# WORLD HEALTH STATISTICS

OVERVIEW

2079

# MONITORING HEALTH FOR THE SDGS SUSTAINABLE





# WORLD HEALTH STATISTICS

**OVERVIEW** 

2019

# MONITORING HEALTH FOR THE SDGS SUSTAINABLE DEVELOPMENT GOALS



#### WHO/DAD/2019.1

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## **FOREWORD**



or 71 years, the World Health Organization has had one vision: the highest attainable standard of health for all people in all countries. Reliable data are vital for assessing whether we are making progress toward that vision, for highlighting areas of progress and for exposing where we need to change course.

Health trends are constantly evolving, and so are health systems. No health system is perfect, and all countries have people who are left behind. It is therefore important to accurately document the state of global health and how it is changing.

The World health statistics, published annually since 2005, is WHO's annual snapshot of the state of the world's health. Since 2016, the World Health Statistics series has focused on monitoring progress toward the Sustainable Development Goals, and the 2019 edition contains the latest available data for the health-related SDG indicators.

The SDGs address inequality wherever it exists. The 2019 edition reports on trends over time and disaggregates data by WHO region, World Bank income group, and sex to identify key inequalities. The report reveals that in low-income countries, health is frequently compromised by diseases and conditions that are preventable or treatable. Many premature deaths are associated with environmental factors or the leading underlying causes of death, such as tobacco use, unhealthy diet, physical inactivity, and unhealthy consumption of alcohol.

Although the *World health statistics 2019* tells its story with numbers, the consequences are human. In low-income countries, one woman in 41 dies from maternal causes, and each maternal death greatly affects the health of surviving family members and the resilience of the community. Not only are the risks of maternal deaths elevated by poverty, but their occurrence perpetuates the cycle of poverty in poor communities from one generation to the next.

We must be relentless in our pursuit of solutions to such human tragedies, and our responses must be informed by robust, reliable data on health risks, access to services and health outcomes. At present, many countries lack the health information systems they need to accurately monitor health trends and inform decision making. That is why WHO is creating an entirely new process for strategic policy dialogue with countries, using evidence and information strategically to drive change.

We will continue to work with countries to strengthen their information systems for health and generate better data. We will also build a modern data backbone that allows sharing and analysis of data among the three levels of the organization and countries. And we will make investments to strengthen analytical capacity at all levels, to identify trends, make projections, and support acceleration of progress toward achieving health targets.

Behind every number in these pages is a person, a family, a community and a nation. My hope is that governments, health providers, academics, civil society organizations, the media and others use these numbers to promote health, keep the world safe and serve the vulnerable.

**Dr Tedros Adhanom Ghebreyesus** 

Earl All

Director-General

World Health Organization

## **ABBREVIATIONS**

AFR WHO African Region

AIDS acquired immunodeficiency syndrome

AMR WHO Region of the Americas

**COPD** chronic obstructive pulmonary disease

CRD chronic respiratory disease

CVD cardiovascular disease

DTP3 diphtheria-tetanus-pertussis third dose
EMR WHO Eastern Mediterranean Region

**EUR** WHO European Region

**GGE** general government expenditure

**HALE** healthy life expectancy

HI high income

HIV human immunodeficiency virus

IHR International Health Regulations

LI low income

LMI lower-middle income
M/F male to female (ratio)

MCV2 measles-containing vaccine second dose

NCD noncommunicable diseaseNTD neglected tropical diseaseODA official development assistance

PCV3 pneumococcal conjugate vaccine third dose

SDG Sustainable Development Goal
SEAR WHO South-East Asia Region

TB tuberculosis

UHC universal health coverageUMI upper-middle income

**WASH** water, sanitation and hygiene for all

WB World Bank

WHO World Health Organization
WPR WHO Western Pacific Region



The World Health Statistics series is the World Health Organization's (WHO's) annual compilation of health statistics for its 194 Member States. The series is produced by WHO's Division for Data, Analytics and Delivery, in collaboration with WHO technical departments and regional offices.

World health statistics 2019 summarizes recent trends and levels in life expectancy and causes of death, and reports on the health and health-related Sustainable Development Goals (SDGs) and associated targets. Where possible, the 2019 report disaggregates data by WHO region, World Bank income group, and sex; it also discusses differences in health status and access to preventive and curative services, particularly in relation to differences between men and women. Where possible, it indicates the roles of sex as a

biological determinant, and of gender as a social construct, in accounting for the observed differences (Table O1).

The analyses presented are not exhaustive; nevertheless, it is hoped that the report will raise awareness of some critical sex and gender differences in health outcomes, highlight the importance of those differences in the attainment of the SDGs, and encourage the roles of sex and gender to be systematically taken into account when collecting data, analysing health situations, formulating policies and designing health programmes.

This overview summarizes the principal findings of the *World health statistics 2019*. The full report can be accessed at https://www.who.int/gho/publications/world\_health\_statistics/2019/en/.

Table O.1
Definitions of sex and gender

Sex	Gender
Sex refers to the biological characteristics that define humans as female or male. These sets of biological characteristics are not mutually exclusive, because there are individuals who are born with physical or biological sex characteristics who do not fit the traditional definitions of female or male (intersex).	Gender refers to the socially constructed norms, roles and relations of and among women, men, boys and girls. Gender also refers to expressions and identities of women, men, boys, girls and gender-diverse people. Gender is inextricable from other social and structural determinants shaping health and equity and can vary across time and place.
Sex differences can be observed at the level of chromosomes, gene expression, hormones, immune system and anatomy (e.g. body size, and sexual and reproductive anatomy).	Gender differences and inequalities influence exposure to risk factors, health-seeking and risk-taking behaviours, access to and use of health information; promotive, preventive, curative, rehabilitative and palliative health services; and experience with health care, including in terms of access to and control over resources and power relations.
Examples of sex-specific conditions:	Examples of gender-related factors resulting in differential health outcomes:  • early pregnancy, including as a result of child marriage, increases girls' risk of adverse health outcomes;  • due to the gender-based division of labour, men and women may be exposed to different risks for work-related injuries or illnesses;  • gender norms related to masculinity promote smoking and alcohol use among men, while gender norms associating smoking with women's freedom and liberation are being targeted to young women by the tobacco industry;  • women's access to health services may be limited by lack of access to and control of household financial resources, caregiving roles, and restrictions on their mobility; whereas men's use of health services may be influenced by masculinity norms in which seeking health care is not seen as manly; and  • in addition to gender norms and roles, intersecting discrimination based on gender identity contributes to transgender people experiencing high rates of stigma and discrimination including in health care settings, and lack appropriate services responding to their needs.



