	Estimated life expectancy	Expected life expectancy	Difference	l												
(Continued from previous page)	orevious page)															
Cambodia	45.4	53.5	-8.1	9.69	9.09	-1.0	62.4	63.5	-1:1	69.2	9.79	1.5	71.0	70-4	0.5	0.47
Indonesia	44.4	53.9	4.6-	65.4	9.69	-4·3	68.3	72.5	-4.2	8.02	74.0	-3.2	72.0	0.92	-4.0	99.0
Laos	41.0	48.9	-7.9	54.6	58.9	4.4	0.09	65.9	-2.9	0.79	6.79	8.0-	70.4	71.0	9.0-	0.49
Malaysia	57.5	55.4	2.1	74.5	72.8	1.7	75.6	75.2	0.4	76.4	8-9/	-0.5	75-7	78·3	-2.6	0.74
Maldives	36.4	53.9	-17.5	65.4	63.2	2.2	72.8	9.02	2.2	79.3	73.9	5.4	81.2	0.97	5.2	0.65
Mauritius	52.6	61.0	-8.4	74·1	72.8	1.2	75.5	74·5	6.0	77.8	0.9/	1.8	6.92	77.7	8.0-	0.72
Myanmar	35.8	49.3	-13.6	58.1	62.6	-4.5	61.4	9.59	-4.2	9.79	6.69	-2.2	71.2	72-4	-1.2	0.53
Philippines	58.8	63.5	7-4-7	71.8	71.7	0.1	73.8	72.8	1.0	74.0	73.6	0.4	72.2	75.9	-3.7	0.65
Seychelles	65.9	9.59	-2.6	75.5	73.7	1.8	9.92	75.8	6.0	77.0	9.9/	0.5	76.5	78.0	-1.5	0.73
Sri Lanka	54·1	63.2	-9.1	74·1	72.0	2.1	2.92	73.9	5.6	78.2	75.4	2.9	79.7	77.1	5.6	0.70
Thailand	53.9	56.8	-3.0	74.6	71.5	3.1	75·1	73.9	1.3	79.1	75·1	4.0	80.3	9.92	3.7	0.68
Timor-Leste	42.7	46.1	-3.4	29.7	9.85	1:1	8-59	63.8	2.0	70.3	6.99	3.4	70.5	69.4	1.1	0.44
Viet Nam	50.3	55.0	7-4-7	73.2	67.4	5.8	76.4	71.0	5.4	77.4	73·3	4.1	78-3	75.0	3.4	0.63
Sub-Saharan Africa	43.9	9.09	-6.7	9:29	61.0	-5.4	54.5	63.2	-8.7	90.5	66.4	-5.8	64.1	6.69	-5.8	0.46
Central sub- Saharan Africa	44.0	50.2	-6.2	55.0	61.3	-6.3	54.6	9.79	-8.0	59.8	9.99	8.9-	63.8	8.02	-7.0	0.47
Angola	45.3	48.4	-3.1	52.2	59.3	-7.1	55.0	62.0	6.9-	62.3	66.4	-4.1	63.7	9.02	6.9-	0.45
Central African Republic	45.3	46·1	-0.7	50.3	55.4	-5.0	45.0	57.5	-12.5	50.4	0.09	9.6-	55.2	62.0	2-9-	0.31
Congo (Brazzaville)	39.3	51.5	-12.2	6.95	68.1	-11.2	53.4	6.69	-16.5	60.3	71.5	-11-3	63.1	74.0	-10.9	0.58
Democratic Republic of the Congo	44.2	49.8	-5.6	56.0	9.09	-4.6	55-3	58.9	-3.6	29.7	60.3	9.0-	64.5	9.99	-2.1	0.38
Equatorial Guinea	32.8	46.1	-13·3	54.5	59.3	4.8	58.6	9.29	-9.1	62.1	73·3	-11.2	63.7	76.2	-12.5	99.0
Gabon	36.1	51.1	-15.0	64·3	9.69	-5.3	61.0	71.7	-10.7	64.7	73·1	-8.5	67-3	75.5	-8.2	0.63
Eastern sub- Saharan Africa	40.8	47.0	-6.2	53·1	56.8	-3.7	53·3	58.9	-5.7	61.7	63.2	-1.6	64.5	9.29	-3:1	0.41
Burundi	39.5	45.6	-6.1	51.2	54.6	-3.5	48.1	55.4	-7.3	61.1	57.2	3.9	64.9	9.09	4.3	0.29
Comoros	45.7	47.5	-1.8	9.69	0.09	-0.3	62.2	64.7	-2.5	2.99	6.79	-1.2	68.2	70.4	-2.3	0.48
Djibouti	60.4	51.5	8.9	63.7	63.8	-0.2	9.29	8-59	-3.3	64.7	68.3	-3.6	0.79	71.2	-4.2	0.49
Eritrea	41.4	42.5	-1:1	52·3	55.4	-3·1	58.8	62.0	-3.2	62.8	64.4	-1.6	8.49	67.4	-2.6	0.40
Ethiopia	36.2	40.9	7-4-7	49.0	50.2	-1.2	52.9	52.3	9.0	64.9	9.85	6.3	67.5	0.59	2.5	98.0
Kenya	48.4	47.5	6.0	63.5	63.5	-0.1	96.0	66.4	-10.3	62.7	8.89	0.9-	67.2	72.2	-5.0	0.52
Madagascar	40.4	48.4	-8.0	57.4	0.09	-2.6	0.09	60.3	-0.3	62.8	62.3	0.5	63.9	67.1	-3.2	0.40
Malawi	38.8	48.9	-10.1	50.4	54.6	-4.2	46.3	56.5	-10.2	58.5	9.09	-2.1	62.1	66.1	-4.0	0.38
Mozambique	42.1	44.6	-2.5	53.2	51.9	1.3	54.7	54·3	0.5	96.0	57.5	-1.6	6.65	65.9	-3.0	0.33
Pwanda	27.1	18.0	_1E.0	8.13	50.6	27.8	0		1	0 1 7	, , ,	_	1 2	000	,	

Filt marted Expected Experted Expected Difference Expinated Expected Difference Expinated Expected		1950			1990			2000			2010			2021			SDI, 2021
414 36 509 403 106 532 409 123 536 484 419 548 546 0.1 573 565 0.9 601 456 -42 567 586 -19 543 606 -64 602 489 -27 586 -19 566 606 -64 602 610 -84 674 715 -41 563 733 -169 578 610 -84 674 715 -41 563 666 -64 601 610 -84 674 715 -41 563 733 -169 578 610 -84 674 715 -41 563 773 -169 578 554 -659 659 679 -29 501 715 -150 571 493 -62 659 674 727 472 573 602		Estimated life expectancy	Expected life expectancy	Difference													
450 414 36 509 403 106 532 409 123 536 453 484 19 548 546 104 573 565 109 601 414 456 451 546 19 548 546 109 569 601 461 489 427 525 616 -92 460 626 -166 509 600 525 610 84 674 715 -23 515 568 -53 620 600 <	(Continued from)	orevious page)															
503 484 19 548 546 0.1 573 565 0.9 601 414 456 -42 587 586 -19 543 606 -64 622 415 456 -42 587 586 -19 569 609 640 660	Somalia	45.0	41.4	3.6	6.05	40.3	10.6	53.2	40.9	12.3	53.6	42.0	11.6	6.95	43.0	13.9	80.0
414 456 -42 567 586 -19 543 606 -64 622 415 451 456 -42 568 531 -23 568 -53 620 -64 622 445 489 -27 525 610 -84 674 715 -41 563 578 520 620	South Sudan	50.3	48.4	1.9	54.8	54.6	0.1	57-3	56.5	6.0	60.1	59.3	8.0	58.1	0.09	-1.9	0.28
415 451 356 508 531 -23 515 568 -53 620 461 489 -27 525 616 -92 460 626 -166 591 525 610 -84 674 715 -41 563 733 -169 591 526 489 -38 650 679 -29 504 702 -169 591 432 493 -62 654 674 -29 504 702 -199 497 529 506 679 679 -29 504 702 -199 497 524 629 664 679 -29 504 702 -199 579 548 527 21 671 -29 504 702 -199 579 548 527 21 671 -29 504 702 -199 579 447 493 <t< th=""><th>Tanzania</th><td>41.4</td><td>45.6</td><td>-4.2</td><td>26.7</td><td>9.85</td><td>-1.9</td><td>54·3</td><td>9.09</td><td>-6.4</td><td>62.2</td><td>64.7</td><td>-2.5</td><td>6-59</td><td>69.4</td><td>-3.6</td><td>0.45</td></t<>	Tanzania	41.4	45.6	-4.2	26.7	9.85	-1.9	54·3	9.09	-6.4	62.2	64.7	-2.5	6-59	69.4	-3.6	0.45
461 489 -27 525 616 -92 460 626 -166 591 525 610 -84 674 715 -41 563 733 -169 578 526 489 38 650 679 -29 501 719 -169 578 482 493 -62 651 671 -20 504 702 -199 497 529 506 52 659 658 634 -29 501 702 -199 497 524 629 -29 504 -38 561 702 -199 497 548 527 21 673 -49 572 694 -38 561 679 596 548 629 638 671 77 478 596 -193 478 690 598 548 629 638 671 77 747 578	Uganda	41.5	45.1	-3.6	8.05	53.1	-2.3	51.5	8.99	-5.3	62.0	63.2	-1.2	64.9	68.3	-3.5	0.42
525 610 -84 674 715 -41 563 733 -169 578 426 489 38 650 679 -29 501 719 -217 597 432 493 -62 659 638 21 512 671 -160 519 524 596 22 659 638 21 512 671 -160 519 524 559 -20 638 21 512 671 -160 519 524 559 -20 594 -78 561 671 -150 519 524 629 -20 694 -39 561 715 -150 519 548 527 21 596 -39 58 620 699 -39 58 600 609 519 519 519 519 519 519 519 519 519 519 519 5	Zambia	46.1	48.9	-2.7	52.5	61.6	-9.2	46.0		-16.6	59.1	6.99	7.7-	61.4	71.7	-10.3	0.51
52.6 489 38 650 679 -29 50.1 719 -217 597 43.2 493 -62 651 671 -20 504 702 -199 497 52.9 506 22 659 638 21 512 671 -160 519 497 52.4 554 -20 656 694 -38 561 715 -150 639 497 52.4 529 -105 684 727 -42 592 743 -150 596 699 592 743 -150 596 699 592 748 596 699 -159 592 748 596 699 -199 596 699 -199 596 699 -199 597 699 598 690 -199 598 690 -199 598 690 -199 598 690 -199 598 690 440 588 <	Southern sub- Saharan Africa	52.5	61.0	-8.4	67.4	71.5	-4.1	56.3		-16.9	57.8	74.4	-16.6	63.0	75.6	-12.7	0.64
432 493 -62 651 671 -20 504 702 -199 497 529 504 52 659 638 21 512 671 -160 519 497 534 554 20 656 694 -38 561 715 -155 636 524 629 -105 684 777 -42 592 743 -156 599 444 493 -49 557 596 -39 558 620 -521 636 444 493 -49 577 -49 578 620 -521 699 444 493 -49 557 596 538 619 578 669 503 489 -47 596 578 679 578 659 598 644 86 670 679 598 649 776 699 589 649 776 699 <	Botswana	52.6	48.9	3.8	65.0	6.79	-2.9	50.1	71.9	-21.7	29.7	74.0	-14·3	62.9	75.6	-12.8	0.64
529 506 22 659 638 21 512 671 -160 519 534 554 -20 656 694 -38 561 715 -155 636 524 629 -105 684 727 -42 592 743 -150 636 548 527 2.1 638 671 -33 478 692 -214 536 690 -105 636 690 -105 636 690 -106 636 690 -106 636 690 -106 636 690 -106 636 690 -106 636 690 690 -106 636 690 69	Eswatini	43.2	49.3	-6.2	65.1	67.1	-2.0	50.4		-19.9	49.7	72.2	-22.5	56.1	74.0	-17.9	0.59
534 554 -20 656 694 -38 561 715 -155 636 524 629 -105 684 727 -42 592 743 -150 590 548 527 2.1 638 67.1 -33 47.8 692 -214 536 444 493 -49 557 596 -39 558 620 -214 536 415 461 -46 578 557 596 -39 588 620 -62 609 415 462 -49 558 671 -49 588 690 -62 609 481 409 -28 524 484 40 538 619 598 660 699 -99 589 690 690 690 690 690 690 690 690 690 690 690 690 690 690 690 690 690	Lesotho	52.9	9.09	2.2	6-29	63.8	2.1	51.2		-16.0	51.9	69.4	-17.5	52.1	71.7	-19.6	0.51
524 62.9 -105 684 727 -42 592 743 -150 590 548 527 21 638 671 -33 478 692 -214 535 444 493 -49 557 596 -39 558 620 -62 609 415 461 -46 57.8 55.8 21 599 58.2 1.6 699 38.1 409 -28 52.4 484 40 538 519 1.9 598 403 -489 -28 52.4 484 40 538 519 1.9 598 442 489 -47 596 12.8 739 650 60 90 776 698 475 489 -47 596 12.8 73 64 86 594 44 580 487 470 47 57 57 57 57 58 </th <th>Namibia</th> <td>53.4</td> <td>55.4</td> <td>-2.0</td> <td>9.59</td> <td>69.4</td> <td>-3.8</td> <td>56.1</td> <td></td> <td>-15.5</td> <td>9.89</td> <td>73·1</td> <td>-9.5</td> <td>64.0</td> <td>75.0</td> <td>-10.9</td> <td>0.62</td>	Namibia	53.4	55.4	-2.0	9.59	69.4	-3.8	56.1		-15.5	9.89	73·1	-9.5	64.0	75.0	-10.9	0.62
548 527 21 638 671 -33 478 692 -214 535 444 493 -49 557 596 -39 558 620 -62 609 415 461 -46 578 558 21 598 650 609 609 38.1 409 -28 524 484 40 588 619 198 659 609	South Africa	52.4	65.9	-10.5	68.4	72.7	-4.2	59.2		-15.0	9.65	75-4	-16.3	8-49	9-9/	-11.8	89.0
444 493 494 557 596 -39 558 620 -62 609 415 461 -46 578 558 21 599 582 16 699 38.1 409 -28 524 484 40 538 519 19 598 503 489 14 724 596 128 739 650 90 776 442 489 -47 598 613 -15 558 644 -86 593 442 489 -47 596 128 739 650 593 444 580 475 470 75 538 493 44 580 594 488 594 488 594 580 594 488 594 580 594 580 594 580 594 580 594 580 594 580 594 580 594 594 588 </th <th>Zimbabwe</th> <td>54.8</td> <td>52.7</td> <td>2.1</td> <td>63.8</td> <td>67.1</td> <td>-3·3</td> <td>47.8</td> <td></td> <td>-21.4</td> <td>53.5</td> <td>6.79</td> <td>-14·4</td> <td>58.0</td> <td>70.4</td> <td>-12.5</td> <td>0.47</td>	Zimbabwe	54.8	52.7	2.1	63.8	67.1	-3·3	47.8		-21.4	53.5	6.79	-14·4	58.0	70.4	-12.5	0.47
at 5 46.1 -46 57.8 55.8 2.1 599 58.2 1.6 63.9 letae 50.3 48.9 -2.8 52.4 48.4 4.0 53.8 51.9 1.9 59.8 cerde 50.3 48.9 1.4 72.4 59.6 12.8 73.9 65.0 9.0 77.6 con 44.2 48.9 -4.7 59.8 61.3 -1.5 55.8 64.4 -8.6 59.8 con 43.4 40.9 2.5 54.5 47.0 7.5 53.8 49.3 44.4 58.0 r 43.4 40.9 2.5 60.0 -1.5 53.7 63.5 -9.8 59.4 a 48.7 47.5 7.3 61.9 57.2 47.7 62.7 62.7 62.7 60.7 68.3 74.4 58.0 a 41.5 41.4 60.0 51.2 52.7 62.7 62.7 61.2 <	Western sub- Saharan Africa	44.4	49.3	-4.9	55.7	9.65	-3.9	55.8	62.0	-6.2	6.09	9.59	-4.6	64.5	69.2	-4.7	0.45
tar Baso 38.1 40.9 -2.8 52.4 48.4 40 53.8 51.9 1.9 59.8 derde 50.3 48.9 1.4 72.4 59.6 12.8 73.9 65.0 9.0 77.6 oon 44.2 48.9 -47 59.8 61.3 -1.5 55.8 64.4 -8.6 59.3 non 43.4 40.9 2.5 54.5 47.0 7.5 53.8 69.3 7.6 59.8 numbia 54.8 47.0 0.4 7.5 53.8 49.3 44 58.0 numbia 54.8 47.0 7.5 53.8 49.3 44 58.0 1 48.7 57.2 47.7 62.7 60.0 63.5 -9.8 59.4 a Bissau 32.1 42.0 50.5 55.6 -5.0 60.7 68.3 -7.6 63.9 a Bissau 32.1 42.0 50.7 56.8 -6.2<	Benin	41.5	46.1	-4.6	57.8	55.8	2.1	6.65	58.2	1.6	63.9	61.6	2.3	6-59	8-59	0.1	0.37
cerde 50.3 48.9 1.4 72.4 59.6 12.8 73.9 65.0 9.0 77.6 coon 44.2 48.9 -47 59.8 61.3 -1.5 55.8 64.4 -86 59.3 d.34 40.9 2.5 54.5 47.0 7.5 53.8 49.3 44 58.0 ambia 54.8 47.0 7.5 53.8 49.3 44 58.0 ambia 54.8 47.5 7.3 61.9 57.2 47 62.7 61.0 7.6 58.0 a 48.7 57.2 -8.5 60.5 65.6 -5.0 60.7 61.9 7.6 64.8 a 41.5 41.4 0.0 51.9 52.7 -0.9 54.8 57.9 -7.6 63.9 a 41.5 44.1 50.1 48.0 2.5 54.2 57.9 -7.4 61.2 a 48.2 44.1 48.0 </th <th>Burkina Faso</th> <td>38.1</td> <td>40.9</td> <td>-2.8</td> <td>52.4</td> <td>48.4</td> <td>4.0</td> <td>53.8</td> <td>51.9</td> <td>1.9</td> <td>8.65</td> <td>55.8</td> <td>4.1</td> <td>0.59</td> <td>60.3</td> <td>2.7</td> <td>0.29</td>	Burkina Faso	38.1	40.9	-2.8	52.4	48.4	4.0	53.8	51.9	1.9	8.65	55.8	4.1	0.59	60.3	2.7	0.29
von 442 489 -47 598 613 -15 558 644 -86 593 volire 434 40.9 2.5 545 470 7.5 538 493 44 580 volire 47.5 47.0 0.4 58.4 60.0 -1.5 537 63.5 -9.8 594 smbia 54.8 47.5 73 61.9 57.2 47 61.0 1.8 64.8 smbia 54.8 47.5 73 61.9 57.2 47 62.7 61.0 1.8 64.8 stal 41.5 47.4 0.0 51.9 57.2 47 62.7 61.0 1.8 64.8 a-Bissau 32.1 41.4 0.0 51.9 52.7 -0.9 54.8 55.4 -0.6 59.1 a-Bissau 32.1 42.0 52.2 54.6 -2.5 54.2 57.9 56.4 -0.6 59.1	Cabo Verde	50.3	48.9	1.4	72.4	9.69	12.8	73.9	0.59	0.6	9.77	9.69	7.9	8://	72.5	5.2	0.53
Howele Hook	Cameroon	44.2	48.9	7-4-7	8.65	61.3	-1.5	55.8	64.4	9.8-	59.3	6.99	9./-	9.69	9.02	-7:1	0.48
Hyoire 475 470 04 584 60-0 -1-5 537 635 -98 594 ambia 548 475 73 61-9 57-2 47 627 610 18 648 a 487 572 -85 60-5 65-6 -5-0 60-7 683 -7-6 639 a-Bissau 32-1 414 0-0 51-9 52-7 -0-9 54-8 57-4 -0-6 59-1 a-Bissau 32-1 420 -99 52-2 54-6 -2-5 54-8 57-4 -0-6 59-1 a-Bissau 32-1 420 56-8 -2-5 54-2 57-4 -0-6 59-1 a-Bissau 37-3 44-4 40 55-3 56-3 -1-4 61-2 a-Bissau 495 52-3 -62 55-0 55-0 56-3 -1-4 61-3 a-Bissau 495 52-3 46-1 40	Chad	43.4	40.9	2.5	54.5	47.0	7.5	53.8	49.3	4.4	58.0	53.1	4.9	9.09	8-95	3.7	0.24
ambia 548 475 773 61.9 57.2 47 627 61.0 18 64.8 48.7 57.2 -8.5 60.5 65.6 -5.0 60.7 68.3 7.6 63.9 a 41.5 41.4 0.0 51.9 52.7 -0.9 54.8 55.4 -0.6 59.1 a 28.8 48.9 -14.0 50.7 56.8 -6.2 55.0 55.5 -1.4 61.2 a 37.3 41.4 -4.1 50.1 48.0 2.2 53.1 51.1 2.1 59.0 tania 49.5 52.3 -2.8 60.5 63.5 -3.0 64.2 66.4 -2.2 68.3 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 7.7 61.2 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 7.7 61.2 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 7.7 61.2 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 7.7 61.2 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 7.7 61.2 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 7.7 61.2 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 7.7 61.2 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 7.7 61.2 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 7.7 61.2 a 5.8 5.9 5.9 5.9 5.9 5.9 63.5 7.7 61.2 a 6.9 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	Côte d'Ivoire	47.5	47.0	0.4	58.4	0.09	-1.5	53.7	63.5	8.6-	59.4	0.59	-5.6	8.59	68.3	-2.5	0.43
a 415 487 572 -85 665 656 -5-0 667 683 7-6 639 a 415 414 0.0 51.9 52.7 -0.9 548 554 -0.6 591 a-Bissau 32.1 420 -9-9 52.2 546 -2-5 542 57-9 -3-7 588 a 34.8 48.9 -14-0 50.7 56-8 -6-2 55-0 56-5 -1-4 61.2 a 37.3 41.4 -4.1 50.1 48·0 2.2 53·1 51·1 2·1 59·0 a 49.5 52.3 -2-8 60.5 63.5 -3-0 64.2 66.4 -2-2 68.3 a 45.7 50.2 -4-5 55-9 61.6 -5-7 55-9 63.5 -7-7 61.2 a 45.7 50.2 -4-5 55-9 61.6 -5-7 55-9 63.5 -7-7 61.2 a 45.7 50.2 -4-5 55-9 61.6 -5-7 55-9 63.5 -7-7 61.2 a 45.7 50.2 -4-5 55-9 61.6 -5-7 55-9 63.5 -7-7 61.2 a 46.5 46·1 0·4 60·4 56·8 35 61.9 60·3 1·6 67.1 a 47.0 -6-7 53·1 55·0 -1-9 52.7 55-8 5-9 5-9 5-9 5-9 5-9 5-9 5-9 5-9 5-9 5-9	The Gambia	54.8	47.5	7.3	61.9	57.2	4.7	62.7	61.0	1.8	8.49	64.4	0.4	62.9	9.79	-1.8	0.41
a 415 414 0.0 51.9 52.7 -0.9 548 55.4 -0.6 59.1 a 48.9 -14.0 50.7 56.8 -6.2 57.9 -3.7 58.8 a 34.8 48.9 -14.0 50.7 56.8 -6.2 55.0 56.5 -1.4 61.2 tania 49.5 52.3 6.5 6.5 6.5 6.4 5.2 68.3 a 47.2 40.3 1.8 48.1 44.1 40 52.3 66.4 5.2 68.3 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 -7.7 61.2 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 -7.7 61.2 a 46.1 60.4 56.8 50.3 1.8 70.0 a 47.1 60.4 56.8 61.9 60.3 1.8 70.0 a 48.1 64.1 60.4 56.8 52.3 61.9 60.3 1.6 67.1 a 49.5 52.3 -17.3 64.7 62.0 2.7 65.0 63.2 1.8 70.0 a 49.5 52.3 46.1 60.4 56.8 35 61.9 60.3 1.6 67.1 a 49.5 50.2 50.3 50.3 50.3 50.0 a 50.5 50.3 50.3 50.3 50.0 a 60.5 61.9 50.3 50.0 50.0 a 60.5 61.9 50.3 50.0 a 60.5 61.9 50.0 50.0 a 60.5 61.9 50.0 50.0 a 60.5 61.9 50.0 50.0 a 60.5 61.0 50.	Ghana	48.7	57.2	-8.5	9:09	9.59	-5.0	2.09	68.3	9./-	63.9	70.4	-6.5	67.4	73·3	-5.8	0.56
a-Bissau 32.1 42.0 -99 52.2 54.6 -2.5 54.2 57.9 -3.7 58.8 state 34.8 48.9 -14.0 50.7 56.8 -6.2 55.0 56.5 -1.4 61.2 ctalia 49.5 52.3 61.9 61.2 ctalia 49.5 52.3 61.9 61.2 ctalia 49.5 52.3 -2.8 60.5 61.5 61.2 ctalia 49.5 50.2 -4.5 55.9 61.5 ctalia 49.5 50.2 -4.5 55.9 61.5 ctalia 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 -7.7 61.2 ctalia 45.7 50.2 -4.7 50.2 ctalia 45.7 50.2 ctalia 45.7 50.2 ctalia 45.7 50.2 ctalia 55.9 51.3 ctalia 55.9 51.3 ctalia 55.9 ctalia 55.9 ctalia 55.9 ctalia 55.9 ctalia 55.9 ctalia 55.0	Guinea	41.5	41.4	0.0	51.9	52.7	6.0-	54.8	55.4	9.0-	59.1	9.85	0.5	62.2	63.8	-1.6	0.34
34.8 48.9 -14.0 50.7 56.8 -6.2 55.0 56.5 -14 61.2 tania 49.5 52.3 44.4 -41 50.1 48.0 2.2 53.1 51.1 2.1 59.0 tania 49.5 52.3 46.2 66.4 -2.2 68.3 a 42.2 40.3 1.8 48.1 44.1 40 52.3 46.1 62 61.3 mé and 35.0 52.3 -45 55.9 61.6 -57 55.9 63.5 -77 61.2 ne 45.7 50.2 -45 55.9 61.6 -57 65.0 63.5 -77 61.2 ne 46.5 46.1 0.4 60.4 56.8 35 61.9 60.3 1.6 67.1 Leone 40.3 47.0 -67 53.1 55.0 -1.9 52.7 55.8 -3.0 56.6	Guinea-Bissau	32.1	42.0	6.6-	52.2	54.6	-2.5	54.2	6.75	-3.7	58.8	9.09	-1.8	61.3	64.7	-3.4	0.35
ania 495 523 424 441 501 480 2.2 53.1 51.1 2.1 590 tania 495 523 -2.8 60.5 63.5 -3.0 64.2 66.4 -2.2 683 a 42.2 40.3 1.8 48.1 44.1 40 52.3 46.1 6.2 61.3 a 45.7 50.2 -4.5 55.9 61.6 -5.7 55.9 63.5 -7.7 61.2 be 50.2 -17.3 64.7 62.0 27 65.0 63.5 1.8 70.0 al 46.5 46.1 0.4 60.4 56.8 3.5 61.9 60.3 1.6 67.1 Leone 40.3 47.0 -6.7 53.1 55.0 -1.9 52.7 55.8 -3.0 56.6	Liberia	34.8	48.9	-14.0	20.7	8.99	-6.2	55.0	56.5	-1.4	61.2	0.09	1.2	64.1	64.7	9.0-	0.35
tania 495 523 -2-8 60-5 63-5 -3-0 64-2 66-4 -2-2 68-3 42-2 40-3 1-8 48-1 44-1 4-0 52-3 46-1 6-2 61-3 42-2 40-3 1-8 48-1 44-1 4-0 52-3 46-1 6-2 61-3 45-2 61-3 45-2 61-3 45-2 61-3 45-2 61-3 45-2 61-3 61-3 45-2 61-3 61-3 61-3 61-3 61-3 61-3 61-3 61-3	Mali	37·3	41.4	-4.1	50.1	48.0	2.2	53.1	51.1	2.1	9.0	54.6	4·3	61.1	9.65	1.5	0.27
a 45.7 50.2 -45 55.9 61.6 -5.7 55.9 63.2 7.7 61.2 mé and 35.0 52.3 -17.3 64.7 62.0 2.7 65.0 63.2 1.8 70.0 le 46.5 46.1 0.4 60.4 56.8 3.5 61.9 60.3 1.6 67.1 leone 40.3 47.0 -6.7 53.1 55.0 -1.9 52.7 55.8 -3.0 56.6	Mauritania	49.5	52.3	-2.8	9.09	63.5	-3.0	64.2	66.4	-2.2	68.3	68.1	0.2	70.1	71.2	-1:1	0.50
a 45.7 50.2 -45 55.9 61.6 -5.7 55.9 63.5 -7.7 61.2 metand 35.0 52.3 -17.3 64.7 62.0 2.7 65.0 63.2 1.8 70.0 se al 46.5 46.1 0.4 60.4 55.8 3.5 61.9 60.3 1.6 67.1 Leone 40.3 47.0 -6.7 53.1 55.0 -1.9 52.7 55.8 -3.0 56.6	Niger	42.2	40.3	1.8	48.1	44·1	4.0	52.3	46.1	6.2	61.3	49.3	12.0	63.5	53.5	10.0	0.17
mekand 35.0 52.3 -17.3 64.7 62.0 2.7 65.0 63.2 1.8 70.0 be labeled as the foliation of the	Nigeria	45.7	50.2	-4.5	55.9	9.19	-5.7	6-55	63.5	-7.7	61.2	9.79	-6.4	0.59	71-4	-6.4	0.50
al 46.5 46.1 0.4 60.4 56.8 3.5 61.9 60.3 1.6 67.1 Leone 40.3 47.0 -6.7 53.1 55.0 -1.9 52.7 55.8 -3.0 56.6	São Tomé and Príncipe	35.0	52.3	-17.3	64.7	62.0	2.7	0-29	63.2	1.8	20.0	67.1	2.8	72.2	71.5	2.0	0.51
Leone 403 47.0 -6.7 53.1 55.0 -1.9 52.7 55.8 -3.0 56.6	Senegal	46.5	46.1	0.4	60.4	56.8	3.5	61.9	60.3	1.6	67.1	63.2	3.9	68.2	9.29	9.0	0.41
	Sierra Leone	40.3	47.0	2-9-	53.1	55.0	-1.9	52.7	55.8	-3.0	9.95	9.65	-3.0	62.1	0.59	-2.8	98:0
44.8 45.6 -0.8 59.4 59.3 0.1 58.4 61.6 -3.2 61.4	Togo	8:44	45.6	8.0	59.4	59.3	0.1	58.4	9.19	-3.2	61.4	63.5	-2.1	0.99	9.29	-1.6	0.41

Table 3: Female life expectancy (estimated, expected based on SDI, and their difference) for 1950, 1990, 2000, 2010, and 2021, and SDI in 2021, globally and for GBD super-regions, regions, countries, and territories

