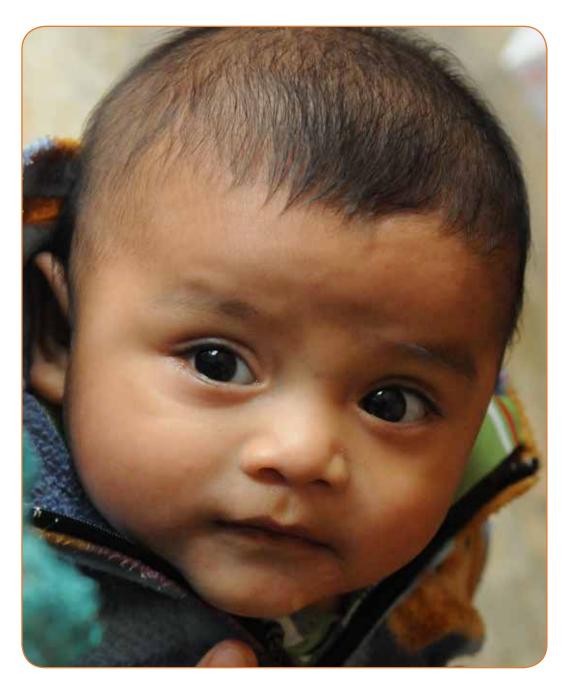
Levels & Trends in Child Mortality

Report 2014

Estimates Developed by the UN Inter-agency Group for Child Mortality Estimation











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Special thanks to the Technical Advisory Group of the UN IGME for providing technical guidance on methods for child mortality estimation

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Special thanks to the Joint United Nations Programme on HIV/AIDS for sharing estimates of AIDS mortality. Further thanks go to Jin Rou New and Fengqing Chao from the National University of Singapore for their assistance in preparing the UN IGME estimates as well as Jing Liu from Fafo for preparing the underlying data. And special thanks to Khin Wityee Oo from UNICEF for proofreading. Thanks also go to Agbessi Amouzou, David Anthony, Robert Bain, Ivana Bjelic, Liliana Carvajal, Yadigar Coskun, Archana Dwivedi, Attila Hancioglu, Priscilla Idele, Claes Johansson, Rolf Luyendijk, Colleen Murray, Turgay Unalan, Daniel Vadnais and Upasana Young from UNICEF for their support.

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The Inter-agency Group for Child Mortality Estimation (UN IGME) constitutes representatives of the United Nations Children's Fund, the World Health Organization, the World Bank and the United Nations Population Division. The child mortality estimates presented in this report have been reviewed by UN IGME members. As new information becomes available, estimates will be updated by the UN IGME. Differences between the estimates presented in this report and those in forthcoming publications by UN IGME members may arise because of differences in reporting periods or in the availability of data during the production process of each publication and other evidence.

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PROGRESS TOWARDS MILLENNIUM DEVELOPMENT GOAL 4: KEY FACTS AND FIGURES

- Substantial global progress has been made in reducing child deaths since 1990. The number of under-five deaths worldwide has declined from 12.7 (12.5, 12.9)¹ million in 1990 to 6.3 (6.1, 6.7) million in 2013. While that translates into around 17,000 fewer children dying every day in 2013 than in 1990, it still implies the deaths of about 17,000 children under age five every day in 2013.
- Since 1990 the global under-five mortality rate has dropped 49 percent—from 90 (89, 92) deaths per 1,000 live births in 1990 to 46 (44, 48) in 2013. All regions except Sub-Saharan Africa and Oceania have reduced the rate by 52 percent or more.
- The global under-five mortality rate is falling faster than at any other time during the past two decades. The global annual rate of reduction has steadily accelerated since 1990–1995—more than tripling from 1.2 percent to 4.0 percent in 2005–2013.
- Despite these gains, progress remains insufficient to reach MDG 4, particularly in Oceania, Sub-Saharan Africa, Caucasus and Central Asia, and Southern Asia.
- Accelerating progress in child survival urgently requires greater attention to ending preventable child deaths in Sub-Saharan Africa and Southern Asia. Under-five deaths are increasingly concentrated in Sub-Saharan Africa and Southern Asia, while the share in the rest of the world dropped from 32 percent in 1990 to 18 percent in 2013.
- Though Sub-Saharan Africa has seen the decline in the under-five mortality rate accelerate, with the average annual rate of reduction increasing from 0.8 percent in 1990–1995 to 4.2

- percent in 2005–2013, the region still has the highest child mortality rate—92 deaths per 1,000 live births, more than 15 times the average for developed regions. By 2050 close to 40 percent of all births will take place in Sub-Saharan Africa, and 37 percent of children under age five will live there, so the number of under-five deaths could stagnate or even increase without more progress in the region.
- About half of under-five deaths occur in only five countries: India, Nigeria, Pakistan, Democratic Republic of the Congo and China. India (21 percent) and Nigeria (13 percent) together account for more than a third of all under-five deaths.
- The global neonatal mortality rate declined 40 percent from 33 deaths per 1,000 live births in 1990 to 20 in 2013. Despite falling rates and levels of neonatal mortality, the proportion of under-five deaths that occur within the first month of life (the neonatal period) has increased from 37 percent in 1990 to 44 percent in 2013, because declines in the neonatal mortality rate are slower than those in the mortality rate for older children.
- Around two-thirds of neonatal deaths occur in just 10 countries, with India accounting for more than a quarter and Nigeria for about a tenth.
- The leading causes of death among children under age five include preterm birth complications (17 percent of under-five deaths), pneumonia (15 percent), intrapartum-related complications (complications during labour and delivery; 11 percent), diarrhoea (9 percent) and malaria (7 percent). Globally, nearly half of underfive deaths are attributable to undernutrition.

Introduction

The under-five mortality rate is a key indicator of child well-being, including health and nutrition status. It is also a key indicator of the coverage of child survival interventions and, more broadly, of social and economic development. Millennium Development Goal 4 (MDG 4) calls for reducing the under-five mortality rate by two-thirds between 1990 and 2015. The world has made substantial progress, reducing the rate 49 percent, from 90 (89, 92) deaths per 1,000 live births in 1990 to 46 (44, 48) in 2013. Since 1990 almost 100 million children under age five-roughly the current population of the Philippines—have been saved. The world is also reducing under-five mortality faster than at any other time during the past two decades. The global annual rate of reduction has steadily accelerated since 1990-1995—more than tripling from 1.2 percent to 4.0 percent in 2005-2013.

Despite these gains, child survival remains an urgent concern. The toll of under-five deaths over the past two decades is staggering: between 1990 and 2013, 223 million children worldwide died before their fifth birthday—more than today's population of Brazil, the world's fifth most populous country. Progress has been insufficient, and the MDG 4 target risks being missed at the global level. To achieve MDG 4 on time, the global annual rate of reduction in under-five mortality would need to rise to 20.8 percent for 2013–2015, much higher than the 4.0 percent achieved over 2005–2013. At the country level, historical trends show that progress for most countries has been too slow and that only 12 of the 60 countries with high under-five mortality rates (at least 40 deaths per 1,000 live births) are on track to achieve MDG 4 if current trends continue.

It is unacceptable that every day 17,000 children still die before their fifth birthday, mostly from preventable causes and treatable diseases, even though the knowledge and technologies for lifesaving interventions are available. In addition, inequities in child mortality between low- and high-income countries remain large. In 2013 the under-five mortality rate in low-income countries was 76 deaths per 1,000 live births—more than 12 times the average rate in high-income countries (6). Many countries still have very high rates—particularly in Sub-Saharan Africa, home to all 12 countries with an under-five mortality rate of 100 deaths or more per 1,000 live births. Reducing these inequities across countries and saving more children's lives by ending preventable child deaths are important priorities.

With the share of under-five deaths during the neonatal period rising in every region and almost all countries, accelerated change for child survival needs more focus on a healthy start to life. In 2013, 2.8 million newborns died within 28 days of birth, accounting for 44 percent of global under-five deaths. Neonatal health will need to be addressed more effectively to continue the rapid progress on overall child mortality.

In recent years, the Every Woman Every Child strategy launched by United Nations Secretary-General Ban Ki-moon has boosted global momentum in improving newborn and child survival. The United Nations Children's Fund (UNICEF), the World Health Organization (WHO) and other UN organizations are joining public, private and civil society partners in a global movement to accelerate reduction in preventable maternal, newborn and child deaths. Under the banner of A Promise Renewed, the partners have pledged to redouble efforts to end preventable maternal, newborn and child deaths. In this context, monitoring progress at the global and country levels has become even more critical. The United Nations Inter-agency Group for Child Mortality Estimation (UN IGME) updates child mortality estimates annually, and this report presents the group's latest estimates of under-five, infant and neonatal mortality and assesses progress towards MDG 4 at the country, regional and global levels.



Estimating Child Mortality

The UN Inter-agency Group for Child Mortality Estimation

The UN IGME was established in 2004 to harmonize child mortality estimates within the UN system for reporting on progress towards the MDGs, to improve methods for child mortality estimation and to enhance country capacity to produce timely and properly assessed estimates of child mortality. The UN IGME is led by UNICEF and includes the WHO, the World Bank and the Population Division of the United Nations Department of Economic and Social Affairs as full members.

The UN IGME's Technical Advisory Group, comprising leading academic scholars and independent experts in demography and biostatistics, provides guidance on estimation methods, technical issues and strategies for data analysis and data quality assessment.

The UN IGME updates its child mortality estimates annually after reviewing newly available data and assessing data quality. These estimates are widely used in UNICEF's flagship publications, the UN Secretary-General's MDG report, and publications by other UN agencies, governments and donors.

Broad strategy of the UN IGME

To minimize the errors for each estimate, harmonize trends over time and produce up-to-date and properly assessed estimates of child mortality, the UN IGME follows a three-part broad strategy:

First, the UN IGME compiles all available nationally representative data relevant to estimating child mortality, including data from vital registration systems, population censuses, household surveys and sample registration systems.

Second, the UN IGME assesses data quality, recalculates data inputs and makes needed adjustments by applying standard methods.

Third, the UN IGME fits a statistical model to the data to generate a smooth trend curve that averages over possibly disparate estimates from the different data sources for a country, and extrapolates the model to a target year.

To increase the transparency of the estimation process, the UN IGME has developed a child mortality database, CME Info (www.childmortality.org). It provides estimates as well as all available data and data sources for every country. Once new estimates are finalized, CME Info is updated to reflect any changes.

The UN IGME Child Mortality Estimation Database: CME Info

The UN IGME publishes its estimates and the underlying data for all countries in its child mortality database, CME Info (www.childmortality.org). CME Info is a comprehensive data portal on child mortality widely used by governments, UN agencies, donors and the general public. It was launched by UNICEF as an initiative of the UN IGME to source and share underlying data and to publish the latest estimates on

child mortality. CME Info serves as a platform for UNICEF and the UN IGME to collaborate with national partners in harmonizing and disseminating child mortality estimates. It uses leading-edge information technology to visualize in a transparent way how national data can be used to generate child mortality trend estimates. UNICEF hosts, maintains and financially supports CME Info.

Data sources

If each country had a single source of high-quality data covering the last few decades, reporting on child mortality levels and trends would be straightforward. But few countries do, and the limited availability of high-quality data over time for many countries makes generating accurate estimates of child mortality a considerable challenge.

Nationally representative estimates of child mortality can be derived from several sources, including civil registration, censuses and sample surveys. Demographic surveillance sites and hospital data are excluded because they are rarely representative. The preferred source of data is a civil registration system that records births and deaths on a continuous basis, collects information as events occur and covers the entire population. If registration coverage is complete and the systems function efficiently, the resulting child mortality estimates will be accurate and timely. However, many countries remain without viable or fully functioning vital registration systems that accurately record all births and deaths—only around 60 countries have such systems. Therefore, household surveys, such as the UNICEFsupported Multiple Indicator Cluster Surveys and the US Agency for International Developmentsupported Demographic and Health Surveys, which ask women about the survival of their children, are the basis of child mortality estimates for most developing countries.

The majority of household survey data comes in one of two forms: the full birth history, which asks women for the date of birth of each of their children and for the age at death of children who have died, and the summary birth history, which asks women only about the number of children they have given birth to and the number that have died (or equivalently the number still alive).

Full birth history data, collected by all Demographic and Health Surveys and increasingly also Multiple Indicator Cluster Surveys, allow the calculation of child mortality indicators for specific time periods in the past. This allows for trend estimates of child mortality rates over a period of 15–25 years before the survey. Whenever survey microdata are available, the UN IGME recalculates estimates using single calendar years for periods shortly before the survey and gradually

increasing the number of years for periods further in the past. Period ranges for a given survey are based on the estimates' coefficients of variation (a measure of sampling uncertainty).²

In general, summary birth history data, collected by censuses and many household surveys, use the age of the woman as an indicator of the average exposure time of the children to the risk of dying and use models to estimate mortality indicators for periods in the past for women ages 25-29 through ages 45-49. This method is well known but has several shortcomings. In 2014 the UN IGME changed the method of estimating summary birth histories to one based on classification of women by the time that has passed since their first birth. This method has three main benefits: it generally has lower sampling errors, it avoids the problematic assumption that the estimates for each age group adequately represent the mortality of the whole population and thus is less susceptible to the selection effect of young women who give birth early (since all women who give birth must have a first birth), and it tends to show less fluctuation across time, in particular in countries with low fertility and mortality. The UN IGME considers the improvements in the estimates based on time since first birth worthwhile compared with the estimates derived from the classification by age of mother, so in cases where the microdata are available, the UN IGME has reanalysed the data using the new method. Moreover, following advice from the UN IGME's Technical Advisory Group, child mortality estimates based on a summary birth history were not included when estimates based on a full birth history in the same survey were available.3

Further improved methodology

The UN IGME continually seeks to improve its methods. Since 2013, estimates and projections of under-five mortality have been produced using the Bayesian B-splines bias-reduction model, referred to as the B3 model.⁴ Compared with the previously applied Loess estimation approach the B3 model better accounts for data errors, including biases and sampling and nonsampling errors in the data. It can better capture short-term fluctuations in the under-five mortality rate and its annual rate of reduction and thus is better able to account for evidence of acceleration in the decline of under-five mortality from new surveys.

Challenges in estimating child mortality

Generating accurate estimates of child mortality poses a considerable challenge because of the limited availability of high-quality data for many low- and middle-income countries:

- Many developing countries lack a single source of highquality data covering the last several decades.
- Estimates calculated from household surveys are often subject to sampling and nonsampling errors, and estimates derived from census or vital registration systems may include nonsampling errors. Age misreporting, selection bias and recall bias can all reduce the accuracy of estimates. Underreporting of births and particularly of early neonatal deaths is also very common. Uncertainty will always exist around data and estimates in the absence of error-free data. To increase comparability, the UN IGME generates estimates with uncertainty bounds.
- Data collected by countries may be inconsistent across sources. All data sources for a country must be analysed, reconciled and evaluated simultaneously. Each new survey or data point must be examined in the context of all others, including previous data.
- The latest data produced by countries often are not current estimates but refer to an earlier reference period. This is particularly the case for estimates from the most recent national survey (such as a Demographic and Health Survey or Multiple Indicator Cluster Survey), which typically refers to a period before the survey year that is several years before the target year of UN IGME estimates. Around 70 countries do not have high-quality data on child mortality

for the last 5 years, and 13 countries do not have highquality data for the past 10 years. Thus the UN IGME extrapolates estimates to a common reference year, in this case 2013.

Below are examples of the real underlying data used to derive the estimates of the under-five mortality rate from Somalia, a country with sparse and no recent data, and Nigeria, a country with abundant data but wide variations in rates and trends between data sources. The Nigeria example also shows the trend line of the under-five mortality rate that results from the UN IGME model (black line) with the corresponding 90 percent uncertainty range (orange band). Detailed graphs showing all underlying data and UN IGME trend estimates are available for all countries at www.childmortality.org.

Specific data improvements needed include:

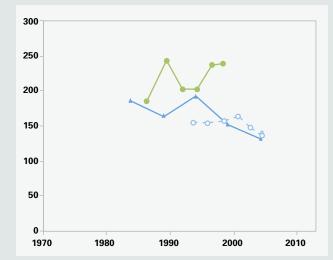
- For estimates derived from household surveys, well
 designed questionnaires, proper training and supervision
 of survey interviewers, as well as reasonable interview
 length, are important measures for improving data quality.
 Household surveys that include data collection on child
 mortality through a full birth history or pregnancy history
 should ideally be carried out at least once every three to
 five years. A large sample size is required for disaggregated child mortality data.
- Strengthening vital registration systems to ensure accurate reporting of births and deaths is essential for improving estimates of child mortality.

Examples of country data sources

Countries with sparse and no recent data

Somalia

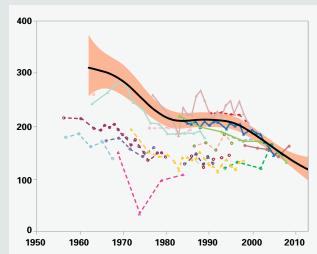
Under-five mortality rate (deaths per 1,000 live births)



Countries with abundant data but wide variations

Nigeria

Under-five mortality rate (deaths per 1,000 live births)



Validation exercises show that the B3 model also performs better in short-term projections.

Estimates of infant mortality rates are generated by applying the B3 model for countries with high-quality vital registration data. For other countries, infant mortality rates are derived from under-five mortality rates using model life tables that contain known regularities in age patterns of child mortality. This approach ensures that the internal relationships of the two indicators are consistent with established norms. Estimates of neonatal mortality rates are produced using a statistical model that uses under-five mortality rates as an input. These methods provide a transparent and objective way of fitting a smoothed trend to a set of observations and of extrapolating the trend to the present.

In 2012 the UN IGME produced sex-specific estimates of the under-five mortality rate for the first time. In many countries fewer sources provide data disaggregated by sex than for both sexes combined. So the UN IGME uses the available data by sex to estimate a time trend in the sex ratio (male–female) of child mortality rather than estimating child mortality trends by sex directly from reported mortality levels by sex. Since 2013 a Bayesian model developed by the UN IGME has been used to estimate sex ratios of child mortality, with a focus on identifying countries with outlying levels or trends.⁵

In addition to the further improved methods, a substantial amount of newly available data have been incorporated since the last round of estimation: data from 27 surveys and censuses for 26 countries and new data from vital registration systems for about 125 countries.

The increased data have substantially changed the estimates for some countries from previous editions partly because the fitted trend line is based on the entire time series of data available for each country. The estimates presented in this report may differ from and are not necessarily comparable with previous sets of UN IGME estimates or the most recent underlying country data.