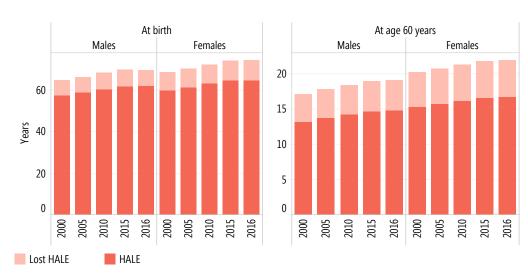
# Women live longer than men, but the additional years are not always healthy

In 2019, more than 141 million children will be born: 73 million boys and 68 million girls. Based on recent mortality risks the boys will live, on average, 69.8 years and the girls 74.2 years – a difference of 4.4 years. Life expectancy at age 60 years is also greater for women than men: 21.9 versus 19.0 years.

Between 2000 and 2016, global life expectancy at birth, for both sexes combined, increased by 5.5 years, from 66.5 to

72.0 years. The number of years lived in full health – that is, healthy life expectancy (HALE) – also increased over that period, from 58.5 years in 2000 to 63.3 years in 2016 (Fig. O.1). HALE is greater in women than men at birth (64.8 versus 62.0 years) and at age 60 years (16.8 versus 14.8 years). However, the number of equivalent years of full health lost through living in poor health from birth is also greater in women than in men (9.5 versus 7.8 years).

Fig. O.1
Global life expectancy and healthy life expectancy, 2000–2016

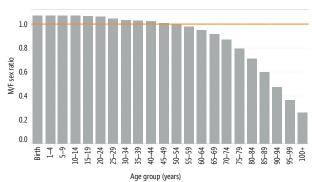


Source: Global health estimates 2016: Life expectancy, 2000—2016. Geneva: World Health Organization; 2018 (https://www.who.int/gha/mortality\_burden\_disease/life\_tables/en/, accessed 21 March 2019).

# The ratio of the number of men alive to the number of women alive changes through the life-course

Globally, the sex ratio at birth has been in the range of 105–110 males to every 100 females; however, mortality rates are higher in males, so the ratio changes as the population ages. Thus, in 2016, there were 100 men for every 100 women in the age group 50–54 years, and 95 men for every 100 women in the age group 60–64 years, with the sex ratio falling sharply thereafter (Fig. O.2). Because the incidence of different diseases varies with age, and women live longer than men, some diseases can be more common in women; for example, the lifetime risk for Alzheimer's disease is greater in women than in men, partly because more women survive to ages at which the disease most commonly occurs, although in some locations women also appear to be more susceptible to Alzheimer's disease (2).

Fig. O.2 Global male to female (M/F) sex ratio by age, 2016



Source: World population prospects 2017 (3).

# Several conditions contribute to differences in life expectancy between men and women

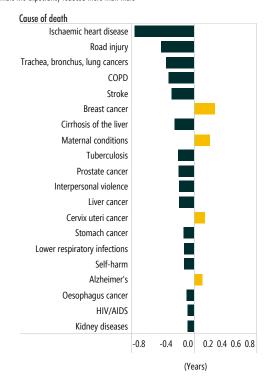
The reduced life expectancy of males compared with that of females is not due to a single or a small number of causes. Of the 40 leading causes of death, 33 contribute more to reduced life expectancy in males than in females (Fig. O.3). The main causes of death that contribute to a lower life expectancy in males than in females are ischaemic heart disease (0.84 years), road injuries (0.47), lung cancers (0.40), chronic obstructive pulmonary disease (0.36), stroke (0.32), cirrhosis of the liver (0.27), tuberculosis (TB) (0.23), prostate cancer (0.22) and interpersonal violence (0.21).

Breast cancer (0.30 years), maternal conditions (0.23) and cervical cancer (0.15) are the causes of death that most reduce female rather than male global life expectancy.

Some of the differences in mortality rates and life expectancy are due to biological sex differences between females and males. For example, X-linked immune regulators may enhance immune responses in female children, resulting in reduced mortality among girls aged under 5 years. Others are linked to gender norms and inequalities; that is, the socially constructed roles, norms, behaviours, activities and attributes that a given society considers appropriate for men, women, boys and girls. For example, child marriage increases the risks related to early pregnancy among girls, whereas higher rates of male employment in the transport industry expose men to higher risks of death on the roads. The exact contributions that sex and gender roles make to health status are often difficult to determine because they do not operate independently (4).

Fig. O.3 Causes of death that most contribute to differences in life expectancy at birth globally for men and women, 2016

■ Male life expectancy reduced more than female
■ Female life expectancy reduced more than male



Source: WHO global health estimates 2016 (1), and see (5) for decomposition of life expectancy.

# Life expectancy and age of death varies greatly by country income group

Life expectancy at birth in low-income countries (62.7 years) is 18.1 years lower than in high-income countries (80.8 years) (Table O.2). In high-income countries, most of the people who die are old; however, in low-income countries almost one in three deaths are of children aged under 5 years (Fig. O.4).

Table O.2 Life expectancy and HALE by sex, WHO region and World Bank income group, 2016

		Life expectancy	HALE	Life expectancy	HALE
		At birth	At 60 yea	rs (years)	
Global	Male	69.8	62.0	19.0	14.8
	Female	74.2	64.8	21.9	16.8
	Both sexes	72.0	63.3	20.5	15.8
WHO.	AFR	61.2	53.8	16.6	12.5
region (both	AMR	76.8	67.5	22.7	17.6
sexes)	SEAR	69.5	60.4	18.2	13.3
	EUR	77.5	68.4	22.3	17.4
	EMR	69.1	59.7	18.2	13.3
	WPR	76.9	68.9	21.0	16.6
World Bank	LI	62.7	54.9	17.1	12.9
income group	LMI	67.9	59.1	18.0	13.2
(both	UMI	75.2	67.0	20.2	15.8
sexes)	HI	80.8	71.2	24.3	19.0

Darker shading represents lower values of life expectancy.