																2021
	Estimated life expectancy	Expected life expectancy	Difference	ı												
Global	46.7	61.4	-14.6	63.0	6.99	-3.9	64.8	6.79	-3·1	0.89	8.89	8.0-	0.69	6.69	6.0-	0.67
Central Europe, eastern Europe, and central Asia	57-3	6.99	9.6-	64.8	69.3	-4.5	62.9	70.3	4.7-	66.2	71.8	-5.6	67.4	73.4	-5.9	0.77
Central Asia	45.9	64.0	-18.1	64.0	9.79	-3.6	63.2	68.1	6-4-9	66.3	69.2	-2.9	67.4	6.69	-2.4	0.68
Armenia	46.5	64.7	-18.3	67.3	67.4	-0.1	69.3	68.1	1.2	70.5	2.69	8.0	71.3	71.0	0.4	0.70
Azerbaijan	35.1	63.2	-28.1	62.7	68.4	-5.7	64.1	68.1	0.4-	67.2	69.5	-2.3	0.79	70.7	-3.6	0.69
Georgia	48.3	67.5	-19.2	65.2	2.69	4.4	65.5	69.1	-3.6	2.79	70.1	-2.5	67.3	72.0	7-4-7	0.73
Kazakhstan	52.5	64.6	-12.0	63.2	68.3	-5.1	59.4	69.4	-10.0	63.1	70.4	-7.3	65.3	71.5	-6.1	0.73
Kyrgyzstan	44.6	64.4	-19.8	62.5	8.99	-4·3	9.29	67.4	8-4-8	65.2	9.79	-2.4	68.4	2.89	-0.3	09.0
Mongolia	36.8	57.7	-20.9	8.65	65.2	-5.5	9.09	6.99	-6.3	9.29	0.89	-5.4	65.7	6.89	-3.2	0.62
Tajikistan	39.3	58.0	-18.7	63.7	65.2	-1.6	64.7	64.9	-0.2	6.79	0.99	1.9	6.99	0.29	-0.1	0.54
Turkmenistan	44.3	8.59	-19.6	62.6	8.79	-5.2	62.3	8.79	-5.5	9-59	0.69	-3.4	64.3	70.4	-6.1	0.68
Uzbekistan	47.3	61.1	-13.8	66.1	66.4	-0.3	65.7	9.79	-1.9	68.1	8.89	7.0-	6.69	69.4	0.5	99.0
Central Europe	54.6	65.7	-11.1	6.99	69.2	-2·3	69.1	70.8	-1.7	71.7	72.7	-1.0	71-3	74-4	-3.2	0.80
Albania	49.5	60.3	-10.8	8.69	67.7	2.1	71.9	68.2	3.7	75.7	2.69	6.1	73.6	71.0	5.6	0.71
Bosnia and Herzegovina	45.6	26.7	-11.2	9.02	67.3	3.3	72.7	9.89	4.1	74·3	70.3	4.0	72.6	71.6	6.0	0.72
Bulgaria	55.3	65.1	8.6-	9.99	69.2	-2.6	9.99	70.3	-3.7	2.89	71.8	-3:1	66.4	73.4	6.9-	0.77
Croatia	48.9	65.4	-16.5	68.1	70.0	-1.9	70.9	71.0	-0.1	73-7	73.0	7.0	74·1	74.7	-0.5	0.80
Czechia	63.9	0.89	-4.1	9.29	70.3	-2.7	71.7	73-4	-1.7	74.6	75.1	-0.5	74.4	75.9	-1.5	0.83
Hungary	57.7	66.4	-8.7	65.2	69.5	4.4	67.5	71.3	-3.8	70.8	73.2	-2.4	6.02	74.2	-3.3	0.79
Montenegro	64.7	64.9	-0.2	71.5	70.1	1.4	71.0	70.1	8.0	72.6	72.4	0.2	8-69	74-4	7-4-7	0.80
North Macedonia	50.4	63.2	-12.8	68.3	9.89	-0.3	69.3	69.3	-0.1	71.3	71.0	0.3	69.2	72.6	-3.4	0.75
Poland	53.1	66.1	-13.0	9.99	0.69	-2.4	2.69	71.0	-1.3	72.1	73-2	-1.0	71.8	75.1	-3.2	0.81
Romania	57.8	62.8	-5.0	9.99	6.89	-2·3	2.79	6.69	-2.2	70.0	71.6	-1.6	69.2	73-4	-4.1	0.77
Serbia	46.3	9.59	-19·3	67.3	69.1	-1.8	9.89	8.69	-1.2	71.7	72.2	4.0-	71.7	74-4	-2.8	0.79
Slovakia	2.09	6.99	-6.2	2.99	2.69	-3.0	69.4	72.0	-2.6	71.9	74.0	-2.1	71-3	75·1	-3.8	0.81
Slovenia	53.0	2.79	-14·7	70.1	71.8	-1.7	72.4	73.8	-1.4	76.3	75.5	7.0	9.77	26.5	1.1	0.84
Eastern Europe	61.7	9:29	-5.9	64.5	6.69	-5.4	60.4	20.8	-10.4	63.7	72.7	0.6-	8-59	74.9	0.6-	0.80
Belarus	63.8	65.7	-1.9	66.3	6.89	-2.6	63.3	6.69	9.9-	9.49	72.0	-7.3	0.99	74.0	-8.0	0.78
Estonia	62.1	2.79	9.5-	64.7	70.1	-5.4	9.59	72.2	9.9-	71.0	74·7	-3.7	72.4	2.92	-4.2	0.84
Latvia	9.49	6.79	-3·3	64.4	70.3	-5.9	0.59	71.8	8-9-	0.89	74.7	9.9-	68.3	75.9	9.7-	0.83
Lithuania	62.2	66.4	-4.2	66.2	70.0	-3.8	2.99	71.5	-4.8	67.5	74.4	-7.0	69.2	77.2	-8.0	98.0
Moldova	49.2	65.1	-15.9	9.49	9.89	-4.0	0.59	6.89	-3.9	9.59	70.0	4.4	6.79	71.8	-3.9	0.73
Russia	6.09	2.79	8.9-	64.0	70.0	0.9-	59.3	71.1	-11.8	65.9	73.2	-10.3	65.5	75·1	9.6-	0.81
Ukraine	64.7	67.5	-2.8	65.7	69.4	-3.8	62.3	70.0	7.7-	65.7	71.5	-5.7	66.3	73.0	2-9-	92.0
High income	6.19	68.2	-6.3	72.7	72.6	0.2	75.2	74.2	1.0	7:17	75·3	2.4	6.77	77.0	6.0	0.85
Australasia	0.79	6.79	6.0-	73.6	71.8	1.8	8-92	73.6	3.2	9.62	74.9	4.7	81.2	2.92	4.6	0.85
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Handle H		e c															2021
Name		Estimated life expectancy		Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy		Difference	اما
646 676 176 777 777 <td>Continued from</td> <td>n previous page</td> <td>0</td> <td></td>	Continued from	n previous page	0														
644 518. 417. 734 744 710 733 749 716 749 716 749 740 </td <td>New Zealand</td> <td>9.89</td> <td>9.29</td> <td>1.0</td> <td>72.6</td> <td>72.6</td> <td>-0.1</td> <td>74.0</td> <td>0.92</td> <td>-2.0</td> <td>75.1</td> <td>0.62</td> <td>-3.9</td> <td>8-92</td> <td>80.7</td> <td>0-4-0</td> <td>0.85</td>	New Zealand	9.89	9.29	1.0	72.6	72.6	-0.1	74.0	0.92	-2.0	75.1	0.62	-3.9	8-92	80.7	0-4-0	0.85
44 486 117 699 696 0.3 715 718 719	High-income Asia Pacific	66.4	51.8	14.7	73·4	74-4	-1.0	75-3	6.92	-1.6	76.5	79.4	-2.8	77.8	81.8	-4.1	0.88
64 539 75 74 75	Brunei	61.4	48.6	12.7	6.69	9.69	0.3	71.5	72.8	-1.3	73.6	74.6	-1.0	75.1	74.9	0.2	0.81
956 648 749 759 749 759 849 444 770 883 444 770 883 444 770 883 444 770 883 444 770 883 444 770 883 448 770 883 645 783 784 <td>Japan</td> <td>67.4</td> <td>59.9</td> <td>7.5</td> <td>74.2</td> <td>76.2</td> <td>-2.0</td> <td>75.7</td> <td>78.0</td> <td>-2.3</td> <td>2.92</td> <td>6.62</td> <td>-3.4</td> <td>9.77</td> <td>82.2</td> <td>-4.6</td> <td>0.87</td>	Japan	67.4	59.9	7.5	74.2	76.2	-2.0	75.7	78.0	-2.3	2.92	6.62	-3.4	9.77	82.2	-4.6	0.87
15.7 30.1 77.5 78.5 66.0 7.5 78.4 78.5 78.6 78.4 78.6 78.6 78.7	Singapore	9.85	53.8	4.8	70.4	73.0	-2.6	73-4	8-9/	-3.4	75.9	80.3	4.4	77.0	93.6	L-6-7	98.0
63 63 73 73 73 74 744 70 759 766 759 766 759 766 759 766 759 766 759 766 759 766 759 766 759 769	South Korea	57.7	30.1	27.5	70.5	0.89	2.5	74.0	72.6	1.4	26.5	77.2	7.0-	78.1	80.3	-2.1	0.89
646 723 738 741 -03 753 766 -13 765 752 752 753 763 763 764 765 753 765 753 764 763 764 763 764 763 764 763 764 764 763 764 764 763 764 764 763 764 764 763 764 764 763 764 764 764 764 764 764 764 764 <td>ligh-income Iorth America</td> <td>8.89</td> <td>65.5</td> <td>3.3</td> <td>73.2</td> <td>72.3</td> <td>6.0</td> <td>74.4</td> <td>74.4</td> <td>0.0</td> <td>75.9</td> <td>9.92</td> <td>-0.7</td> <td>77-4</td> <td>74.8</td> <td>5.6</td> <td>98.0</td>	ligh-income Iorth America	8.89	65.5	3.3	73.2	72.3	6.0	74.4	74.4	0.0	75.9	9.92	-0.7	77-4	74.8	5.6	98.0
649 469 469 470 469 57 449 655 57 449 655 57 479 655 57 479 655 57 479 655 57 774 775 774 774 477 658 685 682 682 682 693 11 784 785 355 724 784 785 365 787 785 365 784 787 785 367 784 787 784 785 784 787 784 787 784 787 784 787 787 784 787 784 787	Canada	6.89	9.99	2.3	73.8	74·1	-0.3	75·3	9.9/	-1.3	76.5	79.2	-2.6	77.8	79.5	-1.8	0.87
648 655 33 732 731 732 732 733 732 733 732 734 743 743 743 743 743 743 743 743 743 743 743 743 743 744 743 743 744 743 743 744 744 743 743 744	Greenland	6.79	46.9	21.0	71.8	62.4	9.4	72.2	66.5	5.7	74.9	9.5	5.3	76.1	71-4	4.7	0.83
644 588 66 682 693 714 291 703 735 735 736 737 736 737 736 737 736 736 737 736 737 736 737 736 736 737 736 736 736	USA	8.89	65.5	3.3	73.2	72.1	1:1	74.4	74·2	0.3	75.7	26.3	9.0-	77-4	74.3	3.1	98.0
647 615 616 618 609 609 709 709 710 720 <td>outhern Latin merica</td> <td>65.4</td> <td>58.8</td> <td>9.9</td> <td>68.2</td> <td>69.3</td> <td>-1.1</td> <td>69.3</td> <td>71.4</td> <td>-2.1</td> <td>70.3</td> <td>73.5</td> <td>-3.2</td> <td>72.4</td> <td>73.8</td> <td>-1.4</td> <td>0.74</td>	outhern Latin merica	65.4	58.8	9.9	68.2	69.3	-1.1	69.3	71.4	-2.1	70.3	73.5	-3.2	72.4	73.8	-1.4	0.74
444 506 138 683 793 741 444 710 759 <td>Argentina</td> <td>65.7</td> <td>61.5</td> <td>4.2</td> <td>68.2</td> <td>6.89</td> <td>-0.7</td> <td>69.3</td> <td>70.5</td> <td>-1.2</td> <td>0.07</td> <td>72.6</td> <td>-2.6</td> <td>72.0</td> <td>73.0</td> <td>-1.0</td> <td>0.72</td>	Argentina	65.7	61.5	4.2	68.2	6.89	-0.7	69.3	70.5	-1.2	0.07	72.6	-2.6	72.0	73.0	-1.0	0.72
656 638 138 681 694 -13 690 799 -19 699 789 789 789 789 789 699 789 789 789 789 699 789 789 789 699 789 689 689 689 689 689 889 889 889 489 789 <td>Chile</td> <td>64.4</td> <td>9.05</td> <td>13.8</td> <td>68.2</td> <td>70.3</td> <td>-2.1</td> <td>2.69</td> <td>74·1</td> <td>-4·4</td> <td>71.0</td> <td>75.9</td> <td>-5.0</td> <td>73.4</td> <td>76.1</td> <td>-2.8</td> <td>0.77</td>	Chile	64.4	9.05	13.8	68.2	70.3	-2.1	2.69	74·1	-4·4	71.0	75.9	-5.0	73.4	76.1	-2.8	0.77
682 645 347 724 730 -06 740 756 -16 753 753 754 754 756 -16 753 753 756 -26 750 <td>Uruguay</td> <td>9.59</td> <td>63.8</td> <td>1.8</td> <td>68.1</td> <td>69.4</td> <td>-1.3</td> <td>0.69</td> <td>70.9</td> <td>-1.9</td> <td>6.69</td> <td>72.8</td> <td>-2.9</td> <td>71.5</td> <td>72.0</td> <td>9.0-</td> <td>0.72</td>	Uruguay	9.59	63.8	1.8	68.1	69.4	-1.3	0.69	70.9	-1.9	6.69	72.8	-2.9	71.5	72.0	9.0-	0.72
86 712 -26 736 728 739 739 739 739 739 739 739 739 739 739 739 739 739 739 739 731 730 739 731 739 739 739 739 739 739 739 739 739 739 739 739 730	/estern Europe		64.5	3.7	72.4	73.0	9.0-	74.0	75.6	-1.6	75·3	78.5	-3.2	8.92	79.4	-2.6	0.85
686 686 686 686 686 686 686 686 686 686 687 786 787 787 779 779 789 23 23 242 243 243 447 410 783 775 779 770 793 23 23 647 789 789 789 23 789	Andorra	9.89	71.2	-2.6	73.0	75.8	-2.8	73.8	77.2	-3.4	26.3	79.2	-2.8	9.77	80.7	-3:1	0.87
680 633 47 72 73 43 74 40 53 75 75 75 76 73 75 7	Austria	68.5	9.89	4.9	72.6	72.4	0.2	74·2	75·3	-1:1	75.7	6.77	-2.2	77.0	79.2	-2.3	0.85
647 561 87 643 724 441 18 751 751 751 751 751 752 751 752 751 752 752 753 743 741 174 774 774 774 774 774 774 774 774 774 774 774 775 752 753 774 774 774 774 774 774 774 774 774 774 774 775 753 753 774 774 774 775 753 754 775	Belgium	0.89	63.3	4.7	72.2	72.7	-0.5	73.8	74.7	-1.0	75·3	77.5	-2.2	77.0	79.3	-2.3	0.85
692 695 695 695 695 697 73 74 <	Cyprus	64.7	56.1	8.7	69.5	72.6	-3·1	72-4	74·1	-1.8	75·1	77.2	-2.1	76.1	79.2	-3·1	0.84
678 607 7.1 7.2 7.1 7.2 7.2 7.2 7.4 6.2 7.5 7.1 7.2 <td>Denmark</td> <td>69.2</td> <td>69.5</td> <td>-0.2</td> <td>74.7</td> <td>72·3</td> <td>2.3</td> <td>76·3</td> <td>74.7</td> <td>1.7</td> <td>77.4</td> <td>77-4</td> <td>0.0</td> <td>78.5</td> <td>79.5</td> <td>-1.0</td> <td>0.90</td>	Denmark	69.2	69.5	-0.2	74.7	72·3	2.3	76·3	74.7	1.7	77.4	77-4	0.0	78.5	79.5	-1.0	0.90
673 645 28 718 736 736 737 -17 749 781 -32 763 796 -32 693 644 50 753 721 32 788 753 15 779	Finland	8.29	2.09	7.1	72.7	71.2	1.6	74·2	74.4	-0.2	75.7	77·1	-1.4	77.2	79.5	-2.3	98.0
693 644 50 753 754 753 754 759 759 779 779 779 779 779 789	France	67.3	64.5	2.8	71.8	73.0	-1.2	73.6	75·3	-1.7	74.9	78·1	-3.2	26.3	9.62	-3.2	0.84
665 678 678 679 739 739 736 739 736 739 730 730 730 730 730 730 <td>Germany</td> <td>69.3</td> <td>64.4</td> <td>2.0</td> <td>75·3</td> <td>72.1</td> <td>3.2</td> <td>8-9/</td> <td>75·3</td> <td>1.5</td> <td>77.9</td> <td>6.77</td> <td>0.0</td> <td>78.9</td> <td>78.5</td> <td>0.4</td> <td>0.90</td>	Germany	69.3	64.4	2.0	75·3	72.1	3.2	8-9/	75·3	1.5	77.9	6.77	0.0	78.9	78.5	0.4	0.90
678 690 -12 732 759 -27 749 783 -34 763 800 -37 778 823 -46 681 681 650 31 715 722 -68 736 759 756 759 759 759 759 750	Greece	66.5	8.79	-1.2	70.1	74.7	-4.6	72.0	75.9	-3.9	73.6	8.77	-4.2	74·2	77.2	-3.0	0.79
681 650 31 715 722 -08 738 440 -02 759 786 -26 778 808 -30 665 722 -57 711 755 -43 726 763 736 793 656 750 793 657 749 803 -56 ung 659 652 1.7 716 726 756 750	Iceland	8.29	0.69	-1.2	73·2	75.9	-2.7	74.9	78.3	-3.4	26.3	80.0	-3.7	77.8	82.3	-4.6	0.88
665 72.2 -57 71.1 75.5 -43 72.6 76.9 73.6 73.7 73	Ireland	68.1	65.0	3.1	71.5	72.2	8.0-	73.8	74.0	-0.2	75.9	9.8/	-2.6	77.8	80.8	-3.0	0.87
ug 69.4 65.2 1.7 71.0 73.7 72.0 76.5 73.9 73.8 79.3 75.5 74.9 80.3 54.4 ug 69.4 63.5 60.0 73.8 71.6 75.0 75.0 77.0 78.5 71.5 77.0 78.5 77.1 78.7 79.0 65.0 77.2 78.3 77.1 78.3 77.1 78.3 77.1 78.3 77.1 78.3 78.2 <td>Israel</td> <td>999</td> <td>72.2</td> <td>-5.7</td> <td>71.1</td> <td>75.5</td> <td>-4.3</td> <td>72.6</td> <td>8.9/</td> <td>-4.2</td> <td>73.6</td> <td>80.1</td> <td>-6.5</td> <td>75.1</td> <td>81.2</td> <td>-6.1</td> <td>0.81</td>	Israel	999	72.2	-5.7	71.1	75.5	-4.3	72.6	8.9/	-4.2	73.6	80.1	-6.5	75.1	81.2	-6.1	0.81
ug 694 635 60 738 716 75 750 750 770 785 -15 770 785 -15 770 783 -15 770 780 -15 770 780 -15 770 780 -15 771 783 771 783 783 783 783 780	Italy	6.99	65.2	1.7	71.0	73-7	-2.7	72.6	2.9/	-3.9	73.8	79·3	-5.5	74.9	80.3	-5.4	0.81
634 646 -1.2 697 74.1 -44 71.1 763 -5.1 727 790 -6.2 747 813 -6.6 6.8 759 1.1 763 -5.1 72.1 72.1 72.1 72.1 72.2 72.1 72.2 72.1 72.2 72.1 72.2 72.1 72.2 72.1 72.2 72.1 72.2 72.2	Luxembourg	69.4	63.5	0.9	73.8	71.6	2.2	75.5	75.0	0.5	77.0	78.5	-1.5	78·1	80.4	-2.2	0.88
rds 640 65 765 767 759 17 783 771 1.2 791 763 2.8 rds 695 760 -1.1 744 738 66 759 759 779 779 789 -1.6 783 738 -1.5 rds 730 744 737 68 760 67 779 779 790 -1.0 793 81.7 -2.4 rd 636 779 784 -1.3 779 770 -6.0 724 784 -6.1 rd 638 694 -0.1 753 779 779 805 -2.6 781 844 -6.2 rd 644 596 48 692 733 -75 772 789 -68 789 -69 -69 -69 -69 -69 -69 -69 -69 -69 -69 -69 -69 -69 -69 -69	Malta	63.4	9.49	-1.2	2.69	74·1	-4.4	71.1	26.3	-5·1	72.7	0.62	-6.2	74·7	81.3	9.9-	0.80
nds 695 706 -1.1 744 73.8 0.6 75.9 75.5 0.4 77.2 78.8 -1.6 78.3 79.8 -1.5 -1.5 (9.8 7.5) 1.0 (9.8 7.	Monaco	70.5	64.0	6.5	2.9∠	74.7	1.8	9.77	75.9	1.7	78.3	77·1	1.2	79.1	26.3	2.8	0.91
69.7 70.6 -1.0 744 73.7 0.8 76.5 76.0 0.5 77.9 79.0 -1.0 79.3 81.7 -2.4 (83.6 55.9 77.7 68.5 70.6 -1.3 77.2 78.4 -1.3 77.9 80.5 -2.6 78.1 84.4 -6.2 64.4 59.6 4.8 69.2 73.3 -4.1 70.7 75.9 -5.2 78.9 -6.8 73.4 79.9 -6.6	Netherlands	69.5	9.02	-1.1	74.4	73.8	9.0	75.9	75.5	0.4	77.2	78.8	-1.6	78·3	8.62	-1.5	0.89
63.6 55.9 7.7 68.5 70.6 -2.1 69.8 73.3 -3.5 71.0 77.0 -6.0 72.4 78.5 -6.1 10 69.3 69.4 -0.1 75.3 76.6 -1.3 77.2 78.4 -1.3 77.9 80.5 -2.6 78.1 84.4 -6.2 64.4 59.6 4.8 69.2 73.3 -4.1 70.7 75.9 -5.2 72.2 78.9 -6.8 73.4 79.9 -6.6	Norway	2.69	9.02	-1.0	74.4	73-7	0.8	26.5	0.9/	0.5	77.9	0.62	-1.0	79.3	81.7	-2.4	0.92
arino 69:3 69:4 -0.1 75:3 76:6 -1:3 77:2 78:4 -1:3 77:9 80:5 -2:6 78:1 84:4 -6:2 64:4 59:6 4:8 69:2 73:3 -4:1 70.7 75:9 -5:2 72:2 78:9 -6:8 73:4 79:9 -6:6	Portugal	9.69	55.9	7.7	9.89	9.02	-2.1	8.69	73·3	-3.5	71.0	77.0	0.9-	72.4	78.5	-6.1	0.74
644 59-6 4-8 69-2 73-3 -4-1 70-7 75-9 -5-2 72-2 78-9 -6-8 73-4 79-9 -6-6	San Marino	69.3	69.4	-0.1	75·3	9.9/	-1.3	77.2	78.4	-1.3	77.9	80.5	-2.6	78.1	84.4	-6.2	0.89
	Spain	64.4	9.65	4.8	69.2	73·3	-4.1	7.07	75.9	-5.2	72.2	78.9	8.9-	73-4	6.62	9.9-	0.77

																7071
	Estimated life expectancy	Expected life expectancy	Difference	1												
(Continued from previous page)	previous page															
Sweden	69.3	70-3	-1.0	74.0	75.0	-1.0	76.1	77.5	-1.4	77.2	8.62	-2.7	78.3	82.0	-3.6	0.89
Switzerland	72.6	2.99	6.5	77.4	74·3	3.0	78.1	77.3	8.0	79.1	80.5	-1.4	0.08	82.5	-2.5	0.93
UK	2.89	6.99	1.8	72.4	72.9	-0.5	74·2	75.4	-1.2	75.5	78.5	-3.0	77.2	78.2	-1.0	98.0
England	2.89	67.1	1.6	72.4	73·1	8.0-	74.2	75.7	-1.5	75.5	78.9	-3.4	77.2	78.4	-1.2	98.0
Northern Ireland	0.89	66.3	1.7	71.6	71-4	0.2	73.6	74.8	-1.3	74.9	77.5	-2.6	26.3	78.3	-1.9	0.84
Scotland	68.5	65.7	2.8	72.4	71.1	1.3	74.2	73-3	6.0	75.5	76.3	8.0	77.0	76.3	0.7	0.85
Wales	68.1	66.3	1.8	71.1	72.9	-1.8	73.0	75.0	-2.0	74·2	6.77	-3.6	76.1	78.7	-2.6	0.83
Latin America and Caribbean	55.7	47.9	7.8	66-3	2.99	-0-4	67.4	2-69	-2·3	68.4	70.7	-2·3	69.4	6.89	0.5	0.65
Andean Latin America	56.7	40.4	16.3	66.3	9.99	-0.3	67.3	71.1	-3.9	68.3	73.9	-5.6	2.69	68.3	1:3	0.65
Bolivia	53.7	36.3	17.4	8.59	60.4	3.5	65.9	65.4	0.5	67.3	69.4	-2.2	9.89	8.59	4.8	09.0
Ecuador	58.9	49.9	0.6	8.99	8.69	-3.0	67.4	71.4	-4.0	68.3	71.9	-3.6	6.69	71.0	-1.1	99.0
Peru	26.7	39.1	17.6	99.5	67.3	-0.7	67.5	73·1	-5.6	9.89	26.7	-8.1	8.69	8.89	1.0	99.0
Caribbean	58.9	52.8	6.1	8.99	0.99	0.8	9.29	68.2	-0.7	9.89	59.1	9.5	69.3	6.99	2.5	0.64
Antigua and Barbuda	58.9	54.8	4·1	8.89	70.5	-1.7	8.69	72.1	-2.3	71.1	73·3	-2.2	72.6	73.0	4.0-	0.75
The Bahamas	9.59	54.8	10.8	70.7	2.79	3.0	72.2	2.79	4.4	73.6	9.69	4.0	74.9	66.1	∞ ∞.	0.81
Barbados	63.4	51.0	12.4	2.69	71-3	-1.7	70.3	72.4	-2.1	71-3	74·7	-3.4	72.4	74.4	-2.0	0.75
Belize	56.1	53·3	2.8	8.59	71.7	-7.8	66.3	2.99	-0.5	2.79	71.0	-3·3	2.89	70.5	-1.8	0.61
Bermuda	9.89	61.4	2.2	70.7	69.3	1.4	72.0	74·1	-2.1	74·2	9.92	-2.4	75.5	75.6	-0.1	0.82
Cuba	61.6	0.59	-3.4	2:29	73.0	-5.3	8.79	74.9	-7.1	8.89	76.2	-7.4	70.0	6.07	6.0-	29.0
Dominica	61.6	45.6	16.0	2.79	69.1	-1.4	69.4	70.1	2.0-	70.8	70.4	0.4	72.4	67.4	4.9	0.75
Dominican Republic	46.0	53.5	-7.5	64.4	69.3	-4.9	66.1	9.02	4.4	6.79	71.5	-3.6	6.89	70.5	-1.6	0.62
Grenada	52.2	54.6	-2.4	64.4	9.29	-3.2	67.3	2.79	-0.4	8.89	68.2	9.0	70.0	67.3	2.7	29.0
Guyana	56.4	49.5	6.9	65.1	60.3	4.8	0.29	62.2	4.9	68.1	63.3	4.8	9.69	61.1	8.4	0.65
Haiti	49.1	35.2	13.9	58.0	53.2	4.8	61.1	57.2	3.9	63.2	35.4	27.8	64.7	58.8	0.9	0.45
Jamaica	8.09	54.5	6.3	67.1	73.9	2-9-	68.4	72.7	-4·3	69.3	74.6	-5.2	70.4	72.0	-1.6	0.68
Puerto Rico	62.8	29.7	3.1	8.69	8-69	0.0	71.1	72.6	-1.5	73.0	75.8	-2.8	75.7	9-9/	6.0-	0.83
Saint Kitts and Nevis	59.5	56.5	3.0	68.1	65.8	2.3	69.4	69.1	0.3	71.5	70.0	1.5	73.0	68.5	4:4	0.75
Saint Lucia	55.7	50.1	5.7	66.1	9.29	-1.5	68.1	70.2	-2.1	69.2	72·3	-3:1	70.0	2.69	0.3	0.67
Saint Vincent and the Grenadines	54.7	50.4	4.3	9.59	68.2	-2.6	67.1	8.89	-1.6	68.2	71.1	-2.9	69.3	2.69	4.0-	0.64
Suriname	55.7	8-95	-1.1	66.4	66.3	0.1	67.4	0.79	0.3	68.5	69.2	-0.7	69.3	67.5	1.8	0.63
Trinidad and Tobago	62.3	9.99	5.7	0.69	0.29	2.0	70·1	0.89	2.2	72.0	9.02	1.4	73·4	9.29	5.8	0.77
Virgin Islands	64.6	58.8	5.8	2.69	69.2	0.5	71.1	70.1	1.1	74.2	71.5	2.7	75.5	71-3	4.2	0.82