Country consultation

In 2014 the WHO and UNICEF undertook joint country consultations to give each country's

ministry of health and national statistics office the opportunity to review all data inputs and the draft estimates for its country. The objective was to identify relevant data not included in the UN IGME database, CME Info, and to allow countries to review and provide feedback on estimates. It was not a country clearance process. In 2014, 75 of 195 countries sent responses, and 43 of those provided comments or data. After the consultations the UN IGME draft estimates were revised for 28 countries using new data.

Capacity strengthening at the country level

Modelled estimates of child mortality can be only as good as the underlying data. UN IGME members, including UNICEF, the WHO, the World Bank and other UN agencies, are actively involved in strengthening national capacity in data collection, estimation techniques and interpretation of results.

Population-based survey data are critical for developing reliable estimates for countries that lack fully functioning vital registration systems. The UNICEF-supported Multiple Indicator Cluster Surveys programme has worked since 1995 to build country-level capacity for survey implementation, data analysis and dissemination. The surveys are government owned and implemented, and UNICEF provides support through workshops, technical consultations and peer-to-peer mentoring. Almost 300 surveys in more than 100 countries will be conducted by the end of 2014. In addition to population-based surveys, UNICEF, the WHO, the World Bank and the United Nations Statistics Division work with countries to strengthen vital registration systems. The United Nations Population Fund provides technical assistance for population censuses, another important source of under-five mortality data.

The UN IGME strengthens capacity by working with countries to improve understanding of under-five mortality data and estimation. CME Info, a comprehensive data portal on child mortality funded and maintained by UNICEF, is a powerful platform for sharing underlying data and collaborating with national partners on child mortality estimates. Since 2008 a series of regional workshops has trained about 300 participants from more than 100 countries in the use of CME Info and in the demographic

techniques and modelling methods underlying the estimates. In the last few years UNICEF and the UN IGME have sent experts to some 20 countries to conduct training on child mortality estimation. As part of the data review process, UNICEF's network of field offices provides opportunities to assess the plausibility of estimates by engaging in a dialogue about the estimates and the underlying data. The WHO and UNICEF also engage countries in a country consultation process through which governments provide feedback on the estimates and their underlying data (see above).

Guiding this capacity strengthening work is a fundamental principle: child mortality estimation is not simply an academic exercise but a fundamental part of effective policies and programming. UNICEF works with countries to ensure that child mortality estimates are used effectively at the country level, in conjunction with other data on child health, to improve child survival programmes and stimulate action through advocacy. This work involves partnering with other agencies, organizations and initiatives such as the Countdown to 2015.



Levels and Trends in Child Mortality

Under-five mortality

Global under-five mortality has been roughly halved since 1990. A baby born today has a dramatically better chance of living to age five compared with one born in 1990. The global under-five mortality rate dropped 49 percent, from 90 (89, 92) deaths per 1,000 live births in 1990 to 46 (44, 48) in 2013 (table 1). Over the same period the total number of under-five deaths in the world fell from 12.7 million in 1990 to 6.3 million in 2013 (table 2). Put another way, 17,000 fewer children died each day in 2013 than in 1990—thanks to more effective and affordable treatments, innovative ways of delivering critical preventive and

curative interventions to the poor and excluded, and sustained political commitment. These and other vital child survival interventions have helped save about 100 million lives since 1990.

All regions except Sub-Saharan Africa and Oceania have more than halved the under-five mortality rate. Eastern Asia, Latin America and the Caribbean, and Northern Africa, have already reduced the under-five mortality rate by more than two-thirds since 1990 and thus achieved MDG 4 (figure 1). Western Asia, with a reduction of 61 percent, and South-eastern Asia, 59 percent, are also close to reaching the MDG 4 target.

TABLE

Levels and trends in the under-five mortality rate, by Millennium Development Goal region, 1990–2013

| | Unde | r-five mo | rtality r | ate (dea | ths per 1 | ,000 live | births) | | Anr | nual rate | of reduct | t ion (perc | ent) |
|---------------------------------|------|-----------|-----------|-----------------|-----------|-----------|-----------------------|-----------------------------------|---------------|---------------|---------------|--------------------|---------------|
| Region | 1990 | 1995 | 2000 | 2005 | 2010 | 2013 | MDG target 2015 | Decline (percent) 1990–2013 | 1990- 2013 | 1990- 1995 | 1995- 2000 | 2000- 2005 | 2005- 2013 |
| Developed regions | 15 | 11 | 10 | 8 | 7 | 6 | 5 | 58 | 3.8 | 5.3 | 2.5 | 4.0 | 3.5 |
| Developing regions | 100 | 94 | 83 | 69 | 57 | 50 | 33 | 50 | 3.0 | 1.2 | 2.4 | 3.7 | 4.0 |
| Northern Africa | 72 | 57 | 44 | 33 | 26 | 24 | 24 | 67 | 4.8 | 4.8 | 5.3 | 5.9 | 3.9 |
| Sub-Saharan Africa | 179 | 172 | 156 | 129 | 103 | 92 | 60 | 48 | 2.9 | 0.8 | 1.9 | 3.8 | 4.2 |
| Latin America and the Caribbean | 54 | 43 | 32 | 25 | 23 | 18 | 18 | 67 | 4.8 | 4.7 | 5.5 | 5.2 | 4.1 |
| Caucasus and Central Asia | 73 | 74 | 64 | 50 | 39 | 35 | 24 | 52 | 3.2 | -0.3 | 3.0 | 5.0 | 4.3 |
| Eastern Asia | 53 | 46 | 37 | 24 | 16 | 13 | 18 | 76 | 6.2 | 2.7 | 4.7 | 8.7 | 7.7 |
| Excluding China | 27 | 33 | 31 | 20 | 17 | 15 | 9 | 45 | 2.6 | -4.0 | 1.6 | 8.2 | 3.8 |
| Southern Asia | 126 | 109 | 92 | 76 | 62 | 55 | 42 | 56 | 3.6 | 2.9 | 3.4 | 3.9 | 4.0 |
| Excluding India | 126 | 109 | 94 | 78 | 67 | 60 | 42 | 52 | 3.2 | 2.8 | 3.1 | 3.6 | 3.3 |
| South-eastern Asia | 71 | 58 | 48 | 39 | 33 | 29 | 24 | 59 | 3.9 | 4.0 | 3.8 | 4.3 | 3.5 |
| Western Asia | 65 | 54 | 43 | 36 | 28 | 25 | 22 | 61 | 4.1 | 3.8 | 4.3 | 3.9 | 4.3 |
| Oceania | 74 | 69 | 67 | 64 | 58 | 54 | 25 | 28 | 1.4 | 1.4 | 0.7 | 1.0 | 2.2 |
| World | 90 | 85 | 76 | 63 | 51 | 46 | 30 | 49 | 3.0 | 1.2 | 2.3 | 3.8 | 4.0 |

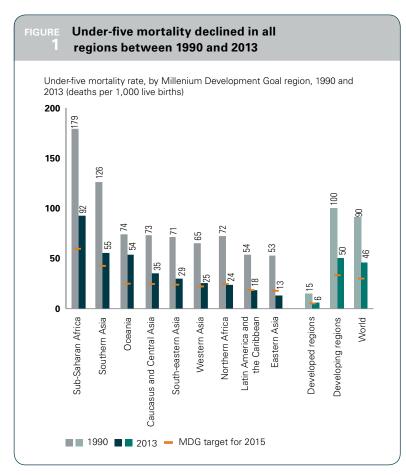
Note: All calculations are based on unrounded numbers.

TABLE

Levels and trends in the number of deaths of children under age five, by Millennium Development Goal region, 1990–2013

| | | | Under-five dea | ths (thousands |) | | Decline | | obal under- s (percent) |
|---------------------------------|--------|--------|----------------|-----------------------|-------|-------|-------------------------------|-------|----------------------------|
| Region | 1990 | 1995 | 2000 | 2005 | 2010 | 2013 | (percent) 1990–2013 | 1990 | 2013 |
| Developed regions | 226 | 153 | 131 | 112 | 97 | 87 | 62 | 1.8 | 1.4 |
| Developing regions | 12,444 | 10,757 | 9,613 | 8,108 | 6,836 | 6,199 | 50 | 98.2 | 98.6 |
| Northern Africa | 266 | 189 | 140 | 105 | 98 | 95 | 64 | 2.1 | 1.5 |
| Sub-Saharan Africa | 3,809 | 4,033 | 4,113 | 3,766 | 3,318 | 3,113 | 18 | 30.1 | 49.5 |
| Latin America and the Caribbean | 628 | 500 | 383 | 285 | 248 | 196 | 69 | 5.0 | 3.1 |
| Caucasus and Central Asia | 145 | 124 | 89 | 73 | 69 | 61 | 58 | 1.1 | 1.0 |
| Eastern Asia | 1,672 | 864 | 659 | 426 | 300 | 249 | 85 | 13.2 | 4.0 |
| Excluding China | 28 | 42 | 30 | 17 | 15 | 14 | 51 | 0.2 | 0.2 |
| Southern Asia | 4,796 | 4,106 | 3,495 | 2,827 | 2,268 | 2,015 | 58 | 37.9 | 32.1 |
| Excluding India | 1,463 | 1,245 | 1,083 | 853 | 772 | 675 | 54 | 11.5 | 10.7 |
| South-eastern Asia | 848 | 696 | 524 | 450 | 383 | 330 | 61 | 6.7 | 5.3 |
| Western Asia | 265 | 230 | 195 | 160 | 135 | 124 | 53 | 2.1 | 2.0 |
| Oceania | 14 | 15 | 16 | 16 | 15 | 14 | 0 | 0.1 | 0.2 |
| World | 12,670 | 10,909 | 9,745 | 8,219 | 6,933 | 6,285 | 50 | 100.0 | 100.0 |

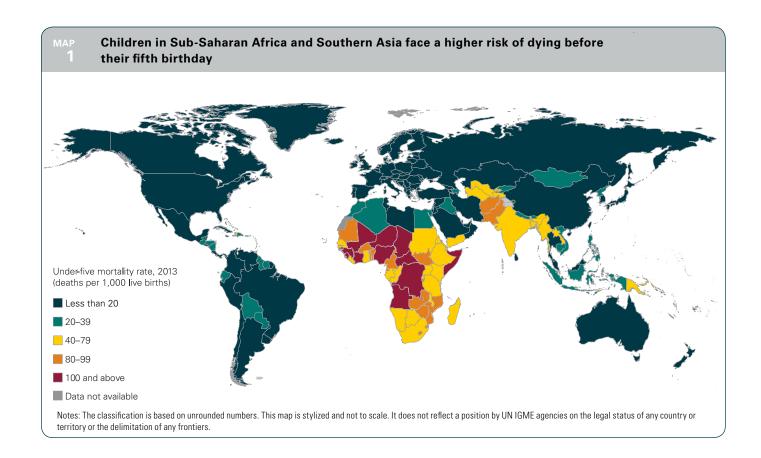
Note: All calculations are based on unrounded numbers.



Eight of the 60 high-mortality countries have reduced the under-five mortality rate by two-thirds or more since 1990. Of the 60 countries with at least 40 deaths per 1,000 live births in 2013, 27 have reduced the under-five mortality rate by at least half since 1990, and 8 of those—Malawi (72 percent), Bangladesh (71 percent), Liberia (71 percent), United Republic of Tanzania (69 percent), Ethiopia (69 percent), Timor-Leste (68 percent), Niger (68 percent) and Eritrea (67 percent)—have reduced it by two-thirds. The rapid declines in these countries show that tremendous progress in lowering under-five mortality is possible even in low- and lower middle-income countries.

The world is reducing under-five mortality faster than at any other time in the past two decades.

The global annual rate of reduction has steadily accelerated since 1990–1995—more than tripling from 1.2 percent to 4.0 percent in 2005–2013. Sub-Saharan Africa, the region with the highest child mortality rate and least progress, has also seen a continuously faster decline, with the annual rate of reduction rising from 0.8 percent in 1990–1995 to 1.9 percent in 1995–2000 to 3.8 percent in 2000–2005 to 4.2 percent in 2005–2013.



But progress is insufficient to achieve MDG 4.

The global toll of under-five deaths over the past two decades is staggering: between 1990 and 2013, 223 million children died before age five. Globally, the 49 percent decline in the under-five mortality rate since 1990 is still far below the two-thirds reduction required to reach the MDG 4 target. If current trends continue, only three regions—Eastern Asia, Latin America and the Caribbean, and Northern Africa—will achieve MDG 4 by 2015. The rate of decline in under-five mortality in all other regions remains insufficient to achieve MDG 4.

Conflicts and political fragility contribute to higher under-five mortality rates. One fifth of all under-five deaths in 2013 occur in countries currently classified as fragile and conflict affected contexts. Of the 20 countries with the highest under-five mortality rates, 11 are affected markedly by conflict or violence or are in fragile situations. Six of these are also among the 20 countries with the lowest annual rate of reduction since 1990 (excluding countries with fewer than 10,000 live births in 2013), indicating little progress where it is needed most.

Reducing inequities across regions and income groups is an important priority to save children's lives. Sub-Saharan Africa's under-five mortality rate, 92 deaths per 1,000 live births in 2013, is more than 15 times the average for developed regions (6). Southern Asia's, 55 deaths per 1,000 live births, is more than 9 times the average for developed regions. And the under-five mortality rate for low-income countries, 76 deaths per 1,000 live births, is more than 12 times the average for high-income countries (6).

Many countries still have very high under-five mortality rates—particularly those in Sub-Saharan Africa, home to all 12 countries with a rate of 100 deaths or more per 1,000 live births (map 1). Children born in Angola, with the highest under-five mortality rate in the world (167 deaths per 1,000 live births), are 84 times more likely to die before age five than children born in Luxembourg, with the lowest rate (2).

Evidence also shows alarming disparities in underfive mortality rates within countries. A child's risk of dying before age five increases if she or he is born in a remote rural area, into a poor household or to a mother with no education.⁷ Survey data show that the under-five mortality rates for the poorest fifth of the population average around twice as high as the rates for the richest fifth. Nevertheless, a child in the poorest fifth of the population born today still has a better chance of surviving through age five than one born in 1990, since under-five mortality has been reduced for the poorest fifth of the population in all regions. Moreover, the disparity in under-five mortality between the richest and poorest households has steadily declined since 1990, except in Sub-Saharan Africa where it has not changed markedly.⁸

Acceleration in reducing child mortality is urgently required, particularly in Sub-Saharan Africa and Southern Asia. As the region with the highest mortality rates, Sub-Saharan Africa continues to face considerable challenges. The region's 48 percent reduction in under-five mortality since 1990 has been slower than any other region's except Oceania. Faster progress in reducing child mortality in the rest of the world has led to a higher concentration of under-five deaths in Sub-Saharan Africa. In 2013, 3.1 million deaths—half of under-five deaths globally—occurred there. It is the only region where the number of live births and child population is expected to rise substantially over the next two decades. By 2050 close to 40 percent of live births will take place in Sub-Saharan Africa, and 37 percent of the world's children under age five will live there. Thus, the number of under-five deaths may stagnate or even increase without further progress in the region.

Southern Asia has made strong progress in reducing the number of child deaths. But the region continues to have a high under-five mortality rate (55 deaths per 1,000 live births in 2013), and nearly one in three under-five deaths still takes place there. Two-thirds of the under-five deaths in Southern Asia occur in India, which has the highest number of under-five deaths in the world (1.3 million in 2013).

Ending child deaths from preventable infectious diseases is critical. Despite strong advances in fighting childhood diseases, infectious diseases—which are most often diseases of the poor and thus

are a marker of equity—remain highly prevalent, particularly in Sub-Saharan Africa and Southern Asia. Pneumonia, diarrhoea and malaria remain leading causes of death among children under age five—killing roughly 2 million in 2013 and accounting for almost a third of global underfive deaths. Pneumonia, diarrhoea and malaria accounted for about 1.3 million—or about 40 percent—of under-five deaths in Sub-Saharan Africa and roughly half a million—or about 25 percent—in Southern Asia.

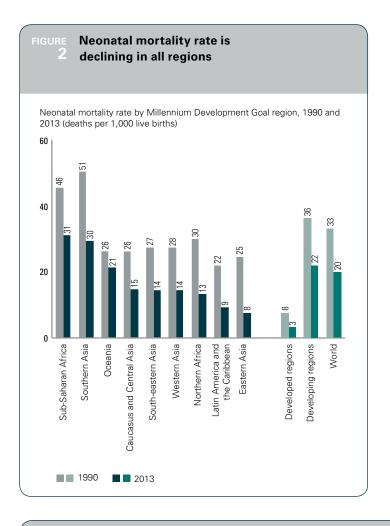
The major improvements in child survival since 1990 are partly attributable to affordable, evidence-based interventions against the leading infectious diseases, such as immunization, insecticide-treated mosquito nets, rehydration treatment for diarrhoea, nutritional supplements and therapeutic food. Accelerating the reduction in under-five mortality is possible by expanding effective preventive and curative interventions that target the main causes of post-neonatal deaths and the most vulnerable newborns and children.

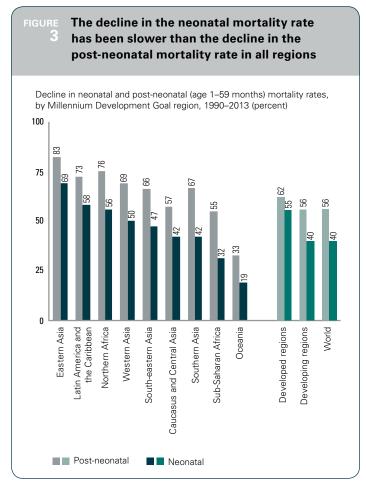
Neonatal mortality

Neonatal mortality is declining globally but more slowly than post-neonatal (1-59 months) mortality. The first 28 days of life—the neonatal period—are

the first 28 days of life—the neonatal period—are the most vulnerable time for a child's survival. Neonatal mortality is becoming increasingly important not only because the proportion of under-five deaths that occur during the neonatal period is increasing as under-five mortality declines, but also because the health interventions needed to address the major causes of neonatal deaths generally differ from those needed to address other under-five deaths and are intimately linked to those that are necessary to protect maternal health.

Globally, the neonatal mortality rate fell from 33 deaths per 1,000 live births in 1990 to 20 in 2013 (figure 2), and the number of neonatal deaths declined from 4.7 million in 1990 to 2.8 million in 2013 (table 3). However, the decline in neonatal mortality over 1990–2013 has been slower than that of post-neonatal mortality: 40 percent, compared with 56 percent (and 49 percent for overall underfive mortality), a pattern consistent across all MDG regions (figure 3).