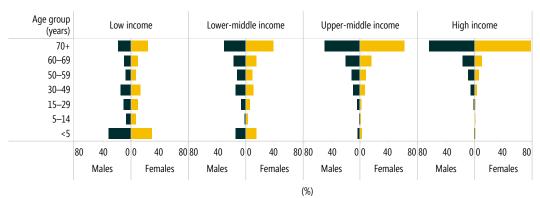
Source: Global health estimates 2016: Life expectancy, 2000—2016. Geneva: World Health Organization; 2018 (https://www.who.int/gho/mortality\_burden\_disease/life\_tables/en/, accessed 21 March 2019). World Bank classification of economies July 2017.

# Differences in life expectancy between men and women are greater in higher income countries

The differences in life expectancy between females and males are smaller in low-income countries than in high-income countries. Communicable diseases, injuries and maternal conditions contribute most to differences in life expectancy between females and males in low-income countries, whereas noncommunicable diseases (NCDs) contribute most to life expectancy differences in high-income countries (Fig. O.5).

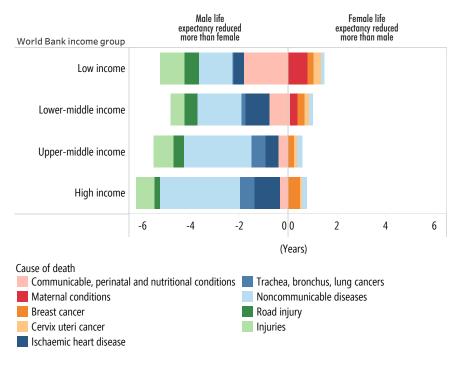
Maternal deaths contribute more than any other cause to differences in life expectancy at birth between men and women. Maternal deaths are concentrated in low-income countries, being related primarily to lack of access to essential health services. The life expectancy of men is lower than that of women due to higher mortality rates from most causes, particularly in higher income countries; in low-income countries, the net effect of maternal conditions, breast and cervical cancer reduces the differences in life expectancy between men and women compared with high-income countries.

Fig. O.4
Proportion of deaths by age and World Bank income group, 2016 (%)



Source: World population prospects 2017 (3). World Bank classification of economies July 2017.

Fig. O.5
Causes of death responsible for differences in life expectancy between men and women and World Bank income group, 2016



Source: WHO global health estimates 2016 (1). World Bank classification of economies July 2017.

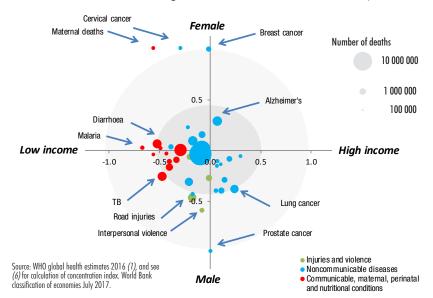
# The responses to differences in health status will vary according to the circumstances of countries

In low-income countries, differences in life expectancy between males and females are due to causes that are frequently preventable, or treatable through access to basic health services. In higher income countries, premature deaths are frequently associated with environmental factors or unhealthy lifestyle (Fig. O.6).

Where there are differences in health outcomes between men, women, boys and girls, responses that aim to influence differences in exposure to risk factors or to increase access to health services may help to both minimize differences in health outcomes and maximize health gains.

Many of the factors that influence exposure to risks and access to health services are beyond the traditional remit of ministries of health. They require a multisectoral approach that addresses the underlying causes of gender and socioeconomic inequalities.

Fig. O.6 Concentration of deaths according to national income of countries and sex, 2016



Points represent the 40 leading causes of death globally, with their areas being proportional to the number of deaths in 2016. Selected causes are labelled; space does not permit labelling of all causes. The concentration index is used to summarize the extent to which deaths from a disease are concentrated in high- or low-income countries, or in males or females. The index ranges from —1 to 1: a value of 0 indicates no association with national income or sex, and a value of —1 or 1 indicates that a disease occurs exclusively in males or females or in low-income or high-income countries (e.g. maternal deaths occur exclusively in women and are concentrated in low-income countries, whereas lung cancer is concentrated in high-income countries and occurs more in males).



## 3.1. Global trends

# Globally, there have been improvements in most of the health-related SDG indicators

Recent years have seen improvements in 24 (56%) of the 43 health-related SDG indicators tracked in *World health statistics 2019*<sup>1</sup> (Table O.3). However, at a global level, progress has stalled or trends are in the wrong direction for five of those 43 indicators: road traffic mortality, children overweight, malaria incidence, alcohol consumption, water

## Table O.3 Trends in health-related SDG indicators

Programme area

- Reproductive, maternal and child health
- Infectious and noncommunicable diseases
- $\hfill \blacksquare$  Injuries, violence and environmental risks
- Health systems and financing

#### SDG indicators with explicit targets for 2030

Progres	s stalled or trend in wrong direction						
3.6.1	Road traffic mortality						
Progres	s made but too slow to meet target						
3.1.1	Maternal mortality						
3.4.1	NCD mortality						
3.4.2	Suicide mortality						
6.1.1	Safe drinking-water coverage						
6.2.1	Safe sanitation coverage						
7.1.2	Clean energy coverage						
Progres	Progress fast enough to attain target						
3.2.1	Under-5 mortality						
3.2.2	Neonatal mortality						

<sup>&</sup>lt;sup>1</sup> Four of the health-related SDG indicators in the official list of SDG indicators (7) have more than one component (Indicators 2.2.2, 3.8.2, 3.b.1, 3.c.1). Where this is the case, each component is treated as a separate indicator in World health statistics 2019. The 43 indicators tracked have 36 unique indicator numbers in the official list of SDG indicators.

#### SDG indicators with no explicit targets for 2030

Progress	stalled or trend in wrong direction
2.2.2	Children overweight
3.3.3	Malaria incidence
3.5.2	Alcohol consumption
6.a.1	Water sector ODA
Progress	made
3.1.2	Skilled birth attendance
3.7.1	Met need for family planning
3.7.2	Adolescent birth rate
2.2.1	Stunting in children
3.b.1	DTP3 coverage
	MCV2 coverage
	PCV3 coverage
3.3.1	New HIV infections
3.3.2	Tuberculosis incidence
3.3.4	Hepatitis B prevalence
3.3.5	Need for NTD interventions
3.a.1	Tobacco use in persons ≥15 years
16.1.1	Homicide
3.9.3	Poisoning mortality
3.b.2	ODA medical research & basic health sectors
1.a.2	Domestic government health expenditure

Trend no	t yet reported
2.2.2	Wasting in children
3.9.1	Air pollution mortality
3.9.2	Unsafe water and sanitation mortality
5.2.1	Intimate partner violence
11.6.2	Fine particulate matter in urban areas
3.8.1	UHC service coverage index
3.c.1	Medical doctor density
	Nurse/midwife density
	Dentist density
	Pharmacist density
3.d.1	International Health Regulations capacity
3.8.2	Household health expenditures >10%
	Household health expenditures >25%
17.9.2	Completeness of cause-of-death data

sector ODA. Trends have not yet been reported in 14 of the 43 indicators (33%). Nine of the health-related SDG indicators have explicit targets for 2030, but only two of those indicators are on track to meet 2030 targets; that is, those for under-5 mortality rate and neonatal mortality rate. Moreover, it is estimated that on current trends 51 countries will miss the target for under-5 mortality, and more than 60 countries will miss the target for neonatal mortality in 2030.