Editional Difference Editional Especial Editi																	2021
Sign 1		Estimated life expectancy		Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy		Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	ا م
551 485 756 659 679 421 701 708 456 726 449 629 727 727 727 449 629 726 727 <td>Continued from</td> <td>n previous page</td> <td></td>	Continued from	n previous page															
57. 53.9 65.0 53.9 65.0 53.9 65.0 53.9 65.0 53.9 65.0 53.9 65.0 53.9 65.0 53.9 65.0 53.9 65.0	Central Latin	56.1	48.5	9.2	6-29	6.79	-2.1	67.1	8.02	-3.6	68.2	72.6	4.4	69.4	68.3	1:1	0.64
950 554 264 764 765 755 745 765 <td>Colombia</td> <td>55.7</td> <td>53.3</td> <td>2.5</td> <td>65.9</td> <td>68.2</td> <td>-2.4</td> <td>0.79</td> <td>70.5</td> <td>-3.4</td> <td>68.2</td> <td>75.0</td> <td>8.9-</td> <td>2.69</td> <td>72.6</td> <td>-3.0</td> <td>99.0</td>	Colombia	55.7	53.3	2.5	65.9	68.2	-2.4	0.79	70.5	-3.4	68.2	75.0	8.9-	2.69	72.6	-3.0	99.0
495 487 588 645 683 -37 664 710 -45 678 679 679 679 470 489 489 689 489 689 489 689 489 489 689 489 689 789 689 789 689 689 789 689 689 789 689 689 789 689 689 789 689 789 689 789 689 789 689 789 689 789 689 789 689 789 789 689 789 <td>Costa Rica</td> <td>58.0</td> <td>55.4</td> <td>5.6</td> <td>67.1</td> <td>74.8</td> <td>7.7-</td> <td>68.2</td> <td>75.5</td> <td>-7.3</td> <td>69.2</td> <td>7.97</td> <td>-7.5</td> <td>71.0</td> <td>74·3</td> <td>-3.3</td> <td>0.70</td>	Costa Rica	58.0	55.4	5.6	67.1	74.8	7.7-	68.2	75.5	-7.3	69.2	7.97	-7.5	71.0	74·3	-3.3	0.70
903 424 79 583 601 -18 613 -24 652 673 673 673 673 673 673 673 673 673 673 673 673 673 673 673 673 674 773 674 673 774 674 674 773 674 774 674 674 774 674 674 774 674 674 774 674 674 774 674 674 774 674 674 774 674 674 774 674 674 774 674 674 774 674 674 774 674 674 774 674	El Salvador	49.5	43.7	5.8	9.19	65.4	-3.8	9.49	68.3	-3.7	66.4	71.0	-4.5	8.79	6.29	-0.1	0.56
491 380 111 592 665 773 623 669 -67 649 770 -51 667 663 673 669 674 671 671 674 674 773 675 675 773 675 773 675 773 675 773 675 773 675 773 675 774 735 675 675 773 675 774 735 675 774 735 675 774 735 675 775 675 774 735 675 774 774 789 669 775 775 774 789 669 775 775 775 774 789 669 775 775 774 789 775 775 775 775 775 775 789 775 775 789 775 775 789 775 789 775 789 775 789 789 789 789 <td>Guatemala</td> <td>50.3</td> <td>42.4</td> <td>7.9</td> <td>58.3</td> <td>60.1</td> <td>-1.8</td> <td>61.8</td> <td>64.3</td> <td>-2.4</td> <td>65.2</td> <td>67.5</td> <td>-2.2</td> <td>0.79</td> <td>66.2</td> <td>6.0</td> <td>0.54</td>	Guatemala	50.3	42.4	7.9	58.3	60.1	-1.8	61.8	64.3	-2.4	65.2	67.5	-2.2	0.79	66.2	6.0	0.54
567 468 99 664 682 417 479 469 679	Honduras	49.1	38.0	11.1	59.2	99.2	-7.3	62.3	0.69	2-9-	64.9	70.0	-5.1	2.99	66.4	0.2	0.51
511 466 45 60 705 604 705 604 705 604 705 604 705 604 705 604 705 604 705 604 705 605 609 609 609 609 609 609 609 609 609 609 609 609 609 609 700 609 609 700 609 609 609 700 609 609 700	Mexico	26.7	46.8	6.6	66.4	68.2	-1.7	2.79	71.7	-4.0	68.5	72.4	-3.9	6.69	67.4	2.5	99.0
938 594 693 674 775 689 775 670 775 670 775 670 775 670 775 670 775 670 775 670 677 671 687 775 670 673 673 673 775 775 775 673 673 775 775 775 771 671 687 775 775 673 674 674 687 775 675 673 674 675 674 675 675 777 475 675 674 675 674 675 777 475 675 674 676 681 674 676 681 674 675 674 675 675 679 679 670 677 770 770 770 770 770 770 770 770 770 770 770 770 770 770 770 770 770 770 770 <td>Nicaragua</td> <td>51.1</td> <td>46.6</td> <td>4.5</td> <td>0.09</td> <td>70.5</td> <td>-10.5</td> <td>63.4</td> <td>73.2</td> <td>8-6-</td> <td>65.4</td> <td>74·3</td> <td>6.8-</td> <td>6.99</td> <td>6.69</td> <td>-3.0</td> <td>0.52</td>	Nicaragua	51.1	46.6	4.5	0.09	70.5	-10.5	63.4	73.2	8-6-	65.4	74·3	6.8-	6.99	6.69	-3.0	0.52
589 548 41 667 698 678 699 -19 685 714 29 689 679 693 679 771 -14 685 708 709 709 700 700 700 700 670	Panama	8-65	59.4	0.3	67.4	74.2	8.9-	68.3	75.5	-7.2	0.69	75.5	-6.5	71.0	75.5	-4.5	0.71
540 483 57 663 673 687 -15 685 709 -24 699 709 -70 673 687 -15 685 709 -24 699 670 731 681 703 703 695 700 700 700 557 471 412 656 737 641 667 731 681 703 723 695 609 700	Venezuela	58.9	54.8	4.1	2.99	69.5	-2.8	8.79	2.69	-1.9	68.5	71.4	-2.9	8.89	65.1	3.7	09.0
441 481 59 663 654 673 686 -14 685 708 -23 695 702 -97 455 413 656 737 613 674 663 674 663 727 -45 695 702 -97 495 413 82 644 653 664 674 -66 683 720 -725 695 695 90 90 411 385 27 478 878 57 579 -579 699 699 720 699 699 720 699 699 720 699 720	ropical Latin merica	54.0	48.3	5.7	66.3	8.59	0.5	67.3	2.89	-1.5	68.5	70.9	-2.4	69.5	70.2	9.0-	0.65
435 413 656 737 -81 670 731 -61 682 773 45 695 699	Brazil	54.0	48:1	6.5	66.3	9.59	2.0	67.3	9.89	-1.4	68.5	20.8	-2.3	9.69	70.2	7.0-	0.65
413 82 644 638 66 674 -0.6 681 703 -22 698 689 08 412 385 27 478 632 674 406 631 679 673 673 679	Paraguay	55.7	57:7	-1.9	9.59	73·7	-8.1	0.79	73·1	-6.1	68.2	72.7	-4.5	9.5	0.69	9.0	0.64
412 385 27 478 432 432 534 591 594 595 599 599 599 36 451 411 40 651 686 53 73 59 686 730 599 698 730 520 599 730	lorth Africa an Aiddle East		41.3	8.2	64.4	63.8	9.0	8.99	67.4	9.0-	68.1	70-3	-2.2	8.69	6.89	8.0	99.0
451 411 40 651 686 35 673 712 39 686 749 653 694 673 712 39 686 749 673 720 39 687 679 770	Afghanistan	41.2	38.5	2.7	47.8	52.5	7-4-7	48.2	53-3	-5.0	53.7	59.1	-5.4	59.5	6.55	3.6	0.34
256 699 17 682 679 684 686 699 710 730 720 730 720 689 699 710 730 730 730 730 730 689 689 740 684 664	Algeria	45.1	41.1	4.0	65.1	9.89	-3.5	67.3	71.2	-3.9	9.89	74.9	-6.3	8.69	72.1	-2.3	99.0
526 427 99 636 623 13 664 664 664 661 675 -13 686 669 17 478 357 121 649 658 -09 678 712 -34 693 740 -47 708 71 10 460 515 630 645 -15 651 665 -16 669 775 77 70	Bahrain	52.6	50.9	1.7	68.2	6.79	0.4	69.4	9.89	6.0	71.0	73.0	-2.0	73.0	72.2	8.0	0.75
478 357 121 649 658 712 34 693 740 47 708 719 -10 460 515 650 653 676 -16 669 685 145 70 71 </td <td>Egypt</td> <td>52.6</td> <td>42.7</td> <td>6.6</td> <td>9.69</td> <td>62.3</td> <td>1.3</td> <td>66.4</td> <td>66.4</td> <td>0.0</td> <td>66.1</td> <td>67.5</td> <td>-1.3</td> <td>9.89</td> <td>6.99</td> <td>1.7</td> <td>0.61</td>	Egypt	52.6	42.7	6.6	9.69	62.3	1.3	66.4	66.4	0.0	66.1	67.5	-1.3	9.89	6.99	1.7	0.61
460 515 55 630 645 -15 651 660 -16 669 685 -15 697 675 51 442 494 52 673 721 -49 683 742 -59 698 775 77 716 741 -25 586 509 77 70 72 72 77 716 741 -25 554 514 40 673 715 76 75 77 716 77 717 72	Iran	47.8	35.7	12.1	64.9	8.59	6.0-	8.79	71.2	-3.4	69.3	74.0	-4.7	8.07	71.9	-1.0	0.70
442 494 -52 673 721 -49 683 742 -59 698 775 -77 716 741 -55 586 509 77 701 724 -23 715 760 -45 740 791 -51 765 781 -16 554 514 40 670 659 11 681 78 -62 699 756 -58 781 -16 460 402 58 671 713 -41 693 78 756 78 78 79 78 79 78 79 78 79 78 79 78 79 78 79 78 79 78 79 78 79 78 79 78 79 78 79 78 79 78 79 79 79 79 79 79 79 79 79 79 79 79 79 <td< td=""><td>Iraq</td><td>46.0</td><td>51.5</td><td>-5.5</td><td>0.59</td><td>64.5</td><td>-1.5</td><td>65.1</td><td>9.99</td><td>-1.6</td><td>6.99</td><td>68.5</td><td>-1.5</td><td>2.69</td><td>67.5</td><td>2.1</td><td>99.0</td></td<>	Iraq	46.0	51.5	-5.5	0.59	64.5	-1.5	65.1	9.99	-1.6	6.99	68.5	-1.5	2.69	67.5	2.1	99.0
\$86 \$69 \$77 \$70.1 \$72.4 \$-23 \$71.5 \$70.0 \$75.0<	Jordan	44.2	49.4	-5.2	67.3	72·1	6.4-	68.3	74·2	-5.9	8.69	77.5	7.7-	71.6	74·1	-2.5	0.73
554 514 40 670 659 11 681 743 -62 699 756 -58 722 720 60 460 402 58 67 73 -41 693 728 -35 715 724 -09 720 687 33 406 386 60 60 666 -26 687 694 -07 711 706 67 709 73 92 442 380 61 640 666 -26 687 694 -07 711 706 67 709 724 451 442 380 61 62 71 669 70 71 706 707 72	Kuwait	9.85	50.9	7.7	70.1	72.4	-2·3	71.5	0.97	-4.5	74.0	79.1	-5.1	2.9∠	78·1	-1.6	0.85
460 402 58 671 713 -41 693 728 -35 715 724 -09 720 687 33 406 386 20 608 656 -56 634 692 -58 656 715 -60 677 709 32 442 380 61 660 -26 687 694 -07 711 706 67 709 724 451 413 38 628 672 -45 661 07 694 671 706 707 738 691 712 706 707 718 729	Lebanon	55.4	51.4	4.0	0.79	62.9	1.1	68.1	74·3	-6.2	6.69	75.6	-5.8	72.2	72.2	0.0	0.74
406 386 20 60.8 65.8 -5.0 634 69.2 -5.8 65.6 715 -6.0 677 709 -3.2 44.2 38.0 6.1 64.0 66.6 -2.6 68.7 69.4 -0.7 71.1 70.6 0.5 73.4 70.5 2.9 45.1 41.3 3.8 62.8 67.2 -4.5 65.1 66.8 -1.7 66.9 70.7 -3.8 69.1 71.5 -2.4 54.2 54.7 54.7 0.1 69.5 68.7 0.9 71.3 69.0 2.3 73.8 72.6 1.2 76.5 76.1 0.4 44.2 54.7 54.7 0.1 69.5 66.0 0.7 69.4 69.1 0.3 72.2 70.3 1.9 75.3 71.8 3.5 44.2 47.4 47.4 -3.2 56.7 56.7 0.0 60.0 61.5 -1.5 64.2 66.4 -2.2 67.3 66.3 1.0 44.2 52.1 -5.2 64.0 67.8 -3.8 66.4 70.4 -4.0 68.4 72.9 -4.5 69.0 70.1 -1.1 45.0 39.7 63 65.4 70.1 -4.7 67.7 71.8 -4.1 69.0 73.9 70.3 70.3 70.3 45.0 29.7 53.3 -3.4 69.4 69.4 0.0 73.0 70.1 -3.8 70.3 70.3 70.3 70.3 70.3 70.3 39.6 29.7 59.7 59.7 57.4 67.7 57.4 67.7 -4.4 62.5 66.3 -3.7 64.7 67.4 73.3	Libya	46.0	40.2	2.8	67.1	71-3	-4.1	69.3	72.8	-3.5	71.5	72.4	6.0-	72.0	2.89	3.3	0.73
He 44.2 38.0 6.1 64.0 66.6 -2.6 68.7 69.4 -0.7 71.1 70.6 0.5 73.4 70.5 2.9 2.9 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	Morocco	40.6	38.6	2.0	8.09	8-59	-5.0	63.4	69.2	-5.8	9-59	71.5	0.9-	2.79	6.02	-3.2	0.56
ne 45-1 413 3.8 62.8 67.2 45 65.1 66.8 -1.7 66.9 70.7 -3.8 69.1 71.5 -2.4 vabia 54.7 54.7 64.2 65.4 69.1 67.3 67.8 71.8 75.3 71.8 72.4 vabia 50.7 52.6 -1.9 65.7 60.6 61.5 -1.5 64.2 66.4 72.2 70.3 73.9 73.8 73.8 73.8 73.9 73.8 73.8 73.9 73.8 73.8 73.9	Oman	44.2	38.0	6.1	64.0	9.99	-2.6	2.89	69.4	-0.7	71.1	9.02	0.5	73-4	70.5	2.9	0.77
Arabia 50.7 54.7 64.7 69.5 68.7 69.9 71.3 69.0 23 73.8 72.6 1.2 76.5 76.1 0.4 Arabia 50.7 52.6 -1.9 66.6 0.7 69.4 69.1 0.3 72.2 70.3 1.9 75.3 71.8 9.4 44.2 47.4 -3.2 56.7 0.0 60.0 61.5 -1.5 64.2 66.4 72.9 -4.5 67.3 73.8 1.0 4.0 52.1 -5.2 64.0 67.8 70.4 -4.0 68.4 72.9 -4.5 69.0 70.1 -1.1 4.0 46.0 39.7 71.8 -4.1 69.0 73.9 -4.9 70.3 70.8 -0.6 5.3 41.3 12.0 65.1 64.4 0.7 71.8 72.9 72.9 72.9 72.9 72.9 72.9 72.9 72.1 72.1 72.9 72.1 72	Palestine	45·1	41-3	3.8	62.8	67.2	-4.5	65.1	8-99	-1.7	6.99	70.7	-3·8	69.1	71.5	-2.4	0.63
vabia 50.7 52.6 -1.9 67.3 66.6 0.7 69.4 69.1 0.3 72.2 70.3 1.9 75.3 71.8 35 44.2 47.4 -3.2 56.7 56.7 0.0 60.0 61.5 -1.5 64.2 66.4 -2.2 67.3 66.3 1.0 46.9 52.1 -5.2 64.0 67.8 -3.8 66.4 70.4 -40 68.4 72.9 -45 69.0 70.1 -1.1 46.0 39.7 63.4 70.1 -47 67.7 71.8 -41 69.0 73.9 -49 70.3 70.8 -0.6 5.3 41.3 12.0 65.1 64.4 0.7 67.1 69.3 -2.2 68.8 73.0 -42 71.1 72.3 -11 Anal 49.9 53.3 -3.4 69.4 60.7 70.1 2.8 75.9 72.3 71.1 72.3 -0.8	Qatar	54.7	54.7	0.1	9.69	2.89	6.0	71.3	0.69	2.3	73.8	72.6	1.2	2.92	76.1	0.4	0.85
442 474 -3-2 567 567 0·0 60·0 61·5 -1·5 664 7·2 664 6·2 6·3 6·3 6·3 1·0 4·9 6·9 52·1 -5·2 640 6·7 3·3 6·4 7·0 4 ·4·0 6·8·4 7·0 4 ·4·0 6·8·4 7·0 4 ·4·0 6·8·4 7·0 4 ·4·0 6·8·4 7·0 4 ·4·0 6·9·0 7·0 1·1 1·1 1·1 1·1 1·1 1·1 1·1 1·1 1·1 1	Saudi Arabia	20.7	52.6	-1.9	67.3	9.99	2.0	69.4	69.1	0.3	72.2	70·3	1.9	75·3	71.8	3.5	0.82
469 521 -52 640 678 -38 664 704 -40 684 729 -45 690 701 -11 460 397 63 654 701 -47 677 718 -41 690 739 -49 703 708 -0-6 533 413 120 651 644 0.7 671 693 -2.2 68.8 730 -42 711 723 -1.1 Analo 499 533 -34 694 694 0.0 730 70.1 2.8 75.9 723 3.6 76.8 775 -0-8 3 36 297 99 514 57.1 -57 574 61.7 -44 62.5 66.3 -3.7 64.7 624 23	Sudan	44.2	47.4	-3.2	26.7	26.7	0.0	0.09	61.5	-1.5	64.2	66.4	-2.2	67.3	66.3	1.0	0.54
460 397 63 654 70·1 -47 677 71·8 -41 69·0 73·9 -49 70·3 70·8 -0·6 53·3 41·3 12·0 65·1 64·4 0·7 67·1 69·3 -2·2 68·8 73·0 -4·2 71·1 72·3 -1·1 73·4 44·9·9 53·3 -3·4 69·4 69·4 0·0 73·0 70·1 2·8 75·9 72·3 3·6 76·8 77·5 -0·8 5 5 3 3·6 29·7 69·9 51·4 57·1 -5·7 57·4 61·7 -4·4 62·5 66·3 -3·7 64·7 62·4 2·3	Syria	46.9	52.1	-5.2	64.0	8.79	-3.8	66.4	70.4	-4.0	68.4	72.9	-4.5	0.69	70.1	-1.1	0.62
53.3 41.3 12.0 65.1 64.4 0.7 67.1 69.3 -2.2 68.8 73.0 -4.2 71.1 72.3 -1.1 Arab 49.9 53.3 -3.4 69.4 69.4 0.0 73.0 70.1 2.8 75.9 72.3 3.6 76.8 77.5 -0.8 S 39.6 29.7 9.9 51.4 57.1 -5.7 57.4 61.7 -4.4 62.5 66.3 -3.7 64.7 62.4 2.3	Tunisia	46.0	39.7	6.3	65.4	70.1	7-4-7	2.79	71.8	-4.1	0.69	73.9	-4.9	70·3	8.02	9.0-	0.68
Arab 49.9 53.3 -3.4 69.4 69.4 0.0 73.0 70.1 2.8 75.9 72.3 3.6 76.8 77.5 -0.8 s s 39.6 29.7 9.9 51.4 57.1 -5.7 57.4 61.7 -4.4 62.5 66.3 -3.7 64.7 62.4 2.3	Türkiye	53.3	41.3	12.0	65.1	64.4	2.0	67.1	69.3	-2.2	8.89	73.0	-4.2	71.1	72·3	-1:1	0.71
39-6 297 9-9 51-4 57-1 -5-7 57-4 61-7 -4-4 62-5 66-3 -3-7 64-7 62-4 2-3	United Arab Emirates	49.9	53.3	-3.4	69.4	69.4	0.0	73.0	70.1	2.8	75.9	72·3	3.6	8-9/	77.5	8.0	0.85
	Yemen	39.6	29.7	6.6	51.4	57.1	-5.7	57.4	61.7	-4.4	62.5	66.3	-3.7	64.7	62.4	2.3	0.45

Contact Experiment																	2021
March Marc		Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	Estimated life expectancy	Expected life expectancy	Difference	1
Mail	Continued from	previous page,	1														
422 445 445 54 574 574 645 642 644 681 675 644 675 644 675 644 681 675 645 645 645 675	south Asia	48.6	37.6	11.0	58.6	59.9	-1.3	62.1	63.0	6.0-	64.9	6-29	6.0-	2.79	66.4	1.3	0.56
363 370 -0.8 514 601 -87 574 655 81 658 706 779 656 494 354 364 131 592 600 673 676 679	Bangladesh	42.2	40.5	1.7	52.6	58.0	-5.4	57-4	9.89	-6.2	61.4	68.1	2-9-	66.1	9.02	-4.5	0.49
45 344 314 592 600 -0.8 625 631 -0.5 659 -0.6 681 447 476 411 583 624 624 625 654 659 -0.6 664 465 476 448 476 612 624 627 664 629 669 669 669 490 448 59 654 649 675 674	Bhutan	36.3	37.0	8.0-	51.4	60.1	-8.7	57.4	65.5	-8.1	62.8	9.02	-7.9	9.59	72.7	-7.1	0.47
412 370 411 503 576 473 557 642 659 679 673 674 642 664 679 674 <td>India</td> <td>49.5</td> <td>36.4</td> <td>13.1</td> <td>59.2</td> <td>0.09</td> <td>8.0</td> <td>62.5</td> <td>63.1</td> <td>-0.5</td> <td>65.2</td> <td>62.9</td> <td>9.0-</td> <td>68.1</td> <td>9.99</td> <td>1.5</td> <td>0.58</td>	India	49.5	36.4	13.1	59.2	0.09	8.0	62.5	63.1	-0.5	65.2	62.9	9.0-	68.1	9.99	1.5	0.58
448 448 448 448 459 642 642 643 643 643 644 643 644 643 644 643 644 643 644 644 644 644 644 644 644 644 644 645 644 645 644 645 644 647 644 648 644 644 644 644 644 <td>Nepal</td> <td>41.2</td> <td>37.0</td> <td>4.1</td> <td>50.3</td> <td>9.75</td> <td>-7.3</td> <td>55.7</td> <td>64.2</td> <td>-8.5</td> <td>9.09</td> <td>6.79</td> <td>-7.3</td> <td>64.2</td> <td>66.1</td> <td>-1.9</td> <td>0.43</td>	Nepal	41.2	37.0	4.1	50.3	9.75	-7.3	55.7	64.2	-8.5	9.09	6.79	-7.3	64.2	66.1	-1.9	0.43
97 448 59 644 645 674 677 674 773 779 779 771 774 774 774 774 774 774 774 774 774 774 774 775 779	Pakistan	46.5	47.6	-1.1	58.0	62.2	-4.2	61.6	62.3	7.0-	64.2	64.4	-0.2	66.4	63.8	5.6	0.50
491 463 463 36 654 658 -04 677 684 -07 695 719 -23 716 716 718	outheast Asia, ast Asia, and Oceania	20.7	44.8	5.9	65.4	64.9	0.5	67.5	67.4	0.1	69.1	70.4	-1.3	70.7	72.5	-1.8	0.70
491 474 17 651 654 654 654 654 654 654 654 654 654 654 674 683 71 679 674 675 774	ast Asia	49.9	46.3	3.6	65.4	65.8	-0.4	67.7	68.4	-0.7	69.5	71.9	-2.3	71.6	74.8	-3.2	0.73
Koral 589 185 404 661 668 -07 661 593 691 671 676 -04 679 Recold 570 575 13 700 722 -21 741 741 749 679 679 769 779 778 779 778 779 </td <td>China</td> <td>49.1</td> <td>47.4</td> <td>1.7</td> <td>65.1</td> <td>65.7</td> <td>9.0-</td> <td>67.4</td> <td>68.5</td> <td>-1:1</td> <td>69.3</td> <td>71.9</td> <td>-2.6</td> <td>71.5</td> <td>74.9</td> <td>-3.4</td> <td>0.72</td>	China	49.1	47.4	1.7	65.1	65.7	9.0-	67.4	68.5	-1:1	69.3	71.9	-2.6	71.5	74.9	-3.4	0.72
stand S70 S57 13 700 722 2.1 727 741 -14 757 769 -13 778 stand S18 468 50 623 611 12 638 628 10 644 639 689 12 779 779 779 779 770	North Korea	58.9	18.5	40.4	1.99	8.99	-0.7	66.1	59.3	6.9	67.1	9.79	-0.4	6.79	70.1	-2.2	0.57
518 468 50 613 613 613 613 613 613 613 613 613 614 613 614 613 614 613 614 613 614 613 614	Taiwan (province of China)	57.0	55.7	1.3	70.0	72.2	-2·1	72.7	74·1	-1.4	75.7	6.92	1:1	77.8	78.1	-0.3	0.87
nh 659 688 684 674 14 693 681 12 693 681 71 721 720 710 721 720 710 721 721 720 <td>ceania</td> <td>51.8</td> <td>46.8</td> <td>5.0</td> <td>62.3</td> <td>61.1</td> <td>1.2</td> <td>63.8</td> <td>62.8</td> <td>1.0</td> <td>64.4</td> <td>63.9</td> <td>0.4</td> <td>65.2</td> <td>62.5</td> <td>2.7</td> <td>0.47</td>	ceania	51.8	46.8	5.0	62.3	61.1	1.2	63.8	62.8	1.0	64.4	63.9	0.4	65.2	62.5	2.7	0.47
45 595 464 130 678 664 14 692 698 -06 711 721 -10 738	American Samoa	6-59	8.09	5.0	8.89	67.4	1.4	69.3	68.1	1.2	6.69	9.89	1.2	71.0	69.3	1.7	0.72
1 4 5 4 4 5 8 5 4 4 4 6 5 1 6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Cook Islands	59.5	46.4	13.0	8.79	66.4	1.4	69.2	8.69	9.0-	71.1	72.1	-1.0	73.8	72.9	6.0	0.78
574 585 -11 671 639 33 683 634 49 689 654 35 70 678 659 659 19 703 721 -18 716 758 41 730 763 34 747 674 659 19 703 721 -18 716 758 41 730 763 364 769 <td< td=""><td>Federated States of Micronesia</td><td>52.9</td><td>41.5</td><td>11.4</td><td>65.1</td><td>9.09</td><td>4.6</td><td>99.5</td><td>61.6</td><td>2.0</td><td>67.5</td><td>63.4</td><td>4.1</td><td>68.3</td><td>64.5</td><td></td><td>0.59</td></td<>	Federated States of Micronesia	52.9	41.5	11.4	65.1	9.09	4.6	99.5	61.6	2.0	67.5	63.4	4.1	68.3	64.5		0.59
678 659 19 703 721 -18 716 758 -41 730 763 -34 747 554 440 114 632 564 68 646 573 72 657 592 659 669 526 440 114 632 564 68 646 573 72 657 592 659 669 668 668 678 678 678 679 679 669 678 679	ilir	57.4	58.5	-1.1	67.1	63.9	3.3	68.3	63.4	4.9	6.89	65.4	3.5	70.0	8.59	6.2	0.68
54 440 114 632 564 68 646 573 72 657 592 65 669 526 474 524 654 654 654 654 654 656 659 659 669 669 679 669 669 679	Guam	8.79	6-59	1.9	70.3	72.1	-1.8	71.6	75.8	-4.1	73.0	26.3	-3.4	74.7	73.5	1:1	0.80
526 474 51 640 596 44 654 654 605 49 667 614 53 679 625 575 576 673 576 118 673 556 116 690 595 513 82 682 658 24 691 654 37 704 669 35 716 690 37 710 18 679 35 716 690 37 710 18 727 710 18 727 710 18 727 710 18 727 710 710 727 710 710 727 710 727 710 710 727 710 727 710 727 710 727 <td>Kiribati</td> <td>55.4</td> <td>44.0</td> <td>11.4</td> <td>63.2</td> <td>56.4</td> <td>8.9</td> <td>9.49</td> <td>57-3</td> <td>7.2</td> <td>65.7</td> <td>59.2</td> <td>6.5</td> <td>6.99</td> <td>61.1</td> <td>2.8</td> <td>0.53</td>	Kiribati	55.4	44.0	11.4	63.2	56.4	8.9	9.49	57-3	7.2	65.7	59.2	6.5	6.99	61.1	2.8	0.53
6.5 575 675 676 673 581 9.2 66.8 56.8 570 11.8 673 55.6 11.6 690 1.0 59.5 51.3 8.2 68.2 65.8 2.4 69.1 65.4 3.7 70.4 66.9 3.5 70.6 69.1 71.1 71.1 71.1 71.1 71.1 71.1 71.1 7	Marshall Islands	52.6	47.4	5.1	64.0	9.65	4.4	65.4	9.09	4.9	2.99	61.4	5.3	6.79	63.4	4.5	0.57
446 622 24 713 701 715 715 715 715 716 717 716 717 717 717 718 718 718 719 719 719 719 719 719 719 719 719 719 719 719 719 711 719	Nauru	62.5	57.5	5.0	67.3	58.1	9.5	8.99	55.0	11.8	67.3	9.55	11.6	0.69	59.2	8.6	0.63
ends 646 622 24 713 701 12 721 711 16 727 710	Niue	59.5	51.3	8.2	68.2	8-59	2.4	69.1	65.4	3.7	70.4	6.99	3.5	71.6	65.1	6.5	0.73
63-6 46-9 167 69-9 63-6 63-7 71-0 65-4 57-5 71-6 65-9 57-7 727-7 38-3 45-1 44-4 0.8 58-0 60-3 -2.3 60-6 627 -2.1 61-8 65-9 57-9 727 727 56-4 55-4 55-7 67-9 65-9 -0.1 66-7 67-8 61-1 67-6 69-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.7 68-3 -1.2 68-3 -1.2 68-3 -1.2 68-3 -1.2 68-3 -1.2 68-3 -1.2 68-3 -1.2 68-3 -1.2 68-3 -1.2 68-3 -1.2 68-1 -1.2 68-1 -1.2 68-1	Northern Mariana Island		62.2	2.4	71-3	70·1	1.2	72.7	71.1	1.6	72.7	71.0	1.8	73.8	9.69	4.3	0.77
451 444 6.8 58.0 66.3 -2.3 60.6 62.7 -2.1 61.8 63.7 -1.9 63.6 63.6 63.7 -1.9 63.6 63.6 63.7 -1.9 63.6 63.6 63.8 63.8 63.8 63.8 63.8 63.8	Palau	9.89	46.9	16.7	6.69	9.69	6.3	71.0	65.4	5.5	71.6	6-59	5.7	72.7	67.7	5.0	0.75
564 555 0.9 65.9 65.9 -0.1 66.7 67.8 -1.1 67.6 69.3 -1.7 68.3 47.8 45.1 2.7 57.4 59.1 -1.7 60.6 61.1 -0.5 61.8 62.2 -0.3 64.0 57.0 55.7 1.3 66.8 66.9 -0.2 67.4 68.1 -0.7 68.1 70.2 -1.1 70.4 54.7 37.8 65.9 67.4 68.4 57.5 69.4 69.4 -1.3 69.1 49.9 44.7 5.2 60.3 60.9 -0.6 62.3 61.7 0.6 64.0 62.8 12 65.4	Papua New Guinea	45·1	44.4	8.0	58.0	60.3	-2.3	9.09	62.7	-2.1	61.8	63.7	-1.9	9.69	61.9	1.7	0.42
47.8 45.1 2.7 57.4 59.1 -1.7 60.6 61.1 -0.5 61.8 62.2 -0.3 64.0 57.0 55.7 1.3 66.8 66.9 -0.2 67.9 68.4 -0.5 69.1 70.2 -1.1 70.4 55.1 59.2 -4.2 66.0 68.5 -2.5 67.4 68.1 -0.7 68.1 69.4 -1.3 69.1 54.7 37.8 16.9 62.5 57.2 5.3 65.4 57.5 7.9 66.8 63.9 68.0 49.9 44.7 5.2 60.3 60.9 -0.6 62.3 61.7 0.6 64.0 62.9 1.2 65.4	Samoa	56.4	55.5	6.0	6-29	6-39	-0.1	2.99	8.29	-1.1	9.79	69.3	-1.7	68.3	9.69	-1.3	0.59
57.0 55.7 1.3 66.8 66.9 -0.2 67.9 68.4 -0.5 69.1 70.2 -1.1 70.4 55.1 59.2 -4.2 66.0 68.5 -2.5 67.4 68.1 -0.7 68.1 69.4 -1.3 69.1 54.7 37.8 16.9 62.5 57.2 5.3 65.4 57.5 7.9 66.8 63.8 3.0 68.0 49.9 44.7 5.2 60.3 -0.6 62.3 61.7 0.6 62.9 12 65.4	Solomon Islands	47.8	45.1	2.7	57.4	59.1	-1.7	9.09	61.1	-0.5	61.8	62.2	-0.3	64.0	63.7	0.4	0.43
55.1 59.2 -4.2 66.0 68.5 -2.5 67.4 68.1 -0.7 68.1 69.4 -1.3 69.1 54.7 37.8 16.9 62.5 57.2 5.3 65.4 57.5 7.9 66.8 63.8 3.0 68.0 49.9 44.7 5.2 60.3 60.6 62.3 61.7 0.6 64.0 62.8 1.2 65.4	Tokelau	67.0	55.7	1.3	8.99	6.99	-0.2	6.79	68.4	-0.5	69.1	70.2	-1:1	70.4	67.1	3.3	0.69
54.7 37.8 16.9 62.5 57.2 5.3 65.4 57.5 7.9 66.8 63.8 3.0 68.0 49.9 44.7 5.2 60.3 60.9 -0.6 62.3 61.7 0.6 64.0 62.8 1.2 65.4	Tonga	55.1	59.2	-4.2	0.99	9.89	-2.5	67.4	68.1	-0.7	68.1	69.4	-1.3	69.1	9.02	-1.5	0.63
49.9 44.7 5.2 60.3 60.9 -0.6 62.3 61.7 0.6 64.0 62.8 1.2 65.4	Tuvalu	54.7	37.8	16.9	62.5	57.2	5.3	65.4	57.5	7.9	8.99	63.8	3.0	0.89	8-59	2.2	0.58
	Vanuatu	49.9	44.7	5.2	60.3	6.09	9.0-	62.3	61.7	9.0	64.0	62.8	1.2	65.4	62.5	5.9	0.47

