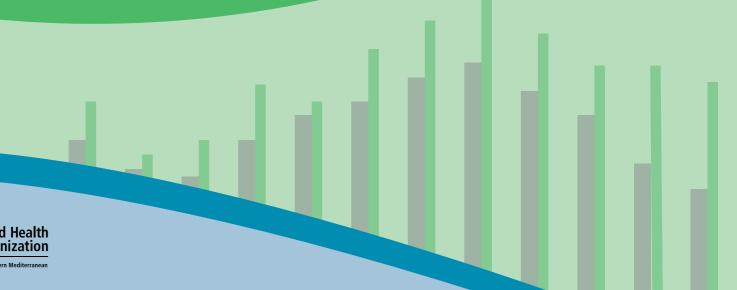
# **Eastern Mediterranean Region**

Framework for health information systems and core indicators for monitoring health situation and health system performance 2014





### **Foreword**

Reliable and timely health information is essential for policy development, proper health management, evidence-based decision-making, rational resource allocation and monitoring and evaluation. While the demand for health information is increasing in terms of quantity, quality and levels of disaggregation, the response to these needs has been hampered because of fragmentation and major gaps in national health information systems.

Strengthening health information systems has been a top priority of WHO in this region since 2012. Intensive work with Member States over the past two years has resulted in a clear framework for health information system that focuses on three key components: 1) monitoring health determinants and risks; 2) assessing health status including morbidity and cause specific mortality; and 3) assessing health system performance.

Work has included an in-depth review of national health information systems through expert consultations, intercountry meetings and comprehensive assessment of civil registration and vital statistics conducted in most countries of the Region. This effort led to the development and finalization of a list of core indicators, under each of the three key components.

In order to facilitate standardized data collection, analysis and reporting of the core indicators, a detailed indicator metadata registry was also developed, based on the WHO global metadata registry, to reflect the regional context. The registry includes a description of the following attributes for each indicator: purpose, definition and related terms, main data sources, measurement and estimation methods, data type, expected frequency of data collection and reporting, level of disaggregation and stratification, and any limitations in data collection, measurement and reporting.

The old set of indicators has been replaced with the new list, using available data drawn from multiple sources, including figures provided by Member States, World Health Statistics 2014, Global Health Observatory, and estimates developed by United Nations agencies including WHO. Every effort has been made to incorporate the most comprehensive, recent and reliable data, and to validate these data with countries within a very short time-frame.

Our systematic review over the past two years revealed major gaps in obtaining reliable data for several core indicators. The gaps highlight the need for concerted efforts to build the capacity of Member States in generating, analysing and disseminating data for these key indicators. This will be the focus of our work with the Member States over the coming two years.

#### Dr Ala Alwan

Regional Director for the Eastern Mediterranean

### Framework for health information systems and core indicators

#### Health determinants and risks

### Demographic and socioeconomic determinants

Population size

Population growth

Total fertility

Adolescent fertility (15-19 years)

Net primary school enrolment ratio

Proportion of population below the international poverty line

Adult literacy rate (15-24 years)

Access to improved drinking water

Access to improved sanitation facilities

#### Risk factors

Low birth weight

Exclusive breastfeeding for 6 months

Children under 5 who are stunted

Children under 5 who are wasted

Children under 5 who are overweight

Children under 5 who are obese

Overweight (13-18 years)

Obesity (13-18 years)

Overweight (18+ years)

Obesity (18+ years)

Tobacco use (13-15 years)

Tobacco use (15 + years)

Insufficient physical activity (13-18 years)

Insufficient physical activity (18+ years)

Raised blood glucose (18 + years)

Raised blood pressure (18 + years)

Anaemia among women of reproductive age

#### Health status

#### Life expectancy and mortality

Life expectancy at birth

Neonatal mortality Infant mortality

Under-5 mortality

Maternal mortality ratio

Mortality rate by main cause of death (agestandardized )

Mortality between ages 30 and 70 from cardiovascular diseases, cancer, diabetes, or chronic respiratory diseases

Mortality rate due to road traffic injuries

#### Morbidity

Cancer incidence by type
Tuberculosis case notification
Estimated number of new HIV infections
Number of newly reported HIV cases
Incidence of confirmed malaria cases
Incidence of mensles cases

#### Health system response

#### Health financing

Per capita total health expenditure

Out-of-pocket expenditure as % of total health expenditure

General government expenditure on health as % of general government expenditure

Population with catastrophic health expenditure
Population impoverished due to out-of-pocket health
expenditure

#### Health workforce

Density of health workers: a-physicians, b-nurses, c-midwives, d-pharmacists, e-dentists

Density of recent graduates of registered health profession educational institutions

#### Health information system

Birth registration coverage
Death registration coverage

#### Medicines and medical devices

Availability of selected essential medicines in health facilities

Density per million population of 6 selected medical devices in public and private health facilities

#### Service delivery

Density of primary health care facilities
Density of inpatient beds (hospitals)
Surgical wound infection rate
Annual number of outpatient department visits,
per capita

#### Service coverage

Need for contraception satisfied

Antenatal care coverage (1+;4+)

Skilled birth attendance

Children under 5 with diarrhoea receiving oral rehydration therapy

DPT3/pentavalent vaccination coverage among children under 1 year of age

Measles immunization coverage (MCV1)

Service coverage for severe mental disorders

Treatment success rate of new bacteriologically confirmed tuberculosis cases

Percentage of suspected malaria cases that have had a diagnostic test

Percentage of individuals who slept under an ITN the previous night

Adults and children currently receiving ARV therapy among all adults and children living with HIV