Neonatal mortality rate, number of neonatal deaths and neonatal deaths as a share of under-five deaths, by Millennium Development Goal region, 1990 and 2013

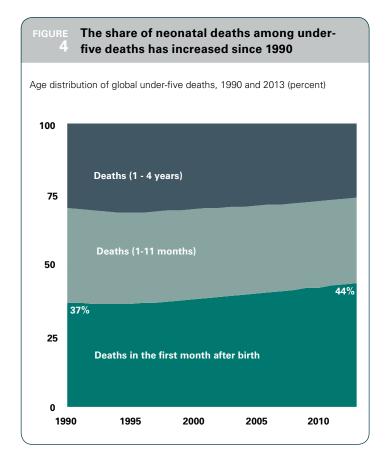
| | | l eonatal mortal aths per 1,000 li | | | of neonatal thousands) | | onatal deaths ider-five deatl | |
|---------------------------------|------|--|---|-------|---------------------------|------|----------------------------------|---|
| Region | 1990 | 2013 | Decline (percent) 1990–2013 | 1990 | 2013 | 1990 | 2013 | Relative increase (percent) 1990–2013 |
| Developed regions | 8 | 3 | 55 | 118 | 48 | 52 | 56 | 7 |
| Developing regions | 36 | 22 | 40 | 4,554 | 2,714 | 37 | 44 | 20 |
| Northern Africa | 30 | 13 | 56 | 109 | 53 | 41 | 56 | 37 |
| Sub-Saharan Africa | 46 | 31 | 32 | 977 | 1,066 | 26 | 34 | 34 |
| Latin America and the Caribbean | 22 | 9 | 58 | 255 | 101 | 41 | 51 | 26 |
| Caucasus and Central Asia | 26 | 15 | 42 | 51 | 26 | 35 | 42 | 19 |
| Eastern Asia | 25 | 8 | 69 | 784 | 150 | 47 | 60 | 29 |
| Excluding China | 12 | 8 | 35 | 11 | 7 | 41 | 51 | 25 |
| Southern Asia | 51 | 30 | 42 | 1,940 | 1,086 | 40 | 54 | 33 |
| Excluding India | 49 | 30 | 39 | 578 | 338 | 39 | 50 | 27 |
| South-eastern Asia | 27 | 14 | 47 | 321 | 160 | 38 | 49 | 28 |
| Western Asia | 28 | 14 | 50 | 111 | 67 | 42 | 54 | 28 |
| Oceania | 26 | 21 | 19 | 5 | 6 | 35 | 40 | 12 |
| World | 33 | 20 | 40 | 4,672 | 2,763 | 37 | 44 | 19 |

Note: All calculations are based on unrounded numbers.

Around 44 percent of under-five deaths world-wide occur during the neonatal period. Despite falling rates and levels of neonatal mortality, its importance in the burden of under-five deaths has never been greater. Because declines in the neonatal mortality rate are slower than those in the post-neonatal mortality rate, the share of neonatal deaths among under-five deaths increased from about 37 percent in 1990 to 44 percent in 2013 (figure 4). This trend is expected to continue as the under-five mortality rate continues to decline.

In five developing regions—Eastern Asia, Latin America and the Caribbean, Northern Africa, Southern Asia and Western Asia—more than half of under-five deaths took place during the neonatal period in 2013. Eastern Asia cut overall underfive mortality rates so quickly that the share of neonatal deaths among under-five deaths jumped from 47 percent in 1990 to 60 percent in 2013 (table 3).

Sub-Saharan Africa lags behind other regions in reducing neonatal mortality. Sub-Saharan Africa—where about a third of under-five deaths occurred during the neonatal period—has the highest neonatal mortality rate (31 deaths per



1,000 live births in 2013) and accounts for 39 percent of global neonatal deaths. Together with Oceania, the region has recorded the least improvement over the last two decades, with the neonatal mortality rate declining only 32 percent. The greatest progress was in Eastern Asia (69 percent decline in the neonatal mortality rate), followed by Latin America and the Caribbean (58 percent) and Northern Africa (56 percent).

At all levels of national income, it is possible to make rapid advances in reducing neonatal mortality. Although neonatal deaths are often more difficult to prevent, 80 countries have reduced the neonatal mortality rate by at least half since 1990, and 27 of those have reduced it by twothirds or more since 1990. Many of these are countries with low neonatal mortality rates. The largest relative gains in neonatal survival have been in nine European countries and one Asian country. Encouragingly, many low- and lower middle-income countries have also experienced considerable declines in the neonatal mortality rates. The 10 countries with the largest absolute declines in neonatal mortality are all low- and lower middle-income countries in Africa or Asia: Bangladesh, Nepal, Ethiopia, Malawi, Liberia, Mozambique, South Sudan, Bhutan, Timor-Leste and United Republic of Tanzania. The decline in these 10 countries saved the lives of 3.4 million newborns.

The substantial progress in these countries demonstrates that combining political commitment, sound strategies and adequate resources makes it possible to rapidly reduce neonatal mortality, regardless of national income.

The first day and week are most critical for the survival of newborns. In 2013 almost 1 million newborns (36 percent) died on the day they were born, and another 1 million (37 percent) died within the next six days of birth. Some 0.8 million neonatal deaths (27 percent) occurred between day 7 and day 27 of life.⁹

Most neonatal deaths are preventable. Children that die in the first 28 days of life suffer from diseases and conditions that are often associated with quality of care around the time of childbirth and are readily preventable or treatable

with proven, cost-effective interventions. In 2013, 35 percent of the global neonatal deaths were caused by preterm birth complications and 24 percent by intrapartum-related complications (complications during labour and delivery). Another quarter of neonatal deaths worldwide were caused by sepsis (15 percent), pneumonia (5 percent), tetanus (2 percent) or diarrhoea (1 percent)—all highly preventable or treatable diseases, provided simple interventions and basic treatment knowledge are available. Only 7 percent of neonatal deaths in high-income countries are caused by these four infectious diseases, compared with 27 percent in Sub-Saharan Africa and 23 percent in Southern Asia.8

Neonatal health will need to be addressed more effectively. Accelerated change for child survival, health and development needs more focus on a healthy start to life. With 2.8 million newborns dying each year, accounting for 44 percent of under-five deaths, progress has been insufficient and is now impeding improvement in child survival worldwide. Neonatal health will need to be addressed more effectively for progress on overall child mortality to continue rapidly. Further reductions in neonatal deaths in particular depend on building stronger health services, ensuring that every birth is attended by skilled personnel and making hospital care available in an emergency. The Every Newborn Action Plan, endorsed by governments, the private sector, civil society and other stakeholders, calls for reducing neonatal mortality rates in all countries to fewer than 10 deaths per 1,000 live births by 2035. The plan uses the most recent evidence to provide a roadmap to end preventable stillbirths and neonatal deaths. Cost-effective interventions for newborn health cover the antenatal period, the time around birth and the first week of life as well as care for small and sick newborns. Examples of high-impact, low-cost interventions for newborn health are breastfeeding support and kangaroo mother care, where the preterm baby is held skin to skin with its mother. Further reduction of neonatal mortality requires educated and equipped health care workers, especially

those with midwifery skills, and the provision of essential commodities such as antenatal corticosteroids, resuscitation devices, injectable antibiotics and chlorhexidine for clean cord care. Most of these care packages are most effective when delivered to women and their babies at the same location by the same health care service providers. High coverage of interventions before, during and after pregnancy could save nearly 3 million women, stillbirths and newborns by 2025 in 75 high-burden countries (those where more than 95 percent of all maternal and child deaths occur) at an additional cost of only \$1.15 per capita. 10

Notes

- Values in parentheses indicate 90 percent uncertainty intervals for the estimates.
- 2. Pedersen, Jon, and Jing Liu, 'Child Mortality Estimation: Appropriate Time Periods for Child Mortality Estimates from Full Birth Histories', *PLoS Med* 9(8): e1001289, doi:10.1371/journal.pmed.1001289, 2012.
- 3. Silva, Romesh, 'Child Mortality Estimation: Consistency of Under-Five Mortality Rate Estimates Using Full Birth Histories and Summary Birth Histories', *PLoS Med* 9(8): e1001296, doi:10.1371/journal. pmed.1001296info:doi/10.1371/journal.pmed.1001289, 2012.
- 4. Alkema, Leontine and Jin Rou New, 'Global estimation of child mortality using a Bayesian B-spline bias-reduction method', *Annals of Applied Statistics*, (forthcoming), available at <imstat.org/aoas>.
- 5. Alkema, Leontine, Fengqing Chao, Danzhen You, Jon Pedersen, and Cheryl C. Sawyer, 'National, regional, and global sex ratios of infant, child, and under-5 mortality and identification of countries with outlying ratios: a systematic assessment.', The Lancet Global Health, vol. 2, 9, 1 September 2014, pp. e521-e530, DOI: 10.1016/S2214-109X(14)70280-3
- 6. The World Bank's fragile and conflict-affected situations list (fiscal year 2015) is used to identify countries with conflict or violence or in fragile situations (World Bank, 'Harmonized List of Fragile Situations', Washington, DC, http://siteresources.worldbank.org/EXTLI-CUS/Resources/511777-1269623894864/FY15FragileSituationList.pdf, accessed 15 August 2014).
- 7. UNICEF, Progress for Children: Achieving the MDGs with Equity 2010, Number 9, New York, 2010.
- 8. UNICEF, Committing to Child Survival: A Promise Renewed. Progress Report 2014, New York, 2014.
- 9. To obtain the number of neonatal deaths by day, the most recent estimates of global neonatal deaths by the UN IGME are distributed according to the proportions of neonatal deaths by day from Lawn, Joy, et al., 'Every Newborn: Progress, Priorities, and Potential beyond Survival', *The Lancet*, 384(9938): 189–205, doi:10.1016/S0140-6736(14)60496-7, 2014.
- WHO and UNICEF, Every Newborn: An Action Plan to End Preventable Deaths, WHO, Geneva, 2014.

| | | | | | | | | r tality rat 1,000 live | |) | | | |
|----------------------------------|------|----------------|----------------|------|----------------|----------------|------|-----------------------------------|----------------|----------------------------|-----------|---|----------------|
| | | 1990 | | | 2000 | lue | | 2013 | טוו נווטן | Millennium Development | Annual ra | ate of reduct (percent) 1990–2013 | ion (ARR) |
| Country | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | Goal target for 2015 | ARR | Lower bound | Upper bound |
| Afghanistan | 179 | 161 | 198 | 136 | 124 | 149 | 97 | 79 | 120 | 60 | 2.7 | 1.7 | 3.6 |
| Albania | 41 | 36 | 46 | 26 | 22 | 30 | 15 | 9 | 24 | 14 | 4.3 | 2.1 | 6.6 |
| Algeria | 47 | 44 | 50 | 40 | 39 | 41 | 25 | 24 | 26 | 16 | 2.7 | 2.4 | 3.0 |
| Andorra | 9 | 5 | 15 | 5 | 4 | 6 | 3 | 2 | 5 | 3 | 4.5 | 1.2 | 7.8 |
| Angola | 226 | 201 | 254 | 217 | 190 | 248 | 167 | 108 | 253 | 75 | 1.3 | -0.5 | 3.2 |
| Antigua and Barbuda | 26 | 18 | 36 | 15 | 14 | 17 | 9 | 7 | 13 | 9 | 4.4 | 2.3 | 6.6 |
| Argentina | 28 | 27 | 28 | 20 | 20 | 21 | 13 | 13 | 14 | 9 | 3.2 | 2.9 | 3.4 |
| Armenia | 50 | 45 | 55 | 30 | 27 | 33 | 16 | 12 | 20 | 17 | 5.0 | 3.9 | 6.1 |
| Australia | 9 | 9 | 9 | 6 | 6 | 6 | 4 | 4 | 4 | 3 | 3.6 | 3.4 | 3.9 |
| Austria | 10 | 9 | 10 | 6 | 5 | 6 | 4 | 4 | 4 | 3 | 3.9 | 3.6 | 4.3 |
| Azerbaijan | 95 | 85 | 105 | 74 | 66 | 83 | 34 | 23 | 52 | 32 | 4.4 | 2.6 | 6.2 |
| Bahamas | 24 | 22 | 25 | 16 | 15 | 17 | 13 | 11 | 16 | 8 | 2.6 | 1.6 | 3.5 |
| Bahrain | 23 | 22 | 24 | 13 | 12 | 13 | 6 | 5 | 7 | 8 | 5.8 | 5.1 | 6.4 |
| Bangladesh | 144 | 140 | 148 | 88 | 85 | 91 | 41 | 37 | 46 | 48 | 5.4 | 4.9 | 6.0 |
| Barbados | 18 | 17 | 19 | 16 | 15 | 18 | 14 | 12 | 17 | 6 | 1.0 | 0.3 | 1.7 |
| Belarus | 17 | 16 | 17 | 14 | 14 | 15 | 5 | 5 | 5 | 6 | 5.3 | 5.0 | 5.6 |
| Belgium | 10 | 10 | 10 | 6 | 6 | 6 | 4 | 4 | 5 | 3 | 3.6 | 3.2 | 3.9 |
| Belize | 40 | 35 | 45 | 25 | 24 | 27 | 17 | 14 | 20 | 13 | 3.8 | 2.8 | 4.7 |
| Benin | 179 | 168 | 192 | 146 | 134 | 159 | 85 | 55 | 124 | 60 | 3.2 | 1.6 | 5.2 |
| Bhutan | 134 | 118 | 153 | 79 | 72 | 88 | 36 | 28 | 46 | 45 | 5.7 | 4.4 | 7.1 |
| Bolivia (Plurinational State of) | 123 | 116 | 130 | 77 | 72 | 83 | 39 | 29 | 52 | 41 | 5.0 | 3.7 | 6.3 |
| Bosnia and Herzegovina | 18 | 18 | 19 | 9 | 9 | 10 | 7 | 6 | 8 | 6 | 4.4 | 3.9 | 5.0 |
| Botswana | 50 | 43 | 57 | 85 | 64 | 104 | 47 | 19 | 92 | 17 | 0.3 | -2.9 | 4.3 |
| Brazil | 62 | 57 | 66 | 33 | 30 | 36 | 14 | 12 | 16 | 21 | 6.5 | 5.9 | 7.2 |
| Brunei Darussalam | 12 | 12 | 13 | 10 | 9 | 10 | 10 | 9 | 11 | 4 | 0.9 | 0.4 | 1.5 |
| Bulgaria | 22 | 22 | 23 | 21 | 21 | 22 | 12 | 11 | 13 | 7 | 2.8 | 2.4 | 3.2 |
| Burkina Faso | 202 | 189 | 216 | 186 | 173 | 200 | 98 | 78 | 121 | 67 | 3.2 | 2.3 | 4.1 |
| Burundi | 171 | 155 | 189 | 149 | 131 | 170 | 83 | 50 | 129 | 57 | 3.1 | 1.2 | 5.4 |
| Cabo Verde | 63 | 61 | 65 | 35 | 34 | 36 | 26 | 24 | 28 | 21 | 3.8 | 3.5 | 4.2 |
| Cambodia | 118 | 109 | 127 | 111 | 102 | 121 | 38 | 21 | 70 | 39 | 4.9 | 2.2 | 7.4 |
| Cameroon | 136 | 127 | 146 | 151 | 139 | 165 | 95 | 58 | 148 | 45 | 1.6 | -0.4 | 3.7 |
| Canada | 8 | 8 | 8 | 6 | 6 | 6 | 5 | 5 | 6 | 3 | 2.0 | 1.7 | 2.3 |
| Central African Republic | 177 | 160 | 196 | 174 | 156 | 194 | 139 | 100 | 195 | 59 | 1.0 | -0.5 | 2.6 |
| Chad | 215 | 199 | 232 | 191 | 175 | 207 | 148 | 108 | 199 | 72 | 1.6 | 0.3 | 3.0 |
| Chile | 19 | 19 | 20 | 11 | 11 | 11 | 8 | 7 | 10 | 6 | 3.7 | 2.8 | 4.6 |
| China | 54 | 50 | 59 | 37 | 35 | 39 | 13 | 11 | 15 | 18 | 6.3 | 5.6 | 7.0 |
| Colombia | 35 | 33 | 38 | 25 | 23 | 27 | 17 | 13 | 23 | 12 | 3.2 | 1.8 | 4.5 |
| Comoros | 125 | 111 | 139 | 101 | 82 | 119 | 78 | 45 | 139 | 42 | 2.1 | -0.6 | 4.5 |
| Congo | 92 | 81 | 105 | 121 | 110 | 135 | 49 | 35 | 68 | 31 | 2.7 | 1.3 | 4.3 |
| Cook Islands | 24 | 22 | 27 | 17 | 15 | 19 | 9 | 6 | 12 | 8 | 4.4 | 2.9 | 6.0 |
| Costa Rica | 17 | 17 | 17 | 13 | 13 | 13 | 10 | 8 | 12 | 6 | 2.5 | 1.4 | 3.5 |
| Côte d'Ivoire | 152 | 141 | 162 | 146 | 134 | 159 | 100 | 83 | 121 | 51 | 1.8 | 1.0 | 2.6 |
| Croatia | 13 | 13 | 13 | 8 | 8 | 9 | 5 | 4 | 5 | 4 | 4.5 | 4.1 | 5.0 |
| Cuba | 13 | 13 | 14 | 8 | 8 | 9 | 6 | 5 | 7 | 4 | 3.3 | 2.8 | 3.9 |