																707
	Estimated life expectancy	Expected life expectancy	Difference													
(Continued from previous page)	previous page				1											
Southeast Asia	52.2	40.8	11.4	65.2	62.8	2.4	67.1	65.4	1.7	68.2	8.79	0.4	69.5	6.79	1.6	0.65
Cambodia	49.5	41.4	8.1	26.7	55.2	1.6	59.5	57.8	1.6	63.2	63.5	-0.3	9.59	65.2	0.3	0.47
Indonesia	49.9	38.2	11.7	64.9	62.7	2.2	67.1	0.99	1.2	68.2	67.4	8.0	8.69	67.3	2.5	99.0
Laos	44.6	34.8	8.6	55.1	9.05	4.4	58.9	56.1	2.8	63.4	62.4	1.0	0.99	65.4	9.0	0.49
Malaysia	51.4	51.8	-0.3	67.4	6.69	-2.5	69.1	70.8	-1.7	70.5	72.2	-1.7	72.2	70.4	1.8	0.74
Maldives	49.9	34.0	15.8	59.2	65.8	2-9-	65.7	72.1	-6.4	68.1	77.0	6.8-	8.69	78.1	-8.4	0.65
Mauritius	57.0	50.8	6.3	67.4	66.3	1:1	9.89	0.69	4.0-	8.69	70.8	-1.0	71.5	70.1	1.3	0.72
Myanmar	45.1	29.4	15.7	9.85	52-3	6.3	61.4	96.0	5.4	65.1	61.4	3.7	0.79	64.1	2.9	0.53
Philippines	59.5	55.8	3.7	99.2	65.4	1.2	67.4	67.3	0.1	6.79	9.79	0.3	2.69	8.49	4.8	0.65
Seychelles	61.4	57.8	3.6	0.89	66.1	1.9	9.5	0.89	1.5	70·3	9.69	9.0	71.8	8.02	1.0	0.73
Sri Lanka	59.2	54.8	4.4	8.99	8.59	1.0	68.1	67.1	1.0	69.2	70.1	8.0	70.8	73-4	-5.6	0.70
Thailand	52.9	9.64	3.3	66.4	9.29	-1.2	68.1	2.29	0.4	0.69	72.6	-3.6	70·3	72.4	-2.1	89.0
Timor-Leste	41.7	43.6	-1.9	54.7	29.0	-4·3	8.65	65.1	-5.3	62.5	68.3	-5.7	64.7	6.99	-2.1	0.44
Viet Nam	51.1	39.6	11.5	63.0	65.4	-2.4	0.99	6.79	-1.9	2.79	9.89	6.0-	6.89	6.69	-1.0	0.63
Sub-Saharan Africa	46.5	39.3	7.2	9.75	51.5	5.5	59.2	51.5	7:7	62.1	57.1	5.0	65.1	58.7	6.4	0.46
Central sub– Saharan Africa	46.0	36.3	2.6	57.4	50.4	7.0	58.6	6.05	7.7	62·3	26.5	2.8	6-59	58.4	7.5	0.47
Angola	44.2	38.7	5.5	55.4	46.5	6.8	58.0	50.1	7.9	62.1	6.73	4.2	65.7	58.4	7.3	0.45
Central African Republic	41.7	39.0	2.7	51.4	44.4	7.0	53.7	42.4	11.3	56.1	46.2	6.6	58.0	48.2	8.6	0.31
Congo (Brazzaville)	47.4	31.6	15.8	9.89	52.1	11.5	65.1	52.2	12.8	66.4	9.09	5.8	68.2	9.09	9.2	0.58
Democratic Republic of the Congo	45.6	35.4	10.2	26.7	51.9	8.4	55.1	51.7		56.4	56.5	-0.1	62.3	29.0	3.3	0.38
Equatorial Guinea	41.7	24·3	17.4	55.4	48.4	7.0	63.2	55.2	8.0	67.7	63.4	4:3	6.69	59.3	10.6	99.0
Gabon	46.9	24.9	22.0	64.9	26.7	8.3	66.5	57.0	9.5	9.79	60.4	7.2	69.3	6.09	8.4	0.63
Eastern sub– Saharan Africa	42.7	37·3	5.4	52.9	48.9	4.0	55.1	50.3	4.8	59.2	58.0	1.2	63.2	58.9	4·3	0.41
Burundi	41.2	35.5	5.7	20.7	47.1	3.6	51.4	42.6	∞.	53.3	58.4	-5.1	26.7	0.09	-3·3	0.29
Comoros	43.2	42.7	0.4	56.1	8-95	-0.7	9.09	60.3	0.3	63.4	64.9	-1.5	9-59	64.8	0.8	0.48
Djibouti	47.4	54.8	-7-4	8.65	59.1	2.0	61.6	58.9	2.7	8.59	61.7	2.2	66.1	62.3	3.8	0.49
Eritrea	37.9	35.5	2.5	51.4	41.2	10.2	58.0	6.05	7.1	60.3	26.5	3.8	0.59	58.7	4.3	0.40
Ethiopia	36·3	34.5	1.7	46.0	44·1	2.0	48.2	50.3	-2.1	54.7	62.0	-7.3	8.09	62.0	-1.2	98:0
Kenya	43.2	44.6	-1.4	59.5	8.09	-1.3	62.1	53.9	8.2	64.2	59.2	5.0	6.99	61.0	6.5	0.52
Madagascar	44.2	39.4	4.8	56.1	54.6	1.5	56.4	6.75	-1.5	58.3	2.09	-2.4	62.8	9.09	2.3	0.40
Malawi	44.6	33.7	10.9	20.7	47.7	3.0	52.6	44.9	7:7	26.7	54.0	2.7	61.8	55.8	6.1	0.38
Mozambique	40.1	38.0	2.1	47.8	48.5	2-0-7	50.3	50.1	0.5	53.7	51.0	2.7	58.9	53.4	5.5	0.33
Kwanda	43./	30./	17.9	7.55	4/.8	6./	56.1	48.8	۲:/	60.3	0.79	-I·/	64.2	62.3	1.9	0.44

																2021
	Estimated life expectancy	Expected life expectancy	Difference													
(Continued from previous page)	previous page)															
Somalia	36.8	41.4	-4.6	35.7	45.9	-10.3	36.3	48.3	-12.1	37-4	48.1	-10.7	38.5	50.7	-12.2	0.08
South Sudan	44.2	44.0	0.1	50.7	49.9	8.0	52.6	52.8	-0.2	55.4	56.2	8.0-	56.1	52.6	3.5	0.28
Tanzania	41.2	37.2	3.9	54.7	53.4	1.3	26.7	52.2	4.5	9.09	8.65	8.0	64.7	61.3	3.5	0.45
Uganda	40.6	36.6	4.1	49.1	46.4	2.7	52.9	47.4	5.2	59.2	26.7	2.5	8.89	57.8	0.9	0.42
Zambia	44.6	40.5	4.1	57.7	50.3	7.4	9.85	44.6	14.0	62.5	54.6	7.9	99.5	55.8	10.8	0.51
Southern sub- Saharan Africa	57.0	46.2	10.8	66.4	0.09	6.4	67.7	51.6	16.1	68.5	53.4	15.1	69.4	55.9	13.5	0.64
Botswana	44.6	46.0	-1.4	63.4	58.0	5.4	2.99	45.9	20.8	68.2	56.1	12.1	69.4	57.0	12.4	0.64
Eswatini	45·1	34.0	11.1	62.8	9.95	6.1	65.4	45.6	19.8	6.99	44.3	22.6	68.2	49.5	18.7	0.59
Lesotho	46.5	41.2	5.3	8.65	56.2	3.6	62.8	45.7	17.1	64.7	45.5	19.3	99	45.3	21.2	0.51
Namibia	51.4	47.6	3.9	64.7	58.9	5.9	66.4	51.6	14.8	9.29	8-95	10.8	6.89	56.5	12.4	0.62
South Africa	58.9	46.7	12.2	67.3	9.09	9.9	68.4	53.8	14.6	69.2	54.6	14.7	70.3	57.4	12.8	0.68
Zimbabwe	48.6	47.7	6.0	62.8	59.1	3.6	9.49	45.9	18.7	63.4	50.4	13.0	9.59	52.2	13.4	0.47
Western sub– Saharan Africa	45.1	40.4	4.8	55.7	52.9	2.8	58.0	53·3	4.7	61.4	58.0	3.4	64.6	59.9	4.7	0.45
Benin	41.7	36-3	5.4	51.8	53.9	-2.1	54.4	55.8	-1.4	57.7	59.3	-1.7	9.19	60.1	1.5	0.37
Burkina Faso	36.3	35.3	6.0	44.2	49.2	-5.1	47.8	50.8	-3.0	51.8	55.5	-3.7	56.4	57.4	-1.0	0.29
Cabo Verde	44.6	46.5	-1.9	55.7	0.79	-11.2	8.09	99.2	-5.7	64.9	70.9	0.9-	67.1	0.69	-1.8	0.53
Cameroon	44.6	38.4	6.2	57-4	57.0	0.4	60.3	53·3	7.0	62.5	26.7	5.8	65.7	58.5	7.3	0.48
Chad	36.3	38.4	-2.1	42.7	51.7	0.6-	45·1	50.5	-5.4	49.1	55.0	-5.9	52.9	26.5	-3.6	0.24
Côte d'Ivoire	42.7	42.7	0.0	56.1	53-3	2.8	59.5	50.3	9.2	8.09	55.8	2.0	8.59	60.3	3.5	0.43
The Gambia	43.2	49.1	-5.9	53.3	26.8	-3.5	57.0	9.85	-1.5	60.3	61.3	-1.0	63.2	6.09	2.3	0.41
Ghana	53.3	43.9	9.4	61.4	6.75	3.4	63.8	58.2	9.9	9.59	9.69	0.9	67.7	61.7	0.9	0.56
Guinea	36.8	36.8	0.1	48.6	51.9	-3.2	51.4	53.0	-1.5	54.7	9.95	-1.9	8.65	58.2	1.6	0.34
Guinea-Bissau	37-4	24.6	12.7	20.7	45.9	4.8	54.0	48.9	5.1	26.7	54·1	2.7	9.09	55·1	5.5	0.35
Liberia	44.6	26.9	17.8	52.9	45.4	9.7	52.6	53.8	-1.2	56.1	2:09	-4.6	9.09	61.6	-1.0	0.35
Mali	36.8	32.8	4.1	43.7	49.5	-5.8	46.9	53.2	-6.3	20.7	9.75	-7.0	55.7	57.3	-1.5	0.27
Mauritania	48.2	44.5	3.8	59.5	60.1	9.0-	62.1	64.4	-2.4	9.89	9.89	-5.0	66.1	68.4	-2.2	0.50
Niger	35.7	37.5	-1.9	39.6	46.7	-7.1	41.7	51.4	8-6-	45·1	59.2	-14·1	49.5	60.1	-10.6	0.17
Nigeria	46.0	42.6	3.4	57.7	52.9	4.8	59.5	53.3	6.2	63.2	58.4	4.8	66.3	2.09	5.2	0.50
São Tomé and Príncipe	48.2	36.9	11.3	58.0	61.8		59.2	64:1	-4.9	62.8	8.29	-5.1	66.4	9.89	-2.2	0.51
Senegal	41.7	42.3	9.0-	52.9	9.95	-3.7	56.4	9.85	-2.2	59.2	64.0	-4·8	63.2	63.7	-0.5	0.41
SierraLeone	42.7	35.8	6.9	51.1	49.2	1.9	51.8	48.9	2.9	55.7	54.6	1.1	8.09	59.2	1.7	98.0
Togo	71.2	206	26	7	6 9 3	0	1		(L	0	,				,

Table 4: Male life expectancy (estimated, expected based on SDI, and their difference) for 1950, 1990, 2000, 2010, and 2021, and SDI in 2021, globally and for GBD super-regions, regions, countries, and territories

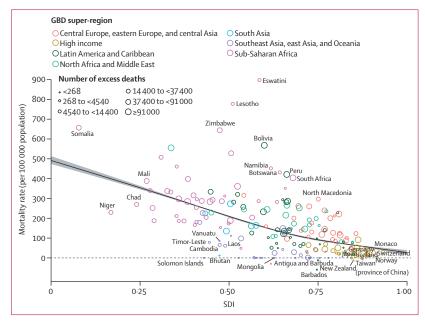


Figure 8: National age-standardised rates of excess mortality due to the COVID-19 pandemic versus SDI, and expected rates of excess mortality based on SDI, 2020 and 2021 combined

Mortality rates are expressed as the number of deaths per 100 000 and are shown for 204 countries and territories

Mortality rates are expressed as the number of deaths per 100 000 and are shown for 204 countries and territories coloured by GBD super-region. The size of the datapoints indicates the number of excess deaths. The black line represents expected age-standardised excess mortality rates based on SDI, and the shaded area indicates the 95% uncertainty intervals. GBD=Global Burden of Diseases, Injuries, and Risk Factors Study. SDI=Sociodemographic Index.

Asia, east Asia, and Oceania (33 of 34 nations), high-income (33 of 36 nations), and sub-Saharan Africa (27 of 46 nations). At the national level, the five countries or territories with the largest positive difference between estimated excess mortality and expected excess mortality based on SDI (ie, higher mortality than expected) were Bulgaria, North Macedonia, Lesotho, Peru, and Bolivia; the five nations with the highest negative difference between estimated excess mortality and expected excess mortality based on SDI (ie, lower mortality than expected) were Barbados, Mongolia, New Zealand, Antigua and Barbuda, and the Marshall Islands.

Population

The global total population increased annually over the study period, from 2·52 billion (95% UI 2·48–2·58) in 1950 to 6·10 billion (5·98–6·22) in 2000 and 7·89 billion (7·67–8·13) in 2021 (table 5). Annual growth in total population fluctuated over the study period, from an annual increase of 46·9 million (41·0–52·7) from 1950 to 1951 with the highest annual increase of 92·5 million (75·7–106·6) observed between 2008 and 2009 (figure 9). After 2009, population growth plateaued, and in 2017, the annual increase in population began to decline. Between 2019 and 2021, this decline accelerated, with annual gains of just 77·0 million (49·4–95·6) from 2019 to 2020 and 69·0 million (50·8–93·2) from 2020 to 2021. These reduced gains include the impact of excess deaths due to the

COVID-19 pandemic, therefore the magnitude might not persist as excess mortality declines. The majority of global population growth during the study period is attributed to three GBD super-regions: sub-Saharan Africa; south Asia; and southeast Asia, east Asia, and Oceania. The population of sub-Saharan Africa grew at a steadily increasing rate throughout the study period, contributing 9.1% (7.3–11.0) of the total global population growth from 1950 to 1951, 23·3% (19·4-27·6) from 2000 to 2001, and 39.5% (28.4-52.7) from 2020 to 2021. South Asia contributed 17.1% (13.8-20.6) of the total global population growth from 1950 to 1951, rose to a peak contribution of 32.9% (28.4-37.8) from 1999 to 2000, and remained relatively constant in more recent years, with a contribution of 26.3% (9.0-44.7) from 2020 to 2021. In contrast, the annual growth of the population fluctuated in southeast Asia, east Asia, and Oceania. The contribution of this super-region to annual global population growth was relatively stable up to a peak of 37.3% (30.4-41.8) from 1956 to 1957 and then subsequently decreased, contributing $14 \cdot 1\%$ (0 · 0 to 30 · 2) from 2020 to 2021. Central Europe, eastern Europe, and central Asia contributed little to global population growth, and in fact experienced a decline in population over some periods, with growth from 1950 to 1992, a decline from 1993 to 2006, growth from 2007 to 2018, and a return to population decline in 2019. Population growth was relatively stable in Latin America and the Caribbean and north Africa and the Middle East at the super-regional level during the previous three decades, whereas population growth in the high-income super-region began to decline starting around 2015.

The majority of countries and territories (154 [75.5%] of 204 countries and territories representing all seven super-regions) had a positive rate of natural increase (calculated as the number of births minus the number of deaths divided by person-years) between 2000 and 2009 followed by a smaller positive rate between 2010 and 2019 (figure 10). 26 countries and territories had a rate of natural increase that was positive during both decades and that was larger between 2010 and 2019 than between 2000 and 2009 (figure 10). Of these countries and territories, nine were in sub-Saharan Africa, eight were in central Europe, eastern Europe, and central Asia, and five were in the high-income super-region. Seven countries and territories had a positive rate of natural increase between 2000 and 2009 followed by a negative rate of natural increase between 2010 and 2019: Bosnia and Herzegovina, Greece, Japan, North Macedonia, Poland, Portugal, and San Marino (figure 10). The countries and territories of Belarus, Estonia, Latvia, Russia, and Ukraine experienced a negative rate of natural increase between 2000 and 2009 and continued to have a negative rate of natural increase between 2010 and 2019, but to a smaller extent (figure 10). The rate of natural increase was negative between 2000 and 2009 in Bulgaria, Croatia, Germany, Hungary,

									rate of change in population, 2000–21
	Allages	<15 years	15-64 years	≥65 years	All ages	<15 years	15-64 years	≥65 years	ı
Global	6100000 (5980000to 6220000)	1830 000 (1800 000 to 1870 000)	3840000 (3760000to 3920000)	423 000 (416 000 to 432 000)	7890000 (7670000 to 8130000)	2 010 000 (1950 000 to 2 070 000)	5110000 (4960000 to 5270000)	770 000 (750 000 to 792 000)	1.2% (1.2 to 1.3)
Central Europe, eastern Europe, and central Asia	417000 87300 (404000to 431000) (84500 to 90000)	87300 (84500 to 90 000)	282 000 (272 000 to 291 000)	48 400 (46 600 to 50 000)	418000 (393000 to 441000)	80800 (75900 to 85500)	275 000 (259 000 to 291 000)	61800 (58100 to 65200)	0.0% (-0.1 to 0.1)
Central Asia	74400	24800	45300	4310	95 800	27700	62100	6020	1.2%
	(70600to 78100)	(23500 to 26100)	(43100 to 47 600)	(4120 to 4500)	(85 900 to 106 000)	(24700 to 30 600)	(55700 to 68 600)	(5490 to 6550)	(0.9 to 1.4)
Armenia	3320	849	2170	297	3000	592	2000	398	-0.5%
	(3070 to 3550)	(785 to 909)	(2010 to 2320)	(275 to 318)	(2600 to 3380)	(515 to 668)	(1740 to 2260)	(346 to 449)	(-0.8 to -0.2)
Azerbaijan	8280	2580	5220	480	10500	2360	7440	699	1.1%
	(7700 to 8890)	(2400 to 2770)	(4860 to 5600)	(447 to 515)	(9080 to 12000)	(2040 to 2700)	(6440 to 8500)	(605 to 798)	(0.8 to 1.4)
Georgia	4730	1030	3090	612	3610	736	2300	572	-1·3%
	(4340 to 5120)	(948 to 1120)	(2830 to 3340)	(562 to 662)	(3200 to 4010)	(653 to 817)	(2040 to 2550)	(507 to 635)	(-1·4 to -1·2)
Kazakhstan	15000	4180	9790	1010	19000	5430	12100	1400	1.1%
	(13900 to 16100)	(3860 to 4500)	(9060 to 10500)	(934 to 1090)	(17000 to 20800)	(4880 to 5960)	(10900 to 13300)	(1260 to 1540)	(1.0 to 1.2)
Kyrgyzstan	5010 (4650 to 5380)	1770 (1640 to 1900)	2970 (2750 to 3180)	279 (259 to 299)	6860 (5860 to 7900)	2270 (1940 to 2620)	4250 (3630 to 4890)	340 (290 to 391)	1.5% (1.1 to 1.8)
Mongolia	2440	879	1480	83·6	3340	1090	2110	144	1.5%
	(2270 to 2610)	(817 to 939)	(1380 to 1580)	(77·8 to 89·3)	(3080 to 3580)	(1000 to 1170)	(1950 to 2260)	(134 to 155)	(1.4 to 1.5)
Tajikistan	6360	2710	3410	244	10200	3580	6210	368	2.2%
	(5950 to 6800)	(2540 to 2900)	(3180 to 3640)	(228 to 261)	(8800 to 11600)	(3110 to 4090)	(5380 to 7080)	(319 to 420)	(1.9 to 2.5)
Turkmenistan	4260	1600	2480	179	5160	1520	3350	284	0.9%
	(3710 to 4830)	(1400 to 1820)	(2160 to 2810)	(156 to 203)	(4620 to 5700)	(1370 to 1680)	(3000 to 3700)	(254 to 314)	(0.8 to 1.0)
Uzbekistan	25000	9150	14700	1120	34 200	10100	22300	1810	1.5%
	(21500 to 28700)	(7880 to 10500)	(12700 to 16900)	(967 to 1290)	(24 500 to 43 600)	(7220 to 12900)	(16000 to 28500)	(1300 to 2310)	(0.6 to 2.0)
Central Europe	122 000	23 000	83500	16000	115 000	17700	75200	22 300	-0.3%
	(118 000 to 126 000)	(22 200 to 23 700)	(80700 to 86 200)	(15500 to 16500)	(110 000 to 120 000)	(16900to18500)	(71800 to 78500)	(21300 to 23300)	(-0.4 to -0.2)
Albania	3190	962	2010	225	2670	444	1810	416	-0.9%
	(2970 to 3430)	(895 to 1030)	(1870 to 2160)	(209 to 242)	(2320 to 3020)	(385 to 502)	(1570 to 2050)	(361 to 471)	(-1.2 to -0.6)
Bosnia and	3980	806	2700	466	3300	490	2210	606	-0.9%
Herzegovina	(3490 to 4490)	(707 to 911)	(2370 to 3060)	(409 to 527)	(2900 to 3690)	(431 to 548)	(1940 to 2470)	(532 to 677)	(-0.9 to -0.8)
Bulgaria	7940	1230	5390	1320	6790	976	4340	1470	-0.8%
	(7400 to 8580)	(1150 to 1330)	(5030 to 5820)	(1230 to 1420)	(6070 to 7430)	(874 to 1070)	(3880 to 4750)	(1320 to 1610)	(-0.9 to -0.7)
Croatia	4570	794	3080	696	4210	597	2720	896	-0.4%
	(4250 to 4900)	(738 to 851)	(2860 to 3310)	(646 to 746)	(3680 to 4750)	(522 to 674)	(2370 to 3060)	(783 to 1010)	(-0.7 to -0.2)
Czechia	10200	1670	7140	1420	10 600	1720	6710	2210	0.2%
	(10200 to 10300)	(1660to1680)	(7090 to 7200)	(1410 to 1430)	(9670 to 11 600)	(1560 to 1870)	(6100 to 7330)	(2010 to 2410)	(-0.2 to 0.6)
Hungary	10200	1720	6950	1530	9600	1390	6200	2010	-0.3%
	(9440 to 11000)	(1590 to 1850)	(6430 to 7470)	(1410 to 1640)	(8430 to 10 900)	(1220 to 1570)	(5440 to 7020)	(1760 to 2280)	(-0.5 to 0.0)
Montenegro	637	142	425	70·1	618	111	413	93.7	-0·1%
	(580 to 695)	(129 to 155)	(387 to 464)	(63·9 to 76·6)	(540 to 701)	(97.4 to 126)	(361 to 468)	(81.9 to 106)	(-0·3 to 0·0)
North Macedonia	2060	460	1390	204	2180	328	1540	308	0.2%
	(1900 to 2230)	(424 to 497)	(1290 to 1510)	(188 to 220)	(1800 to 2590)	(270 to 390)	(1270 to 1830)	(254 to 366)	(-0.3 to 0.7)
Poland	38300	7370	26200 (24100 to 28300)	4720	38 200 (34 600 to 41 900)	5890 (5320 to 6450)	25200 (22800 to 27600)	7170	0.0%

									rate or change in population, 2000–21
	All ages	<15 years	15-64 years	≥65 years	All ages	<15 years	15-64 years	≥65 years	1
(Continued from previous page)	rious page)								
Romania	22 400	4220	15200	2960	18 900	3010	12100	3790	-0.8%
	(20 600 to 24300)	(3870 to 4570)	(14 000 to 16 500)	(2720 to 3210)	(16500 to 21500)	(2630 to 3420)	(10600 to 13800)	(3300 to 4300)	(-1.1 to -0.6)
Serbia	9670	1870	6550	1250	8920	1330	5930	1660	-0.4%
	(8880 to 10500)	(1720 to 2030)	(6020 to 7090)	(1140 to 1350)	(7750 to 10 000)	(1150 to 1490)	(5160 to 6670)	(1440 to 1860)	(-0.6 to -0.2)
Slovakia	5390	1050	3720	624	5430	857	3640	937	0.0%
	(5360 to 5420)	(1040 to 1050)	(3700 to 3740)	(620 to 628)	(4900 to 5960)	(772 to 940)	(3280 to 3990)	(845 to 1030)	(-0.4 to 0.4)
Slovenia	1990	321	1390	280	2070	312	1320	437	0.2%
	(1980 to 2010)	(318 to 323)	(1380 to 1400)	(278 to 282)	(1890 to 2250)	(285 to 340)	(1200 to 1440)	(398 to 475)	(-0.2 to 0.5)
Eastern Europe	221000	39600	153 000	28 100	207 000	35 400	138 000	33 500	-0.3%
	(208000 to 234000)	(37300 to 41900)	(144 000 to 162 000)	(26 400 to 29 700)	(185 000 to 228 000)	(31 600 to 39 200)	(123 000 to 152 000)	(29 900 to 36 800)	(-0.6 to -0.1)
Belarus	10200	1930	6920	1360	9320	1580	6250	1490	-0.4%
	(9460to11000)	(1790 to 2070)	(6410 to 7440)	(1260 to 1460)	(8020 to 10 600)	(1360 to 1800)	(5380 to 7120)	(1280 to 1700)	(-0.8 to -0.2)
Estonia	1390	251	936	208	1310	216	825	270	-0.3%
	(1390 to 1400)	(249 to 252)	(930 to 942)	(206 to 209)	(1190 to 1430)	(196 to 236)	(748 to 902)	(244 to 295)	(-0.7 to 0.1)
Latvia	2380	431	1600	355	1870	297	1180	392	-1.2%
	(2210 to 2540)	(399 to 459)	(1480 to 1700)	(329 to 379)	(1700 to 2050)	(270 to 326)	(1070 to 1290)	(356 to 430)	(-1.3 to -1.0)
Lithuania	3520	705	2330	483	2730	408	1760	557	-1.2%
	(3260 to 3780)	(653 to 756)	(2160 to 2500)	(447 to 518)	(2480 to 3010)	(370 to 449)	(1600 to 1940)	(506 to 614)	(-1.3 to -1.1)
Moldova	4200	922	2850	428	3590	522	2520	555	-0.8%
	(3810 to 4600)	(836 to 1010)	(2580 to 3120)	(388 to 469)	(2970 to 4190)	(432 to 609)	(2080 to 2940)	(459 to 647)	(-1.2 to -0.4)
Russia	149000	26 700	104 000	18400	145000	26100	96 000	22700	-0·1%
	(137000 to 161000)	(24 600 to 28 900)	(95 800 to 113 000)	(16900to 19900)	(125000 to 164000)	(22500 to 29400)	(82 900 to 108 000)	(19600 to 25700)	(-0·5 to 0·1)
Ukraine	49 600	8640	34100	6850	43100	6350	29300	7440	-0.7%
	(46 000 to 53 200)	(8010 to 9270)	(31600 to 36600)	(6350 to 7350)	(34600 to 51400)	(5100 to 7570)	(23500 to 34900)	(5990 to 8880)	(-1.3 to -0.2)
High income	968 000 (944 000 to 990 000)	185 000 (180 000 to 189 000)	647 000 (631 000 to 661 000)	137000 (134000 to 140000)	1 090 000 (1 060 000 to 1120 000)	176 000 (171 000 to 181 000)	702 000 (682 000 to 720 000)	214 000 (208 000 to 219 000)	0.6% (0.5 to 0.6)
Australasia	22700	4870	15100	2780	31 000	5730	20 000	5200	1.5%
	(21300 to 24100)	(4570 to 5170)	(14100to 16000)	(2600 to 2950)	(29 200 to 32 700)	(5400 to 6060)	(18,900 to 21,200)	(4890 to 5500)	(1.4 to 1.5)
Australia	18 900 (17 400 to 20 300)	4000 (3690 to 4290)	12600 (11600 to 13500)	2330 (2150 to 2500)	25 800 (24 000 to 27 500)	4750 (4420 to 5070)	16 700 (15 500 to 17 800)	4390 (4080 to 4690)	1.5% (1.5 to 1.5)
New Zealand	3860	878	2530	454	5170	982	3380	810	1.4%
	(3580 to 4150)	(813 to 944)	(2340 to 2720)	(421 to 488)	(4720 to 5610)	(896 to 1060)	(3080 to 3660)	(739 to 878)	(1.3 to 1.4)
High-income Asia	180000	29700	125 000	25900	185 000	22 400	117 000	46100	0.1%
Pacific	(171000to190000)	(28200 to 31100)	(118 000 to 131 000)	(24300 to 27400)	(175 000 to 196 000)	(21 200 to 23 700)	(111 000 to 123 000)	(43300 to 49000)	(0.1 to 0.2)
Brunei	333	105	218	9·3	451	94·6	332	24·5	1.4%
	(306 to 358)	(96.7 to 113)	(201 to 235)	(8·6 to 10)	(394 to 510)	(82·6 to 107)	(290 to 375)	(21·4 to 27·7)	(1.2 to 1.7)
Japan	129000	18900	87800	22200	128000	15 400	75400	36800	0.0%
	(120000 to 138000)	(17600 to 20200)	(81800 to 93800)	(20700 to 23700)	(118000to 137000)	(14 300 to 16 600)	(69700 to 80900)	(34000 to 39600)	(-0.1 to 0.0)
Singapore	4030	754	3020	256	5730	812	4150	768	1.7%
	(3740 to 4300)	(701 to 805)	(2810 to 3220)	(238 to 274)	(5260 to 6200)	(746 to 878)	(3810 to 4490)	(706 to 831)	(1.6 to 1.7)
South Korea	46 800	9860	33500	3390	51600	6070	37 000	8500	0.5%
	(43 500 to 49 900)	(9160to 10500)	(31200 to 35800)	(3150 to 3610)	(47800 to 55100)	(5630 to 6490)	(34300 to 39 600)	(7870 to 9080)	(0.4 to 0.5)
High-income North America	311 000 (292 000 to 331 000)	66 700 (62 400 to 70 800)	206 000 (193 000 to 219 000)	38300 (35900 to 40,600)	370 000	65600 (61300 to 69800)	240 000 (225 000 to 256 000)	64 200 (60 000 to 68 200)	0.8% (0.8 to 0.8)