Percentage of key populations at higher risk (who inject drugs, sex workers, men who have sex with men) who have received an HIV test in the past 12 months and know their results

### Demographic and socioeconomic determinants indicators

Country	Populatio	on 2013	Populatio	on growth	Lite expect	ancy af bir 2012	th (years),			eracy rate I years)		Net prii	nary schoo	ol enrolme	ent ratio	Population the inter	national	lotal tertility (per woman), 2012	(15-19)	nt tertility /ears) per ) girls
	Total (000s)	Urban %	R	Y	ī	M	F	T %	M %	F %	Y	T %	M %	F %	Υ	%	Υ	R	R	Y
Afghanistan	28 100	24	2.0	2012	60.0	58.0	61.0	31	45	17	2012	57	64	48	2012			5.1	90.0	2012
Bahrain	1 200ª	100	5.8	2010	77.0	76.0	78.0	94	97	90	2010	100	100	100	2010			2.1	14.9	2012
Djibouti	860	84 <sup>d</sup>	1.5	2012	61.0	60.0	63.0											3.5 <sup>f</sup>		
Egypt	84 628	43 <sup>a</sup>	2.5	2013	71.0	69.0	74.0	70	78	65	2011							2.8	50.0	2012
Iran, Islamic Republic of	76 942	72	1.2	2013	74.0	72.0	76.0	83	87	79	2011	99	99	99	2013			1.9	15.1	2013
Iraq	35 095	69	3.2	2013	70.0	66.0	74.0	21	78 <sup>b</sup>		2012	92	94	84	2013	17.8	2013	4.1	72.0	2013
Jordan	6 530	83	2.2	2013	74.0	72.0	75.0	93	96	90	2013	98	97	99	2013			3.3	26.0	2012
Kuwait	3 806ª	100	14.1	2012	78.0	78.0	79.0	95	96 <sup>c</sup>	94 <sup>c</sup>	2012	100	97	100	2012			2.6	13.0	2012
Lebanon	4 168	85 <sup>b</sup>	1.6	2013	80.0	78.0	82.0	99	99	99	2009							1.5		
Libya	6 028	86	2.8	2009	75.0	73.0	77.0	90	94 <sup>d</sup>	83 <sup>d</sup>	2011							2.4		
Morocco	32 950	59	1.0	2013	71.0	69.0	73.0	67	69 <sup>d</sup>	44 <sup>d</sup>	2011	97	90	85	2012			2.6	32.0	2011
Oman	3 855	75 <sup>c</sup>	3.1	2013	76.0	74.0	78.0	88	92	83	2010	98	98	97	2011			2.9	13.9	2013
Pakistan	184 350	38	2.0	2013	65.0	64.0	66.0	58	70	47	2013	64	68	60	2013			3.8	16.0	2012
occupied Palestinian territory	4 485	73	2.9	2013	72.9	71.5	74.4 <sup>f</sup>	96	98	94	2012	99	99	100	2012			4.4		
Qatar	2 003	100	5.8	2012	79.0	79.0	80.0	98	97 <sup>b</sup>	96 <sup>b</sup>	2013	100	95	95	2012			2.0	12.4	2013
Saudi Arabia	29 994	83 <sup>a</sup>	2.7	2013	76.0	74.0	78.0	99	91 <sup>c</sup>	83 <sup>c</sup>	2012	97	97	97	2012			2.7		
Somalia	10 195	37 <sup>d</sup>	2.9	2012	53.0	51.0	55.0											6.7		
Sudan	36 163	30 <sup>a</sup>	2.5	2008	63.0	61.0	65.0	50	58c	42 <sup>c</sup>	2011	62	65	59	2011			4.5		
Syrian Arab Republic	21 639 <sup>a</sup>	54 <sup>a</sup>	2.5	2010	68.0	62.0	76.0	86	91	80	2009	95	94	96	2009			3.0	54.0	2009
Tunisia	10 778 <sup>a</sup>	66 <sup>a</sup>	1.3	2012	76.0	74.0	78.0	97	98	96	2011	99	99	99	2012	15.5	2010	2.0	3.0	2012
United Arab Emirates	9 206ª		3.1	2012	76.0	76.0	78.0	94	92 <sup>c</sup>	93 <sup>c</sup>	2009							1.8	34.0	2012
Yemen	25 235	29	3.0	2013	64.0	62.0	65.0	34	41	26	2006							4.4	67.0	2013