| fi | ler- | 1990 | (thous | unds) Under- | deaths 2013 | | | death (death 1,000 liv | i ty rate ns per e births | :) | mort ra (death 1,000 | te ns per O live | infa dea | | mortal (deat 1,00 | natal ity rate hs per 0 live | neon dea | iths |
|----------------------------------|---------|----------------|---------|----------------|----------------|----------------|------|------------------------------|--|---------|-------------------------------|------------------------|-------------|------|-------------------------|---------------------------------------|-------------|------|
| Country de: | ve | Lower bound | Upper | five deaths | Lower bound | Upper bound | Male | Female | Male | Female | 1990 | ths) 2013 | (thous | 2013 | 1990 | ths) 2013 | 1990 | 2013 |
| Afghanistan | 98 | 87 | 110 | 100 | 81 | 125 | 184 | 174 | 101 | 94 | 121 | 70 | 67 | 71 | 51 | 36 | 28 | 37 |
| Albania | 4 | 3 | 4 | 1 | 0 | 1 | 44 | 36 | 16 | 13 | 35 | 13 | 3 | 1 | 17 | 7 | 2 | 0 |
| Algeria | 39 | 36 | 42 | 25 | 24 | 25 | 51 | 43 | 26 | 24 | 40 | 22 | 33 | 21 | 23 | 14 | 18 | 14 |
| Andorra | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 8 | 3 | 3 | 8 | 2 | 0 | 0 | 4 | 1 | 0 | 0 |
| Angola | 114 | 99 | 131 | 153 | 96 | 246 | 236 | 215 | 175 | 159 | 133 | 102 | 68 | 93 | 54 | 47 | 28 | 43 |
| Antigua and Barbuda | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 23 | 10 | 8 | 23 | 8 | 0 | 0 | 12 | 5 | 0 | 0 |
| Argentina | 20 | 20 | 21 | 9 | 9 | 10 | 31 | 24 | 15 | 12 | 24 | 12 | 18 | 8 | 16 | 7 | 12 | 5 |
| Armenia | 4 | 4 | 4 | 1 | 0 | 1 | 54 | 45 | 17 | 14 | 42 | 14 | 3 | 1 | 24 | 10 | 2 | 0 |
| Australia | 2 | 2 | 2 | 1 | 1 | 1 | 10 | 8 | 4 | 4 | 8 | 3 | 2 | 1 | 5 | 2 | 1 | 1 |
| Austria | 1 | 1 | 1 | 0 | 0 | 0 | 11 | 8 | 4 | 3 | 8 | 3 | 1 | 0 | 5 | 2 | 0 | 0 |
| Azerbaijan | 19 | 17 | 22 | 6 | 4 | 9 | 102 | 86 | 37 | 31 | 75 | 30 | 16 | 5 | 32 | 16 | 7 | 3 |
| Bahamas | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 22 | 14 | 12 | 20 | 10 | 0 | 0 | 12 | 7 | 0 | 0 |
| Bahrain | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 22 | 6 | 6 | 20 | 5 | 0 | 0 | 8 | 2 | 0 | 0 |
| Bangladesh | 31 | 514 | 549 | 129 | 115 | 145 | 146 | 141 | 44 | 38 | 100 | 33 | 366 | 105 | 55 | 24 | 203 | 77 |
| Barbados | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 16 | 16 | 13 | 16 | 13 | 0 | 0 | 10 | 8 | 0 | 0 |
| Belarus | 3 | 3 | 3 | 1 | 0 | 1 | 19 | 14 | 6 | 4 | 14 | 4 | 2 | 0 | 8 | 2 | 1 | 0 |
| Belgium | 1 | 1 | 1 | 1 | 1 | 1 | 11 | 9 | 5 | 4 | 8 | 4 | 1 | 0 | 5 | 2 | 1 | 0 |
| Belize | 0 | 0 | 0 | 0 | 0 | 0 | 44 | 35 | 18 | 15 | 32 | 14 | 0 | 0 | 16 | 8 | 0 | 0 |
| Benin | 39 | 36 | 42 | 31 | 19 | 46 | 186 | 172 | 89 | 81 | 108 | 56 | 24 | 20 | 41 | 27 | 9 | 10 |
| Bhutan | 3 | 2 | 3 | 1 | 0 | 1 | 140 | 127 | 40 | 33 | 93 | 30 | 2 | 0 | 43 | 18 | 1 | 0 |
| Bolivia (Plurinational State of) | 29 | 28 | 31 | 10 | 8 | 14 | 129 | 116 | 43 | 35 | 85 | 31 | 20 | 8 | 38 | 18 | 9 | 5 |
| Bosnia and Herzegovina | 1 | 1 | 1 | 0 | 0 | 0 | 20 | 16 | 7 | 6 | 16 | 6 | 1 | 0 | 12 | 4 | 1 | 0 |
| Botswana | 2 | 2 | 3 | 2 | 1 | 5 | 54 | 45 | 50 | 43 | 39 | 36 | 2 | 2 | 25 | 25 | 1 | 1 |
| | 218 | 201 | 236 | 41 | 36 | 47 | 67 | 55 | 15 | 12 | 51 | 12 | 179 | 37 | 28 | 8 | 96 | 25 |
| Brunei Darussalam | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 11 | 11 | 9 | 9 | 8 | 0 | 0 | 6 | 5 | 0 | 0 |
| Bulgaria | 3 | 3 | 3 | 1 | 1 | 1 | 25 | 19 | 13 | 10 | 18 | 10 | 2 | 1 | 12 | 6 | 1 | 0 |
| Burkina Faso | 79 | 73 | 85 | 64 | 51 | 80 | 210 | 194 | 103 | 92 | 103 | 64 | 40 | 43 | 40 | 27 | 16 | 18 |
| Burundi | 45 | 41 | 51 | 35 | 21 | 55 | 181 | 161 | 89 | 77 | 103 | 55 | 28 | 24 | 46 | 30 | 12 | 13 |
| Cabo Verde | 1 | 1 | 1 | 0 | 0 | 0 | 67 | 58 | 28 | 23 | 48 | 22 | 7 | 0 | 22 | 11 | 0 | 0 |
| Cambodia | 40 | 37 | 44 | 14 | 8 | 26 | 125 | 109 | 42 | 33 | 86 | 33 | 28 | 12 | 38 | 18 | 12 | 7 |
| Cameroon Canada | 70 3 | 65 3 | 75 3 | 75 2 | 45 2 | 121 | 144 | 128 7 | 101 | 88 5 | 85 7 | 61 5 | 44 | 49 | 35 5 | 28 | 18 2 | 23 |
| Central African Republic | 20 | 18 | 23 | 21 | 15 | 31 | 184 | 170 | 145 | 132 | 115 | 96 | 13 | 15 | 48 | 43 | 6 | 7 |
| Chad | 61 | 56 | 66 | 82 | 59 | 114 | 224 | 205 | 155 | 140 | 116 | 89 | 33 | 50 | 48 | 43 | 14 | 23 |
| Chile | 6 | 6 | 6 | 2 | 2 | 2 | 21 | 17 | 155 | 7 | 16 | 7 | 5 | 2 | 8 | 40 5 | 2 | 1 |
| | 644 | 1,509 | 1,803 | 236 | 205 | 273 | 56 | 52 | 14 | 12 | 42 | 11 | 1,315 | 203 | 25 | 8 | 772 | 143 |
| Colombia | 32 | 29 | 34 | 15 | 11 | 21 | 39 | 31 | 19 | 15 | 29 | 15 | 26 | 13 | 19 | 10 | 17 | 9 |
| Comoros | 2 | 2 | 2 | 2 | 1 | 4 | 133 | 118 | 83 | 72 | 88 | 58 | 1 | 1 | 41 | 31 | 17 | 1 |
| Congo | 8 | 7 | 9 | 8 | 5 | 11 | 98 | 86 | 53 | 45 | 60 | 36 | 5 | 6 | 30 | 19 | 3 | 3 |
| Cook Islands | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 22 | 10 | 8 | 21 | 8 | 0 | 0 | 12 | 5 | 0 | 0 |
| Costa Rica | 1 | 1 | 1 | 1 | 1 | 1 | 19 | 15 | 11 | 9 | 14 | 8 | 1 | 1 | 9 | 6 | 1 | 0 |
| Côte d'Ivoire | 73 | 68 | 79 | 72 | 60 | 88 | 163 | 139 | 109 | 91 | 104 | 71 | 50 | 53 | 48 | 38 | 23 | 28 |
| Croatia | 1 | 1 | 1 | 0 | 0 | 0 | 14 | 11 | 5 | 4 | 11 | 4 | 1 | 0 | 8 | 3 | 0 | 0 |
| Cuba | 2 | 2 | 3 | 1 | 1 | 1 | 15 | 11 | 7 | 5 | 11 | 5 | 2 | 1 | 7 | 3 | 1 | 0 |

| | | | | | | | | rtality rat 1,000 live | |) | | | |
|--|------|-------|----------------|------|----------------|----------------|-----------|---------------------------|----------------|----------------------------|-----------|--|----------------|
| | | 1990 | | | 2000 | luc | atiis pei | 2013 | טוו נווטן | Millennium Development | Annual ra | te of reduct (percent) 1990–2013 | ion (ARR) |
| Country | U5MR | Lower | Upper bound | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | Goal target for 2015 | ARR | Lower bound | Upper bound |
| Cyprus | 11 | 11 | 12 | 7 | 6 | 7 | 4 | 3 | 5 | 4 | 4.9 | 4.0 | 5.8 |
| Czech Republic | 15 | 14 | 15 | 7 | 6 | 7 | 4 | 3 | 4 | 5 | 6.1 | 5.6 | 6.5 |
| Democratic People's Republic of Korea | 43 | 34 | 56 | 60 | 47 | 77 | 27 | 22 | 35 | 14 | 2.0 | 2.0 | 2.0 |
| Democratic Republic of the Congo | 176 | 160 | 193 | 176 | 160 | 193 | 119 | 82 | 167 | 59 | 1.7 | 0.3 | 3.3 |
| Denmark | 9 | 9 | 9 | 6 | 5 | 6 | 4 | 3 | 4 | 3 | 4.1 | 3.4 | 4.6 |
| Djibouti | 119 | 102 | 137 | 101 | 86 | 120 | 70 | 50 | 96 | 40 | 2.3 | 0.8 | 3.9 |
| Dominica | 17 | 16 | 19 | 16 | 14 | 18 | 11 | 8 | 16 | 6 | 1.8 | 0.3 | 3.3 |
| Dominican Republic | 60 | 56 | 63 | 41 | 38 | 44 | 28 | 23 | 34 | 20 | 3.3 | 2.4 | 4.1 |
| Ecuador | 57 | 52 | 63 | 34 | 30 | 40 | 23 | 15 | 34 | 19 | 4.0 | 2.2 | 5.7 |
| Egypt | 85 | 81 | 89 | 45 | 42 | 48 | 22 | 21 | 23 | 28 | 5.9 | 5.7 | 6.2 |
| El Salvador | 60 | 54 | 65 | 32 | 29 | 37 | 16 | 11 | 24 | 20 | 5.8 | 4.0 | 7.6 |
| Equatorial Guinea | 184 | 155 | 223 | 142 | 119 | 172 | 96 | 53 | 172 | 61 | 2.8 | 0.2 | 5.5 |
| Eritrea | 151 | 138 | 165 | 89 | 81 | 99 | 50 | 36 | 70 | 50 | 4.8 | 3.3 | 6.3 |
| Estonia | 20 | 20 | 21 | 11 | 11 | 12 | 3 | 3 | 4 | 7 | 7.7 | 7.1 | 8.5 |
| Ethiopia | 205 | 190 | 221 | 146 | 134 | 158 | 64 | 48 | 84 | 68 | 5.0 | 3.9 | 6.4 |
| Fiji | 30 | 25 | 35 | 24 | 23 | 26 | 24 | 21 | 26 | 10 | 1.0 | 0.2 | 1.9 |
| Finland | 7 | 7 | 7 | 4 | 4 | 5 | 3 | 2 | 3 | 2 | 4.1 | 3.8 | 4.6 |
| France | 9 | 9 | 9 | 5 | 5 | 6 | 4 | 4 | 4 | 3 | 3.3 | 3.1 | 3.6 |
| Gabon | 93 | 81 | 107 | 85 | 73 | 99 | 56 | 43 | 73 | 31 | 2.2 | 0.9 | 3.5 |
| Gambia | 170 | 152 | 191 | 119 | 105 | 135 | 74 | 51 | 106 | 57 | 3.6 | 2.1 | 5.2 |
| Georgia | 47 | 43 | 53 | 36 | 32 | 41 | 13 | 11 | 16 | 16 | 5.6 | 4.7 | 6.4 |
| Germany | 9 | 8 | 9 | 5 | 5 | 5 | 4 | 4 | 4 | 3 | 3.4 | 3.2 | 3.6 |
| Ghana | 128 | 121 | 136 | 101 | 95 | 108 | 78 | 60 | 102 | 43 | 2.1 | 1.0 | 3.3 |
| Greece | 13 | 12 | 13 | 8 | 8 | 8 | 4 | 4 | 5 | 4 | 4.5 | 4.2 | 5.0 |
| Grenada | 22 | 21 | 24 | 16 | 15 | 17 | 12 | 9 | 15 | 7 | 2.7 | 1.6 | 4.0 |
| Guatemala | 81 | 76 | 86 | 51 | 46 | 56 | 31 | 22 | 45 | 27 | 4.2 | 2.6 | 5.6 |
| Guinea | 238 | 223 | 254 | 170 | 159 | 183 | 101 | 82 | 123 | 79 | 3.7 | 2.9 | 4.6 |
| Guinea-Bissau | 225 | 200 | 253 | 181 | 161 | 204 | 124 | 88 | 174 | 75 | 2.6 | 1.0 | 4.2 |
| Guyana | 61 | 55 | 68 | 49 | 44 | 55 | 37 | 25 | 54 | 20 | 2.2 | 0.5 | 4.0 |
| Haiti | 145 | 136 | 155 | 104 | 97 | 113 | 73 | 62 | 87 | 48 | 3.0 | 2.2 | 3.7 |
| Holy See | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Honduras | 59 | 55 | 63 | 38 | 35 | 41 | 22 | 18 | 27 | 20 | 4.3 | 3.4 | 5.1 |
| Hungary | 19 | 19 | 20 | 11 | 11 | 12 | 6 | 6 | 7 | 6 | 4.9 | 4.5 | 5.4 |
| Iceland | 6 | 6 | 7 | 4 | 4 | 5 | 2 | 2 | 3 | 2 | 4.8 | 3.5 | 6.1 |
| India | 126 | 122 | 130 | 91 | 88 | 95 | 53 | 48 | 58 | 42 | 3.8 | 3.3 | 4.3 |
| Indonesia | 84 | 81 | 88 | 52 | 50 | 55 | 29 | 26 | 34 | 28 | 4.6 | 4.0 | 5.2 |
| Iran (Islamic Republic of) | 57 | 52 | 61 | 35 | 32 | 38 | 17 | 14 | 21 | 19 | 5.3 | 4.3 | 6.3 |
| Iraq | 53 | 49 | 58 | 45 | 41 | 49 | 34 | 28 | 42 | 18 | 2.0 | 1.0 | 2.9 |
| Ireland | 9 | 9 | 10 | 7 | 7 | 7 | 4 | 4 | 4 | 3 | 3.8 | 3.4 | 4.1 |
| Israel | 12 | 11 | 12 | 7 | 7 | 7 | 4 | 4 | 4 | 4 | 4.6 | 4.3 | 5.0 |
| Italy | 10 | 10 | 10 | 6 | 5 | 6 | 4 | 3 | 4 | 3 | 4.3 | 3.9 | 4.7 |
| Jamaica | 30 | 25 | 35 | 24 | 20 | 28 | 17 | 11 | 25 | 10 | 2.5 | 0.5 | 4.3 |

| | _ | Number | r of und (thous | ands) | deaths | | | r- specifi mortal i (deatl 1,000 liv | i ty rate ns per | | mort ra (deatl | ant tality te hs per O live | inf | ber of ant aths | mortal (deat | natal ity rate hs per 0 live | neor | ber of natal aths |
|--|----------------|---------|---------------------------|----------------|---------|-------|------|---|----------------------------|----------|----------------------|---|------|-----------------------|-----------------|---------------------------------------|----------|-------------------------|
| | Under- five | Lower | | Under- five | Lower | | | 990 | | 013 | | ths) | | sands) | | ths) | <u> </u> | sands) |
| Country | deaths | bound | | deaths | bound | bound | Male | Female | Male | Female | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| Cyprus | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 10 | 4 | 3 | 10 | 3 | 0 | 0 | 6 | 2 | 0 | 0 |
| Czech Republic | 2 | 2 | 2 | 0 | 0 | 0 | 17 | 13 | 4 | 3 | 13 | 3 | 2 | 0 | 10 | 2 | 1 | 0 |
| Democratic People's Republic of Korea | 16 | 12 | 20 | 10 | 8 | 13 | 47 | 39 | 30 | 24 | 33 | 22 | 12 | 8 | 21 | 15 | 7 | 5 |
| Democratic Republic of the Congo | 275 | 248 | 304 | 320 | 218 | 461 | 184 | 168 | 126 | 111 | 115 | 86 | 183 | 235 | 48 | 38 | 76 | 105 |
| Denmark | 1 | 1 | 1 | 0 | 0 | 0 | 10 | 8 | 4 | 3 | 7 | 3 | 0 | 0 | 5 | 2 | 0 | 0 |
| Djibouti | 3 | 3 | 4 | 2 | 1 | 2 | 127 | 110 | 76 | 63 | 92 | 57 | 3 | 1 | 44 | 31 | 1 | 1 |
| Dominica | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 16 | 12 | 10 | 14 | 10 | 0 | 0 | 12 | 8 | 0 | 0 |
| Dominican Republic | 13 | 12 | 13 | 6 | 5 | 7 | 64 | 55 | 31 | 25 | 46 | 24 | 10 | 5 | 28 | 16 | 6 | 3 |
| Ecuador | 17 | 16 | 19 | 7 | 5 | 11 | 62 | 52 | 25 | 20 | 44 | 19 | 14 | 6 | 21 | 11 | 7 | 3 |
| Egypt | 154 | 146 | 162 | 42 | 40 | 43 | 85 | 85 | 23 | 21 | 63 | 19 | 114 | 35 | 32 | 12 | 58 | 22 |
| El Salvador | 10 | 9 | 11 | 2 | 1 | 3 | 64 | 54 | 17 | 14 | 46 | 14 | 8 | 2 | 19 | 7 | 3 | 1 |
| Equatorial Guinea | 3 | 3 | 4 | 2 | 1 | 5 | 192 | 175 | 101 | 90 | 124 | 69 | 2 | 2 | 48 | 33 | 1 | 1 |
| Eritrea | 21 | 19 | 23 | 11 | 8 | 16 | 161 | 139 | 55 | 45 | 93 | 36 | 13 | 8 | 36 | 18 | 5 | 4 |
| Estonia | 0 | 0 | 1 | 0 | 0 | 0 | 23 | 17 | 4 | 3 | 17 | 3 | 0 | 0 | 12 | 2 | 0 | 0 |
| Ethiopia | 447 | 409 | 486 | 196 | 143 | 259 | 218 | 191 | 70 | 58 | 122 | 44 | 268 | 136 | 55 | 28 | 120 | 84 |
| Fiji | 1 | 1 | 1 | 0 | 0 | 0 | 33 | 27 | 26 | 21 | 25 | 20 | 1 | 0 | 13 | 10 | 0 | 0 |
| Finland | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 3 | 2 | 6 | 2 | 0 | 0 | 4 | 1 | 0 | 0 |
| France | 6 | 6 | 6 | 3 | 3 | 4 | 10 | 8 | 5 | 4 | 7 | 4 | 5 | 3 | 4 | 2 | 2 | 2 |
| Gabon | 3 | 3 | 4 | 3 | 2 | 4 | 99 | 86 | 61 | 51 | 60 | 39 | 2 | 2 | 33 | 23 | 1 | 1 |
| Gambia | 7 | 6 | 8 | 6 | 4 | 8 | 177 | 162 | 79 | 69 | 80 | 49 | 3 | 4 | 46 | 28 | 2 | 2 |
| Georgia | 4 | 4 | 5 | 1 | 1 | 1 | 53 | 42 | 15 | 11 | 41 | 12 | 4 | 1 | 28 | 10 | 3 | 1 |
| Germany | 7 | 7 | 7 | 3 | 3 | 3 | 10 | 7 | 4 | 4 | 7 | 3 | 6 | 2 | 4 | 2 | 3 | 2 |
| Ghana | 70 | 66 | 75 | 62 | 46 | 81 | 136 | 121 | 84 | 72 | 80 | 52 | 44 | 41 | 40 | 29 | 22 | 23 |
| Greece | 1 | 1 | 1 | 0 | 0 | 1 | 14 | 11 | 5 | 4 | 11 | 4 | 1 | 0 | 9 | 3 | 1 | 0 |
| Grenada | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 20 | 13 | 11 | 18 | 11 | 0 | 0 | 10 | 6 | 0 | 0 |
| Guatemala | 27 | 25 | 29 | 15 | 10 | 21 | 86 | 75 | 34 | 28 | 60 | 26 | 20 | 12 | 29 | 15 | 10 | 7 |
| Guinea | 63 | 58 | 68 | 42 | 34 | 52 | 246 | 229 | 106 | 95 | 140 | 65 | 37 | 27 | 53 | 33 | 14 | 14 |
| Guinea-Bissau | 9 | 8 | 11 | 7 | 5 | 11 | 240 | 209 | 133 | 114 | 133 | 78 | 5 | 5 | 61 | 44 | 2 | 3 |
| Guyana | 1 | 1 | 1 | 1 | 0 | 1 | 68 | 54 | 41 | 32 | 47 | 30 | 1 | 0 | 29 | 20 | 1 | 0 |
| Haiti | 37 | 34 | 39 | 19 | 16 | 23 | 153 | 136 | 79 | 67 | 100 | 55 | 25 | 14 | 38 | 25 | 9 | 7 |
| Holy See | _ | _ | | _ | _ | _ | _ | _ | | _ | | _ | _ | _ | - | _ | _ | _ |
| Honduras | 11 | 10 | 12 | 5 | 4 | 6 | 64 | 54 | 25 | 20 | 46 | 19 | 8 | 4 | 25 | 12 | 4 | 2 |
| Hungary | 3 | 3 | 3 | 1 | 1 | 1 | 21 | 17 | 6 | 6 | 17 | 5 | 3 | 1 | 13 | 4 | 2 | 0 |
| Iceland | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 6 | 2 | 2 | 5 | 2 | 0 | 0 | 3 | 1 | 0 | 0 |
| India | 3,333 | 3,216 | 3,454 | | 1,203 | 1,478 | 122 | 130 | 51 | 55 26 | 88 | 41 | | 1,053 | 51 | 29 | 1,362 | 748 |
| Indonesia | 387 | 369 | 406 | 136 | 119 | 157 | 91 | 77 | 33 | 26 | 62 | 25 | 281 | 112 | 31 | 14 | 138 | 66 |
| Iran (Islamic Republic of) | 107 | 99 | 117 | 25 | 20 | 31 | 57 | 56 | 18 | 16 | 44 | 14 | 83 | 21 | 27 | 10 | 50 | 15 |
| Iraq Ireland | 35 0 | 32 0 | 38 | 35 | 28 0 | 44 | 57 | 49 | 37 4 | 31 | 42 8 | 28 | 28 | 29 | 26 | 19 | 17 0 | 19 |
| | | | | 0 | | 0 | 10 | 8 | | - | | | | | | 2 | | 0 |
| Israel | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 11 | 4 | 4 | 10 | 3 | 1 | 1 | 6 | 2 | 1 | 0 |
| Italy | 5 | 5 | 6 | 2 | 2 | 2 | 11 | 9 | 4 | 3 | 8 | 3 | 5 | 2 | | 2 | 4 | 1 |
| Jamaica | 2 | 1 | 2 | 1 | 1 | 1 | 33 | 26 | 19 | 15 | 25 | 14 | 1 | 1 | 17 | 10 | 1 | 1 |