	Population in 2000 (thousands)	thousands)			Population in 2021 (thousands)	nousands)			Annualised rate of change in population, 2000–21
	Allages	<15 years	15-64 years	≥65 years	All ages	<15 years	15-64 years	≥65 years	
(Continued from previous page)	evious page)								
Canada	30300 (28100 to 32400)	5920 (5490 to 6330)	20 600 (19 100 to 22 000)	3830 (3560 to 4100)	37500 (35100 to 40200)	6170 (5770 to 6620)	24300 (22700 to 26 000)	7040 (6580 to 7540)	(1.0 to 1.0)
Greenland	56·1	15·2	38·1	2.8	56·1	11.8	39·1	5·3	0.0%
	(55·8 to 56·5)	(15·1 to 15·3)	(37·8 to 38·3)	(2.8 to 2.8)	(50·7 to 61·1)	(10.6 to 12.8)	(35·3 to 42·6)	(4·8 to 5·8)	(-0.5 to 0.4)
USA	281000	60700	186 000	34400	333 000	59 400	216 000	57100	0.8%
	(261000 to 301000)	(56500 to 65000)	(173 000 to 199 000)	(32000to 36800)	(308 000 to 357 000)	(55 100 to 63 700)	(200 000 to 232 000)	(52900 to 61300)	(0.8 to 0.8)
Southern Latin	55 200	15400	34 700	5180	67700	14500	45100	8110	1.0%
America	(52 400 to 58 200)	(14600 to 16200)	(32 900 to 36 500)	(4910 to 5460)	(61400to74200)	(13100 to 15900)	(40900 to 49400)	(7370 to 8870)	(0.7 to 1.2)
Argentina	36 800 (34 200 to 39 600)	10500 (9730 to 11300)	22 700 (21 100 to 24 500)	3590 (3340 to 3870)	45 500 (39 200 to 51 800)	10200 (8780 to 11600)	30100 (25900 to 34300)	5250 (4530 to 5990)	1.0% (0.7 to 1.3)
Chile	15100	4090	9890	1160	18800	3650	12800	2330	1.0%
	(13900 to 16300)	(3750 to 4420)	(9060 to 10700)	(1060 to 1250)	(17100to20600)	(3320 to 4000)	(11700 to 14000)	(2120 to 2550)	(1.0 to 1.1)
Uruguay	3300	818	2050	427	3410	660	2210	531	0.1%
	(2990 to 3600)	(742 to 895)	(1860 to 2240)	(387 to 467)	(2990 to 3860)	(578 to 748)	(1940 to 2510)	(466 to 603)	(0.0 to 0.3)
Western Europe	398000	68 000	266 000	64600	437 000	68100	279 000	90 000	0.4%
	(391000to 405000)	(66 700 to 69 300)	(261 000 to 270 000)	(63300 to 65700)	(422 000 to 451 000)	(65900 to 70200)	(270 000 to 288 000)	(86 700 to 92 900)	(0.3 to 0.5)
Andorra	65·6	10·1	47·5	8·1	85·6	10.2	61.7	13·7	1·3%
	(65·2 to 66·1)	(10 to 10·2)	(47·2 to 47·8)	(8 to 8·1)	(77·6 to 94·3)	(9.2 to 11.2)	(56 to 68)	(12·4 to 15·1)	(0·8 to 1·7)
Austria	8020	1360	5410	1240	8980	1300	5970	1710	0.5%
	(7450 to 8600)	(1260 to 1460)	(5030 to 5800)	(1150 to 1330)	(8090 to 9780)	(1170 to 1410)	(5380 to 6500)	(1540 to 1870)	(0.4 to 0.6)
Belgium	10300	1810	6730	1730	11500	1910	7310	2240	0.5%
	(9510 to 11000)	(1670 to 1940)	(6230 to 7230)	(1600 to 1860)	(10300 to 12600)	(1720 to 2090)	(6580 to 8010)	(2020 to 2460)	(0.4 to 0.6)
Cyprus	918	204	620	94·2	1360	219	941	198	1.9%
	(851 to 983)	(189 to 218)	(575 to 664)	(87·3 to 101)	(1170 to 1540)	(189 to 248)	(813 to 1070)	(171 to 225)	(1.5 to 2.1)
Denmark	5330	982	3560	796	5850	954	3720	1180	0.4%
	(5290 to 5380)	(974 to 990)	(3530 to 3590)	(789 to 802)	(5300 to 6410)	(865 to 1050)	(3370 to 4070)	(1070 to 1290)	(0.0to 0.8)
Finland	5190	936	3470	784	5540	847	3400	1290	0.3%
	(5150 to 5230)	(929 to 942)	(3440 to 3490)	(779 to 790)	(4950 to 6060)	(758 to 927)	(3040 to 3720)	(1150 to 1410)	(-0.2 to 0.7)
France	59 900	11400	39 100	9440	66 400	11600	41 000	13800	0.5%
	(55 500 to 64 400)	(10500 to 12200)	(36 200 to 42 000)	(8740 to 10 100)	(59 500 to 73 500)	(10400 to 12800)	(36 800 to 45 400)	(12300 to 15200)	(0.3 to 0.6)
Germany	82300	12800	55800	13700	85 400	12000	54900	18 600	0.2%
	(81600 to 83000)	(12700 to 12900)	(55400 to 56300)	(13600to 13800)	(76 200 to 94 000)	(10700to13200)	(49000 to 60400)	(16 600 to 20 400)	(-0.3 to 0.6)
Greece	11100	1720	7560	1800	10200	1390	6470	2310	-0.4%
	(10300 to 11900)	(1600 to 1850)	(7000to 8130)	(1670 to 1940)	(8730to 11500)	(1200 to 1580)	(5550 to 7320)	(1980 to 2610)	(-0.8 to -0.2)
Iceland	279	65	182	32·5	350	67·5	228	55·2	1.1%
	(277 to 282)	(64·5 to 65·6)	(180 to 183)	(32·3 to 32·8)	(318 to 384)	(61·3 to 74)	(206 to 250)	(50·1 to 60·5)	(0.7 to 1.5)
Ireland	3870	849	2590	427	4940	997	3190	751	1.2%
	(3560 to 4170)	(781to 915)	(2380 to 2790)	(393 to 461)	(4420 to 5450)	(892 to 1100)	(2860 to 3520)	(672 to 829)	(1.1 to 1.3)
Israel	6390	1840	3940	614	9590	2630	5770	1200	1.9%
	(5760 to 7070)	(1660 to 2040)	(3550 to 4360)	(554 to 680)	(8200 to 11000)	(2250 to 3030)	(4930 to 6640)	(1020 to 1380)	(1.7 to 2.1)
Italy	56700	8100	38200	10 400	59800	7600	38200	14000	0.3%
	(52 400 to 60700)	(7500 to 8680)	(35300 to 40900)	(9600 to 11 100)	(54400 to 65100)	(6910 to 8270)	(34700 to 41600)	(12700to 15300)	(0.2 to 0.3)
Luxembourg	434	81.9	291	60·3	644	101	447	96	1.9%
	(401 to 466)	(75.8 to 88.1)	(270 to 313)	(55·8 to 64·8)	(589 to 703)	(92·5 to 110)	(409 to 488)	(87.8 to 105)	(1.8 to 1.9)
								(Table 5 contin	(Table 5 continues on next page)

									in population, 2000–21
	All ages	<15 years	15-64 years	≥65 years	Allages	<15 years	15-64 years	≥65 years	
(Continued from previous page)	ous page)								
Malta	402	80·1	272	50	442	64	278	100	0.4%
	(363 to 442)	(72·3 to 88·2)	(246 to 299)	(45·1 to 55)	(384 to 500)	(55.7 to 72.4)	(242 to 315)	(87 to 113)	(0.3 to 0.6)
Monaco	33 (30·8 to 35·4)	4·3 (4 to 4·7)	20.9 (19.5 to 22.4)	7.8 (7.2 to 8.3)	37.9 (34.3 to 41.4)	5 (4·5 to 5·4)	23.2 (21 to 25.4)	9.7 (8.8 to 10.6)	0.7% (0.5 to 0.8)
Netherlands	15900	2950	10800	2160	17 200	2680	11100	3460	0.4%
	(15800 to 16000)	(2930 to 2980)	(10700 to 10900)	(2140 to 2180)	(15 600 to 18 900)	(2430 to 2940)	(10000to 12200)	(3130 to 3800)	(-0.1 to 0.8)
Norway	4480	893	2900	689	5420	924	3520	972	0.9%
	(4440 to 4520)	(886 to 901)	(2870 to 2920)	(684 to 695)	(4930 to 5960)	(841 to 1020)	(3210 to 3880)	(885 to 1070)	(0.5 to 1.3)
Portugal	10500	1720	7160	1660	10600	1360	6830	2420	0.0%
	(9780 to 11300)	(1590 to 1840)	(6640 to 7670)	(1550 to 1780)	(9230 to 12000)	(1190 to 1550)	(5940 to 7750)	(2110 to 2750)	(-0.3 to 0.3)
San Marino	27·5	4·3	18·6	4.6	32.7	4·4	21·3	7·1	0.8%
	(23·9 to 31)	(3·7 to 4·8)	(16·2 to 21)	(4 to 5·2)	(28.4 to 37.4)	(3·8 to 5)	(18·4 to 24·3)	(6·1 to 8·1)	(0.8 to 0.9)
Spain	40800	6070	27 900	6860	45500	6480	29 900	9190	0.5%
	(40500 to 41100)	(6030 to 6110)	(27 700 to 28 000)	(6820 to 6900)	(41000 to 49900)	(5830 to 7100)	(26 900 to 32 700)	(8270 to 10100)	(0.0 to 0.9)
Sweden	8900	1630	5730	1540	10400	1820	6420	2140	0.7%
	(8830 to 8980)	(1620 to 1650)	(5680 to 5770)	(1530 to 1560)	(9390to11400)	(1650 to 2000)	(5810 to 7050)	(1930 to 2350)	(0.3 to 1.1)
Switzerland	7300 (6820 to 7760)	1250 (1160 to 1330)	4930 (4600 to 5240)	1130 (1050 to 1200)	8920 (8050 to 9860)	1330 (1200 to 1470)	5890 (5310 to 6510)	1710 (1540 to 1880)	1.0% (0.8 to 1.1)
UK	59000	11200	38500	9310	67800	11800	43 600	12 500	0.7%
	(55400to 62600)	(10500 to 11900)	(36100 to 40800)	(8730 to 9880)	(63900 to 71600)	(11100 to 12400)	(41 000 to 46 000)	(11 800 to 13 200)	(0.6 to 0.7)
England	49200	9330	32100	7780	57300	10 000	36 800	10400	0.7%
	(45600 to 52900)	(8640 to 10 000)	(29800 to 34500)	(7210 to 8360)	(53400 to 60900)	(9370 to 10 700)	(34300 to 39100)	(9730to11100)	(0.7 to 0.7)
Northern Ireland	1700	384	1100	219	1930	372	1230	328	0.6%
	(1570 to 1840)	(355 to 416)	(1020 to 1190)	(202 to 237)	(1800 to 2060)	(346 to 397)	(1150 to 1310)	(305 to 350)	(0.6 to 0.6)
Scotland	5140	939	3400	802	5520	843	3590	1090	0.3%
	(4760 to 5510)	(870 to 1010)	(3150 to 3650)	(743 to 861)	(4790 to 6280)	(732 to 960)	(3120 to 4080)	(943 to 1240)	(0.0 to 0.6)
Wales	2950	567	1870	506	3150	524	1960	664	0.3%
	(2730 to 3180)	(526 to 612)	(1740 to 2020)	(468 to 546)	(2940 to 3370)	(489 to 560)	(1830 to 2100)	(620 to 709)	(0.3 to 0.4)
Latin America and Caribbean	465 000 (450 000 to 480 000)	152 000 (148 000 to 157 000)	288 000 (278 000 to 297 000)	25100 (24200 to 25900)	594 000 (560 000 to 626 000)	143 000 (136 000 to 150 000)	398000 (374000 to 420000)	53200 (49800 to 56400)	1.2% (1.0 to 1.3)
Andean Latin America	46300	16500	27 400	2390	66 100	18100	43 000	5020	1.7%
	(43400 to 49200)	(15500to 17500)	(25 700 to 29 200)	(2240 to 2540)	(61 400 to 70 300)	(16800 to 19200)	(40 000 to 45700)	(4660 to 5340)	(1.6 to 1.8)
Bolivia	8290 (7670 to 8910)	3230 (2990 to 3470)	4690 (4340 to 5030)	373 (345 to 401)	11800 (10300 to 13300)	3490 (3050 to 3930)	7560 (6620 to 8520)	750 (656 to 845)	1.7% $(1.4 to 1.9)$
Ecuador	12500 (11600 to 13500)	4550 (4210 to 4900)	7360 (6810 to 7930)	628 (581 to 677)	18 100 (15 500 to 20 500)	5070 (4350 to 5750)	11600 (9930 to 13100)	1420 (1220 to 1610)	1.7% $(1.4 to 2.0)$
Peru	25500 (22900 to 28200)	8690 (7820 to 9620)	15 400 (13 800 to 17 000)	1390 (1250 to 1530)	36300 (32900 to 39700)	9540 (8650 to 10400)	23 900 (21 700 to 26 100)	2850 (2580 to 3120)	1.7% $(1.6 to 1.7)$
Caribbean	40100	12100	25200	2870	47 500	11500	31200	4750	0.8%
	(38700 to 41600)	(11600 to 12500)	(24300 to 26100)	(2760 to 2970)	(44 300 to 50 900)	(10600 to 12500)	(29200 to 33500)	(4470 to 5050)	(0.6 to 1.0)
Antigua and	76.4 (70.3 to 82.2)	21.6	49.7	5·1	89.4	16.9	63.6	8.9	0.7%
Barbuda		(19·9 to 23·2)	(45.7 to 53.4)	(4·7 to 5·5)	(78.4 to 100)	(14.8 to 19)	(55.7 to 71.4)	(7.8 to 10)	(0.5 to 1.0)
The Bahamas	303 (283 to 325)	85.4 (79.7 to 91.4)	202 (188 to 216)	16 (14·9 to 17·1)	388 (334 to 444)	81.2 (69.9 to 92.9)	275 (237 to 314)	31.8 (27.4 to 36.4)	1.2% (0.8 to 1.5)

	Population in 2000 (thousands)	thousands)			Population in 2021 (thousands)	housands)			Annualised rate of change in population, 2000–21
	All ages	<15 years	15-64 years	≥65 years	All ages	<15 years	15-64 years	≥65 years	
(Continued from previous page)	ious page)								
Barbados	257	56.7	170	30.6	299	47·1	203	49·2	0.7%
	(240 to 273)	(53 to 60.3)	(158 to 180)	(28.6 to 32.5)	(260 to 342)	(40·9 to 53·9)	(176 to 232)	(42·7 to 56·3)	(0.4 to 1.1)
Belize	240	93.7	136	10.2	429	123	284	22.5	2.8%
	(223 to 256)	(87.1 to 100)	(126 to 145)	(9.5 to 10.9)	(369 to 489)	(106 to 140)	(244 to 323)	(19.3 to 25.6)	(2.4to3.1)
Bermuda	63·3	12·1	44·5	6.8	63·5	8·4	42	13·1	0.0%
	(59·3 to 67·3)	(11·3 to 12·8)	(41·6 to 47·3)	(6.4 to 7.2)	(57·4 to 69·9)	(7·6 to 9·3)	(37.9 to 46.2)	(11·9 to 14·5)	(-0.2 to 0.2)
Cuba	11400	2440	7840	1120	11300	1780	7720	1770	-0·1%
	(10500 to 12300)	(2250 to 2630)	(7220 to 8450)	(1030 to 1200)	(9910 to 12700)	(1560 to 2000)	(6790 to 8690)	(1560 to 1990)	(-0·3 to 0·2)
Dominica	68·6	21	41.9	5·7	67·1	13.7	46·1	7·3	-0.1%
	(63·5 to 73·6)	(19·5 to 22·6)	(38.8 to 44.9)	(5·3 to 6·1)	(58·4 to 76·2)	(11.9 to 15.6)	(40·2 to 52·4)	(6·3 to 8·3)	(-0.4 to 0.2)
Dominican Republic	8600	2990	5150	451	11000	2940	7230	843	1.2%
	(7900 to 9250)	(2750 to 3220)	(4730 to 5550)	(415 to 486)	(9390 to 12 600)	(2510 to 3350)	(6170 to 8260)	(719 to 963)	(0.8 to 1.5)
Grenada	104	31.9	66·1	5.9	103	21.8	71·5	9·3	-0·1%
	(95·9 to 112)	(29.4 to 34.4)	(61 to 71·2)	(5.5 to 6.4)	(88.9 to 116)	(18.9 to 24.6)	(61·9 to 80·5)	(8·1 to 10·5)	(-0·4 to 0·2)
Guyana	779	284	463	31.8	765	213	501	50	-0.1%
	(719 to 842)	(262 to 307)	(428 to 501)	(29.3 to 34.3)	(670 to 859)	(187 to 240)	(439 to 563)	(43.7 to 56.1)	(-0.3 to 0.1)
Haiti	8190	3260	4610	314	12 900	4350	8010	506	2·1%
	(7470 to 8870)	(2980 to 3540)	(4210 to 5000)	(286 to 340)	(10 700 to 15 200)	(3620 to 5140)	(6660 to 9450)	(421 to 597)	(1·7 to 2·6)
Jamaica	2630	840	1590	200	2800	584	1950	269	0.3%
	(2450 to 2840)	(781 to 905)	(1480 to 1720)	(186 to 215)	(2450 to 3160)	(511to 660)	(1700 to 2200)	(236 to 304)	(0.0 to 0.5)
Puerto Rico	3880	925	2530	428	3290	444	2120	725	-0.8%
	(3620 to 4130)	(862 to 985)	(2360 to 2690)	(398 to 455)	(3050 to 3530)	(411 to 477)	(1970 to 2280)	(671 to 778)	(-0.8 to -0.7)
Saint Kitts and Nevis	s 46.4	13.7	29·2	3.6	58.6	9.8	43·4	5·4	1.1%
	(42.9 to 50)	(12.6 to 14.7)	(27 to 31·4)	(3.3 to 3.8)	(48.5 to 69.6)	(8.1 to 11.7)	(35·9 to 51·5)	(4·4 to 6·4)	(0.6 to 1.6)
Saint Lucia	155	49·1	95.7	10.3	178	29.7	127	20.6	0.6%
	(144 to 166)	(45·4 to 52·7)	(88.6 to 103)	(9.6 to 11.1)	(152 to 202)	(25.4 to 33.7)	(109 to 144)	(17.6 to 23.4)	(0.3 to 0.9)
Saint Vincent and the Grenadines	110	34·8	67.5	7.5	114	25	76·6	12.6	0.2%
	(102 to 118)	(32·3 to 37·3)	(62.7 to 72.5)	(7 to 8·1)	(100 to 129)	(21.9 to 28.2)	(67·1 to 86·6)	(11 to 14·2)	(-0.1 to 0.4)
Suriname	449	135	287	26.9	579	143	384	51.8	1.2%
	(418 to 479)	(126 to 144)	(267 to 306)	(25 to 28.7)	(510 to 654)	(126 to 162)	(338 to 434)	(45.6 to 58·5)	(0.9 to 1.5)
Trinidad and Tobago	1290	331	871	89.6	1390	272	943	178	0.4%
	(1200 to 1380)	(309 to 354)	(812 to 930)	(83.5 to 95.6)	(1210 to 1570)	(236 to 307)	(816 to 1060)	(154 to 200)	(0.0 to 0.6)
Virgin Islands	111	29.7	72.5	9.1	85.9	13·4	53.9	18·6	-1.2%
	(104 to 119)	(27.8 to 31.7)	(67.9 to 77.5)	(8.6 to 9.8)	(79.8 to 91.9)	(12·4 to 14·3)	(50 to 57.6)	(17·3 to 19·9)	(-1.3 to -1.2)
Central Latin America	199 000	70 000	119000	9530	253 000	63500	168000	21200	1.1%
	(191 000 to 208 000)	(67 400 to 73 000)	(115000 to 125000)	(9150 to 9950)	(242 000 to 265 000)	(60800 to 66400)	(161000 to 176000)	(20300 to 22200)	(1.1 to 1.2)
Colombia	39700	13100	24 500	2130	49 100	10600	33 600	4840	1.0%
	(35700 to 43700)	(11800 to 14500)	(22 000 to 26 900)	(1910 to 2350)	(44 500 to 53 500)	(9630to 11600)	(30 500 to 36 600)	(4390 to 5280)	(1.0 to 1.1)
Costa Rica	3900	1250	2440	214	4750	1020	3250	481	0.9%
	(3640 to 4160)	(1170 to 1340)	(2270 to 2590)	(200 to 228)	(4180 to 5340)	(894 to 1140)	(2860 to 3660)	(423 to 541)	(0.7 to 1.2)
El Salvador	5860	2240	3280	336	6450	1820	4070	557	0.4%
	(5240 to 6550)	(2010 to 2510)	(2930 to 3670)	(301 to 376)	(5430 to 7380)	(1530 to 2080)	(3430 to 4660)	(469 to 637)	(0.2 to 0.6)
Guatemala	11100	5010	5680	388	15800	4930	9910	920	1.7%
	(10200 to 12000)	(4630 to 5420)	(5250 to 6140)	(359 to 420)	(14400 to 17100)	(4490 to 5360)	(9030 to 10800)	(838 to 1000)	(1.6 to 1.7)
								(Table 5 contin	(Table 5 continues on next page)

Honduras Continued from previous page) 15-64 years 15-64 years 265 years	Mades All ades				2000–21
70 2630 3310 56660) (2440 to 2840) (3070 to 3570) 50 34900 61400 1co 108 000) (32600 to 37400) (57300 to 65800) 30 2010 2740 50 2010 2740 50 2010 2740 53120) (868 to 994) (1700 to 1940) 10 7820 14300 10 7820 14300 10 52000 116 000 10 52000 113 000 10 52 000 113 000 10 52 000 113 000 10 52 000 113 000 10 52 000 113 000 10 52 000 113 000 10 52 000 113 000 10 52 000 113 000 10 13 000 13 000 10 13 000 13 000 10 143 00 1445 10 10 00 10 00 </th <th></th> <th><15 years</th> <th>15-64 years</th> <th>≥65 years</th> <th>ı</th>		<15 years	15-64 years	≥65 years	ı
6170 2630 3310 (5720 to 6660) (2440 to 2840) (3370 to 5500) 101000 34900 61400 4930 2010 2740 4930 2010 2740 4930 2010 2740 4930 2010 2740 2910 3800 2740 2910 1810 2740 23300 7820 14300 18000 52900 14300 18000 52900 113000 175000 13000 13000 15000 15000 13000 447300 15000 25000 447300 15000 25000 447300 15000 25000 447300 157000 1800 447300 157000 18900 15900 186 445 665 1900 11000 18900 15800 11000 11000 66200 1380 445					
101000 34900 61400 (94400tc 108 000) (32 600 to 37400) (57300to 65800) 4930 2010 2740 2910 2740 1810 2910 3780 14300 23300 7820 14300 1380000 7820 14300 1380000 52 900 116 000 175 000 52 000 130 000 175 000 152 000 130 000 175 000 152 000 130 000 473 00 5580) 180 00 0 133 000 473 00 5580) 180 00 0 253 000 473 00 5580) 175 000 251 000 473 00 5580) 175 000 251 000 473 00 5580) 180 00 5 250 00 1380) 15 900 7830 7500 15 800 to 18 900) 186 445 66 50 10700 18900 186 445 66 200 21900 41300 66 200 21900 415 0449 66 200 21900	10100 to 244) (8910 to 11300)	3280 (2890 to 3660)	6330 (5580 to 7060)	508 (448 to 567)	2·3% (2·1 to 2·5)
4930 2010 2740 (4460to 5400) (1820to 2200) (2480 to 3000) 2910 927 1810 (2730 to 3120) (868 to 994) (1700to 1940) 23300 7820 14300 (21600 to 25 100) (7270 to 8420) 113 000 180 000 53 900 116 000 150 000 52 000 113 000 175 000 52 000 113 000 175 000 52 000 113 000 175 000 150 000 to 121 000) 130 000 to 121 000 421 000 150 000 2930 473 0to 5580) (1800 to 2130) 2500 473 0to 5580) 1800 to 2330 15900 157000 2930 15900 10700 18900 15000 10700 18900 15000 110700 18900 602 00 11300 445 602 00 11300 14100 65 200 11300 14100 65 200 110200 1	770 129000 0 to 5110) (119 000 to 139 000)	32100 (29 600 to 34 500)	86 600 (80 000 to 93 300)	10 600 (9750 to 11 400)	1.2% $(1.1 to 1.2)$
2910 927 1810 (2730 to 3120) (868 to 994) (1700 to 1940) 23300 7820 14300 (21600 to 25 100) 53900 116 000 180 000 53900 116 000 175 000 52 000 113 000 175 000 52 000 113 000 175 000 192 000 to 124 000) 195 000 to 121 000 421 000 195 000 to 12300 2930 473 0to 5580) (1800 to 2130) (2690 to 3180) 15 000 147 000 to 157 000 2930 473 0to 5580) 14700 to 24000 15 000 14700 to 24300 15 000 15000 to 187 000 15 000 10700 18900 1860 to 445 (602 to 691) 662 to 695 173 to 200) (17500 to 2460) 662 to 695 173 to 200) (17500 to 2460) 662 to 695 173 to 200 14100 (604 to 672 000) 18900 to 1300 14100 (604 to 72 200) 1900 2780 (4820 </td <td>185 6670 to 203) (5590 to 7770)</td> <td>1980 (1660 to 2310)</td> <td>4300 (3600 to 5010)</td> <td>391 (328 to 456)</td> <td>1.4% (1.1 to 1.7)</td>	185 6670 to 203) (5590 to 7770)	1980 (1660 to 2310)	4300 (3600 to 5010)	391 (328 to 456)	1.4% (1.1 to 1.7)
23300 7820 14300 (21600 to 25100) (7270 to 8420) 13300to 15400) 180 000 53900 116 000 175 000 52 000 113 000 175 000 52 000 113 000 175 000 1960 2930 421 000 1960 2930 421 000 152 000 2930 421 000 157 000 2930 422 000 157 000 2930 15 000 14700 to 2130) 260 to 3180) 15 000 157 000 250 to 2180) 15 000 157 000 2500 15 000 10700 18 900 15 000 10700 18 900 18 00 18 00 18 00 602 to 695 173 to 20) 445 (602 to 695) 173 to 20) 41100 65 200 21900 41300 (65 200 10200 14100 25 100 10200 14100 25 100 1320 48	175 4290	1150	2750	389	1.8%
	to 187) (3700 to 4870)	(993 to 1310)	(2370 to 3120)	(335 to 441)	(1.4 to 2.1)
180 000 53 900 116 000 (168 000 to 192 000) (50 300 to 57 600) (108 000 to 124 000) 175 000 52 000 113 000 (162 000 to 187 000) 1960 2930 421 000 150 00 to 2130) (2690 to 3180) 421 000 152 000 250 000 421 000 157 000 250 000 15 900 147 000 to 433 00t 250 000 15 900 157 000) 260 000) 15 800 to 18 900) (677 to 9320) (500 to 8910) 186 445 445 (602 to 695) (173 to 200) 445 (602 to 695) (173 to 200) 41100 (61500 to 73 000) (21800 to 25 900) 37 600 to 44 600) (65 200 21900 41 100 (604 00 to 72 200) (19900 to 23 800) 14100 25 100 102 00 14100 25 100 102 00 2780 (4820 1900 2780 1920 530 1320 1920 530	100 26 600	6620	17400	2580	0.6%
	0 to 1180) (23 000 to 30 100)	(5710 to 7480)	(15000 to 19700)	(2220 to 2910)	(0.3 to 0.9)
175 000 52 000 113 000 (162 000 to 187 000) (48300 to 556 00) (105 000 to 121 000) 5150 1960 2930 421 000 152 000 25100 421 000 157 000 251000 421 000 157 000 250000 15 900 157 000 250000 15 900 7830 7500 128 00 to 18 900) (6270 to 9320) (6000 to 8910) 31 000 107 00 186 445 (602 to 695) (173 to 200) (415 to 479) 67 300 23 800 41100 66 200 21800 to 25 900) (37600 to 45 100) 66 200 21900 2780 66 200 19000 to 23 800) (17300 to 16 400) 25 100 (19900 to 23 800) 1280 4820 1900 2780 4820 1900 2780 1920 530 1320 1920 1920 1320 1920 230 1320 <	300 228 000	50200	155000	22 200	1·1%
	0 to 11000) (196 000 to 258 000)	(43300 to 56900)	(134000 to 176000)	(19 100 to 25 300)	(0·7 to 1·4)
5150 1960 2930 421 000 152 000 251000 421 000 152 000 251 000 420 000 to 434 000) 147 000 to 250 000 15 900 7830 7500 15 900 7830 7500 31 000 10 700 18 900 (28 600 to 33 500) (9890 to 11 600) (17500 to 20 400) 646 186 445 (602 to 695) (173 to 200) (415 to 479) 67 300 23 800 41100 65 200 21800 to 25 900 (37 600 to 45 600) 66 200 21900 41300 64 200 1900 to 23 800 14100 25 100 1900 to 23 800 14100 4820 1900 2780 4820 1900 2780 4820 1900 230 1920 1900 1320 1920 1930 1320 1920 1320 1920 1320 1320 132	220 000	48 200	150 000	21800	1.1%
	0 to 10 800) (188 000 to 251 000)	(41 100 to 54 900)	(128 000 to 171 000)	(18600 to 24800)	(0.7 to 1.4)
421 000 152 000 251 000 (407 000 to 434 000) (147 000 to 430 000 to 157 000) 260 000) 15 900 7830 7500 12 800 to 18 900) (6270 to 9320) (6000 to 8910) 31 000 10700 18 900 646 186 445 (602 to 695) (173 to 200) (415 to 479) 67 300 23 800 41100 65 200 21800 to 25 900) 376 to 446 600) 66 200 21900 to 23 800 41300 25 100 10200 14100 25 100 10200 2780 4820 1900 2780 4820 1900 2780 4820 1900 2780 1920 1920 2780 1920 1920 1320 1920 1320 1320 1920 1320 1320	251 7170	2010	4680	481	1.6%
	to 272) (5860 to 8460)	(1640 to 2370)	(3830 to 5520)	(393 to 568)	(1.0 to 2.0)
istan 15900 7830 7500 (12800 to 18900) (6270 to 9320) (6000 to 8910) 31000 10700 18900 (28600 to 33500) (9890 to 11600) (17500 to 20400) 646 186 445 (602 to 695) (173 to 200) (415 to 479) 67300 23800 41100 (61500 to 73 000) (21800 to 25 900) (37600 to 44600) 66 200 21900 41300 (60400 to 72 200) (19900 to 23 800) 41100 25 100 (21600 to 29 100) (8790 to 11800) (12100 to 16 400) 4820 1900 2780 (4380 to 5270) (173 to 2080) (2530 to 3040) 1920 1920 1320 (1720 to 2110) (476 to 583) (1180 to 1450)	600 to 18100) (600 000 to 646 000)	183000 (175000 to 191000)	406 000 (390 000 to 420 000)	34200 (32900 to 35400)	1.9% (1.8 to 2.0)
31000 10700 18900 18900 (28 600 to 33 500) (9890 to 11 600) (17500 to 20 400) (17500 to 20 400) (45 646 186 445 445 (602 to 695) (173 to 200) (415 to 479) (57300 23 800 41100 (56 200 21900 21900 41300 (60 400 to 72 200) (19900 to 23 800) (37 600 to 44 600) (60 400 to 72 200) (19900 to 23 800) (21 600 to 29 100) (8790 to 11 800) (21 600 to 29 100) (8790 to 11 800) (21 300 to 20 100 (19900 to 20 100) (1730 to 20 80) (1730 to 20 80) (1720 to 2110) (476 to 583) (1180 to 1450)	504 31200	14200	16400	623	3.2%
	to 718) (21600 to 40900)	(9840 to 18600)	(11400 to 21500)	(432 to 816)	(2.5 to 3.6)
646 186 445 (602 to 695) (173 to 200) (415 to 479) 67300 23 800 41100 (61500 to 73 000) (21800 to 25 900) (37 600 to 44 600) 66 200 21900 41300 (60400 to 72 200) (19900 to 23 800) 47700 to 45100) 25 100 10200 14100 (21600 to 29 100) (8790 to 11 800) (12100 to 16 400) 4820 1900 2780 4380 to 5270 (1730 to 2080) (2530 to 3040) 1920 530 1320 (1720 to 2110) (476 to 583) (1180 to 1450)	360 44200 0 to 1470) (37400 to 51000)	13300 (11200 to 15300)	28100 (23700 to 32300)	2840 (2400 to 3280)	1.7% $(1.3 to 2.0)$
67300 (61500 to 73 000) (21800 to 25 900) (37 600 to 44 600) 66 200 (50 400 to 72 200) (19 900 to 23 800) (41300 25 100 (21600 to 29 100) (87 90 to 118 00) (12 100 to 16 400) 4820 1900 2780 (43 80 to 5270) (1730 to 2080) (2530 to 30 40) 1920 530 (1720 to 2110) (476 to 583) (1180 to 1450)	15.1 1530	297	1180	54·5	4·1%
	.to16·2) (1420to1650)	(276 to 320)	(1100 to 1270)	(50·7 to 58·7)	(4·1 to 4·1)
66 200	290 106 000	36 900	64 400	4380	2·1%
	0 to 2490) (95 700 to 116 000)	(33 400 to 40 400)	(58 400 to 70 500)	(3970 to 4790)	(2·1 to 2·2)
25100 10200 14100 (21600 to 29100) (8790 to 11800) (12100 to 16400) 4820 1900 2780 (4380 to 5270) (1730 to 2080) (2530 to 3040) 1920 530 1320 (1720 to 2110) (476 to 583) (1180 to 1450)	340 85400 010 3310) (76900 to 93900)	20200 (18200to 22200)	59 200 (53 300 to 65 100)	6010 (5410 to 6610)	1.2% (1.1 to 1.3)
4820 1900 2780 (4380 to 5270) (1730 to 2080) (2530 to 3040) 1920 530 1320 (1720 to 2110) (476 to 583) (1180 to 1450)	762 41200 to 881) (29200 to 52100)	13 500 (9520 to 17 000)	26100 (18500 to 32900)	1680 (1190 to 2120)	2·3% (1·4 to 2·8)
1920 530 1320	134 12300	3630	8180	512	4·5%
(1720 to 2110) (476 to 583) (1180 to 1450)	to 147) (11100 to 13700)	(3260 to 4030)	(7340 to 9080)	(459 to 568)	(4·4 to 4·5)
	67.1 4650	846	3630	171	4·2%
	(4030 to 5280)	(733 to 959)	(3150 to 4120)	(148 to 194)	(4·1 to 4·4)
Lebanon 3560 1110 2170 273 (3200 to 3970) (1000 to 1240) (1950 to 2420) (245 to 304)	573 5540	1280	3720	546	2·1%
	to 304) (4670 to 6390)	(1080 to 1470)	(3130 to 4290)	(461 to 630)	(1·8 to 2·3)
Libya 5090 1790 3100 199 (4590 to 5600) (1620 to 1970) (2800 to 3410) (180 to 219)	(5810 to 7980) (5810 to 7980)	1490 (1260 to 1730)	5030 (4250 to 5840)	350 (296 to 406)	1.4% (1.1 to 1.7)
Μοτος 29700 10200 18000 1480 (26 800 to 32 600) (9240 to 11200) (16 200 to 19 800) (1330 to 1620)	180 37200	9790	24600	2740	1.1%
	0to 1620) (33100 to 41300)	(8730 to 10 900)	(22000 to 27400)	(2440 to 3040)	(1.0 to 1.1)
Oman 2330 880 1400 53.2	53.2 4700	1220	3370	115	3·3%
(2120 to 2530) (801 to 956) (1270 to 1520) (48.4 to 57.7)	t to 57.7) (4350 to 5060)	(1130 to 1320)	(3120 to 3620)	(107 to 124)	(3·3 to 3·4)