### Health determinants and risks

Country				Nutritional													
	Low birth weight	Exclusive breastfeeding for 6 months	Raised blood glucose (18+ years)	Raised blood pressure (18+ years)		(	Children ur	nder 5 who ar			You (13-18		Adu (18+			Anaemia among women of reproductive age	
						stunted	wasted	overweight	obese		Overweight	Obesity	Overweight	Obesity		(15-49 years)	
	%	%	%	%	Υ	%	%	%	%	Υ	%	%	%	%	Υ	%	Υ
Afghanistan	6.0 <sup>c</sup>	30.6			2013	40.9	9.5	5.4	2.0	2013						40.4	2013
Bahrain	2.0	12.5			2012	2.4	14.0	2.3	0.8	2012							
Djibouti						33.5	21.5	8.1		2012							
Egypt	6.0	53.2 <sup>e</sup>	17.2	39.7	2011	31.0	7.9	21.5		2011	32.5 <sup>b</sup>	7.0 <sup>b</sup>	62.2	31.3	2012	50.0	2012
Iran, Islamic Republic of	7.7	23.0		16.1 <sup>d</sup>	2010	6.8	4.0	4.9	1.9	2010			28.8	15.2	2012		
Iraq	13.0	20.0			2011	22.6	7.4	11.8		2011	25.3	7.9			2012	33.5	2012
Jordan	7.0 <sup>a</sup>				2013	7.7	2.4	4.4		2012						19.0	2012
Kuwait	7.8 <sup>a</sup>	38.3			2013	4.8	2.7	5.7	2.1	2013	51.4	22.7			2011		
Lebanon	7.7	15.0°	11.4 <sup>d</sup>	28.4 <sup>d</sup>	2013	16.5	6.6	16.7	3.3	2011	24.1	6.7	65.4 <sup>d</sup>	27.4 <sup>d</sup>	2011		
Libya	4.0		16.4	40.6	2009								63.5	30.5	2009		
Morocco	8.1	31.0			2011	14.9	2.3	9.9	2.6	2011	14.1	2.5			2010		
Oman	10.2		12.3 <sup>e</sup>	40.3 <sup>e</sup>	2013	9.8	7.1	2	0.4	2009			29.5	24.1	2008	26.7	2012
Pakistan	25.0				2013	43	14.8	6.4		2012	6.5	1.0			2009	26.0	2011
occupied Palestinian territory	9.4	27.0	8.5 <sup>b</sup>	35.8 <sup>b</sup>	2013	10.3	4.4	20.0	1.9	2013	22.2 <sup>c</sup>	6.1 <sup>c</sup>	56.8	26.8	2011	27.0	2013
Qatar	5.3		16.7 <sup>a</sup>	32.9 <sup>a</sup>	2013		10.1	12.9	14.0	2010			70.1ª	41.4 <sup>a</sup>	2013	24.7	2010
Saudi Arabia	9.1				2013	10.1		26.3	11.0	2010						29.2	2010
Somalia	5.0				2008	42.1	13.2	4.7		2009						50.0	2009
Sudan	31.0	41.0 <sup>c</sup>			2011	35.0	16.4	3.0		2010	11.4	3.6			2012	23.0	2010
Syrian Arab Republic	10.3				2009	27.5	11.5	17.9		2011	21.7	5.8			2010		
Tunisia	6.9				2012	10.1	2.8	14.3		2012							
United Arab Emirates	3.2				2010	15.5		7.7	7.7	2008	38.4	14.4			2010		
Yemen	32.0 <sup>c</sup>	12.0			2013	47.0	16.0	8.8		2013	11.8	4.4			2008		