## 3.2. Differences among countries

#### SDG indicators of health status

The disparities in life expectancy among countries are reflected in many of the health-related SDG indicators (Table O.4). Maternal mortality ratios are 29 times higher in low-income countries than in high-income countries. In resource-poor settings, fertility rates are higher and the risks

Table O.4 Latest values of health-related SDG indicators by sex, WHO region and World Bank income group<sup>a</sup>

Company   Comp					el 1			_							_		****
Production of an internal books   Section (Conf. Production of an internal books   Section of an internal books   Section (Conf. Production of an internal books   Section (Conf. Production of an internal books   Section of an internal books					Global				WHO	Region				WB incor	ne group		
Paper   Pape		SDG indicator (by topic greg)	Year	Male	Female	Both sexes	AFR	AMR	SFAR	FUR	FMR	WPR	ш	IMI	UMI	н	
3.12   Proportion of withs, nameded by part and first of model by affel both percent (b)   2015 - 2000	Reproducti												-			•••	
2.71   Carefully functing stankful with northour marchalt (%)   2019   2015 - 2020   2020				-	216		542	52	164	16	166	41	495	253	55	17	< 70
3.7.2 Abdissent thin the fige 1000 enum and 15-19 years)  3.2.1 Diales — Internality state (per 1000 enum and 15-19 years)  3.2.2 November and enum and the state of the state	3.1.2	, ,		-	81	-	59	95	81	99	79	97	60	76	99	99	-
An in the control of the found of the control of the left	3.7.1	Family planning satisfied with modern methods <sup>b</sup> (%)	2019	-	76		56	83	71	77	61	87	-	-	-	-	-
221   Indice Sem controlly rate (per 1000 learning)   2017   21   21   21   22   22   22   23   23	3.7.2	Adolescent birth rate (per 1000 women aged 15-19 years)	2015-2020	-	44	-	99	49	33	17	45	14	97	46	29	12	-
22.1   Provinces of sturring in children under 5 (%)   2018   - 2119   3331   6.5   319   - 247   6.4   342   311   6.3   3.0   - 222   Provinces of sturring in children under 5 (%)   2018   - 273   7.0   0.6   350   - 7.8   22   7.4   114   118   0.6   - 222   Provinces of sturring in children under 5 (%)   2018   - 7.3   7.0   0.6   350   - 7.8   22   7.4   114   118   0.6   - 7.8   122   7.5   122   Provinces of surring in children under 5 (%)   2018   - 7.8   2.2   7.4   114   118   0.6   - 7.8   1.0   1.																	
22.1   Promotions of durating in clidition under \$\cap{C}(\mathbb{N})\$   2018	3.2.1	Under-five mortality rate (per 1000 live births)	2017	41	37	39	74	14	36	,	50	13	69	49	14	5	25
Parellene of washing in children under 5' (%)   2018   7.3   7.0   0.8   15.0   7.8   2.2   7.4   11.6   18.0   6   - 2.2   2.2   Percelane of overwight in children under 5' (%)   2017   8.5   7.2   9.1   8.8   94   81   97   78   2.7   94   75   3.3   1.0   7.3   1.0   7	3.2.2	Neonatal mortality rate (per 1000 live births)	2017	-	-	18	27	8	21	5	27	6	48	49	26	7	12
222   Presidence of conscription functions to collines mode of (%)   2017	2.2.1	Prevalence of stunting in children under 5° (%)	2018	-	-	21.9	33.1	6.5	31.9	-	24.7	6.4	34.2	31.1	6.3	3.0	-
3.1   DPT a immunitation coverage among   year-adds (%)   2017	2.2.2	Prevalence of wasting in children under 5° (%)	2018	-	-	7.3	7.0	0.8	15.0	-	7.8	2.2	7.4	11.6	1.8	0.6	-
3.11 MV2 immunication coverage by the nationally recommended age (%)   2017   47   25   74   77   90   67   94   29   63   88   91   47   87   97   97   97   97   97   97   9	2.2.2	Prevalence of overweight in children under 5° (%)	2018	-	-	6.0	3.5	7.2	3.8	-	5.7	6.0	3.1	3.9	7.4	7.2	-
3.1 New MY infections (per 1000 uninfected population) 2017 0.26 0.24 0.25 1.22 0.16 0.08 0.18 0.06 0.06 0.06 0.06 0.23 0.24 0.07 - 3.3.2 Tuberculosis incidence (per 100 Q00 population) 2017 0.26 0.24 0.25 1.22 0.16 0.08 0.18 0.06 0.06 0.06 0.06 0.23 0.24 0.07 - 3.3.2 Tuberculosis incidence (per 100 Q00 population) 2017 0.26 0.24 0.25 0.21 0.26 0.28 0.28 0.01 1.3 94 0.24 0.23 0.24 0.07 - 3.3.4 Hapatinis B surface antique prevalence among different under 5 years (%) 2017 0.20 0.20 0.24 0.07 0.26 0.21 0.09 0.38 0.23 0.29 0.20 0.06 0.33 Malaria imment of people requiring interventions continued the people requiring intervention of the people requiring interventions continued the people requiring intervention of the people of t	3.b.1	DTP3 immunization coverage among 1-year-olds (%)	2017	-	-	85	72	91	88	94	81	97	78	82	94	95	-
## Indications discusses  3.3.1 New HVI infections (per 1000 uninflected population)  2017	3.b.1	MCV2 immunization coverage by the nationally recommended age (%)	2017	-	-	67	25	74		90	67	94	29	63	88		-
3.3.1 Herselfful findings (see (100 000 population) 2017 168 99 133 27 28 228 30 113 94 244 223 58 11	3.b.1	PCV3 immunization coverage among 1-year olds (%)	2017	-	-	44	68	82	12	70	52	16	68	32	33	85	-
3.3.2   Tubercolosis incidence (par 100 000 population)																	
3.3.3 Molaris incidence (per 1000 population at risk)  3.4 Hisportific 8 surface antique preventive among children under 5 years (which 15 surface antique preventive among children under 5 years (which 15 surface antique preventive among children under 5 years (which 15 surface antique preventive among children under 5 years (which 15 surface antique preventive among children under 5 years (which 15 surface antique preventive among and contract of the first of the firs																	-
3.3.4 Hapatitis B surface entiges previolence among children under 5 years (%) 3.3.5 Reported number of people requiring interventions against NIDs (milliones) 2017 2017 2017 2017 2017 2017 2018 2018 2018 2018 2018 2018 2018 2018		,															-
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Darker shading represents high values for mortality, incidence, prevalence, risk factor and catastrophic out-of-pocket health spending indicators; and lower values for coverage, ODA, health workforce and health expenditure indicators