| | | | | | | | | rtality rat 1,000 live | |) | | | |
|-------------------------------------|------|----------------|----------------|------|----------------|----------------|------|---------------------------|----------------|----------------------------|-----------|--|----------------|
| | | 1990 | | | 2000 | ļuc | | 2013 | טוו נווטן | Millennium Development | Annual ra | te of reduct (percent) 1990–2013 | ion (ARR) |
| Country | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | Goal target for 2015 | ARR | Lower bound | Upper bound |
| Japan | 6 | 6 | 6 | 5 | 4 | 5 | 3 | 3 | 3 | 2 | 3.4 | 3.3 | 3.6 |
| Jordan | 37 | 34 | 39 | 28 | 26 | 30 | 19 | 16 | 23 | 12 | 2.9 | 2.1 | 3.8 |
| Kazakhstan | 53 | 48 | 58 | 44 | 40 | 48 | 16 | 15 | 18 | 18 | 5.1 | 4.6 | 5.6 |
| Kenya | 99 | 93 | 105 | 111 | 102 | 121 | 71 | 47 | 106 | 33 | 1.5 | -0.3 | 3.2 |
| Kiribati | 95 | 82 | 111 | 71 | 61 | 82 | 58 | 40 | 85 | 32 | 2.1 | 0.4 | 3.9 |
| Kuwait | 17 | 16 | 17 | 13 | 12 | 13 | 10 | 9 | 10 | 6 | 2.5 | 2.1 | 2.8 |
| Kyrgyzstan | 66 | 58 | 74 | 49 | 44 | 54 | 24 | 23 | 26 | 22 | 4.3 | 3.8 | 4.9 |
| Lao People's Democratic Republic | 162 | 147 | 179 | 117 | 106 | 131 | 71 | 56 | 90 | 54 | 3.6 | 2.5 | 4.7 |
| • | | | | | | | | | | | | | |
| Latvia | 20 | 20 | 21 | 17 | 16 | 18 | 8 | 7 | 10 | 7 | 3.9 | 3.2 | 4.6 |
| Lebanon | 32 | 29 | 36 | 20 | 17 | 24 | 9 | 5 | 15 | 11 | 5.5 | 3.4 | 7.8 |
| Lesotho | 86 | 78 | 95 | 115 | 105 | 125 | 98 | 72 | 137 | 29 | -0.6 | -2.1 | 0.9 |
| Liberia | 248 | 226 | 272 | 175 | 160 | 193 | 71 | 51 | 99 | 83 | 5.4 | 4.0 | 6.9 |
| Libya | 42 | 36 | 50 | 28 | 27 | 30 | 15 | 12 | 19 | 14 | 4.7 | 3.4 | 5.9 |
| Liechtenstein | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Lithuania | 17 | 16 | 17 | 12 | 11 | 12 | 5 | 4 | 6 | 6 | 5.3 | 4.8 | 5.8 |
| Luxembourg | 9 | 8 | 10 | 5 | 4 | 5 | 2 | 2 | 3 | 3 | 6.4 | 5.1 | 7.5 |
| Madagascar | 161 | 150 | 172 | 111 | 101 | 121 | 56 | 38 | 82 | 54 | 4.6 | 2.9 | 6.3 |
| Malawi | 245 | 231 | 260 | 174 | 163 | 186 | 68 | 52 | 90 | 82 | 5.6 | 4.4 | 6.8 |
| Malaysia | 17 | 16 | 17 | 10 | 10 | 10 | 9 | 7 | 10 | 6 | 2.9 | 2.3 | 3.6 |
| Maldives | 94 | 85 | 103 | 44 | 40 | 48 | 10 | 9 | 11 | 31 | 9.8 | 9.0 | 10.5 |
| Mali | 254 | 238 | 272 | 220 | 204 | 238 | 123 | 85 | 175 | 85 | 3.2 | 1.7 | 4.8 |
| Malta | 11 | 11 | 12 | 8 | 7 | 9 | 6 | 5 | 8 | 4 | 2.7 | 1.8 | 3.6 |
| Marshall Islands | 50 | 42 | 58 | 42 | 35 | 49 | 38 | 29 | 49 | 17 | 1.2 | -0.2 | 2.6 |
| Mauritania | 118 | 106 | 130 | 113 | 101 | 128 | 90 | 57 | 145 | 39 | 1.2 | -1.0 | 3.2 |
| Mauritius | 23 | 22 | 24 | 19 | 18 | 20 | 14 | 13 | 16 | 8 | 2.1 | 1.6 | 2.5 |
| Mexico | 46 | 42 | 51 | 26 | 24 | 28 | 15 | 14 | 15 | 15 | 5.1 | 4.6 | 5.5 |
| Micronesia (Federated States of) | | 45 | 68 | 53 | 37 | 77 | 36 | 18 | 76 | 18 | 1.8 | -1.2 | 4.7 |
| Monaco | 8 | 7 | 9 | 5 | 5 | 6 | 4 | 3 | 4 | 3 | 3.2 | 2.4 | 4.0 |
| Mongolia | 108 | 99 | 117 | 65 | 58 | 72 | 32 | 21 | 47 | 36 | 5.3 | 3.6 | 7.0 |
| Montenegro | 17 | 16 | 18 | 14 | 13 | 15 | 5 | 5 | 6 | 6 | 5.0 | 4.2 | 5.7 |
| Morocco | 81 | 76 | 86 | 51 | 47 | 55 | 30 | 25 | 37 | 27 | 4.2 | 3.4 | 5.1 |
| Mozambique | 237 | 220 | 257 | 169 | 157 | 182 | 87 | 73 | 106 | 79 26 | 4.3 | 3.5 | 5.1 |
| Myanmar | 109 | 99 | 121 | 80 | 73 | 87 | 51 | 36 | 68 | 36 | 3.3 | 1.9 | 4.9 |
| Namibia | 74 | 67 | 80 | 76 | 69 | 83 | 50 | 40 | 64 | 25 | 1.7 | 0.5 | 2.8 |
| Nauru | 58 | 36 | 93 | 41 | 35 | 49 | 37 | 24 | 54 | 19 | 2.0 | -0.9 | 4.9 |
| Nepal | 142 | 133 | 152 | 82 | 76 | 88 | 40 | 31 | 52 | 47 | 5.6 | 4.4 | 6.7 |
| Netherlands | 8 | 8 | 9 | 6 | 6 | 6 | 4 | 4 | 4 | 3 | 3.2 | 2.9 | 3.4 |
| New Zealand | 11 | 11 | 12 | 7 | 7 | 8 | 6 | 6 | 7 | 4 | 2.5 | 1.9 | 3.1 |
| Nicaragua | 67 | 62 | 72 | 40 | 37 | 44 | 24 | 16 | 36 | 22 | 4.5 | 2.7 | 6.3 |
| Niger | 327 | 308 | 348 | 227 | 212 | 244 | 104 | 82 | 130 | 109 | 5.0 | 4.0 | 6.0 |
| Nigeria | 213 | 200 | 227 | 188 | 176 | 200 | 117 | 96 | 142 | 71 | 2.6 | 1.8 | 3.4 |
| Niue | 14 | 9 | 20 | 23 | 15 | 36 | 25 | 12 | 52 | 5 | -2.5 | -6.1 | 1.0 |
| Norway | 9 | 8 | 9 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 4.9 | 4.4 | 5.5 |

| | | Number | (thous | ands) | deaths | | | 1,000 liv | i ty rate ns per e births | s) | 1,000 | te ns per live | inf dea | ber of ant oths | mortal (deat 1,00 | natal ity rate hs per 0 live | | natal iths |
|-------------------------------------|--------------------------|--------|--------|--------------------------|--------|----------------|-----------|---------------|--|----------|----------|----------------------|------------|-----------------------|-------------------------|---------------------------------------|---------|---------------|
| Country | Under- five deaths | Lower | Upper | Under- five deaths | Lower | Upper bound | Male | 990 Female | Male | Female | birt | 2013 | (thous | 2013 | 1990 | ths) 2013 | (thous | 2013 |
| Japan | ueatiis 8 | 8 | 8 | 3 | 3 | 3 | 7 | 6 | 3 | 3 | 5 | 2013 | 5 | 2013 | 3 | 1 | 3 | 1 |
| Jordan | 4 | 4 | 4 | 4 | 3 | 4 | 38 | 35 | 20 | 18 | 30 | 16 | 3 | 3 | 19 | 11 | 2 | 2 |
| Kazakhstan | 21 | 19 | 23 | 5 | 5 | 6 | 59 | 46 | 19 | 14 | 45 | 15 | 18 | 5 | 23 | 9 | 9 | 3 |
| Kenya | 96 | 90 | 103 | 106 | 70 | 162 | 104 | 93 | 75 | 66 | 64 | 48 | 63 | 71 | 33 | 26 | 32 | 40 |
| Kiribati | 0 | 0 | 0 | 0 | 0 | 0 | 101 | 89 | 63 | 53 | 69 | 45 | 0 | 0 | 30 | 22 | 0 | 0 |
| Kuwait | 1 | 1 | 1 | 1 | 1 | 1 | 18 | 15 | 10 | 9 | 14 | 8 | 1 | 1 | 9 | 5 | 0 | 0 |
| Kyrgyzstan | 9 | 8 | 10 | 4 | 3 | 4 | 71 | 60 | 27 | 21 | 55 | 22 | 8 | 3 | 28 | 13 | 4 | 2 |
| Lao People's Democratic Republic | 28 | 26 | 32 | 13 | 10 | 17 | 172 | 152 | 77 | 65 | 111 | 54 | 20 | 10 | 48 | 29 | 9 | 5 |
| Latvia | 1 | 1 | 1 | 0 | 0 | 0 | 23 | 18 | 9 | 8 | 17 | 7 | 1 | 0 | 13 | 5 | 1 | 0 |
| Lebanon | 2 | 2 | 2 | 1 | 0 | 1 | 34 | 31 | 10 | 9 | 27 | 8 | 2 | 1 | 16 | 5 | 1 | 0 |
| Lesotho | 5 | 4 | 5 | 6 | 4 | 8 | 93 | 79 | 105 | 91 | 70 | 73 | 4 | 4 | 45 | 44 | 2 | 3 |
| Liberia | 23 | 20 | 25 | 10 | 7 | 15 | 260 | 235 | 76 | 66 | 165 | 54 | 15 | 8 | 52 | 26 | 5 | 4 |
| Libya | 5 | 4 | 6 | 2 | 1 | 2 | 46 | 39 | 16 | 13 | 36 | 12 | 4 | 2 | 21 | 9 | 2 | 1 |
| Liechtenstein | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| Lithuania | 1 | 1 | 1 | 0 | 0 | 0 | 18 | 15 | 5 | 4 | 13 | 4 | 1 | 0 | 9 | 3 | 1 | 0 |
| Luxembourg | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 8 | 2 | 2 | 7 | 2 | 0 | 0 | 4 | 1 | 0 | 0 |
| Madagascar | 82 | 76 | 88 | 43 | 29 | 64 | 168 | 153 | 60 | 52 | 98 | 40 | 52 | 31 | 41 | 21 | 22 | 17 |
| Malawi | 103 | 97 | 111 | 41 | 31 | 55 | 255 | 235 | 72 | 63 | 143 | 44 | 61 | 27 | 50 | 23 | 21 | 14 |
| Malaysia | 8 | 8 | 8 | 5 | 4 | 5 | 18 | 15 | 9 | 8 | 14 | 7 | 7 | 4 | 8 | 4 | 4 | 2 |
| Maldives | 1 | 1 | 1 | 0 | 0 | 0 | 99 | 88 | 11 | 9 | 68 | 8 | 1 | 0 | 36 | 6 | 0 | 0 |
| Mali | 91 | 84 | 98 | 82 | 56 | 120 | 263 | 245 | 129 | 117 | 131 | 78 | 47 | 53 | 59 | 40 | 21 | 28 |
| Malta | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 10 | 7 | 6 | 10 | 5 | 0 | 0 | 7 | 4 | 0 | 0 |
| Marshall Islands | 0 | 0 | 0 | 0 | 0 | 0 | 54 | 45 | 42 | 33 | 39 | 31 | 0 | 0 | 20 | 16 | 0 | 0 |
| Mauritania | 9 | 8 | 10 | 12 | 7 | 19 | 127 | 108 | 98 | 82 | 78 | 67 | 6 | 9 | 41 | 35 | 3 | 4 |
| Mauritius | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 20 | 16 | 13 | 20 | 13 | 0 | 0 | 16 | 9 | 0 | 0 |
| Mexico | 112 | 102 | 124 | 33 | 31 | 34 | 50 | 43 | 16 | 13 | 37 | 13 | 90 | 28 | 17 | 7 | 41 | 15 |
| Micronesia (Federated States of) | | 0 | 0 | 0 | 0 | 0 | 60 | 51 | 40 | 33 | 43 | 30 | 0 | 0 | 22 | 16 | 0 | 0 |
| Monaco | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 4 | 3 | 6 | 3 | 0 | 0 | 4 | 2 | 0 | 0 |
| Mongolia | 8 | 7 | 9 | 2 | 1 | 3 | 123 | 92 | 38 | 26 | 77 | 26 | 6 | 2 | 31 | 13 | 2 | 1 |
| Montenegro | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 16 | 6 | 5 | 15 | 5 | 0 | 0 | 11 | 4 | 0 | 0 |
| Morocco | 57 | 53 | 61 | 24 | 20 | 29 | 86 | 76 | 34 | 27 | 64 | 26 | 44 | 21 | 36 | 18 | 25 | 14 |
| Myonmor | 135 | 124 | 148 | 83 | 69 | 101 | 246 | 228 | 92 | 82 | 158 | 62 | 89 | 59 | 56 | 30 | 32 | 29 |
| Myanmar Namibia | 119 4 | 108 | 134 | 46 | 33 | 63 4 | 116 78 | 101 69 | 55 54 | 45 46 | 78 50 | 40 35 | 82 | 36 2 | 42 29 | 26 22 | 45 2 | 23 |
| Namidia Nauru | 0 | 0 | 0 | 0 | 0 | 0 | 62 | 53 | 40 | 33 | 45 | 30 | 0 | 0 | 29 | 20 | 0 | 0 |
| | 95 | 89 | | | | - | | 142 | 40 | | 99 | 32 | 67 | | | | | |
| Nepal Netherlands | 2 | 2 | 103 | 23 | 17 | 30 | 143 | 7 | 42 | 37 4 | 99 | 32 | 1 | 18 | 53 | 23 | 36 1 | 13 |
| New Zealand | 1 | 1 | 1 | 0 | 0 | 0 | 12 | 10 | 7 | 6 | 9 | 5 | 1 | 0 | 4 | 3 | 0 | 0 |
| Nicaragua | 10 | 9 | 11 | 3 | 2 | 5 | 72 | 61 | 26 | 21 | 51 | 20 | 7 | 3 | 25 | 12 | 4 | 2 |
| Niger | 129 | 120 | 140 | 86 | 68 | 109 | 332 | 323 | 108 | 100 | 138 | 60 | 54 | 51 | 50 | 28 | 19 | 24 |
| Nigeria Nigeria | 852 | 792 | 915 | 804 | 653 | 986 | 224 | 202 | 124 | 111 | 126 | 74 | 503 | 518 | 52 | 37 | 206 | 262 |
| Niue | 032 | 0 | 0 | 0 | 000 | 0 | 15 | 12 | 27 | 22 | 120 | 21 | 0 | 0 | 7 | 12 | 0 | 0 |
| Norway | 1 | 0 | 1 | 0 | 0 | 0 | 10 | 8 | 3 | 2 | 7 | 2 | 0 | 0 | 4 | 2 | 0 | 0 |