### Health determinants and risks

Insufficient physical activity (13 - 19 years)   Insufficient physical activity (13 - 19 years)   Insufficient physical activity (13 - 19 years)   Insufficient physical activity (13 - 19 years), (13 - 15 year	Country				Behavi	oural			Environmental, 2012			
Magnetistan					(1		11	(		1		
Bolitain              25,0         35,0         8.0         100         99           Dijbourii           19,0d         22,7d         14,3d           92         61           Egypt         83,5b         32,1         2012         5,1         7,2         2,8         26,0         46,0         <1         99         96           Iron, Islamic Republic of          39,0         2009           14,0         26,0         <1         96         89           Iroq         80,0          2012         13,4°         11,6°         18,0         31,0         40         85         85           Jordon           2011         17,0         25,0         8.5         19,0         35,0         40         99         100           Lebrorion         65,4         45,8d         2011         36,2         41,9         31,4         32,0           100            Librorion         65,4         45,8d         2011         36,2         41,9         31,4         3		%	%	Υ			·	T %			%	%
Djiboufi         190 <sup>d</sup>   22,7 <sup>d</sup>   14.3 <sup>d</sup>         92   61	Afghanistan				9.8 <sup>c</sup>	13.1 <sup>c</sup>	3.2 <sup>c</sup>				64	29
Egypt         83.5b         32.1         2012         5.1         7.2         2.8         26.0         46.0         <1         99         96           Iran, Islamic Republic of          39.0         2009           11.0         26.0         <1	Bahrain							25.0	35.0	8.0	100	99
Iron, Islamic Republic of   39.0   2009       14.0   26.0   <1   96   89	Djibouti				19.0 <sup>d</sup>	22.7 <sup>d</sup>	14.3 <sup>d</sup>				92	61
Iraq	Egypt	83.5 <sup>b</sup>	32.1	2012	5.1	7.2	2.8	26.0	46.0	<1	99	96
Jordan   .	Iran, Islamic Republic of		39.0	2009				14.0	26.0	<1	96	89
Kuwiit         79.1          2011         17.0         25.0         8.5         19.0         35.0         4.0         99         100           Lebanon         65.4         45.8 <sup>d</sup> 2011         36.2         41.9         31.4         32.0           100            Libya          43.9         2009         8.1 <sup>c</sup> 11 <sup>c</sup> 5 <sup>c</sup> 23.0         45.0         <1	Iraq	80.0		2012	13.4 <sup>e</sup>	13.9 <sup>e</sup>	11.6 <sup>e</sup>	18.0	31.0	4.0	85	85
Lebanon         65.4         45.8 <sup>d</sup> 2011         36.2         41.9         31.4         32.0          100            Libya          43.9         2009         8.1 <sup>c</sup> 11 <sup>c</sup> 5 <sup>c</sup> 23.0         45.0         <1         98 <sup>d</sup> 97           Morocco         82.6          2010         9.5 <sup>c</sup> 11.3 <sup>c</sup> 6.6 <sup>c</sup> 17.0         32.0         2.0         84         75           Oman         77.8          2010         3.3 <sup>c</sup> 4.9 <sup>c</sup> 1.7 <sup>c</sup> 8.0         13.0         <1         93         97           Pakistan         84.5          2009         9.8 <sup>d</sup> 15 <sup>d</sup> 1.9 <sup>d</sup> 23.0         38.0         7.0         91         48           occupied Palestinian territory         78.6 <sup>c</sup> 46.5         2011         21.3 <sup>c</sup> 32.5 <sup>c</sup> 9.8 <sup>c</sup> 20.2         39.0         3.0         92 <sup>f</sup> 99 <sup>f</sup> Outar         85.0 <sup>b</sup> 45.9         2012         29.9         41.8         17.8            100         100           Saudi Arabia	Jordan				26.1 <sup>d</sup>	34.1 <sup>d</sup>	19.4 <sup>d</sup>	26.0	47.0	6.0	96	98
Libya          43.9         2009         8.1°         11°         5°         23.0         45.0         <1         98 <sup>d</sup> 97           Morocco         82.6          2010         9.5°         11.3°         6.6°         17.0         32.0         2.0         84         75           Oman         77.8          2010         3.3°         4.9°         1.7°         8.0         13.0         <1         93         97           Pakistan         84.5          2009         9.8 <sup>d</sup> 15 <sup>d</sup> 1.9 <sup>d</sup> 23.0         38.0         7.0         91         48           occupied Palestinian territory         78.6°         46.5         2011         21.3°         32.5°         9.8°         20.2         39.0         3.0         92 <sup>f</sup> 99 <sup>f</sup> Qutar         85.0 <sup>b</sup> 45.9         2012         29.9         41.8         17.8            100         100           Soudi Arabia <td>Kuwait</td> <td>79.1</td> <td></td> <td>2011</td> <td>17.0</td> <td>25.0</td> <td>8.5</td> <td>19.0</td> <td>35.0</td> <td>4.0</td> <td>99</td> <td>100</td>	Kuwait	79.1		2011	17.0	25.0	8.5	19.0	35.0	4.0	99	100
Morocco         82.6          2010         9.5°         11.3°         6.6°         17.0         32.0         2.0         84         75           Oman         77.8          2010         3.3°         4.9°         1.7°         8.0         13.0         <1         93         97           Pakistan         84.5          2009         9.8°         15°         1.9°         23.0         38.0         7.0         91         48           occupied Palestinian territory         78.6°         46.5         2011         21.3°         32.5°         9.8°         20.2         39.0         3.0         92°         99°           Qatar         85.0°         45.9         2012         29.9         41.8         17.8            100         100           Saudi Arabia           14.9°         21.2°         9.1°         22.0         38.0         <1         97         100           Somalia	Lebanon	65.4	45.8 <sup>d</sup>	2011	36.2	41.9	31.4	32.0			100	
Oman         77.8          2010         3.3°         4.9°         1.7°         8.0         13.0         <1         93         97           Pokistan         84.5          2009         9.8°         15°         1.9°         23.0         38.0         7.0         91         48           occupied Palestinian territory         78.6°         46.5         2011         21.3°         32.5°         9.8°         20.2         39.0         3.0         92°         99°           Qatar         85.0°         45.9         2012         29.9         41.8         17.8            100         100           Soudi Arabia            14.9°         21.2°         9.1°         22.0         38.0         <1	Libya		43.9	2009	8.1°	11°	5 <sup>c</sup>	23.0	45.0	<1	98 <sup>d</sup>	97
Pakistan         84.5          2009         9.8 <sup>d</sup> 15 <sup>d</sup> 1.9 <sup>d</sup> 23.0         38.0         7.0         91         48           occupied Palestinian territory         78.6 <sup>c</sup> 46.5         2011         21.3 <sup>c</sup> 32.5 <sup>c</sup> 9.8 <sup>c</sup> 20.2         39.0         3.0         92 <sup>f</sup> 99 <sup>f</sup> Qatar         85.0 <sup>b</sup> 45.9         2012         29.9         41.8         17.8            100         100           Saudi Arabia            14.9 <sup>c</sup> 21.2 <sup>c</sup> 9.1 <sup>c</sup> 22.0         38.0         <1         97         100           Somalia                  97         100           Soudan         89.0          2012         8.8 <sup>a</sup> 10.9 <sup>a</sup> 6.6 <sup>a</sup> 13.0           55         24           Syrian Arab Republic         84.9          2010         24.5 <sup>c</sup> 31.6 <sup>c</sup> 17.4 <sup>c</sup> 26.5 <sup>d</sup> 90         96	Morocco	82.6		2010	9.5 <sup>c</sup>	11.3 <sup>c</sup>	6.6 <sup>c</sup>	17.0	32.0	2.0	84	75
occupied Palestinian territory         78.6 <sup>c</sup> 46.5         2011         21.3 <sup>c</sup> 32.5 <sup>c</sup> 9.8 <sup>c</sup> 20.2         39.0         3.0         92 <sup>f</sup> 99 <sup>f</sup> Qatar         85.0 <sup>b</sup> 45.9         2012         29.9         41.8         17.8           100         100           Saudi Arabia            14.9 <sup>c</sup> 21.2 <sup>c</sup> 9.1 <sup>c</sup> 22.0         38.0         <1	Oman	77.8		2010	3.3 <sup>c</sup>	4.9 <sup>c</sup>	1.7 <sup>c</sup>	8.0	13.0	<1	93	97
Qatar         85.0b         45.9         2012         29.9         41.8         17.8           100         100           Saudi Arabia           14.9c         21.2c         9.1c         22.0         38.0         <1         97         100           Somalia </td <td>Pakistan</td> <td>84.5</td> <td></td> <td>2009</td> <td>9.8<sup>d</sup></td> <td>15<sup>d</sup></td> <td>1.9<sup>d</sup></td> <td>23.0</td> <td>38.0</td> <td>7.0</td> <td>91</td> <td>48</td>	Pakistan	84.5		2009	9.8 <sup>d</sup>	15 <sup>d</sup>	1.9 <sup>d</sup>	23.0	38.0	7.0	91	48
Saudi Arabia           14.9°         21.2°         9.1°         22.0         38.0         <1         97         100           Somalia	occupied Palestinian territory	78.6 <sup>c</sup>	46.5	2011	21.3 <sup>c</sup>	32.5 <sup>c</sup>	9.8 <sup>c</sup>	20.2	39.0	3.0	92 <sup>f</sup>	99 <sup>f</sup>
Somalia	Qatar	85.0 <sup>b</sup>	45.9	2012	29.9	41.8	17.8				100	100
Sudan         89.0          2012         8.8°         10.9°         6.6°         13.0           55         24           Syrian Arab Republic         84.9          2010         24.5°         31.6°         17.4°         26.5°          90         96           Tunisia         81.5          2008         11.4°         20.1°         3.8°         32.0         52.0         11.0         97         90	Saudi Arabia				14.9 <sup>c</sup>	21.2 <sup>c</sup>	9.1 <sup>c</sup>	22.0	38.0	<1	97	100
Syrian Arab Republic         84.9          2010         24.5°         31.6°         17.4°         26.5°          90         96           Tunisia         81.5          2008         11.4°         20.1°         3.8°         32.0         52.0         11.0         97         90	Somalia										31 <sup>c</sup>	23 <sup>c</sup>
Tunisia 81.5 2008 11.4 <sup>c</sup> 20.1 <sup>c</sup> 3.8 <sup>c</sup> 32.0 52.0 11.0 97 90	Sudan	89.0		2012	8.8 <sup>a</sup>	10.9ª	6.6 <sup>a</sup>	13.0			55	24
	Syrian Arab Republic	84.9		2010	24.5 <sup>c</sup>	31.6 <sup>c</sup>	17.4 <sup>c</sup>	26.5 <sup>d</sup>			90	96
United Arab Emirates 80.8 2010 14.0 21.3 9.0 25.4 <sup>c</sup> 100 100 <sup>f</sup>	Tunisia	81.5		2008	11.4 <sup>c</sup>	20.1 <sup>c</sup>	3.8 <sup>c</sup>	32.0	52.0	11.0	97	90
	United Arab Emirates	80.8		2010	14.0	21.3	9.0	25.4 <sup>c</sup>			100	100 <sup>f</sup>
Yemen 84.8 2008 14.1 <sup>e</sup> 14.5 <sup>e</sup> 10.5 <sup>e</sup> 23.0 35.0 11.0 55 53	Yemen	84.8		2008	14.1 <sup>e</sup>	14.5 <sup>e</sup>	10.5 <sup>e</sup>	23.0	35.0	11.0	55	53