									rate of change in population, 2000–21
	All ages	<15 years	15-64 years	≥65 years	All ages	<15 years	15-64 years	≥65 years	
(Continued from previous page)	ous page)								
Palestine	3020	1410	1520	92	5140	1870	3090	176	2.5%
	(2750 to 3290)	(1280 to 1540)	(1390 to 1660)	(83.8 to 100)	(4660 to 5610)	(1700 to 2040)	(2810 to 3380)	(160 to 192)	(2.5 to 2.6)
Qatar	592	159	425	7.9	2980	494	2450	37·1	7.7%
	(538 to 643)	(145 to 173)	(386 to 462)	(7.2 to 8.6)	(2750 to 3200)	(456 to 531)	(2260 to 2630)	(34·2 to 39·9)	(7.6 to 7.8)
Saudi Arabia	20800	7480	12 700	547	37700	7570	29100	1020	2.8%
	(18800 to 22800)	(6760 to 8210)	(11 500 to 14 000)	(494 to 600)	(32 600 to 43 000)	(6550 to 8630)	(25200 to 33200)	(884 to 1170)	(2.6 to 3.0)
Sudan	26700	11900	13900	922	43400	16 600	25 400	1390	2·3%
	(23700 to 29800)	(10500 to 13300)	(12300to15500)	(817 to 1030)	(37000 to 49700)	(14 100 to 19 000)	(21 700 to 29 100)	(1180 to 1590)	(2·1 to 2·4)
Syria	16700	6940	9270	519	14000	3660	9350	1010	-0.9%
	(15100 to 18200)	(6260 to 7550)	(8360 to 10100)	(468 to 565)	(11500 to 16200)	(2990 to 4240)	(7640 to 10800)	(829 to 1170)	(-1.3 to -0.5)
Tunisia	9840	2980	6250	607	11800	2770	7950	1130	0.9%
	(8930 to 10800)	(2710 to 3260)	(5670 to 6830)	(551 to 663)	(10600 to 13200)	(2470 to 3070)	(7110 to 8830)	(1010 to 1260)	(0.8 to 1.0)
Türkiye	67100	20100	43100	3940	83600	18 500	56900	8170	1·1%
	(58200 to 75600)	(17400 to 22600)	(37400 to 48600)	(3420 to 4450)	(77100 to 90000)	(17 100 to 19 900)	(52500 to 61200)	(7530 to 8790)	(0·8 to 1·3)
United Arab	3230	720	2480	28·5	9630	1340	8130	163	5.2%
Emirates	(2900 to 3550)	(647 to 792)	(2230 to 2730)	(25·6 to 31·4)	(7900 to 11200)	(1100 to 1560)	(6670 to 9470)	(134 to 190)	(4.8 to 5.5)
Yemen	18 600	8970	9160	490	33 600	13 800	18800	1020	2.8%
	(17 000 to 20 200)	(8190 to 9730)	(8370 to 9950)	(448 to 532)	(28 200 to 39 500)	(11500 to 16 200)	(15800 to 22100)	(850 to 1190)	(2.4 to 3.2)
South Asia	1330000 (1250000 to 1400000)	487000 (458000 to 514000)	781000 (734000 to 828000)	57 400 (53 800 to 60 900)	1850000 (1670000 to 2040000)	507000 (460000 to 557000)	1220 000 (1100 000 to 1350 000)	120 000 (108 000 to 133 000)	1.6% (1.4 to 1.8)
Bangladesh	129000	52300	72800	4310	165000	45 800	107 000	11600	1.1%
	(120000 to 139000)	(48400 to 56100)	(67400to 78100)	(3990 to 4620)	(143000 to 186000)	(39 700 to 51 600)	(93 100 to 121 000)	(10100 to 13100)	(0.8 to 1.4)
Bhutan	645	238	382	25·2	757	187	520	50·1	0.8%
	(582 to 712)	(215 to 263)	(344 to 421)	(22·7 to 27·8)	(685 to 823)	(169 to 204)	(470 to 565)	(45·3 to 54·5)	(0.7 to 0.8)
India	1030 000 (953 000 to 1110 000)	366 000 (338 000 to 393 000)	620 000 (572 000 to 666 000)	47 000 (43 400 to 50 600)	1410 000 (1240 000 to 1600 000)	366 000 (321 000 to 415 000)	951000 (833000to 1080000)	97500 (85500 to 110000)	1·5% (1·3 to 1·7)
Nepal	23900	9770	13200	904	31100	9230	20 000	1910	1.2%
	(22200 to 25500)	(9080 to 10400)	(12300to14100)	(840 to 966)	(27300 to 35300)	(8100 to 10500)	(17 600 to 22 700)	(1680 to 2170)	(1.0 to 1.5)
Pakistan	139 000	58 400	75100	5140	236 000	85400	142 000	8550	2.5%
	(127 000 to 150 000)	(53700 to 63 100)	(69100to 81200)	(4730 to 5560)	(215 000 to 257 000)	(78100 to 93100)	(129 000 to 154 000)	(7820 to 9320)	(2.5 to 2.6)
Southeast Asia, east Asia, and Oceania	1860 000 (1760 000 to 1950 000)	483 000 (460 000 to 505 000)	1250000 (1190000to 1320000)	119000 (112000 to 125000)	2190000 (2070000to 2290000)	445000 (424000 to 465000)	1490 000 (1410 000 to 1560 000)	254000 (240000 to 269000)	0.8% (0.7 to 0.8)
East Asia	1300000 (1220000to 1390000)	305 000 (285 000 to 326 000)	907 000 (847 000 to 968 000)	92500 (86300to 98700)	1470 000 (1370 000 to 1580 000)	267 000 (248 000 to 287 000)	1000000 (933000to 1080000)	203000 (188000 to 217000)	0.6% (0.6 to 0.6)
China	1260000 (1170000to 1350000)	294000 (274000 to 314000)	876 000 (816 000 to 937 000)	89 000 (82 900 to 95 200)	1420000 (1320000 to 1530000)	260 000 (241 000 to 279 000)	967 000 (896 000 to 1 040 000)	196000 (182000 to 211000)	0.6% (0.6 to 0.6)
North Korea	23 400	6550	15300	1540	26400	4770	18900	2670	0.6%
	(20 900 to 26 000)	(5830 to 7260)	(13600 to 17000)	(1380 to 1710)	(22400 to 30300)	(4040 to 5480)	(16 000 to 21 700)	(2260 to 3060)	(0.3 to 0.7)
Taiwan (province of	22300	4700	15600	1930	23 600	2950	16 700	4010	0.3%

									in population, 2000-21
	All ages	<15 years	15-64 years	≥65 years	Allages	<15 years	15-64 years	≥65 years	
(Continued from previous page)	ous page)								
Oceania	8350	3300	4780	256	13900	5080	8360	489	2.4%
	(7950 to 8720)	(3140 to 3450)	(4560 to 5000)	(244 to 266)	(12500 to 15300)	(4540 to 5590)	(7520 to 9170)	(446 to 530)	(2.2 to 2.7)
American Samoa	58·5	22·1	34·2	2.2	49.8	14·2	31.9	3.7	-0.8%
	(54·6 to 62·6)	(20·6 to 23·6)	(31·9 to 36·6)	(2.1 to 2.4)	(45.8 to 53.2)	(13·1 to 15·2)	(29.4 to 34·1)	(3.4 to 3.9)	(-0.8 to -0.7)
Cook Islands	18·6 (17·1 to 20)	5·5 (5·1 to 5·9)	11.8 (10.9 to 12.7)	1:3 (1:2 to 1:4)	17.7 (16 to 19.4)	3.8 (3.4 to 4.1)	11.6 (10.5 to 12.7)	2.3 (2.1 to 2.5)	-0.2% (-0.3 to -0.1)
Federated States of	110	44·4	61·3	3.8	103	30·6	67.2	4·8	-0.3%
Micronesia	(102 to 117)	(41·3 to 47·3)	(57·1 to 65·4)	(3.5 to 4)	(89·5 to 116)	(26·7 to 34·7)	(58.6 to 76.2)	(4·2 to 5·5)	(-0.6 to 0.0)
Fiji	816	266	522	28·2	924	272	596	56.4	0.6%
	(739 to 892)	(241 to 290)	(473 to 571)	(25·5 to 30·8)	(839 to 1020)	(247 to 300)	(540 to 654)	(51.2 to 62)	(0.6 to 0.6)
Guam	159	49·5	101	8·5	159	36·6	104	19·1	0.0%
	(149 to 170)	(46·2 to 52·7)	(94.7 to 108)	(8 to 9·1)	(146 to 171)	(33·7 to 39·3)	(95·3 to 111)	(17·6 to 20·6)	(-0.1 to 0.0)
Kiribati	87·3	34·9	49·5	2.9	121	42	74·5	4·6	1.6%
	(81 to 93·8)	(32·4 to 37·5)	(45·9 to 53·1)	(2.7 to 3·1)	(108 to 134)	(37·6 to 46·6)	(66·6 to 82·7)	(4·1 to 5·1)	(1.4 to 1.7)
Marshall Islands	52·5	21.9	29·5	1·1	56·3	17·5	36·5	2·3	0.3%
	(48·5 to 56·6)	(20.2 to 23.5)	(27·3 to 31·8)	(1 to 1·2)	(49·2 to 63·6)	(15·3 to 19·7)	(31·9 to 41·3)	(2 to 2·6)	(0.1 to 0.6)
Nauru	10.8 (9.9 to 11·6)	4.2 (3.8 to 4.5)	6.3 (5.8 to 6.8)	0.3 (0.3 to 0.4)	11 (9.6 to 12.4)	4 (3·5 to 4·5)	6.6 (5.8 to 7.5)	0.4 (0.3 to 0.5)	0.1% (-0.1 to 0.3)
Niue	$\frac{1.9}{(1.8 \text{ to } 2.1)}$	0.6 (0.5 to 0.6)	1.2 (1.1 to 1.3)	0.2 (0.2 to 0.2)	1.7 (1.5 to 1.9)	0.4 (0.3 to 0.4)	1.1 (1 to 1.2)	0.2 $(0.2 to 0.2)$	-0.7% (-0.9 to -0.4)
Northern Mariana	72.7 (67.7 to 77.5)	17.9	53·5	1·3	48·5	11·3	33·6	3.6	-1.9%
Islands		(16.7 to 19.1)	(49·9 to 57·1)	(1·2 to 1·3)	(45·1 to 52·1)	(10·5 to 12·1)	(31·3 to 36·2)	(3.3 to 3.9)	(-2.0 to -1.9)
Palau	19.7 (18.4 to 21.1)	4.9 (4.6 to 5.2)	13·9 (13 to 14·9)	1 (0.9 to 1)	18·1 (16·2 to 20·1)	3·3 (2·9 to 3·6)	13.2 (11.8 to 14·6)	$\frac{1.7}{(1.5 \text{ to } 1.8)}$	-0.4% (-0.6 to -0.2)
Papua	5520	2250	3110	156	10500	3920	6230	314	3.0%
New Guinea	(5140 to 5880)	(2100 to 2400)	(2900 to 3310)	(145 to 166)	(9100 to 11800)	(3410 to 4410)	(5420 to 7020)	(273 to 354)	(2.7 to 3.3)
Samoa	180	72.6	99·3	8·3	214	79.9	123	11	0.8%
	(166 to 193)	(67 to 77.6)	(91·6 to 106)	(7·6 to 8·8)	(193 to 236)	(72.2 to 88.1)	(111 to 135)	(10 to 12·2)	(0.7 to 1.0)
Solomon Islands	445	190	242	13·6	684	260	401	22.6	2.0%
	(412 to 480)	(176 to 205)	(224 to 261)	(12·6 to 14·7)	(579 to 780)	(220to 297)	(339 to 457)	(19.1 to 25.7)	(1.6 to 2.3)
Tokelau	$\frac{1.5}{(1.4 \text{ to } 1.7)}$	0.5 (0.5 to 0.6)	0.9 (0.8 to 0.9)	0·1 (0·1 to 0·1)	1.4 (1.2 to 1.5)	0.4 (0.4 to 0.4)	0.8 (0.8 to 0.9)	0·1 (0·1 to 0·2)	-0.6% (-0.7 to -0.5)
Tonga	103	40·5	56.8	5·5	106	39	60.6	6.7	0.2%
	(93 to 113)	(36·6 to 44·3)	(51.4 to 62.2)	(5 to 6·1)	(96 to 117)	(35.2 to 42.8)	(54.7 to 66.5)	(6 to 7.3)	(0.1 to 0.2)
Tuvalu	9.7	3.4	5·7	0.6	12·4	3.7	7.8	0.9	1·1%
	(8.9 to 10.5)	(3.1 to 3.7)	(5·2 to 6·2)	(0.6 to 0.7)	(10·8 to 14)	(3.3 to 4.2)	(6.8 to 8.8)	(0.8 to 1)	(0·9 to 1·3)
Vanuatu	194	82·3	106	5.8	313	116	184	12·2	2·3%
	(180to 208)	(76·3 to 88·1)	(98·6 to 114)	(5.4 to 6.2)	(291to 336)	(108 to 125)	(171 to 198)	(11·4 to 13·1)	(2·3 to 2·3)
Southeast Asia	543 000 (513 000 to 573 000)	174 000 (165 000 to 184 000)	343 000 (323 000 to 362 000)	26100 (24700 to 27500)	698 000 (670 000 to 728 000)	173 000 (166 000 to 180 000)	474000 (456 000 to 495 000)	51200 (49 000 to 53300)	1.2% (1.1 to 1.3)
Cambodia	12500	5200	6910	430	17000	5120	11000	931	1.5%
	(11500 to 13600)	(4780 to 5640)	(6350 to 7500)	(396 to 467)	(14500 to 19600)	(4360 to 5890)	(9380to 12700)	(794 to 1070)	(1.1 to 1.8)
Indonesia	212 000	66 600	135000	9580	279 000	67300 (62000 to 72400)	194000	17500 (16100 to 18800)	1.3%

									in population, 2000–21
	Allages	<15 years	15-64 years	≥65 years	All ages	<15 years	15-64 years	≥65 years	1
(Continued from previous page)	ous page)								
Laos	5390 (4850 to 5930)	2310 (2080 to 2540)	2890 (2600 to 3180)	193 (174 to 212)	7380 (6610 to 8100)	2300 (2060 to 2520)	4750 (4260 to 5220)	327 (293 to 359)	1.5% (1.5 to 1.5)
Malaysia	23800	7990	14900	911	31800	7610	21900	2340	1.4%
	(22200to 25500)	(7460 to 8540)	(13900to 15900)	(851 to 974)	(27200 to 36000)	(6510 to 8610)	(18700 to 24700)	(2000 to 2650)	(1.0 to 1.6)
Maldives	280	113	156	10·3	517	100	395	22·1	2.9%
	(260 to 299)	(105 to 121)	(146 to 167)	(9·6 to 11)	(456 to 571)	(88·3 to 110)	(348 to 436)	(19·5 to 24·4)	(2.7 to 3.1)
Mauritius	1210	312	827	75.7	1270	207	900	164	0.2%
	(1130 to 1300)	(290 to 334)	(769 to 887)	(70.4 to 81.1)	(1100 to 1440)	(180 to 235)	(779 to 1020)	(142 to 186)	(-0.1 to 0.5)
Myanmar	45300 (38300 to 52300)	14300 (12100 to 16500)	28 700 (24 300 to 33 100)	2300 (1950 to 2650)	56400 (50200 to 62800)	15 600 (13 900 to 17 400)	37 000 (32 900 to 41 200)	3810 (3390 to 4240)	1·1% (0·9 to 1·3)
Philippines	79500	30000	46500	2940	113000	34000	73100	6170	1.7%
	(73900 to 85100)	(27900to 32100)	(43300 to 49800)	(2740 to 3150)	(100000to125000)	(30100 to 37600)	(64700 to 80800)	(5470 to 6830)	(1.5 to 1.8)
Seychelles	81.6	22·3	53·2	6	105	23.4	73	9·1	1.2%
	(74.6 to 88)	(20·4 to 24·1)	(48·6 to 57·4)	(5·5 to 6·5)	(91.4 to 121)	(20.3 to 26.8)	(63.2 to 83.5)	(7·9 to 10·4)	(0.9 to 1.5)
Sri Lanka	18700	5090	12500	1100	22300	5100	14700	2450	0.8%
	(16 200 to 21 200)	(4390 to 5770)	(10800 to 14200)	(954 to 1250)	(19400 to 25000)	(4460 to 5740)	(12800 to 16500)	(2140 to 2760)	(0.8 to 0.9)
Thailand	62500	15200	43 400	3920	66700	9770	47300	9640	0.3%
	(58500 to 66800)	(14200 to 16200)	(40 600 to 46 400)	(3670 to 4190)	(57500 to 75900)	(8430 to 11100)	(40800to53800)	(8320 to 11000)	(-0.1 to 0.6)
Timor-Leste	904	389	487	28·2	1400	521	803	74·4	2·1%
	(821 to 984)	(353 to 423)	(442 to 530)	(25·6 to 30·6)	(1250 to 1540)	(465 to 575)	(717 to 887)	(66·4 to 82·1)	(2·0 to 2·2)
Viet Nam	80200	26300	49 400	4570	100 000	24 800	67800	7670	1·1%
	(74500 to 86400)	(24400 to 28300)	(45 900 to 53 200)	(4240 to 4920)	(92 300 to 108 000)	(22 800 to 26 600)	(62400 to 73000)	(7060 to 8250)	(1·0 to 1·1)
Sub-Saharan Africa	647 000 (629 000 to 666 000)	289 000 (281 000 to 297 000)	338 000 (329 000 to 348 000)	19 600 (19 000 to 20 100)	1130 000 (1090 000 to 1180 000)	476000 (457000 to 496000)	624000 (599000 to 650000)	33500 (32 200 to 34 800)	2.7% (2.6 to 2.7)
Central	73600	33 600	37 900	2020	137 000	58700	74800	3490	2.9%
sub-Saharan Africa	(65300 to 81300)	(29 800 to 37 200)	(33 700 to 41 800)	(1780 to 2250)	(110 000 to 166 000)	(47400 to 70600)	(60100 to 90500)	(2800 to 4230)	(2.5 to 3.4)
Angola	14700	6840	7560	323	32700	15 200	16 700	741	3.8%
	(12600 to 16900)	(5860 to 7850)	(6480 to 8680)	(277 to 371)	(29 100 to 36 400)	(13 500 to 17 000)	(14 900 to 18 600)	(658 to 826)	(3.7 to 4.0)
Central African	3620	1620	1920	85.4	5480	2280	3080	125	2.0%
Republic	(3320 to 3940)	(1490 to 1760)	(1760 to 2080)	(78.5 to 93)	(4510 to 6410)	(1880 to 2670)	(2530 to 3590)	(103 to 146)	(1.5 to 2.3)
Congo (Brazzaville)	3150	1280	1780	98·1	5390	1930	3290	172	2.5%
	(2790 to 3450)	(1130 to 1400)	(1570 to 1940)	(86·9 to 107)	(4590 to 6240)	(1640 to 2230)	(2800 to 3810)	(147 to 200)	(2.3 to 2.8)
Democratic Republic of the Congo	50 200	23100	25 600	1450	90 000	38 000	49700	2340	2.7%
	(41 900 to 58 100)	(19300 to 26700)	(21 400 to 29 700)	(1210 to 1670)	(63 000 to 118 000)	(26 600 to 49 700)	(34700 to 65000)	(1640 to 3070)	(1.9 to 3.4)
Equatorial Guinea	654	309	328	16·3	1510	585	894	33.6	4.0%
	(544 to 758)	(258 to 359)	(273 to 381)	(13·6 to 18·9)	(1360 to 1680)	(527 to 648)	(805 to 990)	(30.3 to 37.3)	(3.8 to 4.3)
Gabon	1230	499	675	53·2	1820	639	1100	74·7	1.9%
	(1090 to 1370)	(442 to 556)	(598 to 753)	(47·1 to 59·4)	(1610 to 2020)	(566 to 709)	(975 to 1220)	(66·1 to 82·9)	(1.8 to 1.9)
Eastern sub-Saharan Africa	250 000 (242 000 to 259 000)	117 000 (113 000 to 121 000)	127 000 (122 000 to 131 000)	6540 (6320 to 6760)	426 000 (406 000 to 447 000)	178 000 (170 000 to 187 000)	236 000 (225 000 to 247 000)	11800 (11300 to 12400)	2·5% (2·5 to 2·6)
Burundi	6390	3040	3160	182	13200	5850	7040	326	3.5%

									in population, 2000–21
	All ages	<15 years	15-64 years	≥65 years	All ages	<15 years	15-64 years	≥65 years	
(Continued from previous page)	ous page)								
Comoros	553	233	300	19·5	744	240	467	37	1.4%
	(505 to 602)	(213 to 253)	(275 to 327)	(17·8 to 21·2)	(612 to 882)	(197 to 284)	(384to 554)	(30.4 to 43.8)	(0.9% to 1.8)
Djibouti	619	238	368	13	1260	413	806	39.8	3·4%
	(546 to 696)	(210 to 268)	(324 to 414)	(11·5 to 14·7)	(1080 to 1450)	(355 to 476)	(693 to 927)	(34.2 to 45.8)	(3·3 to 3·5)
Eritrea	3980	1780	2130	79·7	6600	2520	3900	169	2.4%
	(3370 to 4650)	(1500 to 2070)	(1800 to 2480)	(67·4 to 93)	(4580 to 8750)	(1750 to 3350)	(2710 to 5180)	(118 to 225)	(1.5 to 3.0)
Ethiopia	68 400	32500	34200	1710	109 000	44400	61400	3220	2.2%
	(61 800 to 75 400)	(29400 to 35800)	(30900 to 37700)	(1550 to 1890)	(91 800 to 125 000)	(37400 to 51100)	(51700 to 70700)	(2720 to 3710)	(1.9 to 2.4)
Kenya	31100	14000	16300	831	50100	18 700	29 700	1650	2·3%
	(28 800 to 33 400)	(12900 to 15000)	(15100 to 17500)	(768 to 892)	(46200 to 54000)	(17 200 to 20 100)	(27 500 to 32 100)	(1530 to 1790)	(2·2 to 2·3)
Madagascar	15900	7270	8180	406	28600	11700	16100	687	2.8%
	(14300 to 17500)	(6530 to 8030)	(7360 to 9040)	(365 to 448)	(26100 to 31000)	(10700 to 12700)	(14700 to 17500)	(627 to 745)	(2.7 to 2.9)
Malawi	11100	5080	5690	329	19 400	8120	10800	539	2.7%
	(10200 to 11900)	(4660 to 5470)	(5220 to 6120)	(302 to 354)	(17 900 to 21 000)	(7460 to 8790)	(9900 to 11700)	(494 to 582)	(2.7 to 2.7)
Mozambique	17600	8080	8970	506	31100	14300	16000	767	2.7%
	(16000 to 19100)	(7360 to 8800)	(8180 to 9770)	(461 to 551)	(28200 to 33900)	(13000 to 15600)	(14600 to 17500)	(697 to 838)	(2.7 to 2.7)
Rwanda	8110	3740	4180	197	13300	4970	7850	451	2·3%
	(7420 to 8780)	(3420 to 4050)	(3820 to 4520)	(180 to 213)	(11500 to 14900)	(4310 to 5600)	(6810 to 8840)	(392 to 508)	(2·1 to 2·5)
Somalia	10200	4780	5210	170	21600	10300	10 900	386	3.6%
	(8650 to 11700)	(4070 to 5510)	(4430 to 6000)	(144 to 195)	(15600 to 27000)	(7450 to 12900)	(7850 to 13 600)	(279 to 484)	(2.8 to 4.0)
South Sudan	7270	3300	3770	202	9670	4300	5140	242	1.4%
	(6420 to 8090)	(2920 to 3670)	(3330 to 4190)	(178 to 225)	(8120 to 11000)	(3610 to 4900)	(4310 to 5860)	(203 to 276)	(1.1 to 1.5)
Tanzania	34300	15 600	17700	1070	58 400	24400	32 200	1840	2.5%
	(31500 to 37100)	(14 300 to 16 900)	(16 200 to 19100)	(985 to 1160)	(51 500 to 65 500)	(21500 to 27300)	(28 400 to 36 100)	(1620 to 2060)	(2.3 to 2.7)
Uganda	24300	12200	11500	565	43300	19800	22500	1010	2.8%
	(22200 to 26300)	(11200 to 13300)	(10500to 12400)	(516 to 612)	(38700 to 48300)	(17700 to 22 100)	(20000to 25100)	(905 to 1130)	(2.6 to 2.9)
Zambia	9930	4730	4950	246	19500	8270	10800	455	3.2%
	(9220 to 10 600)	(4390 to 5060)	(4590 to 5290)	(229 to 264)	(16800 to 22300)	(7110 to 9440)	(9270 to 12300)	(391 to 519)	(2.9 to 3.5)
Southern	63700	22 600	38300	2790	80300	24100	51700	4490	1·1%
sub-Saharan Africa	(60000to 67300)	(21300 to 23 800)	(36100 to 40 600)	(2620 to 2960)	(72900to88200)	(22 000 to 26 200)	(46 900 to 56 900)	(4030 to 4970)	(0·9 to 1·3)
Botswana	1700	658	978	58·7	2390	698	1590	105	1.6%
	(1580 to 1820)	(613 to 706)	(911 to 1050)	(54·6 to 62·9)	(2080to 2710)	(606 to 791)	(1380 to 1800)	(90.8 to 118)	(1.3 to 1.9)
Eswatini	1020	445	546	25.8	1160	413	703	40	0.6%
	(927 to 1110)	(406 to 485)	(498 to 595)	(23.5 to 28.1)	(1030 to 1260)	(368 to 451)	(626 to 767)	(35.7 to 43.7)	(0.5 to 0.6)
Lesotho	1740	680	976	79.7	1870	630	1160	83.9	0.4%
	(1570 to 1910)	(617 to 748)	(885 to 1070)	(72.3 to 87.7)	(1680 to 2070)	(566 to 695)	(1040 to 1280)	(75.4 to 92.5)	(0.3 to 0.4)
Namibia	1830	748	1020	65.8	2430	825	1500	101	1.3%
	(1700to 1960)	(695 to 800)	(948 to 1090)	(61.1 to 70.4)	(2090 to 2730)	(711 to 926)	(1300 to 1690)	(87.2 to 114)	(1.0 to 1.6)
South Africa	45 400	15000	28300	2170	56900	15200	38 000	3670	1.1%
	(41 800 to 48 800)	(13800 to 16100)	(26000 to 30400)	(2000 to 2340)	(49700 to 64300)	(13300 to 17200)	(33 200 to 42 900)	(3210 to 4140)	(0.8 to 1.3)
Zimbabwe	12000	5060	6530	389	15600	6290	8810	494	1.2%
	(11100 to 12900)	(4670 to 5440)	(6030 to 7020)	(359 to 418)	(13800 to 17500)	(5570 to 7050)	(7790 to 9860)	(437 to 553)	(1.1 to 1.4)
Western sub-Saharan	259 000	116000	135 000	8220	490000	215 000	261000	13 700	3.0%
Africa	(246 000 to 273 000)	(110000 to	(128 000 to 142 000)	(7790 to 8640)	(462000to518000)	(203 000 to	(247000to 276000)	(12 900 to 14 400)	(3.0 to 3.1)