| | | | | | | | | r tality rat 1,000 live | |) | | | |
|--------------------------------|--------|----------------|----------------|------|----------------|----------------|------|-----------------------------------|----------------|----------------------------|-----------|--|----------------|
| | | 1990 | | | 2000 | luc | | 2013 | טוו נוואן | Millennium Development | Annual ra | te of reduct (percent) 1990–2013 | ion (ARR) |
| Country | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | Goal target for 2015 | ARR | Lower bound | Upper bound |
| Oman | 39 | 35 | 45 | 17 | 15 | 19 | 11 | 11 | 12 | 13 | 5.4 | 4.7 | 6.0 |
| Pakistan | 139 | 134 | 144 | 113 | 108 | 118 | 86 | 73 | 101 | 46 | 2.1 | 1.4 | 2.8 |
| Palau | 36 | 31 | 42 | 27 | 23 | 31 | 18 | 10 | 30 | 12 | 3.1 | 0.7 | 5.6 |
| Panama | 31 | 27 | 35 | 26 | 22 | 30 | 18 | 12 | 27 | 10 | 2.4 | 0.5 | 4.2 |
| Papua New Guinea | 89 | 80 | 99 | 78 | 68 | 91 | 61 | 40 | 94 | 30 | 1.6 | -0.3 | 3.5 |
| Paraguay | 46 | 42 | 51 | 34 | 29 | 39 | 22 | 15 | 32 | 15 | 3.2 | 1.6 | 4.9 |
| Peru | 80 | 76 | 84 | 40 | 37 | 43 | 17 | 13 | 21 | 27 | 6.8 | 5.7 | 7.9 |
| Philippines | 59 | 55 | 63 | 40 | 37 | 43 | 30 | 24 | 38 | 20 | 2.9 | 1.8 | 4.0 |
| Poland | 17 | 17 | 18 | 9 | 9 | 10 | 5 | 5 | 5 | 6 | 5.2 | 5.0 | 5.4 |
| Portugal | 15 | 14 | 15 | 7 | 7 | 7 | 4 | 3 | 4 | 5 | 5.9 | 5.5 | 6.4 |
| Qatar | 21 | 19 | 22 | 12 | 12 | 13 | 8 | 8 | 9 | 7 | 4.0 | 3.6 | 4.5 |
| Republic of Korea | 7 | 7 | 7 | 6 | 6 | 6 | 4 | 4 | 4 | 2 | 2.8 | 2.6 | 3.0 |
| Republic of Moldova | 32 | 27 | 39 | 31 | 25 | 37 | 15 | 12 | 23 | 11 | 3.2 | 1.4 | 4.7 |
| Romania | 38 | 37 | 38 | 27 | 27 | 28 | 12 | 11 | 13 | 13 | 5.0 | 4.8 | 5.2 |
| Russian Federation | 26 | 26 | 27 | 23 | 23 | 24 | 10 | 9 | 11 | 9 | 4.1 | 3.6 | 4.6 |
| Rwanda | 152 | 143 | 162 | 182 | 170 | 195 | 52 | 38 | 73 | 51 | 4.7 | 3.2 | 6.0 |
| Saint Kitts and Nevis | 29 | 26 | 31 | 18 | 16 | 20 | 10 | 6 | 17 | 10 | 4.5 | 2.2 | 6.7 |
| Saint Lucia | 23 | 21 | 24 | 18 | 17 | 19 | 15 | 13 | 17 | 8 | 1.9 | 1.2 | 2.6 |
| Saint Vincent and the Grenadin | nes 25 | 23 | 27 | 22 | 21 | 24 | 19 | 16 | 22 | 8 | 1.1 | 0.4 | 1.9 |
| Samoa | 31 | 27 | 35 | 22 | 19 | 25 | 18 | 13 | 23 | 10 | 2.3 | 1.1 | 3.8 |
| San Marino | 11 | 9 | 14 | 6 | 4 | 8 | 3 | 2 | 6 | 4 | 5.5 | 2.4 | 8.5 |
| Sao Tome and Principe | 110 | 97 | 125 | 89 | 76 | 105 | 51 | 33 | 80 | 37 | 3.4 | 1.3 | 5.3 |
| Saudi Arabia | 44 | 35 | 55 | 23 | 20 | 26 | 16 | 10 | 26 | 15 | 4.5 | 2.1 | 6.7 |
| Senegal | 141 | 134 | 149 | 137 | 128 | 146 | 55 | 43 | 71 | 47 | 4.1 | 3.0 | 5.2 |
| Serbia | 28 | 27 | 29 | 13 | 12 | 13 | 7 | 6 | 8 | 9 | 6.3 | 5.7 | 6.7 |
| Seychelles | 17 | 15 | 18 | 14 | 13 | 16 | 14 | 12 | 17 | 6 | 0.7 | -0.2 | 1.6 |
| Sierra Leone | 268 | 246 | 291 | 232 | 214 | 252 | 161 | 131 | 193 | 89 | 2.2 | 1.3 | 3.2 |
| Singapore | 8 | 7 | 8 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 4.4 | 3.9 | 4.9 |
| Slovakia | 18 | 17 | 18 | 12 | 12 | 12 | 7 | 7 | 8 | 6 | 3.9 | 3.6 | 4.2 |
| Slovenia | 10 | 10 | 11 | 6 | 5 | 6 | 3 | 3 | 3 | 3 | 5.6 | 4.8 | 6.2 |
| Solomon Islands | 39 | 33 | 45 | 34 | 29 | 41 | 30 | 19 | 50 | 13 | 1.1 | -1.2 | 3.3 |
| Somalia | 180 | 149 | 219 | 174 | 137 | 226 | 146 | 91 | 237 | 60 | 0.9 | -0.9 | 2.7 |
| South Africa | 61 | 54 | 69 | 74 | 67 | 84 | 44 | 35 | 55 | 20 | 1.4 | 0.2 | 2.6 |
| South Sudan | 253 | 211 | 296 | 183 | 157 | 213 | 99 | 67 | 143 | 84 | 4.1 | 2.3 | 5.9 |
| Spain | 11 | 11 | 11 | 7 | 6 | 7 | 4 | 4 | 5 | 4 | 4.2 | 3.9 | 4.5 |
| Sri Lanka | 21 | 21 | 22 | 16 | 16 | 17 | 10 | 8 | 11 | 7 | 3.5 | 2.8 | 4.1 |
| State of Palestine | 43 | 40 | 47 | 30 | 27 | 33 | 22 | 16 | 31 | 14 | 3.0 | 1.4 | 4.5 |
| Sudan | 128 | 119 | 138 | 108 | 98 | 118 | 77 | 61 | 95 | 43 | 2.2 | 1.3 | 3.3 |
| Suriname | 48 | 40 | 56 | 35 | 28 | 45 | 23 | 12 | 42 | 16 | 3.2 | 0.5 | 5.9 |
| Swaziland | 74 | 64 | 85 | 123 | 111 | 136 | 80 | 55 | 115 | 25 | -0.3 | -1.9 | 1.2 |
| Sweden | 7 | 7 | 7 | 4 | 4 | 4 | 3 | 3 | 3 | 2 | 3.6 | 3.3 | 3.9 |
| Switzerland | 8 | 8 | 9 | 6 | 6 | 6 | 4 | 4 | 5 | 3 | 2.9 | 2.4 | 3.4 |
| Syrian Arab Republic | 37 | 34 | 40 | 23 | 22 | 25 | 15 | 12 | 19 | 12 | 4.1 | 2.9 | 5.2 |
| Tajikistan | 108 | 98 | 120 | 94 | 82 | 107 | 48 | 34 | 69 | 36 | 3.6 | 1.9 | 5.1 |

| | | Numbe | r of und (thous | | deaths | | Sex | K-specifi mortal (deatl 1,000 liv | ity rate ns per | | mort ra (deatl | ant tality te hs per | inf | ber of ant | mortal (deat | natal ity rate hs per | Numi neon | natal |
|--------------------------------|----------------|----------------|---------------------------|----------------|----------------|----------------|------|--|---------------------------|---------|----------------------|-------------------------------|------|------------------------|-----------------|-----------------------------|---------------|-------|
| | Under- | | | Under- | 2013 | | 1: | 990 | |) 13 | | O live ths) | | i ths sands) | | 0 live ths) | dea (thous | |
| Country | five deaths | Lower bound | | five deaths | Lower bound | Upper bound | Male | Female | Male | Female | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| Oman | 3 | 2 | 3 | 1 | 1 | 1 | 43 | 36 | 12 | 10 | 32 | 10 | 2 | 1 | 19 | 7 | 1 | 1 |
| Pakistan | 620 | 596 | 646 | 394 | 333 | 470 | 141 | 136 | 89 | 82 | 106 | 69 | 480 | 316 | 56 | 42 | 255 | 194 |
| Palau | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 32 | 19 | 16 | 31 | 15 | 0 | 0 | 16 | 9 | 0 | 0 |
| Panama | 2 | 2 | 2 | 1 | 1 | 2 | 34 | 28 | 20 | 16 | 26 | 15 | 2 | 1 | 13 | 8 | 1 | 1 |
| Papua New Guinea | 12 | 11 | 14 | 13 | 8 | 20 | 94 | 83 | 66 | 57 | 65 | 47 | 9 | 10 | 31 | 24 | 4 | 5 |
| Paraguay | 6 | 6 | 7 | 3 | 2 | 5 | 50 | 42 | 24 | 20 | 37 | 19 | 5 | 3 | 22 | 12 | 3 | 2 |
| Peru | 52 | 49 | 55 | 10 | 8 | 13 | 84 | 76 | 18 | 15 | 57 | 13 | 37 | 8 | 26 | 8 | 17 | 5 |
| Philippines | 119 | 111 | 128 | 71 | 56 | 91 | 64 | 53 | 33 | 26 | 41 | 24 | 85 | 56 | 23 | 14 | 46 | 33 |
| Poland | 9 | 9 | 9 | 2 | 2 | 2 | 19 | 15 | 6 | 5 | 15 | 5 | 8 | 2 | 11 | 3 | 6 | 1 |
| Portugal | 2 | 2 | 2 | 0 | 0 | 0 | 16 | 13 | 4 | 3 | 12 | 3 | 1 | 0 | 7 | 2 | 1 | 0 |
| Qatar | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 19 | 9 | 7 | 18 | 7 | 0 | 0 | 10 | 4 | 0 | 0 |
| Republic of Korea | 4 | 4 | 4 | 2 | 2 | 2 | 7 | 7 | 4 | 3 | 6 | 3 | 3 | 2 | 3 | 2 | 2 | 1 |
| Republic of Moldova | 3 | 2 | 3 | 1 | 0 | 1 | 36 | 29 | 17 | 14 | 27 | 13 | 2 | 1 | 14 | 8 | 1 | 0 |
| Romania | 16 | 16 | 17 | 3 | 3 | 3 | 42 | 34 | 13 | 11 | 31 | 11 | 14 | 2 | 17 | 7 | 7 | 2 |
| Russian Federation | 59 | 58 | 60 | 17 | 15 | 19 | 30 | 22 | 11 | 9 | 22 | 9 | 49 | 14 | 15 | 5 | 33 | 9 |
| Rwanda | 50 | 46 | 53 | 22 | 16 | 31 | 160 | 144 | 56 | 48 | 93 | 37 | 31 | 16 | 39 | 20 | 13 | 9 |
| Saint Kitts and Nevis | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 26 | 11 | 9 | 23 | 8 | 0 | 0 | 17 | 7 | 0 | 0 |
| Saint Lucia | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 20 | 16 | 13 | 19 | 13 | 0 | 0 | 13 | 9 | 0 | 0 |
| Saint Vincent and the Grenadin | es O | 0 | 0 | 0 | 0 | 0 | 27 | 22 | 21 | 17 | 21 | 17 | 0 | 0 | 15 | 12 | 0 | 0 |
| Samoa | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 28 | 20 | 16 | 26 | 16 | 0 | 0 | 12 | 8 | 0 | 0 |
| San Marino | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 10 | 3 | 3 | 10 | 3 | 0 | 0 | 4 | 1 | 0 | 0 |
| Sao Tome and Principe | 0 | 0 | 1 | 0 | 0 | 1 | 117 | 104 | 55 | 47 | 70 | 37 | 0 | 0 | 32 | 19 | 0 | 0 |
| Saudi Arabia | 24 | 19 | 30 | 9 | 5 | 14 | 46 | 41 | 17 | 14 | 35 | 13 | 19 | 7 | 21 | 9 | 11 | 5 |
| Senegal | 44 | 42 | 47 | 29 | 22 | 37 | 148 | 134 | 60 | 50 | 71 | 44 | 22 | 23 | 42 | 23 | 13 | 12 |
| Serbia | 4 | 4 | 4 | 1 | 1 | 1 | 30 | 26 | 7 | 6 | 24 | 6 | 4 | 1 | 17 | 4 | 3 | 0 |
| Seychelles | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 15 | 15 | 13 | 14 | 12 | 0 | 0 | 10 | 9 | 0 | 0 |
| Sierra Leone | 46 | 42 | 51 | 34 | 27 | 42 | 280 | 255 | 169 | 152 | 158 | 107 | 27 | 23 | 57 | 44 | 10 | 9 |
| Singapore | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 7 | 3 | 3 | 6 | 2 | 0 | 0 | 4 | 1 | 0 | 0 |
| Slovakia | 1 | 1 | 2 | 0 | 0 | 0 | 20 | 15 | 8 | 6 | 16 | 6 | 1 | 0 | 12 | 4 | 1 | 0 |
| Slovenia | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 9 | 3 | 3 | 9 | 2 | 0 | 0 | 5 | 2 | 0 | 0 |
| Solomon Islands | 0 | 0 | 1 | 1 | 0 | 1 | 42 | 35 | 33 | 27 | 32 | 25 | 0 | 0 | 16 | 13 | 0 | 0 |
| Somalia | 50 | 41 | 63 | 65 | 39 | 112 | 187 | 172 | 152 | 139 | 108 | 90 | 31 | 40 | 52 | 46 | 15 | 21 |
| South Africa | 65 | 57 | 74 | 47 | 38 | 60 | 67 | 55 | 48 | 39 | 47 | 33 | 50 | 35 | 20 | 15 | 22 | 16 |
| South Sudan | 67 | 54 | 80 | 39 | 26 | 57 | 263 | 242 | 104 | 94 | 150 | 64 | 40 | 25 | 65 | 39 | 17 | 16 |
| Spain | 5 | 4 | 5 | 2 | 2 | 2 | 12 | 10 | 4 | 4 | 9 | 4 | 4 | 2 | 7 | 3 | 3 | 1 |
| Sri Lanka | 7 | 7 | 7 | 4 | 3 | 4 | 23 | 19 | 10 | 9 | 18 | 8 | 6 | 3 | 12 | 6 | 4 | 2 |
| State of Palestine | 4 | 3 | 4 | 3 | 2 | 4 | 46 | 41 | 24 | 20 | 35 | 19 | 3 | 2 | 21 | 12 | 2 | 2 |
| Sudan | 101 | 93 | 109 | 94 | 74 | 117 | 135 | 121 | 81 | 71 | 80 | 51 | 64 | 63 | 41 | 30 | 33 | 37 |
| Suriname | 0 | 0 | 0 | 0 | 0 | 0 | 53 | 43 | 25 | 20 | 41 | 20 | 0 | 0 | 22 | 12 | 0 | 0 |
| Swaziland | 3 | 2 | 3 | 3 | 2 | 4 | 79 | 68 | 85 | 75 | 55 | 56 | 2 | 2 | 30 | 30 | 1 | 1 |
| Sweden | 1 | 1 | 1 | 0 | 0 | 0 | 8 | 6 | 3 | 3 | 6 | 2 | 1 | 0 | 4 | 2 | 0 | 0 |
| Switzerland | 1 | 1 | 1 | 0 | 0 | 0 | 9 | 7 | 5 | 4 | 7 | 4 | 1 | 0 | 4 | 3 | 0 | 0 |
| Syrian Arab Republic | 17 | 15 | 18 | 8 | 6 | 10 | 40 | 34 | 16 | 13 | 30 | 12 | 14 | 6 | 17 | 8 | 8 | 4 |
| Tajikistan | 24 | 21 | 26 | 13 | 9 | 19 | 117 | 99 | 53 | 42 | 85 | 41 | 19 | 11 | 38 | 22 | 8 | 6 |