## Health status (mortality)

	ry				Maternal mortality ratio		ed mortality rates by m		Mortality between ages 30 and 70 from cardiovascular	ılar			
	,								disease, cancer, diabetes,	Reported	WH	10 estimate, 2010	
			rate per 1000 li		Per 100 000 live births,	F	Per 100 000 populatio	n	chronic respiratory disease, 2012				
		UN-I	IGME 2013 estim	nates	UN-MMEIG 2013 estimate				2012	Per 1	100 000 populo	ıtion	
		R	R	R	R	Communicable diseases	Noncommunicable diseases	Injuries	%	R	γ	R	
Afgha	nistan	36.3	70.2	97.3	400	363	846	169	31	4.6	2013	19.8	
Bahra	in	2.3	5.2	6.1	22	48	506	34	13	6.7	2012	10.5	
Djibou	ıti	31.2	57.4	69.6	230	626	631	106	19				
Egypt		11.8	18.6	21.8	45	74	782	33	25	7.9	2013	13.2	
Iran, I	slamic Republic of	10.3	14.4	16.8	23	56	569	75	17	23.3 <sup>h</sup>	2013	34.1	
Iraq		18.7	28.0	34.0	67	87	715	128	24	17.9	2013	31.5	
Jordar	1	11.2	16.0	18.7	50	53	640	53	20	11.7	2013	22.9	
Kuwai	t	4.7	8.1	9.5	14	82	406	25	12	12.8	2012	16.5	
Leban	on	5.2	7.8	9.1	16	30	385	41	12			22.3	
Libya		8.7	12.4	14.5	15	53	550	63	18	60.1	2013		
Moroc	CO	17.9	26.1	30.4	120		708	47	13	11.6	2013	18	
Oman		6.6	9.8	11.4	11	84	478	53	18	23.6	2013	30.4	
Pakist	an	42.0	69.0	85.5	170	296	669	99	21			17.4	
occupi	ied Palestinian territory	12.2	18.6	21.8	47				21	4.9 <sup>j</sup>	2013	3.2	
Qatar		4.3	7.0	8.2	6	28	407	41	14	13.7	2013	14.0	
Saudi	Arabia	8.8	13.4	15.5	16	71	549	41	17	25.5	2013	24.8	
Soma	lia	46.2	89.8	145.6	850	927	551	188	19				
Sudar	ı	29.9	51.2	76.6	360	496	551	134	17	6.5	2013	25.1	
Syrian	Arab Republic	7.9	11.9	14.6	49	41	573	308	19	9.2	2010	22.9	
Tunisi	0	9.0	13.1	15.2	46	65	509	39	17	13.8	2013	18.8	
United	d Arab Emirates	4.8	7.0	8.2	8	36	547	32	19	6.5	2013	12.7	
Yemer	1	24.3	40.4	51.3	270	515	627	84	23			23.7	