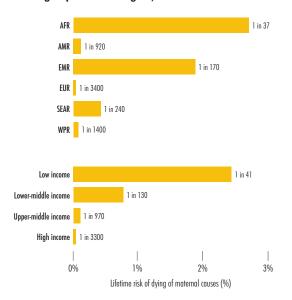
- Excludes SDG 5.2.1 and density of dentists and pharmacists in SDG 3.c.1 which have low coverage or are not available across most regions.
- Women of reproductive age. High income figure has low coverage, interpret with caution.

- лус-эиопилиси. Amount that is part of a government-coordinated spending plan, refers to water sector only. Population with household expenditures on health greater than 10 or 25% of total household expenditure or income. Recipient countries.

Source: World Health Statistics 2019 (forthcoming).

of dying in labour greater, so the lifetime risk of maternal death is greatly amplified; in low-income countries, one woman out of 41 dies from maternal causes (Fig. O.7).

Fig. O.7 Lifetime risk of dying from maternal causes by World Bank income group and WHO region, 2015



The lifetime risk of dying from maternal causes is the probability of a 15-year-old girl eventually dying from a maternal cause, assuming that she is subjected throughout her lifetime to the fertility and maternal mortality risks, as estimated for 2015.

Source: Trends in maternal mortality: 1990 to 2015 (8).

In low-income countries, about a third of children are stunted (i.e. short for their age), reflecting long-term nutritional deprivation, and one child out of 14 will die before their fifth birthday. Adolescent birth rates are eight times higher in lowincome countries than in high-income countries. The burden of infectious diseases, including HIV, TB, malaria, hepatitis B and neglected tropical diseases (NTDs) is higher in lowincome countries than in high-income countries. Mortality rates attributed to unsafe water, unsafe sanitation and lack of hygiene are also highest in low-income countries, as are mortality rates for road traffic injuries and unintentional poisoning. Although NCDs are often associated with a more prosperous lifestyle, the probability of dying prematurely from cardiovascular disease (CVD), cancer, diabetes and chronic respiratory disease is highest in low- and lower-middleincome countries.

There are some exceptions to poor health being primarily associated with low-income countries. Highest wasting rates are observed in the WHO South-East Asia Region (15.0%) and Eastern Mediterranean Region (7.8%). Mortality rates from homicide are highest in the WHO Region of the Americas. Suicide mortality rates are highest in the WHO European Region, and lowest in the Eastern Mediterranean Region.

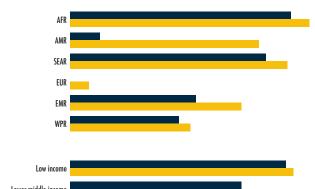
# SDG indicators of health service coverage and financing

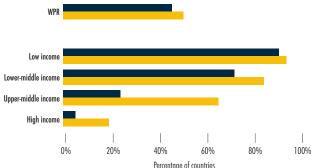
Populations in low-income countries generally have less access to essential health services; values of the universal health coverage (UHC) service coverage index are lower, as are indicators such as skilled birth attendance, women who have their need for family planning satisfied with modern methods of contraception, and immunization coverage. Low-income countries also experience greater shortages of health care professionals (Fig. O.8), and domestic government health expenditure as a proportion of total general government expenditures is lower (despite lower absolute levels of general government expenditure and greater health needs). The proportion of the population that suffer catastrophic health expenditures (>10% or >25% of total household expenditures or income) is higher in middleincome countries than in low- or high-income countries. However, at all income levels people can suffer catastrophic health expenditures, even in high-income countries and in countries where most of the out-of-pocket health spending is due to medicines.

Fig. O.8 Percentage of countries with insufficient health care professionals, 2013–2018

Fewer than 40 nursing and midwifery personnel per 10 000 population

■ Fewer than 10 medical doctors per 10 000 population





Source: WHO Global Health Workforce Statistics [online database], Global Health Observatory (GHO) data. Geneva: World Health Organization (https://who.int/hrlystatisticy/hwfstats/en/, accessed 15 March 2019).

### SDG indicators of exposure to risk factors

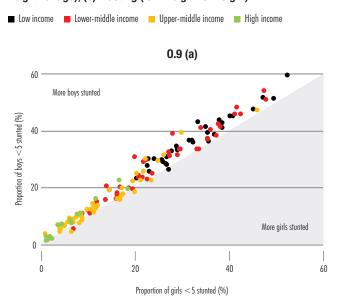
Populations in lower income countries are less likely to use safely managed drinking-water, and clean fuels and technology; also, they have greater exposure to fine particulate matter in cities. In contrast, tobacco use and alcohol consumption are highest in high-income countries.