| | | | | | | | | rtality rat 1,000 live | |) | | | |
|--|------|----------------|----------------|------|----------------|----------------|------|----------------------------------|----------------|-----------------------------------|-----------|---|----------------|
| | | 1990 | | | 2000 | | | 2013 | | Millennium Development Goal | Annual ra | ate of reduct (percent) 1990–2013 | |
| Country | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | target for 2015 | ARR | Lower bound | Upper bound |
| Thailand | 37 | 35 | 40 | 23 | 20 | 26 | 13 | 9 | 20 | 12 | 4.5 | 2.7 | 6.3 |
| The former Yugoslav Republic of Macedonia | 37 | 35 | 38 | 16 | 15 | 17 | 7 | 5 | 8 | 12 | 7.4 | 6.4 | 8.8 |
| Timor-Leste | 172 | 156 | 190 | 107 | 97 | 118 | 55 | 39 | 74 | 57 | 5.0 | 3.6 | 6.5 |
| Togo | 146 | 135 | 158 | 122 | 111 | 134 | 85 | 60 | 118 | 49 | 2.4 | 0.9 | 3.9 |
| Tonga | 23 | 19 | 27 | 18 | 14 | 24 | 12 | 7 | 21 | 8 | 2.8 | 0.4 | 5.1 |
| Trinidad and Tobago | 31 | 26 | 36 | 29 | 22 | 40 | 21 | 11 | 44 | 10 | 1.6 | -1.7 | 4.3 |
| Tunisia | 52 | 45 | 60 | 31 | 26 | 37 | 15 | 12 | 19 | 17 | 5.4 | 4.1 | 6.6 |
| Turkey | 74 | 69 | 80 | 42 | 38 | 47 | 19 | 15 | 28 | 25 | 5.9 | 4.3 | 7.1 |
| Turkmenistan | 91 | 78 | 105 | 82 | 69 | 97 | 55 | 30 | 96 | 30 | 2.2 | -0.2 | 4.8 |
| Tuvalu | 57 | 48 | 67 | 43 | 38 | 48 | 29 | 19 | 45 | 19 | 2.9 | 0.9 | 4.9 |
| Uganda | 179 | 168 | 190 | 147 | 138 | 157 | 66 | 53 | 83 | 60 | 4.3 | 3.3 | 5.3 |
| Ukraine | 20 | 18 | 22 | 18 | 17 | 21 | 10 | 10 | 11 | 7 | 2.9 | 2.4 | 3.5 |
| United Arab Emirates | 17 | 14 | 19 | 11 | 11 | 12 | 8 | 7 | 10 | 6 | 3.0 | 2.0 | 4.0 |
| United Kingdom | 9 | 9 | 10 | 7 | 6 | 7 | 5 | 4 | 5 | 3 | 3.1 | 2.7 | 3.5 |
| United Republic of Tanzania | 167 | 157 | 177 | 132 | 123 | 140 | 52 | 39 | 70 | 56 | 5.1 | 3.8 | 6.4 |
| United States | 11 | 11 | 11 | 8 | 8 | 9 | 7 | 6 | 8 | 4 | 2.1 | 1.7 | 2.6 |
| Uruguay | 23 | 23 | 24 | 17 | 16 | 17 | 11 | 10 | 12 | 8 | 3.2 | 2.9 | 3.5 |
| Uzbekistan | 71 | 63 | 80 | 64 | 55 | 74 | 43 | 22 | 79 | 24 | 2.3 | -0.4 | 5.1 |
| Vanuatu | 33 | 28 | 39 | 23 | 19 | 29 | 17 | 11 | 28 | 11 | 2.9 | 0.8 | 4.9 |
| Venezuela (Bolivarian Republic of) | 30 | 29 | 30 | 21 | 21 | 22 | 15 | 13 | 17 | 10 | 3.0 | 2.5 | 3.5 |
| Viet Nam | 51 | 47 | 55 | 35 | 31 | 39 | 24 | 22 | 28 | 17 | 3.3 | 2.5 | 3.8 |
| Yemen | 125 | 117 | 133 | 96 | 88 | 104 | 51 | 41 | 64 | 42 | 3.9 | 2.8 | 4.9 |
| Zambia | 193 | 180 | 205 | 169 | 156 | 183 | 87 | 55 | 155 | 64 | 3.4 | 0.9 | 5.4 |
| Zimbabwe | 75 | 69 | 81 | 103 | 93 | 113 | 89 | 66 | 122 | 25 | -0.7 | -2.2 | 0.5 |

Estimates of under-five, infant and neonatal mortality by Millennium Development Goal region^a

| Developed regions | 15 | 15 | 15 | 10 | 10 | 10 | 6 | 6 | 6 | 5 | 3.8 | 3.6 | 4.0 |
|---------------------------|-----|-----|-----|-----|-----|-----|----|----|-----|----|-----|------|-----|
| Developing regions | 100 | 98 | 101 | 83 | 82 | 85 | 50 | 49 | 53 | 33 | 3.0 | 2.7 | 3.1 |
| Northern Africa | 72 | 70 | 75 | 44 | 42 | 45 | 24 | 23 | 25 | 24 | 4.8 | 4.5 | 5.1 |
| Sub-Saharan Africa | 179 | 175 | 183 | 156 | 153 | 160 | 92 | 87 | 101 | 60 | 2.9 | 2.5 | 3.1 |
| Latin America & Caribbean | 54 | 52 | 56 | 32 | 31 | 34 | 18 | 17 | 19 | 18 | 4.8 | 4.4 | 5.0 |
| Caucasus & Central Asia | 73 | 69 | 77 | 64 | 60 | 69 | 35 | 28 | 49 | 24 | 3.2 | 1.7 | 4.2 |
| Eastern Asia | 53 | 49 | 58 | 37 | 35 | 39 | 13 | 11 | 15 | 18 | 6.2 | 5.5 | 6.9 |
| Excluding China | 27 | 24 | 32 | 31 | 25 | 38 | 15 | 13 | 18 | 9 | 2.6 | 2.3 | 2.9 |
| Southern Asia | 126 | 123 | 129 | 92 | 90 | 95 | 55 | 51 | 59 | 42 | 3.6 | 3.3 | 3.9 |
| Excluding India | 126 | 123 | 128 | 94 | 91 | 96 | 60 | 55 | 67 | 42 | 3.2 | 2.7 | 3.6 |
| South-eastern Asia | 71 | 69 | 73 | 48 | 47 | 50 | 29 | 27 | 33 | 24 | 3.9 | 3.4 | 4.2 |
| Western Asia | 65 | 63 | 68 | 43 | 42 | 46 | 25 | 23 | 29 | 22 | 4.1 | 3.5 | 4.6 |
| Oceania | 74 | 68 | 81 | 67 | 59 | 76 | 54 | 37 | 80 | 25 | 1.4 | -0.3 | 3.0 |
| World | 90 | 89 | 92 | 76 | 75 | 77 | 46 | 44 | 48 | 30 | 3.0 | 2.7 | 3.1 |

| | | Numbe | | ler-five sands) | | | Sex | s-specific mortali (death | ty rate is per | | mort ra | ant ality te | | ber of ant | mortal | natal ity rate hs per | Numi | |
|--|--------------------------|-------|----------------|--------------------|-------|----------------|------|---------------------------------|--------------------------|--------|------------|--------------------|--------|---------------|--------|-----------------------------|--------|------|
| | | 1990 | | | 2013 | | | 1,000 liv | | | 1,000 |) live | dea | ths | 1,00 | 0 live | neon | ths |
| Country | Under- five deaths | Lower | Upper bound | | Lower | Upper bound | Male | Female | | Female | birt | ths) 2013 | (thous | 2013 | 1990 | ths) 2013 | (thous | 2013 |
| Thailand | 40 | 38 | 43 | 9 | 6 | 14 | 42 | 32 | 15 | 11 | 30 | 11 | 33 | 8 | 19 | 8 | 20 | 5 |
| The former Yugoslav Republic of Macedonia | 1 | 1 | 1 | 0 | 0 | 0 | 38 | 35 | 7 | 6 | 33 | 6 | 1 | 0 | 17 | 4 | 1 | 0 |
| Timor-Leste | 5 | 4 | 5 | 2 | 2 | 3 | 180 | 163 | 59 | 50 | 130 | 46 | 4 | 2 | 48 | 24 | 1 | 1 |
| Togo | 23 | 21 | 25 | 20 | 14 | 29 | 155 | 137 | 91 | 78 | 90 | 56 | 14 | 14 | 42 | 30 | 7 | 7 |
| Tonga | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 20 | 13 | 11 | 19 | 10 | 0 | 0 | 11 | 6 | 0 | 0 |
| Trinidad and Tobago | 1 | 1 | 1 | 0 | 0 | 1 | 33 | 28 | 23 | 19 | 27 | 19 | 1 | 0 | 20 | 15 | 0 | 0 |
| Tunisia | 11 | 10 | 13 | 3 | 2 | 4 | 55 | 49 | 16 | 14 | 41 | 13 | 9 | 2 | 24 | 9 | 5 | 2 |
| Turkey | 103 | 96 | 111 | 25 | 19 | 36 | 78 | 71 | 21 | 17 | 56 | 17 | 77 | 21 | 31 | 11 | 43 | 14 |
| Turkmenistan | 12 | 10 | 14 | 6 | 3 | 11 | 101 | 79 | 63 | 47 | 73 | 47 | 10 | 5 | 32 | 23 | 4 | 3 |
| Tuvalu | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 53 | 32 | 26 | 44 | 24 | 0 | 0 | 22 | 13 | 0 | 0 |
| Uganda | 146 | 137 | 156 | 102 | 81 | 129 | 191 | 166 | 72 | 60 | 107 | 44 | 89 | 68 | 40 | 22 | 33 | 35 |
| Ukraine | 14 | 12 | 16 | 5 | 5 | 5 | 22 | 17 | 11 | 9 | 17 | 9 | 12 | 4 | 9 | 5 | 6 | 2 |
| United Arab Emirates | 1 | 1 | 1 | 1 | 1 | 1 | 18 | 14 | 9 | 7 | 14 | 7 | 1 | 1 | 9 | 5 | 0 | 1 |
| United Kingdom | 7 | 7 | 7 | 4 | 3 | 4 | 10 | 8 | 5 | 4 | 8 | 4 | 6 | 3 | 5 | 3 | 4 | 2 |
| United Republic of Tanzania | 180 | 168 | 192 | 95 | 71 | 130 | 174 | 160 | 55 | 48 | 101 | 36 | 110 | 68 | 43 | 21 | 47 | 39 |
| United States | 44 | 43 | 44 | 29 | 26 | 32 | 12 | 10 | 8 | 6 | 9 | 6 | 37 | 25 | 6 | 4 | 22 | 17 |
| Uruguay | 1 | 1 | 1 | 1 | 1 | 1 | 26 | 20 | 12 | 10 | 20 | 10 | 1 | 0 | 11 | 6 | 1 | 0 |
| Uzbekistan | 52 | 46 | 59 | 26 | 14 | 50 | 79 | 63 | 48 | 37 | 59 | 37 | 43 | 23 | 20 | 14 | 15 | 9 |
| Vanuatu | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 29 | 19 | 15 | 27 | 15 | 0 | 0 | 15 | 9 | 0 | 0 |
| Venezuela (Bolivarian Republic of) | 17 | 17 | 17 | 9 | 8 | 10 | 33 | 26 | 17 | 13 | 25 | 13 | 14 | 8 | 15 | 8 | 9 | 5 |
| Viet Nam | 99 | 92 | 108 | 33 | 30 | 40 | 56 | 45 | 27 | 20 | 37 | 19 | 72 | 26 | 23 | 13 | 45 | 18 |
| Yemen | 71 | 67 | 76 | 38 | 30 | 48 | 130 | 119 | 55 | 47 | 88 | 40 | 50 | 30 | 43 | 24 | 25 | 18 |
| Zambia | 63 | 59 | 68 | 51 | 32 | 95 | 201 | 183 | 93 | 82 | 115 | 56 | 38 | 34 | 44 | 29 | 15 | 18 |
| Zimbabwe | 28 | 26 | 30 | 39 | 29 | 55 | 81 | 68 | 95 | 82 | 50 | 55 | 19 | 24 | 31 | 39 | 12 | 17 |

Estimates of under-five, infant and neonatal mortality by Millennium Development Goal region^a (continued)

| Developed regions | 226 | 224 | 229 | 87 | 83 | 90 | 16 | 13 | 7 | 5 | 12 | 5 | 189 | 73 | 8 | 3 | 118 | 48 |
|---------------------------|--------|--------|--------|-------|-------|-------|-----|-----|----|----|-----|----|-------|-------|----|----|-------|-------|
| Developing regions | 12,444 | 12,252 | 12,672 | 6,199 | 5,981 | 6,598 | 102 | 97 | 52 | 48 | 69 | 37 | 8,691 | 4,568 | 36 | 22 | 4,554 | 2,714 |
| Northern Africa | 266 | 257 | 276 | 95 | 90 | 100 | 74 | 70 | 25 | 22 | 55 | 20 | 204 | 82 | 30 | 13 | 109 | 53 |
| Sub-Saharan Africa | 3,809 | 3,728 | 3,901 | 3,113 | 2,931 | 3,441 | 188 | 169 | 98 | 86 | 107 | 61 | 2,305 | 2,084 | 46 | 31 | 977 | 1,066 |
| Latin America & Caribbean | 628 | 608 | 651 | 196 | 188 | 211 | 59 | 49 | 20 | 16 | 43 | 15 | 497 | 167 | 22 | 9 | 255 | 101 |
| Caucasus & Central Asia | 145 | 138 | 154 | 61 | 48 | 87 | 80 | 65 | 39 | 31 | 59 | 31 | 120 | 53 | 26 | 15 | 51 | 26 |
| Eastern Asia | 1,672 | 1,536 | 1,832 | 249 | 218 | 287 | 55 | 51 | 14 | 12 | 42 | 11 | 1,336 | 214 | 25 | 8 | 784 | 150 |
| Excluding China | 28 | 24 | 33 | 14 | 11 | 17 | 29 | 25 | 16 | 13 | 21 | 12 | 21 | 11 | 12 | 8 | 11 | 7 |
| Southern Asia | 4,796 | 4,675 | 4,924 | 2,015 | 1,869 | 2,178 | 124 | 128 | 55 | 55 | 90 | 43 | 3,409 | 1,588 | 51 | 30 | 1,940 | 1,086 |
| Excluding India | 1,463 | 1,429 | 1,498 | 675 | 610 | 758 | 128 | 123 | 63 | 57 | 92 | 48 | 1,070 | 535 | 49 | 30 | 578 | 338 |
| South-eastern Asia | 848 | 823 | 875 | 330 | 303 | 368 | 77 | 65 | 33 | 26 | 52 | 24 | 611 | 267 | 27 | 14 | 321 | 160 |
| Western Asia | 265 | 254 | 277 | 124 | 112 | 143 | 69 | 61 | 28 | 23 | 49 | 21 | 200 | 102 | 28 | 14 | 111 | 67 |
| Oceania | 14 | 13 | 16 | 14 | 10 | 22 | 79 | 69 | 58 | 49 | 55 | 42 | 11 | 11 | 26 | 21 | 5 | 6 |
| World | 12,670 | 12,479 | 12,900 | 6,285 | 6,069 | 6,686 | 93 | 88 | 47 | 44 | 63 | 34 | 8,880 | 4,641 | 33 | 20 | 4,672 | 2,763 |

Estimates of under-five, infant and neonatal mortality by UNICEF region^a

| | | | | | | | | rtality rat | |) | | | |
|---|------|----------------|----------------|------|----------------|----------------|----------|---------------------------|----------------|----------------------------|----------|---|----------------|
| | | 1990 | | | 2000 | (de | atns per | 1,000 live 2013 | DIFTNS) | Millennium Development | Annual r | ate of reduct (percent) 1990-2013 | ion (ARR) |
| Region | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | Goal target for 2015 | ARR | Lower bound | Upper bound |
| Africa | 163 | 160 | 167 | 144 | 141 | 147 | 85 | 80 | 93 | 54 | 2.8 | 2.4 | 3.1 |
| Sub-Saharan Africa | 179 | 175 | 183 | 156 | 153 | 160 | 92 | 87 | 101 | 60 | 2.9 | 2.5 | 3.1 |
| Eastern and Southern Africa | 165 | 161 | 170 | 140 | 137 | 145 | 74 | 69 | 85 | 55 | 3.5 | 2.9 | 3.8 |
| West and Central Africa | 197 | 191 | 203 | 175 | 170 | 181 | 109 | 99 | 123 | 66 | 2.6 | 2.0 | 3.0 |
| Middle East and North Africa | 70 | 69 | 72 | 50 | 49 | 52 | 31 | 28 | 33 | 23 | 3.6 | 3.2 | 4.0 |
| Asia | 90 | 88 | 93 | 70 | 69 | 72 | 39 | 37 | 42 | 30 | 3.7 | 3.4 | 3.9 |
| South Asia | 129 | 126 | 133 | 94 | 92 | 97 | 57 | 53 | 61 | 43 | 3.6 | 3.3 | 3.9 |
| East Asia and Pacific | 58 | 55 | 62 | 41 | 40 | 43 | 19 | 18 | 21 | 19 | 4.8 | 4.4 | 5.2 |
| Latin America and Caribbean | 54 | 52 | 56 | 32 | 31 | 34 | 18 | 17 | 19 | 18 | 4.8 | 4.4 | 5.0 |
| Central and Eastern Europe/Commonwealth of Independent States | 47 | 46 | 49 | 37 | 36 | 39 | 20 | 17 | 24 | 16 | 3.8 | 2.9 | 4.4 |
| World | 90 | 89 | 92 | 76 | 75 | 77 | 46 | 44 | 48 | 30 | 3.0 | 2.7 | 3.1 |

Estimates of under-five, infant and neonatal mortality by World Health Organization region^a

| | | | | | | | | r tality rat 1,000 live | |) | | | |
|-----------------------|------|----------------|----------------|------|----------------|----------------|------|-----------------------------------|----------------|----------------------------|-----------|---|----------------|
| | | 1990 | | | 2000 | | | 2013 | | Millennium Development | Annual ra | ate of reduct (percent) 1990-2013 | ion (ARR) |
| Region | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | Goal target for 2015 | ARR | Lower bound | Upper bound |
| Africa | 176 | 172 | 179 | 155 | 152 | 159 | 90 | 85 | 99 | 59 | 2.9 | 2.5 | 3.2 |
| Americas | 42 | 41 | 44 | 26 | 25 | 27 | 15 | 14 | 16 | 14 | 4.6 | 4.3 | 4.9 |
| Eastern Mediterranean | 101 | 98 | 103 | 80 | 78 | 83 | 55 | 51 | 62 | 34 | 2.6 | 2.1 | 3.0 |
| Europe | 32 | 31 | 33 | 23 | 22 | 24 | 12 | 11 | 15 | 11 | 4.2 | 3.4 | 4.7 |
| South-East Asia | 118 | 115 | 121 | 83 | 81 | 86 | 47 | 43 | 51 | 39 | 4.0 | 3.7 | 4.4 |
| Western Pacific | 52 | 49 | 56 | 36 | 34 | 37 | 15 | 14 | 17 | 17 | 5.3 | 4.7 | 5.8 |
| World | 90 | 89 | 92 | 76 | 75 | 77 | 46 | 44 | 48 | 30 | 3.0 | 2.7 | 3.1 |