# Health status (morbidity, 2013)

Country	Cancer (all types)	Tuberculosis <sup>k</sup>			Malar		Measles	
	Incidence <sup>g</sup>	Case notification	Estimated number of new infections	Number of newly reported cases	Incidence of confirmed cases	Total number of reported cases	Incidence	
	Rate per 100 C	000 population			Rate per 1000 population		Rate per 1000 000 population	
	R	R	N	N	R	N	R	
Afghanistan		189	605	162 <sup>a</sup>	1.8	319 742	16.2	
Bahrain	122.4	18				233 <sup>al</sup>	0.0	
Djibouti		619	<200		2.0	1 687	22.0 <sup>b</sup>	
Egypt	152.0	16	1 100	626 <sup>a</sup>		262 <sup> </sup>	5.1	
Iran, Islamic Republic of		21	7 800	1 588 <sup>b</sup>	0.6 <sup>m</sup>	1 373 <sup>m</sup>	1.6	
Iraq	135.3	25		21 <sup>a</sup>		8 <sup> </sup>	21.1	
Jordan	155.4	6		16ª		56 <sup>l</sup>	19.5	
Kuwait	102.1	26		25 <sup>b</sup>		291 <sup> </sup>	17.3	
Lebanon	197.4	16		109 <sup>b</sup>		133 <sup>l</sup>	410.7	
Libya	124.1	40		802		88 <sup>al</sup>	28.2	
Могоссо	117.8	104	3 000	753 <sup>b</sup>		314 <sup>l</sup>	1.9	
Oman	82.1	11		115 <sup>a</sup>		1 451 <sup>n</sup>	0.0	
Pakistan	111.8	164	14 457	5 <sup>0</sup>	1.5	3 472 727	45.3	
occupied Palestinian territory		5		5 <sup>0</sup>		0 <sup>a</sup>	0.0	
Qatar	108.8	40				7 281	39.2	
Saudi Arabia	91.1	14		394 <sup>b</sup>	0.02 <sup>m</sup>	2 513 <sup>m</sup>	8.8	
Somalia		285	3 300	72 <sup>a</sup>	1.9 <sup>a</sup>	59 709	25.9	
Sudan	91.1	108	5 200	353 <sup>a</sup>	15.2 <sup>a</sup>	989 946	85.9	
Syrian Arab Republic	145.9	17		37 <sup>a</sup>		221	35.0	
Tunisia	110.6	32	<1000	73 <sup>b</sup>		68 <sup>n</sup>	1.5	
United Arab Emirates	92.5	2				4 380 <sup>l</sup>	37.4	
Yemen	80.4	48	<1000	261 <sup>a</sup>	5.0	149 451	17.5	

## Health financing

Country	Per capita total expenditure on health ' US\$ exchange rate	Out-ot-pocket expenditure as % of total health expenditure <sup>p</sup>	health as % of general government expenditure or health as % of general government expenditure?		Population with catastrophic health expenditure	Population impoverished due to out-of-pocket health expenditure	
							Υ
Afghanistan	51	74.4	7.1	2012			
Bahrain	895	16.5	9.6	2012			
Djibouti	129	40.0	14.1	2012			
Egypt	152	59.6	5.8	2012			
Iran, Islamic Republic of	490	52.5	15.4	2012	3.0		2010
Iraq	226	46.4	4.4	2012			
Jordan	388	28.5	17.8	2012			
Kuwait	1 428	15.8	5.6	2012			
Lebanon	650	38.6	6.6	2012			
Libya	578	22.7	6.9	2012			
Morocco	190	58.8	6.0	2012			
Oman	690	12.0	5.5	2012	2.6	1.00	2008
Pakistan	34	54.8	4.7	2012			
occupied Palestinian territory	248	37.0	10.0	2012			
Qatar	2 029	8.5	5.3	2012			
Saudi Arabia	795	18.7	5.7	2012			
Somalia							
Sudan	115	73.7	10.6	2012	7.9		2012
Syrian Arab Republic	105	53.9	5.6	2012			
Tunisia	297	35.5	13.3	2012	1.8	1.08	2010
United Arab Emirates	1 343	20.4	9.3	2012			
Yemen	71	71.7	4.0	2012			