									rate of change in population, 2000–21
	All ages	<15 years	15-64 years	≥65 years	Allages	<15 years	15-64 years	≥65 years	I
(Continued from previous page)	vious page)								
Benin	6720	3250	3260	201	13500	6080	7050	370	3·3%
	(6170 to 7260)	(2990 to 3520)	(3000 to 3530)	(184 to 217)	(11800 to 15100)	(5330 to 6820)	(6180 to 7910)	(325 to 415)	(3·1 to 3·5)
Burkina Faso	12 400	6050	5970	409	22800	10400	11700	690	2.9%
	(11300 to 13 700)	(5480 to 6660)	(5410 to 6560)	(370 to 450)	(20900 to 24600)	(9550 to 11200)	(10800 to 12700)	(635 to 747)	(2.8 to 3.0)
Cabo Verde	451	188	236	26.9	559	143	382	33.7	1.0%
	(420 to 482)	(176 to 201)	(220 to 252)	(25.1 to 28.8)	(487 to 634)	(125 to 162)	(333 to 434)	(29.4 to 38.2)	(0.7 to 1.3)
Cameroon	15100	6820	7780	453	31800	13500	17500	862	3.5%
	(13600to 16600)	(6160 to 7530)	(7020 to 8590)	(409 to 500)	(26700 to 37200)	(11300 to 15700)	(14600 to 20400)	(723 to 1010)	(3.2 to 3.8)
Chad	8290	4130	3890	269	17700	9010	8330	409	3.6%
	(7350 to 9220)	(3660 to 4590)	(3450 to 4330)	(238 to 299)	(15200 to 20300)	(7720 to 10300)	(7130 to 9510)	(350 to 467)	(3.5 to 3.8)
Côte d'Ivoire	16900 (15700 to 18200)	7290 (6740 to 7850)	9270 (8570 to 9980)	390 (360 to 420)	27900 (24900to31100)	11600 (10300 to 12900)	15 600 (13 900 to 17 400)	728 (649 to 814)	2.4% (2.2 to 2.5)
The Gambia	1350	604	706	40.6	2390	993	1330	72·1	2.7%
	(1240 to 1460)	(555 to 653)	(648 to 763)	(37.3 to 43.9)	(2110 to 2680)	(875 to 1110)	(1170to 1490)	(63·5 to 80·9)	(2.5 to 2.9)
Ghana	19100	8010	10500	642	34200	12900	20200	1200	2.8%
	(17800 to 20400)	(7460 to 8530)	(9770 to 11200)	(598 to 683)	(29700 to 38 900)	(11200 to 14600)	(17500 to 22900)	(1040 to 1360)	(2.4 to 3.1)
Guinea	8100	3750	3970	382	13 400	6050	6960	425	2.4%
	(7380 to 8800)	(3420 to 4070)	(3620 to 4310)	(348 to 415)	(12 000 to 15 000)	(5380 to 6730)	(6200 to 7750)	(379 to 474)	(2.3 to 2.5)
Guinea-Bissau	1250	580	635	31.2	2060	898	1120	46.4	2.4%
	(1080 to 1410)	(504 to 655)	(552 to 717)	(27.2 to 35.3)	(1780 to 2340)	(775 to 1020)	(966 to 1270)	(40 to 52.6)	(2.4 to 2.5)
Liberia	2850	1260	1480	105	5460	2190	3140	138	3·1%
	(2520 to 3180)	(1120 to 1410)	(1310 to 1650)	(93·3 to 118)	(4610 to 6310)	(1840 to 2530)	(2650 to 3630)	(117 to 160)	(2·9 to 3·3)
Mali	11 100	5280	5450	338	24100	11 600	11 900	633	3.7%
	(10 200 to 12 000)	(4850 to 5710)	(5010 to 5900)	(311 to 366)	(20600to 27500)	(9900 to 13 200)	(10 200 to 13 600)	(541 to 722)	(3.4 to 4.0)
Mauritania	2610	1150	1360	99·4	4400	1850	2370	169	2.5%
	(2440 to 2790)	(1080 to 1230)	(1270 to 1450)	(92·7 to 106)	(3880 to 4930)	(1640 to 2080)	(2100 to 2660)	(149 to 189)	(2.2 to 2.7)
Niger	11300	5560	5470	248	25 000	12800	11700	572	3.8%
	(10400 to 12100)	(5130 to 5980)	(5050 to 5880)	(229 to 267)	(21 900 to 28 000)	(11200 to 14300)	(10200 to 13100)	(500 to 641)	(3.5 to 4.0)
Nigeria	123 000	53 400	65300	3950	231 000	102 000	123000	6200	3.0%
	(110 000 to 135 000)	(48 000 to 58 900)	(58700 to 72100)	(3550 to 4360)	(206 000 to 258 000)	(90 400 to 113 000)	(110000to 138000)	(5510 to 6920)	(3.0 to 3.1)
São Tomé and	144	64·5	73·1	6	217	77.8	131	7.8	2.0%
Príncipe	(133 to 154)	(59·7 to 69·4)	(67·7 to 78·7)	(5·6 to 6·5)	(191 to 243)	(68·6 to 87·3)	(116 to 147)	(6.8 to 8.7)	(1.7 to 2.2)
Senegal	9930	4390	5210	337	15900	6360	8920	583	2.2%
	(9180 to 10 700)	(4060 to 4720)	(4810 to 5600)	(312 to 362)	(14000 to 17600)	(5620 to 7060)	(7880 to 9900)	(515 to 647)	(2.0 to 2.4)
Sierra Leone	4420	1980	2260	182	8870	3580	5010	276	3·3%
	(4010 to 4810)	(1800 to 2160)	(2050 to 2450)	(164 to 197)	(7940 to 9810)	(3200 to 3960)	(4490 to 5550)	(247 to 305)	(3·3 to 3·4)
Togo	4850	2180	2560	114	8370	3310	4810	254	2.6%

Table 5: The 2000 population and 2021 population and annualised rate of change in population (2000–21), globally and for GBD super-regions, regions, countries, and territories

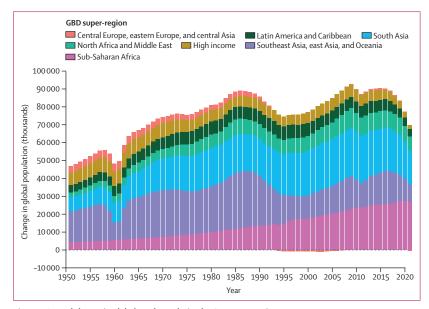


Figure 9: Annual change in global total population by GBD super-region, 1950–2021

Annual change is defined as the difference between the population size in the current year and the preceding year.

Different colours show GBD super-regions. GBD=Global Burden of Diseases, Injuries, and Risk Factors Study.

Italy, Lithuania, Moldova, Monaco, Romania, and Serbia, and to an even larger extent between 2010 and 2019 (figure 10). Of the 204 countries and territories, peak population was reached between 1950 and 1969 in three countries and territories, between 1970 and 1989 in eight countries and territories, between 1990 and 2009 in 23 countries and territories, between 2010 and 2021 in 22 countries and territories, and the peak population had not yet been reached as of 2021 in 148 countries and territories.

The age structure of populations changed substantially across the globe between 1950 and 2021, with a general shift in the distribution away from younger ages and towards older ages (table 5). From 2000 to 2021, the proportion of the population aged younger than 15 years decreased in 196 of 204 countries and territories, with some of the largest declines observed in Saudi Arabia (from 36.0% to 20.1%) and Syria (41.5% to 26.1%). The eight countries in which the proportion of the population aged younger than 15 years did not decline were Angola, Chad, Kazakhstan, Mali, Niger, Nigeria, Russia, and Somalia. During this same period, the proportion of the population aged 65 years and older increased in 175 of 204 countries and territories; some of the largest increases were observed in Japan (from 17.2% to 28.9%) and Puerto Rico (from 11.0% to 22.0%). Three of 204 countries and territories had an increase in the proportion of the population aged younger than 15 years combined with a decline in the proportion of the population aged 65 years and older; these nations (Mali, Nigeria, and Chad) are all located in sub-Saharan Africa. The ratio of the population aged 65 years and older to the population aged less than 15 years increased between 2000 and 2021 in 188 of 204 countries and territories, including all nations within the high-income; Latin America and the Caribbean; south Asia; and southeast Asia, east Asia, and Oceania super-regions (figure 11). Some of the largest increases occurred in Japan, Puerto Rico, and South Korea. The countries and territories in which this ratio did not increase were Afghanistan, Benin, Burkina Faso, Burundi, Cameroon, Chad, Democratic Republic of Congo, Guinea, Guinea-Bissau, Kyrgyzstan, Liberia, Mali, Mozambique, Nigeria, Sierra Leone, and South Sudan.

Discussion

Main findings

Our comprehensive set of updated demographic metrics indicate profound changes in the global health landscape during the first 2 years of the COVID-19 pandemic relative to historical trends. Long-term trends of decreasing mortality were superseded by marked increases in mortality rates in age groups older than 15 years during 2020 and 2021; in contrast, mortality in children under 5 years remained largely unaffected by the pandemic and continued to decrease globally. Global life expectancy declined sharply during 2020 and 2021, reversing the longstanding trend of life expectancy improvement. Agestandardised rates demonstrated the pandemic was disproportionately severe countries in sub-Saharan Africa, the Middle East, south Asia, and Latin America. The COVID-19 pandemic has also highlighted the need for timely and comprehensive data collection and reporting. The development of high-quality civil registration and vital statistics systems has stagnated in many parts of the world due to multifaceted societal, financial, logistical, legislative, and political reasons, with notable exceptions including China, India, and some countries in north Africa and the Middle East. Population growth has slowed globally since 2017, although future declines might not persist at rates similar to those in 2020 and 2021 as the pandemic eases. In contrast, population growth is steady in south Asia and accelerating in sub-Saharan Africa. Increasing populations in many low-income and middle-income locations, combined with a shift in the age distribution away from younger ages and towards older ages, is likely to lead to new social, economic, and political challenges.

Data availability and gaps

Although the proportion of registered deaths has continuously increased at the global level since 1950, we observed marked variability across GBD super-regions and individual countries and territories. Civil registration and vital statistics are particularly scarce in sub-Saharan Africa; investment in vital registration system development in these nations is recommended to improve the availability of data necessary for accurate health measurements and policy evaluation. The COVID-19 pandemic highlighted the need for accessible and up-to-

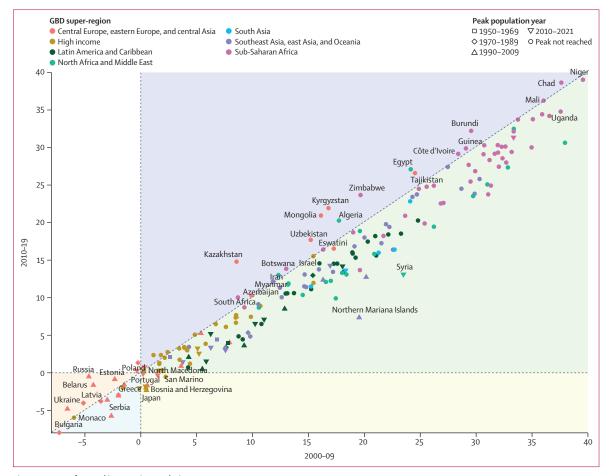


Figure 10: Rate of natural increase in population, 2010–19 versus 2000–09
Rate of natural increase is shown for 204 countries and territories coloured by GBD super-region. The rate of natural increase is calculated as the number of births minus the number of deaths divided by the person-years during the time period. The shape of the datapoints represents the year that peak population was reached. Purple shading indicates a higher rate of natural increase between 2010 and 2019 than between 2000 and 2009; green shading denotes a higher rate between 2010 and 2019; han between 2010 and 2019; yellow shading indicates a negative rate between 2010 and 2019 and a positive rate between 2000 and 2009; blue shading denotes a negative rate across all years that was most pronounced between 2010 and 2019; orange shading indicates a negative rate across all years that was most pronounced between 2000 and 2009; white shading denotes a negative rate between 2000 and 2009 and a positive rate between 2010 and 2019. The years 2020 and 2021 were omitted due to the impact of the COVID-19 pandemic on deaths. GBD=Global Burden of Diseases, Injuries, and Risk Factors Study.

date health data when trying to understand and track emerging global health events. Much uncertainty remains about the true extent of the effect of the pandemic on mortality in countries and territories with minimal to no vital registration data available, which is particularly concerning considering that these countries are potentially the most negatively impacted by the pandemic. With the exception of China, India, and some countries in north Africa and the Middle East, progress in improving the extent of global death registration has slowed perhaps due to a focus on cheaper but less permanent and systematic data collection efforts, such as small-scale and large-scale surveys. Although surveys are an invaluable source of demographic information, investing in more expensive yet comprehensive civil registration and vital statistics systems is crucial to monitor and improve population health.²⁶

Beyond creating and improving civil registration and vital statistics systems, countries and territories without data during the past decade would also benefit from collecting additional data from other sources, such as censuses and nationally representative surveys. 30 countries and territories had no available data on child mortality for the period 2015-21, and 62 countries and territories had no available data on adult mortality. 41 countries and territories had no usable census data between 2010 and 2021, but census data were available before 2000 for these countries. Furthermore, the COVID-19 pandemic interrupted many data collection efforts, such as the USAID Demographic and Health Surveys Program,²⁷ and national censuses, which are now resuming.28 Impacts such as these must be resolved to improve future data availability.

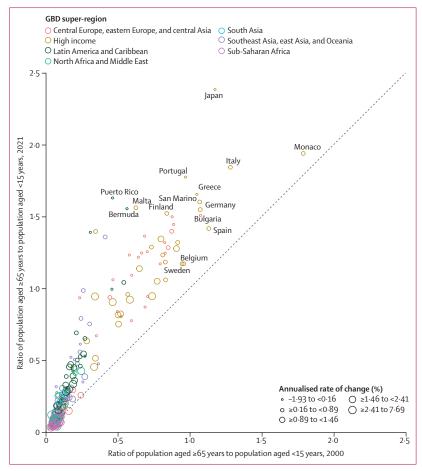


Figure 11: Ratio of the number of individuals older than 65 years to those younger than 15 years, 2000 versus 2021

This ratio is shown for 204 countries and territories coloured by GBD super-region. The size of the datapoints indicates the annualised rate of change in total population from 2000 to 2021, and the black dotted line represents the line of equality. GBD=Global Burden of Diseases, Injuries, and Risk Factors Study.

Impact of the COVID-19 pandemic

The COVID-19 pandemic had differential effects on mortality across the lifespan. Life expectancy decreased in every GBD super-region and 84% of countries and territories from 2019 to 2021, but younger age groups were minimally affected. This finding is a welcome contrast to early warnings about potentially devastating impacts of the pandemic on child mortality.²⁹ Conversely, increases in mortality rates in populations aged 25 years and older were observed on a scale not seen in the previous 70 years.30 Although the burden of excess deaths and all-age excess mortality rates due to the pandemic was largest in countries in central and eastern Europe, and Latin America, our analysis of age-standardised mortality rates highlights the relative severity of the pandemic's effects on mortality in certain countries within sub-Saharan Africa, the Middle East, south Asia, and Latin America. There was a general association between higher SDI and lower excess mortality, but this association was not particularly strong, and many countries were exceptions to this association, suggesting that at the population level, SDI was not always a strong predictor of excess mortality due to the COVID-19 pandemic in 2020 and 2021. Excess mortality was particularly high in nations such as Bolivia and South Africa when compared with other countries and territories with a similar SDI, which some have argued was in part due to relaxed containment strategies and vaccine hesitancy.31 Conversely, excess mortality was particularly low in countries such as the Solomon Islands and Bhutan, which might be a reflection of delayed transmission in more isolated nations and of high vaccination rates.32 These findings emphasise that mortality outcomes during the COVID-19 pandemic were not solely determined by SDI and that vaccination efforts, public policies, and individual behaviour changes likely influenced the severity of the pandemic across countries and territories at all levels of SDI.33-37 Reports published as recently as 2023 have shown that since 2021, mortality due to the pandemic has declined, 38,39 presumably driven by vaccination efforts, public policies, individual behaviour changes, and the emergence of new SARS-CoV-2 variants with lower case-fatality ratios. 40,41 However, mortality has increased in some locations, which might be due to lifting of protective restrictions.⁴²

Long-term mortality trends

In the era of the UN Sustainable Development Goals (SDGs), there has been a decline in the global U5MR, which continued during the COVID-19 pandemic. However, progress has varied substantially between countries, and many continue to lag behind SDG targets. Based on the trajectory of U5MR between 2010 and 2021, 38 countries will not reach SDG target 3.2 of a U5MR at least as low as 25 deaths per 1000 livebirths by 2030 (appendix 2 table S2A). To eradicate preventable under-5 deaths, more equitable global strategies intensified in regions with the highest rates—are imperative. Compared with child mortality, reductions in adult mortality have not been as consistent globally. Historically, increased adult mortality was observed in the 1990s in countries spanning eastern and southern Africa, eastern Europe, and central Asia. During the late 2010s, some high-income nations, including the USA, have had mortality spikes, particularly among the 15-39-years age group, which reflect mortality patterns associated with increased drug and alcohol misuse and mental health disorders. 43,44 The 15-39-years age group is particularly volatile globally, and is the age group most affected by fatal discontinuities such as conflict.⁴⁵ Sex differences in mortality vary widely across the globe. The global ratio of male to female mortality has generally increased, although it has differed as a function of age. The largest variability in the ratio of male to female mortality was in the 15-39-years age group with much less variability observed in younger and older age groups. These differences go beyond biological explanations and

highlight the importance of future efforts to address mortality risks to which males are particularly susceptible due to behavioural factors, war and conflict, occupational hazards, homicide, and suicide. 46,47 The substantial differences among countries show, however, that it is also important to address mortality risks that predominantly affect women, such as maternal mortality, gender-based violence, and economic disparities. 48,49 We also found that life expectancy was consistently higher in countries in the Americas, east Asia, and western Europe than countries in sub-Saharan Africa, and this effect was strongly associated with SDI. Although we did not establish causal effects, this finding is supported by many studies showing that social determinants of health are key drivers of mortality,50-54 and improving education, economic prosperity, and gender inequalities is vital for continual progress in health outcomes globally. However, notable exceptions regarding the relationship between mortality and SDI indicate that other factors are also involved.

Population dynamics and age structures

Although the rate of global population growth has plateaued and started to decline since 2017, in lower income countries—primarily in sub-Saharan Africa—rapid population growth has continued. Thus, much of future population growth will likely occur in the poorest regions. Resource scarcity and rapid infrastructure expansion will be crucial issues to address.^{55,56} These factors, and a history of colonialism, can contribute to political instability.^{57,58} These challenges will require responses from governments and the global community. Furthermore, the concentration of population growth has shifted to locations with the poorest health—ie, locations with the highest child mortality rates. This might lead to challenges in continuing improvement of health outcomes.

Outside of these locations, slowing of population growth is widespread. Although most countries and territories had not reached a peak population as of 2021, in 171 of 204 countries and territories a lower rate of natural increase was observed between 2010 and 2019 than between 2000 and 2009. Furthermore, our analysis of population age structures over time indicated a prominent shift towards older ages in most regions and nations. As older populations expand and reduced younger populations reach working-age, nations could encounter economic and social challenges requiring updated policies related to health care, retirement, reproduction, childcare, and migration.59-62 The shift towards a higher ratio of older people to younger people will require greater attention to be paid to labour shortages, health systems strengthening, and evaluation of government policies on retirement and health care. 61,63,64 However, beneficial consequences such as the so-called second demographic dividend of greater personal wealth and investment in human capital might offset some of these challenges.65 Future research on these topics must seek to understand how changing population dynamics impact health outcomes and systems, and how health interventions can be tailored to address the unique challenges posed by these demographic shifts. Migration is particularly relevant to these challenges. Voluntary emigration from locations with younger adult population bulges to locations in need of more labour to support ageing populations is an open public policy discussion. 66,67 The level of migration needed to support older age populations is dynamic and is likely to change over time with technological innovations and new public policies. 68 Furthermore, environmental constraints in some highincome countries might limit immigration possibilities. Migration of skilled workers out of lower-income countries might consequently worsen these economies. 69,70 Global cooperation is necessary, and guidelines such as the UN Global Compact for Safe, Orderly and Regular Migration⁷¹ can help lead this work.

Comparisons between GBD 2021 estimates and other estimates

There are numerous differences in data processing and statistical modelling assumptions between the GBD 2021 estimates reported here and those from other demographic studies that provide important advantages. Excess mortality estimates for 2020 and 2021 have been previously reported in the GBD study and by other institutes. Our previous excess mortality estimates reported 18.2 million (95% UI 17·1–19·6) excess deaths in this study. Estimating mortality during the COVID-19 pandemic was particularly difficult due to many factors including delays in reporting, differing granularity of available data, and political will to provide accurate data. Although our earlier estimates were based on the best available data and methodology at the time, we have made data and modelling improvements that resulted in this lower estimate. We updated to more reliable data sources in some countries that corrected errors in reporting, and included more data up to the end of 2021. Methodologically, we modelled data at the yearly level, and additionally included age-specific detailed projections from our GBD mortality modelling process to inform our non-pandemic counterfactual, which generally led to higher estimates of expected non-pandemic mortality and thus lower excess mortality.

Our current estimate of global excess mortality during 2020 and 2021 is comparable to the WHO estimate of 14·9 million (95% UI 13·3–16·6) excess deaths, with our mean estimate falling within the uncertainty interval of the WHO estimate and vice versa. Our estimates tend to be higher than those of WHO for sub-Saharan Africa, with the largest differences being 233 000 more deaths in Nigeria and 177 000 more deaths in Ethiopia; and south Asia, with the largest differences being 262 000 more deaths in Pakistan and 171 000 more deaths in Bangladesh. However, our estimate for India was 1·3 million deaths lower than that of WHO, which is the

largest discrepancy in this direction. We also estimated 123 000 more excess deaths in China—our results indicated positive excess, whereas WHO estimated negative excess. The largest differences occur in locations for which little or no all-cause mortality data were available for the pandemic period, and thus estimates relied on predictive models. These differences reflect different covariates used for predictions models. Additionally, WHO models and predicts all-cause mortality rates in locations without data, whereas we predict excess mortality rates directly, which leads to different assumptions and functional forms for statistical models. Differences in locations with all-cause mortality data are driven by different data processing steps and different models for expected non-pandemic mortality.

The latest estimates from UNICEF, published in 2023, reported a global U5MR of 38·1 deaths (95% UI $36 \cdot 1 - 42 \cdot 2$) per 1000 livebirths in 2021,⁷² which is consistent with our estimate of 35.7 deaths (30.5-42.0)per 1000 livebirths. The mean relative difference at the national level between our 2021 U5MR estimates and those provided by UNICEF is -2.6%, ranging from -58.4% to 111.9%. Similar to our estimates, the UNICEF estimates show a continued decreasing trend in child mortality during the COVID-19 pandemic. Between 1950 and 2019, the mean relative difference between our estimates and UNICEF estimates across countries and territories was -2.0%, ranging from -64.3% to 154.6%. These differences primarily reflect differences in data inclusion, processing, and synthesis. For example, our estimate of mortality in Iran in 2021 is 58.4% lower than that of UNICEF. We included vital registration data from 2021 and our estimates closely match this observed mortality, whereas UNICEF does not include these data, leading to higher estimates. Using the most recent available data suggests our estimates are more reliable.

Adult mortality estimates at the country level from the 2022 UN World Population Prospects (WPP) report are on average 11.1% lower than our 2021 estimates, 13 which range from 41.8% lower to 289.5% higher. Between 1950 and 2019, the mean relative difference between our adult mortality estimates and those from WPP 2022 was -4.3%, ranging from -64.0% to 229.6%. Differences between WPP 2022 estimates of national life expectancy at birth and those from GBD 2021 are primarily driven by these differences in adult mortality estimates, and variability in child mortality estimates. While locationyears with complete death registration show substantial agreement between estimates, with a mean relative difference of 1.3%, our estimates for 2021 range from 7.8 years lower to 10.1 years higher, and our estimates for years before the COVID-19 pandemic range from 20.4 years lower to 38.4 years higher. The largest discrepancies were due to location-years with large fatal discontinuities or scarcity of high-quality vital registration data. Furthermore, discrepancies between 2021 estimates are highly influenced by the differences in estimation of excess mortality due to the COVID-19 pandemic. As one of the largest differences, our life expectancy estimate for Nigeria in 2021 is 10·1 years higher than the WPP estimate, driven by our estimated 41·8% lower adult mortality. Our adult mortality estimates more closely follow the bulk of the data from sibling-survival histories, and our age-specific mortality estimates rely on a database of 43758 empirical life tables as opposed to the Coale-Demeny north model life table used by WPP 2022, which has been shown to underperform compared with other modern model life table methods.^{73,74}

For further comparison with WPP and as a model validation exercise, we compared estimated age-specific mortality rates and death counts from our analysis and from WPP with those calculated directly from all locationyears of vital registration data deemed to have complete death registration. When comparing our results, we used our population estimates as the denominator to calculate mortality rates from vital registration; similarly, we used WPP population estimates as the denominator for that comparison. Across all location-year-age-sex mortality rates, our estimates had mean absolute error of 0.024, indicating a good fit to the data, along with root mean squared error (RMSE) of 0.52. These were lower than the respective 0.033 and 0.53 calculated for WPP. Similarly, our death count estimates had a mean absolute error of 84.8 and RMSE of 365 compared with a mean absolute error of 222 and RMSE of 1032 for WPP

Estimates of the global population from WPP 2022 are similar to that of this study, with an estimated global population of 7·91 billion in 2021, compared with our estimate of 7·89 billion (95 % UI 7·67–8·13). On average in 2021, country-level population estimates were 0·2% lower in GBD 2021 than WPP 2022 and ranged from 34·2% lower to 82·2% higher. For specific ages, differences in the younger than 15 years age group ranged from 48·0% lower to 75·3% higher, while differences in the 65 years and older age group ranged from 36·0% lower to 39·5% higher. The largest relative differences were for locations in which no recent census data were available, and those with substantial net inmigration from other countries.

Limitations

This research has several limitations. First, estimates continue to be limited by data source availability and scope. COVID-19 showed the crucial need to create more robust vital registration systems that can highlight the differential effects of disease and injury across population subgroups in a timely manner. 93 of 204 countries and territories had no available all-cause mortality data to estimate excess mortality due to the COVID-19 pandemic, which means our estimates in these areas are solely driven by associations with covariates. These locations were

largely in regions where the effects of the pandemic were most severe. Furthermore, the scarcity of high-quality civil registration and vital statistics systems to produce reliable data in many low-income and middle-income countries introduces large-scale uncertainty in all demographic estimates. Additionally, population estimates in certain countries rely on modelled projections due to no available recent censuses. Future development of reliable data sources is crucial because estimates improve as the quality of underlying data improves. Subsequent GBD cycles will provide revised estimates after additional data for recent years become available.

Second, analysis of more granular subpopulations such as subnational areas or by other population characteristics was restricted by data availability. Although our effort represents the most comprehensive global analysis of mortality and population, the estimates presented in this research mask substantial heterogeneity in smaller geographies. This limits the utility of our estimates to provide insights for more targeted interventions, for example, understanding occupational hazards in industrial regions. Improving this aspect of the research requires more comprehensive and detailed data, such as by race, ethnicity, socioeconomic status, and smaller administrative levels,75-77 and future work will aim to produce more comprehensive health metrics.

Third, the GBD demographics approach has not developed an encompassing model to estimate migration together with population, mortality, and fertility. Estimating migration in a model that jointly informs population, mortality, and fertility will not only improve accuracy of population estimates, but also allow assessing and improving corrections for death registration completeness and census coverage. This is crucial in locations with large migration flows, such as the United Arab Emirates and Qatar, where current methods for these corrections might not perform well.78.79 The increased importance of migration at present and in the future, especially considering the shifting age structure in many populations, places renewed importance on producing reliable migration estimates.

Fourth, we assumed a binomial distribution when calculating data variance and did not evaluate other models of distribution. Some of our input data might be overdispersed, resulting in inaccurate estimates of data variance. However, we do not expect that changing our assumptions on the distribution would have a sizeable impact on estimates since the sampling errors on vital registration and civil registration mortality and fertility data are likely to be much smaller than non-sampling errors. In the future, we will consider testing such assumptions.

Fifth, computational resources did not permit propagation of uncertainty for all covariates throughout the analytical process. While uncertainty from model estimation was accounted for at each stage, such as U5MR, adult mortality, and age-specific mortality rates,

uncertainties for some covariates such as lag-distributed income and education were not. Similarly, estimates of coefficients in the COVID-19 excess mortality prediction model did not include uncertainty. Future iterations of GBD will investigate computationally more efficient implementation of current methods and development of new methods to allow for all sources of uncertainty to be included in modelling.

Future directions

The COVID-19 pandemic will likely continue to impact estimates of demographic trends in future years due to reporting lags and the persistent effects of the pandemic. Future research should focus on understanding the full demographic impact of the pandemic in 2022 and beyond. Methodologically, we aim to improve our incorporation of excess mortality and COVID-19 direct mortality estimates into the GBD mortality estimation process, rather than post-hoc unification of two separate modelling endeavours. We also plan to develop a standalone migration model and integrate this model into the GBD demographic estimation process. Along with this, we aim to simultaneously estimate mortality and population rather than the current sequentially iterative approach. This would allow the uncertainty in mortality estimates to inform population estimates and vice versa, helping address issues in age, period, and cohort trends that might otherwise arise.

Conclusion

Tracking long-term health trends and evaluating the impact of the COVID-19 pandemic require accurate global, regional, and national estimates of mortality, life expectancy, and population, because these crucial demographic indicators foundationally underpin our understanding of population health. The comprehensive demographic metrics reported in this study show that marked reversals in adult mortality and life expectancy trends occurred during 2020 and 2021, leading to increased mortality and reduced life expectancy worldwide. This increased mortality did not occur in younger populations: mortality rates in children under 5 years continued to decline globally during the first 2 years of the pandemic, although more equitable and intensified investment is needed to achieve SDG targets in many locations. While global population growth is slowing, geographical distributions and age structures are undergoing fundamental shifts—low-income countries and territories continue to grow, and population structures across the globe are ageing. Nations in the post-pandemic world will need to address emerging health-care, economic, and social challenges with new policies and practices. The development, implementation, and evaluation of these health policies and practices in diverse locations around the world can be informed and guided by the GBD 2021 demographic estimates. Accurate mortality, life expectancy, and population estimates might be even more important to informing policy and practice in a post-pandemic world than in the past. Collectively, the extensive set of demographic estimates reported here represent a valuable global tool for policy evaluation, development, and implementation in diverse locations around the world.