Estimates of under-five, infant and neonatal mortality by UNICEF region^a (continued)

| | Under- | Numbe 1990 | r of und (thous | er-five ands) | deaths | | | c-specific mortali (deatl 1,000 liv | ty rate ns per e births | | 1,000 | | inf dea | ber of ant aths sands) | mortal (deat | natal ity rate hs per O live ths) | neor dea | ber of natal aths sands) |
|---|----------------|----------------|---------------------------|------------------|----------------|----------------|------|--|-------------------------------|--------|-------|------|------------|---------------------------------|-----------------|---|-------------|-----------------------------------|
| Region | five deaths | Lower bound | Upper bound | five deaths | Lower bound | Upper bound | Male | Female | Male | Female | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| Africa | 4,076 | 3,994 | 4,168 | 3,208 | 3,026 | 3,536 | 171 | 155 | 90 | 79 | 100 | 57 | 2,508 | 2,166 | 43 | 29 | 1,086 | 1,120 |
| Sub-Saharan Africa | 3,809 | 3,728 | 3,901 | 3,113 | 2,931 | 3,441 | 188 | 169 | 98 | 86 | 107 | 61 | 2,305 | 2,084 | 46 | 31 | 977 | 1,066 |
| Eastern and Southern Africa | 1,707 | 1,659 | 1,762 | 1,144 | 1,052 | 1,318 | 174 | 156 | 79 | 69 | 102 | 50 | 1,062 | 770 | 43 | 27 | 452 | 419 |
| West and Central Africa | 1,998 | 1,931 | 2,072 | 1,874 | 1,690 | 2,129 | 206 | 187 | 116 | 103 | 115 | 72 | 1,177 | 1,250 | 48 | 35 | 491 | 609 |
| Middle East and North Africa | 639 | 623 | 657 | 314 | 291 | 344 | 73 | 67 | 33 | 28 | 52 | 24 | 475 | 249 | 29 | 15 | 262 | 159 |
| Asia | 7,223 | 7,042 | 7,429 | 2,584 | 2,435 | 2,758 | 91 | 90 | 39 | 39 | 65 | 31 | 5,284 | 2,059 | 37 | 21 | 3,000 | 1,387 |
| South Asia | 4,689 | 4,568 | 4,816 | 1,991 | 1,843 | 2,153 | 127 | 132 | 56 | 57 | 92 | 45 | 3,327 | 1,567 | 52 | 30 | 1,890 | 1,070 |
| East Asia and Pacific | 2,534 | 2,397 | 2,696 | 594 | 553 | 650 | 61 | 55 | 21 | 17 | 44 | 16 | 1,958 | 492 | 25 | 10 | 1,110 | 316 |
| Latin America and Caribbean | 628 | 608 | 651 | 196 | 188 | 211 | 59 | 49 | 20 | 16 | 43 | 15 | 497 | 167 | 22 | 9 | 255 | 101 |
| Central and Eastern Europe/Commonwealth of Independent States | 357 | 347 | 369 | 114 | 100 | 143 | 52 | 43 | 22 | 17 | 38 | 17 | 288 | 99 | 20 | 9 | 150 | 55 |
| World | 12,670 | 12,479 | 12,900 | 6,285 | 6,069 | 6,686 | 93 | 88 | 47 | 44 | 63 | 34 | 8,880 | 4,641 | 33 | 20 | 4,672 | 2,763 |

Estimates of under-five, infant and neonatal mortality by World Health Organization region^a (continued)

| | _ | Numbe | r of und (thous | ler-five ands) | deaths | | Sex | c-specifi mortal i (death 1,000 liv | i ty rate is per | | Infa mortali (death | ity rate | inf | ber of ant aths | mortal (deat | natal ity rate ns per O live | neor | ber of natal aths |
|-----------------------|----------------|--------|---------------------------|-------------------|--------|-------|------|--|----------------------------|--------|---------------------------|----------|-------|-----------------------|-----------------|---------------------------------------|-------|-------------------------|
| | Under- five | Lower | Upper | Under- five | Lower | Upper | 19 | 990 | 2 | 013 | , | hs) | | sands) | | ths) | | sands) |
| Region | deaths | bound | bound | deaths | bound | bound | Male | Female | Male | Female | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| Africa | 3,694 | 3,612 | 3,783 | 2,978 | 2,791 | 3,294 | 185 | 166 | 96 | 84 | 106 | 60 | 2,240 | 2,000 | 45 | 31 | 947 | 1,021 |
| Americas | 675 | 654 | 698 | 227 | 218 | 242 | 46 | 39 | 16 | 13 | 34 | 12 | 536 | 193 | 18 | 8 | 279 | 119 |
| Eastern Mediterranean | 1,365 | 1,333 | 1,401 | 845 | 775 | 951 | 103 | 98 | 58 | 52 | 75 | 43 | 1,018 | 652 | 40 | 26 | 540 | 395 |
| Europe | 417 | 407 | 429 | 137 | 122 | 166 | 35 | 29 | 14 | 11 | 26 | 11 | 338 | 118 | 14 | 6 | 183 | 68 |
| South-East Asia | 4,538 | 4,418 | 4,665 | 1,700 | 1,562 | 1,843 | 117 | 120 | 47 | 47 | 84 | 37 | 3,191 | 1,346 | 47 | 26 | 1,819 | 941 |
| Western Pacific | 1,977 | 1,841 | 2,139 | 395 | 360 | 443 | 55 | 49 | 17 | 14 | 40 | 13 | 1,555 | 330 | 24 | 8 | 902 | 217 |
| World | 12,670 | 12,479 | 12,900 | 6,285 | 6,069 | 6,686 | 93 | 88 | 47 | 44 | 63 | 34 | 8,880 | 4,641 | 33 | 20 | 4,672 | 2,763 |

Estimates of under-five, infant and neonatal mortality by World Bank region^a

| | | | | | | | | r tality rat 1,000 live | |) | | | |
|-----------------------|------|----------------|----------------|------|----------------|----------------|------|-----------------------------------|----------------|----------------------------|----------|---|----------------|
| | | 1990 | | | 2000 | | | 2013 | | Millennium Development | Annual r | ate of reduct (percent) 1990-2013 | ion (ARR) |
| Region | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | Goal target for 2015 | ARR | Lower bound | Upper bound |
| Low income | 167 | 164 | 170 | 135 | 133 | 138 | 76 | 72 | 84 | 56 | 3.4 | 3.0 | 3.7 |
| Middle income | 87 | 86 | 89 | 71 | 70 | 73 | 43 | 41 | 47 | 29 | 3.0 | 2.7 | 3.3 |
| Lower middle income | 119 | 117 | 121 | 93 | 91 | 96 | 59 | 56 | 64 | 40 | 3.0 | 2.7 | 3.3 |
| Upper middle income | 54 | 52 | 58 | 39 | 37 | 40 | 20 | 18 | 22 | 18 | 4.4 | 3.8 | 4.9 |
| Low and middle income | 100 | 98 | 101 | 84 | 83 | 85 | 50 | 49 | 54 | 33 | 3.0 | 2.7 | 3.1 |
| High income | 14 | 14 | 15 | 10 | 10 | 10 | 6 | 6 | 7 | 5 | 3.6 | 3.2 | 3.8 |
| World | 90 | 89 | 92 | 76 | 75 | 77 | 46 | 44 | 48 | 30 | 3.0 | 2.7 | 3.1 |

Estimates of under-five, infant and neonatal mortality by United Nations Population Division region^a

| | Under-five mortality rate (U5MR) (deaths per 1,000 live births) | | | | | | | | | | | | |
|-------------------------------------|---|----------------|----------------|------|----------------|----------------|------|----------------|----------------|----------------------------|----------|---|----------------|
| | | 1990 | | | 2000 | | | 2013 | | Millennium Development | Annual r | rate of reducti (percent) 1990-2013 | on (ARR) |
| Region | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | U5MR | Lower bound | Upper bound | Goal target for 2015 | ARR | Lower bound | Upper bound |
| More developed regions | 15 | 15 | 15 | 10 | 10 | 10 | 6 | 6 | 6 | 5 | 3.8 | 3.6 | 4.0 |
| Less developed regions | 100 | 98 | 101 | 83 | 82 | 85 | 50 | 48 | 53 | 33 | 3.0 | 2.7 | 3.1 |
| Least developed countries | 174 | 171 | 177 | 139 | 136 | 142 | 80 | 76 | 88 | 58 | 3.4 | 3.0 | 3.6 |
| Excluding least developed countries | 85 | 83 | 87 | 69 | 67 | 70 | 41 | 39 | 44 | 28 | 3.1 | 2.8 | 3.4 |
| Excluding China | 114 | 113 | 116 | 91 | 90 | 93 | 57 | 55 | 60 | 38 | 3.0 | 2.8 | 3.2 |
| Sub-Saharan Africa | 181 | 177 | 185 | 158 | 155 | 162 | 93 | 87 | 102 | 60 | 2.9 | 2.5 | 3.2 |
| Africa | 163 | 160 | 167 | 144 | 141 | 147 | 85 | 80 | 93 | 54 | 2.8 | 2.4 | 3.1 |
| Asia | 87 | 85 | 89 | 67 | 65 | 68 | 37 | 35 | 39 | 29 | 3.7 | 3.4 | 4.0 |
| Europe | 18 | 17 | 18 | 12 | 12 | 12 | 6 | 6 | 7 | 6 | 4.5 | 4.3 | 4.7 |
| Latin America & Caribbean | 54 | 52 | 56 | 32 | 31 | 34 | 18 | 17 | 19 | 18 | 4.8 | 4.4 | 5.0 |
| Northern America | 11 | 11 | 11 | 8 | 8 | 8 | 7 | 6 | 7 | 4 | 2.1 | 1.7 | 2.5 |
| Oceania | 34 | 32 | 37 | 33 | 30 | 37 | 25 | 18 | 36 | 11 | 1.5 | -0.1 | 2.9 |
| World | 90 | 89 | 92 | 76 | 75 | 77 | 46 | 44 | 48 | 30 | 3.0 | 2.7 | 3.1 |

Definitions

Under-five mortality rate: Probability of dying between birth and exactly five years of age, expressed per 1,000 live births.

Infant mortality rate: Probability of dying between birth and exactly one year of age, expressed per 1,000 live births.

Neonatal mortality rate: Probability of dying in the first month of life, expressed per 1,000 live births.

Note: Upper and lower bounds refer to the 90 percent uncertainty intervals for the estimates. Estimates are generated by the United Nations Inter-agency Group for Child Mortality Estimation to ensure comparability; they are not necessarily the official statistics of UN Member States, which may use alternative rigorous methods.

a The sum of the number of deaths by region may differ from the world total because of rounding.

Estimates of under-five, infant and neonatal mortality by World Bank region^a (continued)

| | | Numbe | r of und (thous | | deaths | | Sex | c-specifi c mortal i (death 1,000 liv | ity rate ns per | | Infa mortali (death | ty rate | inf | ber of ant aths | mortal (deat | natal ity rate hs per O live | neoi | ber of natal |
|-----------------------|----------------|--------|--------------------|----------------|--------|-------|------|--|--------------------|--------|---------------------------|---------|-------|-----------------------|-----------------|---------------------------------------|--------|-----------------|
| | Under- five | Lower | Upper | Under- five | Lower | Upper | 19 | 990 | 2 | 013 | birt | | (thou | sands) | | ths) | (thous | sands) |
| Region | deaths | bound | bound | deaths | | bound | Male | Female | Male | Female | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| Low income | 3,209 | 3,155 | 3,276 | 2,000 | 1,877 | 2,221 | 174 | 159 | 81 | 71 | 105 | 53 | 2,015 | 1,396 | 47 | 28 | 914 | 748 |
| Middle income | 9,241 | 9,051 | 9,459 | 4,191 | 3,986 | 4,494 | 89 | 86 | 45 | 42 | 63 | 33 | 6,685 | 3,166 | 34 | 20 | 3,645 | 1,963 |
| Lower middle income | 6,475 | 6,341 | 6,618 | 3,456 | 3,254 | 3,727 | 120 | 118 | 61 | 57 | 83 | 44 | 4,497 | 2,579 | 44 | 27 | 2,409 | 1,596 |
| Upper middle income | 2,766 | 2,630 | 2,931 | 736 | 672 | 842 | 57 | 51 | 21 | 18 | 43 | 16 | 2,188 | 586 | 24 | 10 | 1,236 | 366 |
| Low and middle income | 12,451 | 12,260 | 12,680 | 6,191 | 5,973 | 6,591 | 102 | 97 | 52 | 48 | 69 | 37 | 8,699 | 4,562 | 36 | 22 | 4,559 | 2,711 |
| High income | 219 | 214 | 225 | 94 | 89 | 101 | 16 | 13 | 7 | 6 | 12 | 5 | 180 | 79 | 8 | 4 | 113 | 52 |
| World | 12,670 | 12,479 | 12,900 | 6,285 | 6,069 | 6,686 | 93 | 88 | 47 | 44 | 63 | 34 | 8,880 | 4,641 | 33 | 20 | 4,672 | 2,763 |

Estimates of under-five, infant and neonatal mortality by United Nations Population Division region^a (continued)

| | Number of under-five deaths (thousands) 1990 2013 Under- five Lower Upper five Lower Upper | | | | | Sex | r-specific mortali (death 1,000 live | i ty rate ns per | | | | inf | ber of ant aths | mortal (deat | natal ity rate hs per O live | neor | ber of natal | |
|-------------------------------------|--|--------|--------|--------|-------|-------|---|----------------------------|------|--------|------|------|-----------------------|-----------------|---------------------------------------|------|-----------------|--------|
| | | Lower | Upper | | Lower | Upper | 19 | 990 | 2 | 013 | | ths) | | sands) | | ths) | | sands) |
| Region | deaths | bound | bound | deaths | bound | bound | Male | Female | Male | Female | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 | 1990 | 2013 |
| More developed regions | 224 | 223 | 227 | 86 | 82 | 90 | 16 | 13 | 7 | 6 | 12 | 5 | 187 | 73 | 8 | 3 | 117 | 48 |
| Less developed regions | 12,445 | 12,253 | 12,673 | 6,199 | 5,982 | 6,599 | 102 | 97 | 52 | 48 | 69 | 37 | 8,693 | 4,569 | 36 | 22 | 4,555 | 2,715 |
| Least developed countries | 3,563 | 3,504 | 3,635 | 2,275 | 2,149 | 2,523 | 181 | 166 | 85 | 75 | 108 | 55 | 2,227 | 1,579 | 49 | 29 | 1,004 | 838 |
| Excluding least developed countries | 8,882 | 8,693 | 9,097 | 3,925 | 3,716 | 4,203 | 87 | 83 | 43 | 40 | 61 | 31 | 6,466 | 2,990 | 34 | 20 | 3,551 | 1,876 |
| Excluding China | 10,801 | 10,657 | 10,966 | 5,964 | 5,744 | 6,360 | 117 | 111 | 59 | 54 | 78 | 41 | 7,377 | 4,366 | 40 | 25 | 3,782 | 2,572 |
| Sub-Saharan Africa | 3,709 | 3,627 | 3,799 | 3,019 | 2,837 | 3,344 | 190 | 171 | 99 | 87 | 109 | 61 | 2,241 | 2,021 | 46 | 31 | 944 | 1,029 |
| Africa | 4,076 | 3,994 | 4,168 | 3,208 | 3,026 | 3,536 | 171 | 155 | 90 | 79 | 100 | 57 | 2,508 | 2,166 | 43 | 29 | 1,086 | 1,120 |
| Asia | 7,735 | 7,553 | 7,945 | 2,784 | 2,638 | 2,967 | 87 | 86 | 38 | 36 | 63 | 30 | 5,682 | 2,228 | 36 | 20 | 3,211 | 1,490 |
| Europe | 167 | 165 | 170 | 50 | 48 | 52 | 20 | 15 | 7 | 6 | 15 | 5 | 140 | 42 | 9 | 4 | 89 | 28 |
| Latin America & Caribbean | 628 | 608 | 651 | 196 | 188 | 211 | 59 | 49 | 20 | 16 | 43 | 15 | 497 | 167 | 22 | 9 | 255 | 101 |
| Northern America | 47 | 46 | 48 | 31 | 28 | 34 | 12 | 10 | 7 | 6 | 9 | 6 | 39 | 27 | 6 | 4 | 24 | 18 |
| Oceania | 17 | 16 | 19 | 16 | 11 | 23 | 37 | 32 | 27 | 22 | 26 | 19 | 13 | 12 | 13 | 10 | 6 | 7 |
| World | 12,670 | 12,479 | 12,900 | 6,285 | 6,069 | 6,686 | 93 | 88 | 47 | 44 | 63 | 34 | 8,880 | 4,641 | 33 | 20 | 4,672 | 2,763 |

Regional Classifications

The regional classifications that are referred to in the report and for which aggregate data are provided in the statistical table are Millennium Development Goal regions (see below). Aggregates presented for member organizations of the Inter-agency Group for Child Mortality Estimation may differ. Regions with the same names in different agencies may include different countries.

Developed regions

Albania, Andorra, Australia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, New Zealand, Norway, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, The former Yugoslav Republic of Macedonia, Ukraine, United Kingdom, United States

Developing regions

Caucasus and Central Asia

Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan

Eastern Asia

China, Democratic People's Republic of Korea, Mongolia, Republic of Korea

Latin America and the Caribbean

Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Bolivia (Plurinational State of), Brazil, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, Uruguay, Venezuela (Bolivarian Republic of)

Northern Africa

Algeria, Egypt, Libya, Morocco, Tunisia

Oceania

Cook Islands, Fiji, Kiribati, Marshall Islands, Micronesia (Federated States of), Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu

South-eastern Asia

Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, Philippines, Singapore, Thailand, Timor-Leste, Viet Nam

Southern Asia

Afghanistan, Bangladesh, Bhutan, India, Iran (Islamic Republic of), Maldives, Nepal, Pakistan, Sri Lanka

Sub-Saharan Africa

Angola, Benin, Botswana, Burkina Faso, Burundi, Cabo Verde, Cameroon, Central African Republic, Chad, Comoros, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, Sudan, Swaziland, Togo, Uganda, United Republic of Tanzania, Zambia, Zimbabwe

Western Asia

Bahrain, Iraq, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, State of Palestine, Syrian Arab Republic, Turkey, United Arab Emirates, Yemen



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The UN Inter-agency Group for Child Mortality Estimation

The UN Inter-agency Group for Child Mortality Estimation (UN IGME) was formed in 2004 to share data on child mortality, harmonize estimates within the UN system, improve methods for child mortality estimation, report on progress towards the Millennium Development Goals and enhance country capacity to produce timely and properly assessed estimates of child mortality. The UN IGME includes the United Nations Children's Fund, the World Health Organization, the World Bank and the United Nations Population Division of the Department of Economic and Social Affairs as full members.

The UN IGME's independent Technical Advisory Group, comprising eminent scholars and independent experts in demography, provides technical guidance on estimation methods, technical issues and strategies for data analysis and data quality assessment.

The UN IGME updates its child mortality estimates annually after reviewing newly available data and assessing data quality. This report contains the latest UN IGME estimates of child mortality at the country, regional and global levels. Country-specific estimates and the data used to derive them are available at www.childmortality.org.