### Health workforce

Country		Density of p	personnel per 10 000 p	oopulation		Density of registered recent graduates of health profession educational institutions per 100 000 po							
	Physicians	Nursing and midwifery	Dentists	Pharmacists		Physicians	Nursing and midwifery	Dentists	Pharmacists				
					Υ					Υ			
Afghanistan	2.9	3.6	0.1	0.3	2012								
Bahrain	27.9	51.3	4.5	6.2	2012								
Djibouti	2.1	5.1	0.2	2.2	2010								
Egypt	8.5	14.3	1.6	3.0	2013								
Iran, Islamic Republic of	15.2	15.7	3.5	2.3	2013								
Iraq	8.8	19.5	2.1	2.2	2013	0.5	0.6	0.9	0.1	2013			
Jordan	28.6	48.6	10.4	17.8	2013								
Kuwait	27.0	56.0	5.0	6.1	2012								
Lebanon	31.9	33.1	12.6	16.8	2013								
Libya	20.0	67.0	6.0	6.0	2012								
Morocco	6.4	9.0	1.4	2.7 <sup>b</sup>	2013								
Oman	19.9	45.7	2.3	4.6	2013	1.0	5.0	0.2		2012			
Pakistan	8.0	6.0	1.0	1.4	2011								
occupied Palestinian territory	23.5	25.0	6.3	12.9	2013								
Qatar	25.3	58.1	9.7	6.3	2012	2.0	1.0	0.0	2.0	2012			
Saudi Arabia	26.8	103.0	4.2	7.3	2013	6.1	1.6	1.3	2.3	2011			
Somalia	0.3	0.8			2009								
Sudan	4.2	9.5	0.1	1.5	2013								
Syrian Arab Republic	15.8	19.2	7.2	9.3	2012	2.0		1.0	1.0	2010			
Tunisia	16.8	32.5 <sup>b</sup>	3.9	2.3	2013								
United Arab Emirates	17.8	33.6	4.5	4.6	2012								
Yemen	3.0	7.2	1.0	1.1	2013								

## Service delivery

Country			N	Nedicines and med	dical devices, 20	13		Density of	Density of			ıl wound		outpatient	
· · · · · · · · · · · · · · · · · · ·		icines in health lities				n of selected medic nte health facilities			primary health care facilities	inpatient beds (hospitals)		inte	ection	visits pe	er capita
	Public	Private	Computed	Radiotherapy	Magnetic	Mammographs,		Lithotriptors	Per 10 000	) population					
			Tomography		Resonance Imaging	2010	Subtraction Angiography		R	R	Υ	%	Υ	Ratio	Υ
Afghanistan			0.2		0.1	0.0			1.0	5.3 <sup>b</sup>	2012				
Bahrain									0.2	20.8	2011				
Djibouti									0.5	14.2	2010			2.6	2013
Egypt				0.8					0.6	5.2	2012				
Iran, Islamic Republic of	96.7	96.7		0.9					3.2 <sup>a</sup>	15.0	2013				
Iraq			2.2	0.2	1.6	37.7			0.8	13.0	2013				
Jordan	27.8 <sup>a</sup>	80.0 <sup>a</sup>	5.5	0.8	2.1	166.1			2.3	18.0	2013			3.0	2010
Kuwait				1.2					1.0	22.0	2012			0.7	2012
Lebanon	75.4	87.2	25.1	1.9	8.3	380.0			2.3 <sup>d</sup>	28.6	2013			6.2	2013
Libya			9.7	1.0	5.2				2.6	37.0	2010				
Могоссо		52.5	1.2	0.4	0.4	20.1			0.8	8.5	2011			1.0	2013
Oman	96.7 <sup>b</sup>	70.3 <sup>b</sup>	6.9	0.6	4.4	94.1			0.8 <sup>a</sup>	17.1	2013			4.4	2013
Pakistan			0.3	0.1	0.2	1.8			2.0	6.0	2011			4.6	2013
occupied Palestinian territory									1.7	12.5	2013			0.2	2013
Qatar			8.3	0.9	9.2	284.6			2.0	14.0	2012				
Saudi Arabia			3.8	0.1	1.0	45.4			0.8	22.0	2013			1.2	2011
Somalia									1.9	8.7 <sup>b</sup>	2013				
Sudan	49.3	69.5	1.1	0.2	0.3	9.7			1.0	8.2	2011			0.5	2012
Syrian Arab Republic	93.0	98.2		0.3					0.9	15.2	2012				
Tunisia	70.0	80 <sup>a</sup>	8.9	1.6	2.0	27.1			5.5	21.2 <sup>b</sup>	2012	6.6	2012		
United Arab Emirates	61.1 <sup>b</sup>	73.9 <sup>b</sup>		0.6					0.1	11.5	2012			3.8	
Yemen			3.6	0.1	1.1	33.9			2.0	6.7	2013				

## Coverage of selected interventions

Country	Needs for contraception satisfied (UN Population division estimate, 2013)	Antenatal care coverage (1 + visits)	Antenatal care coverage (4+ visits)	Skilled birth attendence			n under 5 with pPT3/pentavalent vaccination coverage among children under 1 year, 2013		Measles immunization coverage, 2013		age for severe disorders
	%	%	%	%		%	Υ	%	%	%	γ
Afghanistan	49.1	51.0	9.9	40.0	2012	70.1	2011	90.0	82.0		
Bahrain	84.9	100.0		99.8	2012			99.0	100.0		
Djibouti	40.7	73.0		40.0	2011			82.0	80.0		
Egypt	84.7	51.3		79.0 <sup>e</sup>	2013	28.4	2008	97.0	96.0		
Iran, Islamic Republic of	92.1	97.2	88.6	96.4	2010			98.0	98.0	99.2	2012
Iraq	77.8	52.0	34.0	87.7	2013	34.4	2011	78.0	77.0	37.0	2013
Jordan	83.5	99.0		100.0	2012	27.8	2012	98.0	97.0		
Kuwait	77.6	100.0 <sup>c</sup>		100.0	2012			98.8	99.8		
Lebanon	82.6					100.0		98.0	99.0	43.0	2010
Libya	69.6			99.9	2010			98.0 <sup>a</sup>	98.0 <sup>a</sup>		
Morocco	87.0	77.1	42.6	73.6	2011	22.1	2011	99.0	99.0		
Oman	54.8	99.1	96.4 <sup>e</sup>	98.6	2013			98.0	100.0		
Pakistan	63.2	74.0		52.1	2013	41.8	2013	66.0	61.0		
occupied Palestinian territory		100.0		100.0	2013			99.4	99.7	87.8	2013
Qatar	74.1	100.0 <sup>b</sup>	85.0	100.0	2012	69.0	2012	100.0	100.0		
Saudi Arabia	59.5	98.0	82.3	98.0	2013			98.0	98.0		
Somalia	40.8	40.0		44.0	2011			26.0	29.0		
Sudan	33.4	74.0		72.5	2010	52.0	2010	93.0	85.0		
Syrian Arab Republic	78.0	87.7		96.0	2009			60.0	83.0		
Tunisia	85.2	98.1	85.1	98.6	2012	48.4	2012	98.0	94.3		
United Arab Emirates	69.7	100.0 <sup>b</sup>	100.0 <sup>b</sup>	99.9	2013			100.0 <sup>a</sup>	100.0 <sup>a</sup>		
Yemen	58.8	60.0		44.7	2013	27.8	2013	88.0	78.0		