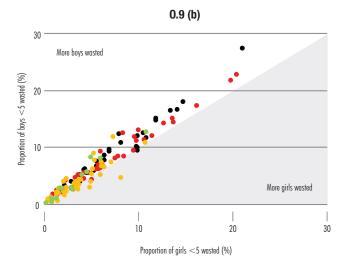
# 3.3. Differences between females and males

#### SDG indicators of health status

Differences between females and males are seen in most of the health-related SDG indicators for which sex disaggregation has been possible. In 2017, male children were 11% more likely to die than female children before the age of 5 years, compared with only 6% in 2000, indicating that the decline in under-5 mortality rate since 2000 has been faster in females than in males. Given that boys generally have a higher under-5 mortality rate than girls for biological reasons, the similarity of the under-5 mortality rate between boys and girls in the WHO South-East Asia Region is indicative of high rates of avoidable mortality among female children. Although global estimates are not available, household surveys indicate

Fig. O.9
Malnutrition rates in female and male children: (a) stunting (low height for age), (b) wasting (low weight for height)





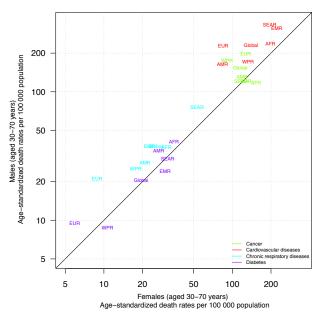
Each point represents latest survey values available for a county 2000–2017.

Source: Levels and trends in child malnutrition. UNICEF/WHO/World Bank Joint Child Malnutrition Estimates 2019 Edition, available at https://www.who.int/nutgrowthdb/estimates. World Bank classification of economies July 2018.

that rates of stunting and wasting are generally higher in boys than in girls (Fig. O.9). Similarly, the proportion of boys overweight is higher than the proportion of girls.

Globally in 2017, the incidence rate of new HIV infections was 1.09 times higher in men than in women. In sub-Saharan Africa, the incidence was 1.27 times higher in women than in men; however, in other parts of the world, the incidence was 1.7 times higher in men than women. The incidence rate of TB was 1.7 higher in men than in women globally in 2017. In 2016, the probability of a man aged 30 years dying from an NCD before 70 years of age was 1.44 times higher than for a woman aged 30 years (Fig. O.10). Globally in 2016, suicide mortality rates were 1.75 times higher in men than in women.

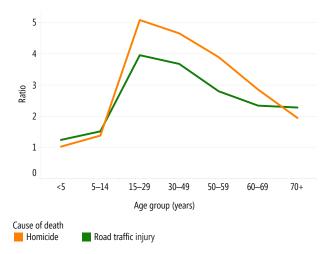
Fig. O.10 Age-standardized rates of premature death from the four major NCDs covered by SDG Target 3.4, 2016



Source: WHO global health estimates 2016 (1).

Deaths rates from road injury are more than twice as high in men as in women from age 15 years (Fig. O.11), and mortality rates due to homicide are four times higher in men than in women. One in five of all homicides is committed by an intimate partner or family member, with women making up most of the victims (9). Beyond mortality, violence against women, rooted in unequal power and status of women and girls, is not only widespread, but carries a high burden of morbidity and ill health. Worldwide, in 2013, it was estimated that 35% of women and girls aged 15-49 years reported physical or sexual intimate partner violence or non-partner sexual violence in their lifetime. Women and girls may also experience harmful practices, such as female genital mutilation (FGM) and early and forced marriage. As of 2017, at least 200 million girls and women had undergone FGM in the 30 countries where the practice is concentrated (10).

Fig. O.11 Ratio of global M/F crude death rates by age and cause, 2016



Source: WHO global health estimates 2016 (1). Death rates for road traffic injury from this source may differ from figures presented elsewhere in this report, but are used in this graph for comparison with other causes of injury.

Globally, 21% of women aged between 20 and 24 years reported that they were married or in an informal union before age 18 years (11). Also, in 2015–2020, it is estimated that more than one in 25 adolescent girls aged 15–19 years will give birth (3).

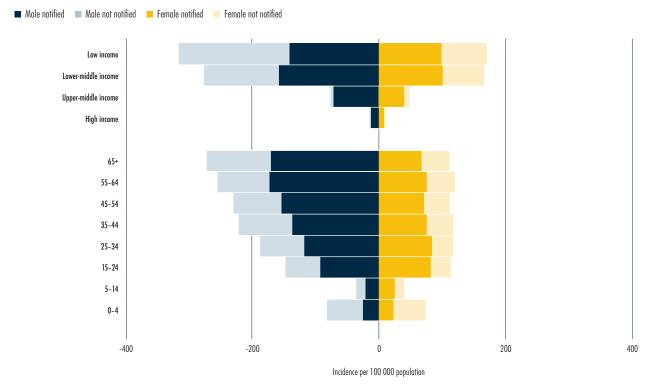
Mortality rates attributed to household and ambient air pollution and unintentional poisoning are 1.27 times higher in men than in women. In contrast, the global mortality rate

attributed to unsafe water, unsafe sanitation and lack of hygiene is 1.06 higher in women than in men, although there is much regional variation.

### SDG indicators of health service coverage

Access to many services for prevention or treatment of infectious diseases and NCDs is not part of the SDG monitoring framework, except as part of the UHC service coverage index, which cannot be sex-disaggregated using currently available data and methodologies. Nevertheless, some relevant observations have been made through other global health reports. Household surveys suggest that vaccination rates are similar in boys and girls. The risk of not using a condom during sex with a non-regular partner appears to be higher in women than in men. However, in countries with generalized HIV epidemics, men are less likely than women to take an HIV test and less likely to access antiretroviral therapy; also, men are more likely than women to die of an AIDS-related illness (12). Similarly, male TB patients appear to be less likely to seek care than female TB patients (13–16), as reflected in lower rates of case notification compared with the estimated total of cases (Fig. O.12). Death rates for some NCDs may also be influenced by access to diagnosis and treatment; for example, cervical cancer mortality rates are higher in low-income countries that have poorer access to health services.

Fig. O.12 Estimated incidence of TB in comparison to case notification by World Bank income group, age and sex, 2017

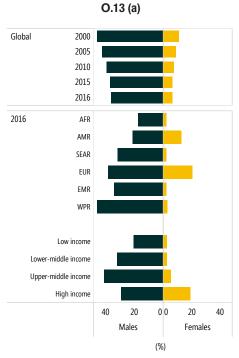


Source: Global tuberculosis report 2018 (16). World Bank classification of economies July 2018

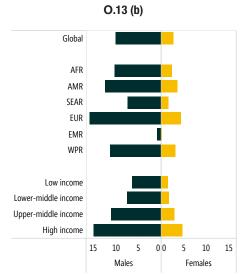
#### **SDG** indicators of exposure to risk factors

Age-standardized prevalence of tobacco smoking was five times higher in men than in women in 2016, with the largest M/F ratio observed in the WHO Eastern Mediterranean Region (Fig. 0.13). Globally, per capita alcohol consumption was almost 4 times higher in men than in women in 2016.