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Please see appendix 1 section 9 for more detailed information about individual author contributions to the research, divided into the following categories: managing the overall research enterprise; writing the first draft of the manuscript; primary responsibility for applying analytical methods to produce estimates; primary responsibility for seeking, cataloguing, extracting, or cleaning data; designing or coding figures and tables; providing data or critical feedback on data sources; developing methods or computational machinery; providing critical feedback on methods or results; drafting the manuscript or revising it critically for important intellectual content; and managing the estimation or publications process. Members of the core research team for this topic area had full access to the underlying data used to generate estimates presented in this article. All other authors had access to and reviewed estimates as part of the research evaluation process, which includes additional stages of formal review. The corresponding and senior authors had full access to the data in the study and final responsibility for the decision to submit for publication.

Declaration of interests

Olugbenga Olusola Abiodun reports payment or honoraria for lectures and presentations from Cardiocare Hospital, Servier, and AstraZeneca; support for attending meetings from Boehringer Ingelheim, Megalifesciences, and MSN; all outside the submitted work. Saira Afzal reports payment for educational events and webinars from King Edward Medical University and collaborative partners including University of Johns Hopkins, University of California, University of Massachusetts, University of Nebraska, Imperial College London, KEMCA-UK, KEMCAANA, and APPNA; participation on data safety monitoring boards or advisory boards for the National Bioethics Committee Pakistan, the King Edward Medical University institutional ethical review board, and the Fatima Jinnah Medical University and Sir Ganga Ram Hospital ethical review board; leadership or a fiduciary role in other board, society, committee, or advocacy groups, paid or unpaid, for the Pakistan Association of Medical Editors, fellow of Faculty of Public Health Royal Colleges UK, Society of Prevention, Advocacy And Research, King Edward Medical University, and Member Pakistan Society of Infectious Diseases; other financial or non-financial interest as a member Corona Experts Advisory Group, member of the Dengue Advisory Group, member of the Technical Working Group and Guidelines development for COVID-19, has provided expert opinion in National Command and Operation Committee Government of Pakistan. member of the Research and Journals Committee Pakistan Medical and Dental Council, member of the Higher Education Commission Research and Publications Committee on Quality Assurance Agency, dean of Public Health and Preventive Medicine King Edward Medical University, director of Quality Enhancement Cell King Edward Medical University, chief editor of Annals of King Edward Medical University, and Chief Editor History Book King Edward Medical University; all outside the submitted work. Robert Ancuceanu reports payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from AbbVie, Sandoz, B Braun, Laropharm, and MagnaPharm, all outside the submitted work, Ruhai Bai reports support for the present manuscript from the Fundamental Research Funds for the Central Universities (grant number 30923011101) and the Social Science Fund of Jiangsu Province (grant number 21GLD008). Ovidiu Constantin Baltatu reports support for the present manuscript from the National Council for Scientific and Technological Development (grant number 304224/2022-7) and Anima Institute - AI research professor fellowship; leadership or a fiduciary role in other board, society, committee or advocacy group, paid or unpaid, as a board member of the Biotechnology Board at São José dos Campos Technology Park and an Academic Ambassador for Afya, outside the submitted work. Michelle L Bell reports grants or contracts from the US Environmental Protection Agency, National Institutes of Health, High Tide Foundation, Health Effects Institute Yale Women Faculty Forum Environmental Defense Fund, Wellcome Trust Foundation, Yale Climate Change and Health Center, Robert Wood Johnson Foundation, and the Hutchinson Postdoctoral Fellowship, all as payments to their institution; consulting fees from Clinique: honoraria for speakers bureaus from Colorado School of Public Health, Duke University, University of Texas, Data4Justice, Korea University, Organization of Teratology Information Specialists, UPenn, Boston University, honoraria for editing duties from IOP Publishing, honoraria for grant review from NIH, Health Canada, PAC- 10, UK Research and Innovation, AXA Research Fund Fellowship, and honoraria for external advisory committee from Harvard University and University of Montana; travel reimbursement from Colorado School of Public Health, University of Texas, Duke University, Boston University, UPenn, Harvard University, American Journal of Public Health; leadership or a fiduciary role in other board, society, committee or advocacy group, unpaid, with the Fifth National Climate Assessment, Lancet Countdown, Johns Hopkins EHE Advisory Board, Harvard external advisory committee for training grant, WHO Global Air Pollution and Health Technical Advisory group, and National Academies Panels and Committees, and paid roles with the US EPA Clean Air Scientific Advisory Committee; all outside the submitted work. Paulo J G Bettencourt reports other financial or non-financial interests with the Botnar Foundation as project reviewer, outside the submitted work. Pra Bhardwaj reports stock options in Doximity in 2020 and 2021 for being a Doximity fellow, outside the submitted work. Sonu Bhaskar

reports grants or contracts from the Japan Society for the Promotion of Science (JSPS) through grants-in-aid for Scientific Research KAKENH and a JSPS International Fellowship (2023-25); leadership or a fiduciary role in other board, society, committee or advocacy group, paid or unpaid, as chair of the Global Health and Migration Hub Community for Global Health Hub Germany, Berlin, district chair; Diversity, Equity, and Inclusion for Rotary District 9675, Australia; and as editorial board member with Frontiers in Stroke, Frontiers in Neurology, PLOS One, BMC Medical Research Methodology, BMC Neurology, and Frontiers in Public Health; all outside the submitted work. Zulfigar A Bhutta reports leadership or a fiduciary role in other board, society, committee or advocacy group, paid or unpaid, as member and chair of the Board of Governors of the National Institutes of Health, Pakistan, outside the submitted work. Boris Bikbov reports grants or contracts from the European Commission; support for attending meetings or travel expenses from the European Renal Association; an unpaid leadership role in the advocacy group International Society of Nephrology; and other non-financial interests in Scientific-Tools.org for a public health consultancy; all outside the submitted work. Atanu Biswas reports consulting fees from INTAS Pharmaceuticals, Lupin Pharmaceuticals, and Alkem Laboratories; and payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing, or educational events from Roche Diagnostic; all outside the submitted work. Edward J Boyko reports payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from the Korean Diabetes Association, Diabetes Association (Taiwan), and the American Diabetes Association, all outside the submitted work. Márcia Carvalho reports other financial or non-financial interests in LAQV-REQUIMTE and the Faculty of Science and Technology under the scope of the project UIDP/50006/2020, outside the submitted work. Joao Conde reports grants or contracts from the European Research Council (starting grant ERC-StG-2019-848325; €1.5 million funding), outside the submitted work. Saswati Das reports leadership or a fiduciary role in other board, society, committee or advocacy group, unpaid, with the Association for Diagnostics and Laboratory Medicine, and the Women in Global Health India Chapter, outside the submitted work. Louisa Degenhardt reports educational grants from Indivior to examine new opioid medications in Australia, outside the submitted work. Andreas K Demetriades reports leadership or a fiduciary role in other board, society, committee or advocacy group, unpaid, with the AO Knowledge Forum Degen Steering Committee, Global Neuro Foundation Board, and the European Association of Neurological Societies board, all outside the submitted work. Susanna J Dunachie reports support for the present manuscript from the UK Fleming Fund at Department of Health and Social Care, Bill & Melinda Gates Foundation, Wellcome Trust, and UK National Institute of Health and Care Research (NIHR); grants or contracts from UKRI (MR/W02067X/1 and MR/W020653/1), the US Defense Threat Reduction Agency, Wellcome Drug Resistant Infections Discretionary Award, and UK Department of Health and Social Care; consulting fees from Scottish Parliament for serving as Scientific Advisor and from Wellcome for serving as funding committee member; participation on the Data Monitoring Committee for UK STABILISE study of BCG Vaccine in COPD; leadership or a fiduciary role in other board, society, committee or advocacy group, paid or unpaid, as a member of the New and Emerging Respiratory Virus Threats Advisory Group, chair of Wellcome SEDRIC subgroup on data standards and harmonisation in antimicrobial resistance, UK, member of the Variant Technical Group for SARS-CoV-2 for UK Health Security Agency, expert adviser to WHO's Global Antimicrobial Resistance Surveillance System, member of WHO Guidelines Development Group on Treatment of Ebola; all outside the submitted work. Andre Faro reports support for the present manuscript from Coordination of Superior Level Staff Improvement (Brazil), Productivity in Research Scholarship (PQ Scholarship). Irina Filip and Amir Radfar report support for the present manuscript from Avicenna Medical and Clinical Research Institute, Artem Alekseevich Fomenkov reports support for the present manuscript from Ministry of Science and Higher Education of the Russian Federation (theme number 121050500047-5). Lisa M Force reports support for the present manuscript from the Gates Foundation; grants or contracts from Conquer Cancer Foundation, St Jude Children's Research Hospital, St

Baldrick's Foundation, and NIH Loan Repayment Program; leadership or a fiduciary role in other board, society, committee or advocacy group, unpaid, with the Lancet Oncology International Advisory Board; all outside the submitted work. Matteo Foschi reports consulting fees as a scientific consultant for Roche and Novartis; support for attending meetings or travel from Roche, Novartis, Biogen, Merck, and Sanofi; and a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid as a member of the MSBase Collaboration Scientific Leadership Group; outside the submitted work. Richard Charles Franklin reports grants or contracts from Heatwaves in Queensland and Arc Flash Human Factors (Government of Queensland), and Mobile Plant Safety (Agrifutures); honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from the World Safety Conference 2022 as the conference convener; support for attending meetings or travel from the Tropical Medicine and Travel Medicine Conference (2022, 2023) and the Travel Medicine Conference (Basel 2023); a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid as the Director of Kidsafe, Director of Farmsafe, Director of Auschem, a member of the Governance Committee of ISASH, and Injury Prevention special interest group convenor, Public Health Association of Australia; outside the submitted work. Emmanuela Gakidou reports support for the present manuscript from the Gates Foundation. Ouan Gan reports other financial or non-financial interest in the International Agency for Research on Cancer, WHO; the authors alone are responsible for the views expressed in this article and they do not necessarily represent the decisions, policy or views of the International Agency for Research on Cancer or WHO. Paramjit Singh Gill reports support for the present manuscript from the NIHR as senior investigator with payments to their institution; the views expressed in this publication are those of the authors and not necessarily those of the NIHR or the UK Department of Health and Social Care. Avirup Guha reports grants or contracts from the American Heart Association and Department of Defense; consulting fees from Pfizer, Novartis, and Myovant; and a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid, with ZERO Prostate Cancer Health Equity Task Force; all outside the submitted work. Claudiu Herteliu reports grants or contracts from the Romanian Ministry of Research Innovation and Digitalizatio (project number ID-585-CTR-42-PFE-2021), a grant of the European Commission Horizon 4P-CAN (Personalised Cancer Primary Prevention Research through Citizen Participation and Digitally Enabled Social Innovation), project "Societal and Economic Resilience within multi-hazards environment in Romania" funded by European Union-NextgenerationEU and Romanian Government, under National Recovery and Resilience Plan for Romania (contract number 760050/23.05.2023, cod PNRR-C9-I8-CF 267/29.11.2022), through the Romanian Ministry of Research, Innovation and Digitalization, within Component 9, Investment I8; and project "A better understanding of socio-economic systems using quantitative methods from Physics" funded by European Union–NextgenerationEU and Romanian Government, under National Recovery and Resilience Plan for Romania (contract number 760034/23.05.2023, cod PNRR-C9-I8-CF 255/29.11.2022), through the Romanian Ministry of Research, Innovation and Digitalization, within Component 9, Investment 18; outside the submitted work. Michael Hultström reports support for the present manuscript from Knut och Alice Wallenberg Foundation, Swedish Heart-Lung Foundation, and the Swedish Association for Medicine, all as payments to their institution; payment or honoraria for lectures from the Swedish Society for Anaesthesiology and Intensive Care; support for attending meetings or travel from the American Physiological Society; and a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid, with the American Physiological Society; all outside the submitted work. Desta Ijo reports grants or contracts from the Ethiopian Public Health Institute (EPHI); and consulting fees from EPHI National Data Management Center for Health through their salary; all outside the submitted work. Irena M Illic reports support for the present manuscript from the Serbian Ministry of Education Science and Technological Development (project number 175042, 2011-2023). Milena D Illic reports support for the present manuscript from the Serbian Ministry of Education Science and Technological Development (project number 451-03-47/2023-01/200111).

Sheikh Mohammed Shariful Islam reports grants or contracts from National Health and Medical Research Council through a fellowship and from the Heart Foundation of Australia through a fellowship and Vanguard Grant, both outside the submitted work. Nahlah Elkudssiah Ismail reports A leadership or fiduciary role in other board, society, committee or advocacy group, unpaid, as a council member of the Malaysian Academy of Pharmacy, outside the submitted work. John S Ji reports a leadership or fiduciary role in other board, society, committee or advocacy group, unpaid, with the WHO Technical Advisory Group Climate Health Ethics, outside the submitted work, Tamas Joo reports support for the present manuscript from Data-Driven Health Division of the National Laboratory for Health Security, National Research, Development and Innovation Office in Hungary (grant number RRF-2.3.1-21-2022-00006). Jacek Jerzy Jozwiak reports payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from Novartis, Adamed, and Amgen, all outside the submitted work. Sanjay Kalra reports payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from AstraZeneca, Boehringer Ingleheim, Novo Nordisk, and Sanofi; and a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid as president of the Endocrine Society of India and the South Asian Federation of Endocrine Societies: all outside the submitted work. Srinivasa Vittal Katikireddi reports support for the present manuscript from the Scottish Government Chief Scientist Office (SPHSU17), the UK Medical Research Council (MC_UU_00022/2), and the European Research Council (949582). John H Kempen reports support for the present manuscript from the Massachusetts Eye and Ear Surgery Program and Sight for Souls; grants or contracts from the National Institutes of Health (NIH)/National Eye Institute and US Agency for International Development; participation on a data safety monitoring board or advisory board with Gilead Pharmaceuticals; a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid on the Board of Directors with Sight for Souls; and stock or stock options with Betaliq and Tarsier; outside the submitted work. Mika Kivimäki reports grants or contracts from Wellcome Trust (221854/Z/20/Z), Medical Research Council (R024227), National Institute on Aging (R01AG062553, R01AG056477), Academy of Finland (350426), and the Finnish Foundation for Cardiovascular Research (a86898); outside the submitted work. Kewal Krishan reports other non-financial interests from the UGC Centre of Advanced Study, awarded to the Department of Anthropology, Panjab University, outside the submitted work. Judit Lám reports support for the present manuscript from the National Research, Development and Innovation Fund (project number TKP2021-NVA-11). Munjae Lee reports support for the present manuscript from the Ministry of Education of the Republic of Korea and the National Research Foundation of Korea (grant number NRF-2021R1I1A4A01057428) and Bio-convergence Technology Education Program through the Korea Institute for Advancement Technology funded by the Ministry of Trade, Industry and Energy (grant number P0017805). Ming-Chieh Li reports grants or contracts from The National Science and Technology Council in Taiwan (NSTC 112-2410-H-003-031); and a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid as the technical editor of the Journal of the American Heart Association; outside the submitted work. Katherine M Livingstone reports grants or contracts from the 2020 $\,$ National Health and Medical Research Council Investigator Grant (APP1173803) and the 2022 Heart Foundation Vanguard Grant (ID106800); outside the submitted work. Mansour Adam Mahmoud reports grant or contract funding from the Deputyship for Research and Innovation, Ministry of Education in Saudi Arabia (project number 445-5-748). Morteza Mahmoudi reports other financial or non-financial interests as co-founder and director of the Academic Parity Movement, a non-profit organisation dedicated to addressing academic discrimination, violence and incivility; as a cofounder of and shareholder in Targets' Tip; and from royalties or honoraria for published books, plenary lectures, and licensed patents; outside the submitted work. Hamid Reza Marateb reports support for the present manuscript from The Beatriu de Pinós post-doctoral programme from the Office of the Secretary of Universities and Research from the Ministry of Business and Knowledge of the Government of Catalonia (programme number

2020 BP 00261); and payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from Universitat Politècnica de Catalunya; outside the submitted work. Richard James Maude reports support for the present manuscript from Wellcome Trust (grant number 22021)] as it provides core funding for Mahidol Oxford Tropical Medicine Research and contributes to his salary. Colm McAlinden reports grants or contracts as a co-applicant on an awarded Welsh Government research grant related to diabetic eye disease (unpaid role); consulting fees from Acufocus, Atia Vision, Bausch and Lomb, BVI, Coopervision, Cutting Edge, Fudan University, Hoya, Knowledge Gate Group, Johnson & Johnson Surgical Vision, Keio University, Ludwig-Maximilians-University, Medevise Consulting SAS, Ophtec BV, SightGlass vision, Science in Vision, Scope, SpyGlass, Sun Yat-sen University, Targomed GmbH, University of São Paulo, and Vold Vision; payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from Scope, Thea pharmaceuticals; support for travel expenses from Bayer, British Society of Refractive Surgery, Portuguese Society of Ophthalmology, Royal College of Ophthalmologists, Scope, Thea pharmaceuticals; a leadership or fiduciary role in other board, society, committee or advocacy group, unpaid as a council member of the British Society for Refractive Surgery, unpaid as a PROM advisor to the Royal College of Ophthalmologists, an editorial board member for Graefe's Archive for Clinical and Experimental Ophthalmology, Eye and Vision, Archives of Medical Science, Journal of Clinical Medicine, Journal of Ophthalmology, and Journal of Clinical and Experimental Ophthalmology, and as an associate editor for Frontiers in Medicine - Ophthalmology; and other financial interests from developing the Quality of Vision questionnaire and the Orthokeratology and Contact Lens Quality of Life Questionnaire, and consultancy fees on topics including Rasch analysis, questionnaires, statistical analyses, and clinical and surgical ophthalmology topics, and paid peer reviews for Research Square; all outside the submitted work. Alexios-Fotios A Mentis reports grants or contract funding from MilkSafe: a novel pipeline to enrich formula milk using omics technologies, research cofinanced by the European Regional Development Fund of the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation (project code T2EDK-02222), and from ELIDEK (Hellenic Foundation for Research and Innovation, MIMS-860; both outside of the present manuscript); payment for expert testimony from serving as external peer-reviewer for Fondazione Cariplo, Italy; participation on a data safety monitoring or advisory board as editorial board member for Systematic Reviews, Annals of Epidemiology, and as associate editor for Translational Psychiatry; stock or stock options from a family winery; and other financial interests as the current scientific officer for BGI Group; outside the submitted work. Sultan Ayoub Meo reports grant or contract support from the Research Supporting Project. King Saud University (grant number RSP-2024 R47), outside the submitted work. Lorenzo Monasta reports support for the present manuscript from the Ministry of Health (Ricerca Corrente 34/2017) through payments made to the Institute for Maternal and Child Health IRCCS Burlo Garofolo. Rafael Silveira Moreira reports grants or contracts from CNPq Research Productivity Scholarship (National Council for Scientific and Technological Development) scholarship registration number 316607/2021-5; outside the submitted work. Jakub Morze reports grants or contracts from the SciLifeLab & Wallenberg Data Driven Life Science Program (KAW 2020.0239); and consulting fees from ALAB Laboratoria; outside the submitted work. Jonathan F Mosser reports support for the present manuscript from the Gates Foundation; grants or contracts from Gavi; and support for attending meetings and travel from the Gates Foundation; outside the submitted work. Faraz Mughal reports support for the present manuscript funded by the NIHR (grant number 300957). Sathish Muthu reports a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid from ICRS Next Gen Committee as a committee member, AO Spine KF Degenerative as an associate member, and SICOT grants committee as a member; all outside the submitted work. Shuhei Nomura reports support for the present manuscript from Ministry of Education, Culture, Sports, Science and Technology of Japan (grant number 21H03203) and Precursory Research for Embryonic Science and Technology from the Japan Science and Technology Agency

data safety monitoring board or advisory board with Simbec Orion, outside the submitted work. Mpiko Ntsekhe reports grants or contracts from SA Medical Research Council, National Heart, Lung, and Blood Institute, and National Institute of Allergy and Infectious Diseases; and consulting fees from Novartis Pharmaceuticals and Novo Nordisk; outside the submitted work. Akinkunmi Paul Okekunle reports support for the present manuscript and support for attending meetings or travel from the National Research Foundation of Korea funded by the Ministry of Science and Information and Communication Technology (grant number 2020H1D3A1A04081265). Pramod Kumar Pal reports grants or contracts paid to their institution from the Indian Council of Medical Research, the Department of Science & Technology-Science and Engineering Research Board, the Department of Biotechnology, Department of Science & Technology-Cognitive Science Research Initiative, Wellcome Trust UK-India Alliance DBT, PACE scheme of BIRAC, Michael J Fox Foundation, and Scientific Knowledge for Ageing and Neurological Ailments-Research Trust; Payment and honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events as faculty, speaker, and author from the International Parkinson and Movement Disorder Society, and Movement Disorder Societies of Korea, Taiwan and Bangladesh; support for attending meetings or travel from the National Institute of Mental Health and Neurosciences, International Parkinson and Movement Disorder Society, and Movement Disorder Societies of Korea, Taiwan and Bangladesh; a leadership or fiduciary role in other board, society, committee or advocacy group, unpaid as the Past President of Indian Academy of Neurology, Past Secretary of Asian and Oceanian subsection of International Parkinson and Movement Disorder Society, Editor-in-Chief of Annals of Movement Disorders, chair of the Education Committee of International Parkinson and Movement Disorder Society, president of the Parkinson Society of Karnataka, chair of Infection Related Movement Disorders Study Group of MDS, member of Rare Movement Disorders Study Group of International Parkinson and Movement Disorder Society, member of Education Committee of IAPRD, member of Rating Scales Education and Training Program Committee of IPMDS, member of Neurophysiology Task Force of International Parkinson and Movement Disorder Society (IPMDS), member of Movement Disorders in Asia Study Group, member of Post-Stroke Movement Disorders, member of Ataxia Study Group of IPMDS, and as a member of Ataxia Global Initiative; all outside the submitted work. Raul Felipe Palma-Alvarez reports payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from Angelini, Lundbeck, Rubió, Servier, and Takeda; all outside the submitted work. Amy E Peden reports support for the present manuscript from the Australian National Health and Medical Research Council (grant number APP2009306). Manon Pigeolet reports a grant from the Belgian Kids' Fund for Pediatric Research, outside the submitted work. Thomas Pilgrim reports grants or contracts to the institution from Biotronik, Boston Scientific, Edwards Lifesciences, and ATSens; speaker and consulting fees paid to the institution from Biotronik, Boston Scientific, Edwards Lifesciences, Abbott, Medtronic, Biosensors, and Highlife; participation on a data safety monitoring board or advisory board for the EMPIRE Study (sponsored by Biosensors); receipt of equipment, materials, drugs, medical writing, gifts or other services from ATsens; all outside the submitted work. Constance Dimity reports grants or contracts paid to the University of Newcastle from Valley to Coast Charitable Trust; consulting fees from Sydney North Primary Health Network, HNECC Primary Health Network, SW Sydney Primary Health Network, Australian Department of Health and Aged Care, NSW Health, Royal Australian College of General Practitioners, Dementia Training Australia, Palliative Care Australia, University of Sydney, Monash University, Biogen, Roche, and Medicines Australia; payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from Dementia Training Australia, Sydney North Health Network, and In vivo Academy; payment for expert testimony from Legal Aid NSW; support for attending meetings or travel from the Royal Australian College of General Practitioners and Palliative Care Australia; a leadership or fiduciary role in other board, society, committee or advocacy group, unpaid as Provost (NSW Faculty, The Royal Australian College of

(grant number JPMJPR22R8). Bo Norrving reports participation on a

General Practitioners), vice president of Doctors Reform Society, chair of WONCA Special Interest Group, Ageing and Health, board member of Hunter Postgraduate Medical Institute, paid roles as adjunct professor in the School of Rural Medicine of University of New England, adjunct professor in the School of Nursing and Midwifery of Western Sydney University, clinical professor in the Wicking Dementia Research Education Centre of University of Tasmania, and professor of General Practice at University of Newcastle (until August 2021); all outside the submitted work. Luis Felipe Reyes reports consulting fees from GSK, MSD, and Pfizer; payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from GSK, MSD, and Pfizer; payment for expert testimony from GSK, MSD, and Pfizer; support for attending meetings or travel from GSK, MSD, and Pfizer; outside the submitted work. Daniel Cury Ribeiro reports grants or contracts paid to the University of Otago from the Health Research Council (New Zealand 18/111), outside the submitted work. Luca Ronfani reports support for the present manuscript from the Italian Ministry of Health (Ricerca Corrente 34/2017), with payments made to the Institute for Maternal and Child Health IRCCS Burlo Garofolo. Andrzej Rynkiewicz reports consulting fees from Ingelheim, and payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from Boehringer Ingelheim, Amgen, and Servier; all outside the submitted work. Simona Sacco reports grants or contracts from Novartis and Uriach; consulting fees from Novartis, Allergan-AbbVie, Teva, Lilly, Lundbeck, Pfizer, NovoNordisk, Abbott, AstraZeneca; payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from Novartis, Allergan-AbbVie, Teva, Lilly, Lundbeck, Pfizer, NovoNordisk, Abbott, AstraZeneca; support for attending meetings or travel from Lilly, Novartis, Teva, Lundbeck; a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid as the president elect of the European Stroke Organization, and the second vice-president of the European Headache Federation; and receipt of equipment, materials, drugs, medical writing, gifts or other services from Allergan-AbbVie, NovoNordisk; all outside the submitted work. Juan Sanabria reports support for attending meetings or travel from the Marshall University Medical School; three patents pending; participation in quality assessment and assurance for surgeries of his Marshall University Department of Surgery; a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid with ASTS, SSO, and AASLD; all outside the submitted work. Chinmoy Sarkar reports other financial interests as a Global Health Leadership Fellow from National Academy of Medicine, outside the submitted work. Nikolas Scarmeas reports grants or contracts with Novo Nordisc as the local principal investigator of a recruitment site for multinational, multicenter industry sponsored phase 3 treatment trial for Alzheimer's disease with funding paid to the institution; participation on a data safety monitoring board or advisory board with Albert Einstein College of Medicine (NIH funded study) as the chair of data safety monitoring board; all outside the submitted work. Benedikt Michael Schaarschmidt reports research grants from Else Kröner-Fresenius Foundatuin, DFG, and PharmaCept; payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from AstraZeneca; support for attending meetings or travel from Bayer AG; all outside the submitted work. Nilay S Shah reports support for the present manuscript from the National Heart, Lung, and Blood Institute (grant number K23HL157766). Amin Sharifan reports leadership or fiduciary roles in other board, society, committee or advocacy group, unpaid as a steering member of the Cochrane Early Career Professionals Network; and receipt of equipment, materials, drugs, medical writing, gifts or other services from Elsevier; outside the submitted work. Saurab Sharma reports support for the present manuscript from the John J Bonica Postdoctoral Fellowship from the International Association for the Study of Pain (IASP; 2021-23); payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from giving an online lecture and a travel grant for delivering a talk conducted by the Pain Education special interest group of the IASP at the World Pain Congress in Toronto (2022); support for attending meetings or travel from the International Association for the Study of Pain to attend its biennial meeting in Toronto (September 2022); outside the submitted work. Velizar Shivarov reports one issue patent in Bulgaria and one issue utility model in Bulgaria; restricted

stock units for ICON; and other financial interests from Iconplc/PRAHS (salary), outside the submitted work. Sunil Shrestha reports other financial interests from the Graduate Research Merit Scholarship from the School of Pharmacy at Monash University Malaysia, outside the submitted work. João Pedro Silva reports support for the present manuscript from the Portuguese Foundation for Science and Technology. Luís Manuel Lopes Rodrigues Silva reports grants or contracts from CENTRO-04-3559-FSE-000162, Fundo Social Europeu, outside the submitted work. Colin R Simpson reports grants or contracts from Ministry of Business, Innovation, & Employement (New Zealand), Health Research Council (New Zealand), Ministry of Health (New Zealand), UK Medical Research Council, Health Data Research UK, and CSO (UK); a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid with the New Zealand Government Data Ethics Advisory Group as the chair; outside the submitted work. Marco Solmi reports payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from AbbVie and Otsuka, outside the submitted work. Dan J Stein reports consulting fees from Discovery Vitality, Johnson & Johnson, Kanna, L'Oreal, Lundbeck, Orion, Sanofi, Servier, Takeda, and Vistagen, outside the submitted work. Stefan Stortecky reports grants or contracts paid to their institution from Edwards Lifesciences, Medtronic, Abbott, and Boston Scientific; consulting fees from Boston Scientific/ BTG and Teleflex; payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from Boston Scientific/BTG; outside the submitted work. Katharina S Sunnerhagen reports a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid as the chair of the scientific committee for the Swedish stroke association; outside the submitted work. Luis M Taborda-Barata reports payment or honoraria for lectures, presentations, speakers bureaus, manuscript writing or educational events from Sanofi, AstraZeneca, and LETI Laboratories; outside the submitted work. Amanda G Thrift reports grants or contracts paid to their institution from the Australian National Health & Medical Research Council (grant numbers 1171966 and 1182071) and the Medical Research Future Fund (Australian Government; grant number 2015976); outside the submitted work. Samuel Joseph Tromans reports grants or contracts from the 2023 Adult Psychiatric Morbidity Survey team, collecting epidemiological data on community-based adults living in England; this is a contracted study from NHS Digital, via the Department of Health and Social Care; outside the submitted work. Tissa Wijeratne reports leadership or fiduciary roles in other board, society, committee or advocacy group, paid or unpaid as the president of the Asian Regional Consortium of Headaches, co-chair of both World Brain Day and Public Awareness and Advocacy with the World Federation of Neurology; and other financial or non-financial interests as the chair of the Migraine Foundation; outside the submitted work. Siddhesh Zadey reports payment or honoraria for writing for Think Global Health, Harvard Public Health Magazine, The Wire Science; a leadership or fiduciary role in other board, society, committee or advocacy group, paid or unpaid as a cofounding Director of the Association for Socially Applicable Research, a permanent council member for the The G4 Alliance, chair of the SOTA Care in South Asia Working Group (G4 Alliance), and a drafting Committee member for Maharashtra State Mental Health Policy; outside the submitted work. Giulia Zamagni reports support for the present manuscript from the Italian Ministry of Health (Ricerca Corrente 34/2017), as payments made to the Institute for Maternal and Child Health IRCCS Burlo Garofolo. Ha Zhang reports grants or contract funding from WHO, outside the submitted work. Magdalena Zielińska reports other financial interest as an AstraZeneca employee, outside the submitted work. All other authors declare no competing interests.

Data sharing

To download the data used in these analyses, please visit the GBD 2021 Sources Tool. The statistical code used in GBD 2021 is available online.

Acknowledgments

Research reported in this publication was supported by the Gates Foundation, UK Department of Health and Social Care, the Norwegian Institute of Public Health, and the New Zealand Ministry of Health. The Palestinian Central Bureau of Statistics granted the researchers access to relevant data in accordance with license no. SLN2019-8-64 and

For the **GBD 2021 Sources Tool** see http://ghdx.healthdata.org/gbd-2021/sources

For the **statistical code used in GBD 2021** see http://ghdx. healthdata.org/gbd-2021/code SLN2014-3-170, after subjecting data to processing aiming to preserve the confidentiality of individual data in accordance with the General Statistics Law-2000. The researchers are solely responsible for the conclusions and inferences drawn upon available data. Data for this research was provided by MEASURE Evaluation, funded by USAID. Views expressed do not necessarily reflect those of USAID, the US Government, or MEASURE Evaluation.

Editorial note: The Lancet Group takes a neutral position with respect to territorial claims in published maps and institutional affiliations.

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