## Coverage of selected interventions

Country		Treatment success rate of new bacteriologically confirmed tuberculosis cases , 2012	Suspected malaria cases having a diagnostic test	Individuals in malaria endemic areas who slept under an ITN the previous night		Adults and children currently receiving ARV therapy among all adults and children living with HIV, estimtes 2013			yho have received an HIV test nd know their results <sup>q</sup>		
							PWID	SW	MSM		
		%	%	%	Υ	%		%		Υ	
Afghanis	tan	92.0	66.5	30.6 <sup>b</sup>	2013	5.0	22.5	5.9	17.4	2013	
Bahrain		44.0	100.0		2012						
Djibouti		31.0		13.0	2009	28.0		100.0		2011	
Egypt		87.0	100.0		2012	16.0		1.1	56.8	2011	
Iran, Isla	ımic Republic of	87.0	100.0	57.0	2013	6.0	24.8	20.0 <sup>d</sup>		2011	
Iraq		89.0	100.0		2013						
Jordan		90.0	100.0		2013						
Kuwait		91.0									
Lebanon		93.0					100.0	64.18 <sup>b</sup>	38.1ª	2013	
Libya		60.0	100.0		2012				45.6	2012	
Morocco		89.0	100.0		2013	21.0	9.7	25.5	31.0	2011	
Oman		97.0	100.0		2013						
Pakistan		91.0	58.8	34.8	2013	6.0	9.1	8.0		2011	
occupied	Palestinian territory	100.0			2013						
Qatar		48.0	100.0		2011						
Saudi Ar	abia	64.0	100.0		2013						
Somalia		88.0	62.0		2011	5.0					
Sudan		75.0		14.6	2012	7.0		9.0	4.6	2013	
Syrian A	rab Republic	80.0	100.0		2013		27.1				
Tunisia		89.0				16.0	19.5	13.4	15.1	2011	
United A	rab Emirates	76.0	100.0		2013						
Yemen		88.0	95.0	7.1	2013	15.0			27.9	2011	

### **Notes**

- <sup>a</sup> 2012
- b 2011
- 2010
- 2009
- 2008
- f 2013 data
- 9 Age standardized
- Calendar year 1 March 2013-28 February 2014
- West Bank only
- k Source: Global Tuberculosis Report 2013 (http://apps.who.int/iris/bitstream/10665/91355/1/9789241564656\_eng.pdf)
- Imported cases; no local transmission
- Calculated for the reported local cases per 1000 population at risk
- Of which locally transmitted cases were 11 (Oman) and 4 (Tunisia)
- Source: WHO global health expenditure online database (http://apps.who.int/nha/database)
- Global AIDS Response Progress Reporting, 2014 (http://www.unaids.org/en/media/unaids/contentassets/documents/document/2014/GARPR\_2014\_guidelines\_en.pdf)
- Y Reference year for the data provided
- ... Not available for 2008-2012 or not reported

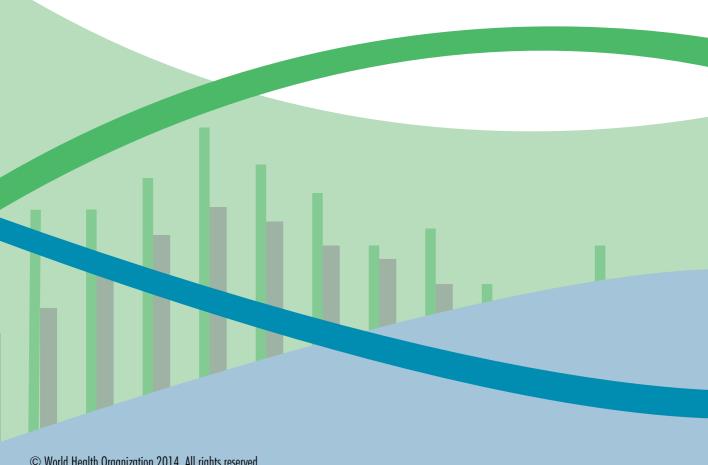
UN-IGME: United Nations Inter-agency Group for Child Mortality Estimation UN-MMEIG: United Nations Maternal Mortality Estimation Inter-Agency Group

PWID: People who inject drugs

SW: Sex workers

MSM: Men who have sex with men





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