Fig. O.13
Among persons aged 15 years and older: (a) age-standardized prevalence of tobacco smoking, 2016, (b) alcohol consumption per capita, 2016



Source: World Bank classification of economies July 2017. WHO global report on trends in prevalence of tobacco smoking, 2nd edition. Geneva: World Health Organization; 2018 (https://www.who.int/tobacco/publications/surveillance/trends-tobacco-smoking-second-edition/en/, accessed 15 March 2019).



per capita consumption (litres of pure alcohol)

Source: World Bank classification of economies July 2017. WHO Global Information System on Alcohol and Health (GISAH) [online database], Global Health Observatory (GHO) data. Geneva: World Health Organization (https://www.who.int/gho/alcohol/en/, accessed 15 March 2019).



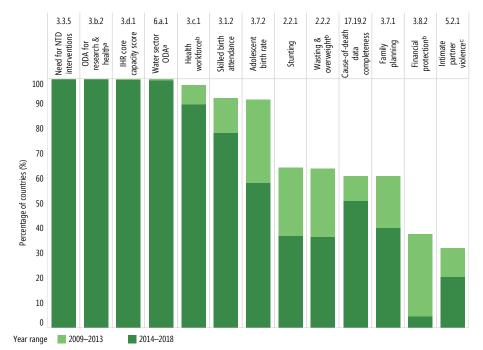
Monitoring of the health-related SDGs is based on statistics of two types:

- primary data data compiled by international agencies from routine reporting by countries or publicly available sources such as demographic and health surveys; statistics are presented as they are reported or with modest adjustment; and
- comparable estimates country data are adjusted or modelled to allow comparisons among countries or over time.

For 18 SDG indicators that are reported as primary data, the proportion of countries with available primary data within the past 10 years ranged from 32% for intimate partner violence, to 100% for four indicators (Fig. O.14). The proportion of countries with available primary data within the past 5 years ranged from 5% to 100%.

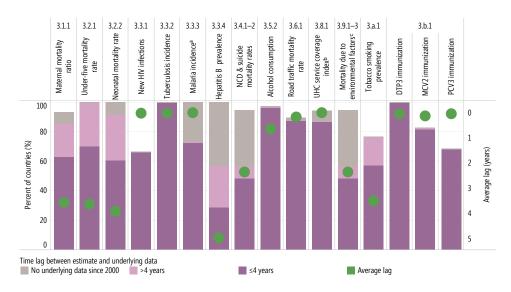
For 25 SDG indicators that are reported as comparable estimates, the availability of underlying data also varies across indicators (Fig. O.15). Indicators that were adopted for global monitoring before the SDG era – for example,

Fig. O.14
The availability of underlying data for SDG indicators reported as primary data



- a) Denominator for 3.b.2 and 6.a.1 reflects the list of official development assistance (0DA) recipients 2014–2017 maintained by the Development Assistance Committee of the Organisation for Economic Co-operation and Development.
- b) Indicator 3.8.2 considers two thresholds (10% and 25% of total household expenditure); availability is the same for both. Indicator 3.c.1, health workforce, includes four components (density of medical doctors, nursing and midwifery personnel, dentists and pharmacists); availability is shown for density of nursing and midwifery personnel. Indicator 2.2.2 includes two components (proportion of children wasted and proportion of children overweight); availability is shown for children wasted.
- c) Includes surveys for women aged 15-49 only.

Fig. O.15
The availability of underlying data for SDG 3 indicators reported as comparable estimates



- a) Denominator for Indicator 3.3.3 is the number of endemic countries in 2000 (107).
- b) Grey bar indicates "low" data availability and purple bar indicates "medium" and "high" data availability (17).
- c) Mortality attributed to household and ambient air pollution, unsafe WASH services and unintentional poisoning.

under-5 mortality rate, TB and HIV incidence, and vaccination coverage – tend to have relatively high availability of underlying data, even though such data may not be recent for all countries. In contrast, availability of underlying data is lower for new global indicators such as cause-specific mortality rates, and proportion of population using safely managed drinking-water and safely managed sanitation services. The average lag between the year of the estimate and the latest available year of underlying data ranged from 0 years for HIV, TB, malaria incidence and immunizations, to 5 years for hepatitis B prevalence.

Of the 43 health and health-related SDG indicators reported in *World health statistics 2019*, sex disaggregation would potentially be informative for 28 indicators (Table O.5). Sex disaggregation is not possible for the ten indicators for which data are collected at household or national level, or for five indicators that have female-specific numerators or denominators. For the 28 SDG indicators for which sex-disaggregated indicators could be informative, sex-disaggregated global and regional values are currently available for only 11 indicators (though sex-disaggregated values may be available at country level).

Table O.5

Availability of sex-disaggregated values of SDG indicators at global or regional levels

Programme area: Reproductive, maternal and child health Infectious and noncommunicable diseases Injuries, violence and environmental risks Health systems and financing

Sex disaggregated values reported						
3.2.1	Under-5 mortality					
3.3.1	New HIV infections					
3.3.2	Tuberculosis incidence					
3.4.1	NCD mortality					
3.a.1	Tobacco use in persons ≥15 years					
3.5.2	Alcohol consumption					
3.4.2	Suicide mortality					
16.1.1	Homicide					
3.9.3	Poisoning mortality					
3.9.1	Air pollution mortality					
3.9.2	Unsafe water and sanitation mortality					

Sex disa	ggregated values not currently reported
3.2.2	Neonatal mortality
2.2.1	Stunting in children
2.2.2	Wasting in children
2.2.2	Overweight children
3.b.1	DTP3 immunization coverage
	MCV2 immunization coverage
	PCV3 immunization coverage
3.3.3	Malaria incidence
3.3.4	Hepatitis B prevalence
3.3.5	Need for NTD interventions
3.6.1	Road traffic mortality
3.8.1	UHC service coverage index
3.c.1	Medical doctor density
	Nurse/midwife density
	Dentist density
	Pharmacist density
17.9.2	Cause-of-death data completeness

Data co	llected at household or higher level
6.1.1	Safe drinking-water coverage
6.2.1	Safe sanitation coverage
6.a.1	Water sector ODA
7.1.2	Clean energy coverage
11.6.2	Fine particulate matter in urban areas
3.8.2	Household health expenditure >10%
	Household health expenditure >25%
1.a.2	Domestic government health expenditure
3.b.2	ODA medical research & basic health sectors
3.d.1	International Health Regulations capacity
Female	specific
3.7.1	Met need for family planning
3.7.2	Adolescent birth rate
3.1.1	Maternal mortality
3.1.2	Skilled attendance at birth

Intimate partner violence

5.1.2



World health statistics 2019 reports on the latest values of 43 health-related SDG indicators. The key findings are summarized below.

#### What has improved

- Global life expectancy increased by 5.5 years to 72.0 years between 2000 and 2016, and healthy life expectancy increased by 4.8 years to 63.3 years.
- Of 29 health-related SDG indicators for which global trends are reported, 24 have shown improvements in recent years. More births are attended by skilled health personnel, and women are less likely to die in childbirth. Global targets to reduce neonatal deaths and deaths in children aged under 5 years are on track, and childhood stunting is in decline. Nonetheless, it is estimated that 303 000 maternal deaths occurred globally in 2015 and that 5.4 million children aged under 5 years died in 2017.
- Vaccination coverage rates have increased while incidence rates for several infectious diseases, prevalence of tobacco smoking, exposure to environmental risks and premature NCD mortality have decreased at global level.

#### What has not improved

 Progress has stalled or trends are in the wrong direction for five of the 29 health-related SDG indicators for which trends are reported: the proportion of children aged under 5 years who are overweight, malaria incidence, harmful use of alcohol, deaths from road traffic injuries, and water-sector official development assistance.

#### Disparities in health outcomes

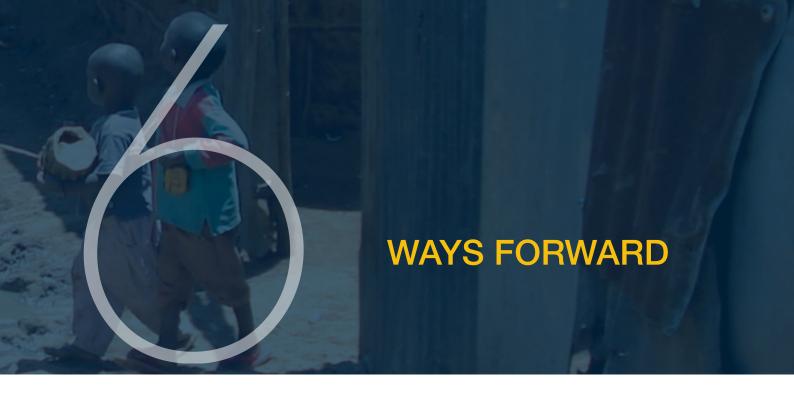
- Life expectancy at birth in low-income countries is 18.1 years lower than in high-income countries. Much of this difference is attributable to preventable and treatable conditions.
- In low-income countries, one in 41 women die from maternal causes. Such deaths rarely occur in uppermiddle and high-income countries. Maternal deaths

- contribute more to differences in life expectancy in low-income countries between men and women than any other single cause.
- In low-income countries, more than a third of children are stunted (short for their age), reflecting long- term nutritional deprivation, and one child out of every 14 born will die before their fifth birthday.
- In 2016, life expectancy in men was 4.4 years lower than for women, with higher death rates for multiple causes, especially cardiovascular diseases, road injuries, lung cancer, chronic obstructive pulmonary disease and stroke. Men are generally exposed to increased occupational risks, and have higher prevalence of tobacco use and higher per capita consumption of alcohol. In many settings, men use health services less than women, even after taking into account reproductive-related consultations. The health gap between men and women is widest in high-income countries.

#### **Data availability**

The World health statistics 2019 report reviews, for the first time, the availability of country data for global SDG reporting. This review suggests that major improvements are needed to country data systems:

- one in seven indicator country values included in the report have had no underlying data since 2000; lowand lower-middle-income countries in particular lack underlying data;
- for around one third of countries, over half of the indicators have no recent underlying data;
- 11 health-related SDG indicators require cause-of-death data, yet only around half of countries are able to register more than 80% of adult deaths, and less than one third of countries have high-quality data on cause of death;
- sex disaggregation is currently available for less than half (11/28) of relevant health-related SDG indicators at global level where it would be of interest.



Some key actions are suggested based on the findings of this report; these actions are outlined below.

#### 1. Achieve universal health coverage

For many conditions, particularly in low-income countries, premature deaths can be averted by improving access to and use of preventive and curative health services. This may require a strengthened health workforce and increased provision of health facilities, equipment, medicines and vaccines. It will also require removing barriers to accessing services including economic barriers (as a consequence of out-of-pocket expenditures and insufficient public financing) and cultural barriers (where the workforce providing services does not have the necessary cultural sensitivity). Efforts in support of UHC must focus on reaching those whom services are not reaching, such as marginalized, stigmatized and geographically isolated people of all ages and genders. In some countries, health and social systems are strained by natural disasters or conflict, and the populations affected can account for a large proportion of unmet SDG need. Stronger and more resilient national health systems need to be backed by the regional and global alert and response mechanisms that will mitigate the impact of health emergencies.

#### 2. Promote healthier populations

The health of populations can also be improved by reducing exposure to risk factors such as unsafe water and sanitation, air pollution, violence, unsafe roads, tobacco use and alcohol consumption. The health sector has a key role to play in raising awareness and catalyzing the development of multisectoral policies and programmes to reduce exposure to these risk factors.

# 3. Make health systems responsive to sex and gender

Health planning needs to allow for the different needs of men and women, including exposure to risk factors, barriers to access and health outcomes. In many circumstances, men experience poorer health outcomes than women do. Although some of these poorer health outcomes may have a biological basis, they may be amplified by gender roles. Gender analysis and health policies should consider women, men and gender-diverse population groups, to ensure equitable health outcomes. It is also necessary to formulate gender-responsive human-resource policies and regulations, ensure equal pay for work of equal value, and address barriers faced by women in progressing to leadership roles.

# 4. Invest in data systems for health, including disaggregated data

Progress in achieving the SDG goals is inhibited by incomplete or outdated information on several health-related indicators. The countries lacking underlying data are often those with limited resources and the greatest health need. Collecting, analysing and utilizing data of good quality is an important step to progressing health care, allowing better allocation of resources and timely interventions, and reducing costs while also improving the health care received. By ensuring that data can be disaggregated by sex, place of residence and other dimensions, there is potential to act to reduce inequality. Routine information systems, health facility or household surveys, and civil registration and vital statistics systems must be designed to provide relevant, timely and accurate data.

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