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# ANALYSIS







# Reducing the health inequalities associated with employment conditions

China's mines: the deadliest in the world

Fair and efficient government policies on labour and welfare can reduce health inequalities that accompany poor employment conditions and unemployment, explain **Joan Benach** and colleagues

The current economic recession has caused striking levels of unemployment, underemployment, and job insecurity globally. The International Labour Organization (ILO) estimated that the number of unemployed people was 212 million in 2009, and it projects the global unemployment rate in 2010 to be 6.5%, with a confidence interval ranging from 6.1% to 7%. In rich countries in the Organization for Economic Co-operation and Development more than 57 million people, or 10%, are unemployed in 2010,1 the current unemployment rate in Spain is 20%, and in the United States the rate is around 10% using conservative estimates. The ILO has predicted that the impact of the economic crisis on vulnerable employment is likely to have increased the number of working poor-those living on \$1.25 (£0.80; £0.90) a day-by 215 million workers between 2008 and 2009, and that in 2009 there were between 1.48 and 1.59 billion vulnerable workers worldwide.<sup>2</sup> These developments will increase global health inequalities. and inequalities between social classes within countries, because unemployment and underemployment cluster among lower income countries and workers.3 In this article we explore the relation between unemployment, poor working conditions, and health, and argue that governments and public health agencies should recognise that fair employment conditions should be regarded as a human right.

### **Globalisation increases inequalities**

Globalisation has increased the inequality in working conditions across regions, countries, social groups, and occupations. It has also generated substantial social inequalities in health. Worldwide, about 1000 workers, mainly located in poor regions and countries, die every day because of unsafe working conditions, and an additional 5000 people die from work related diseases.45 In rich regions, such as the European Union, long established hazards at work-for example, exposure to chemical products, radiation, or vibrations-have remained stable or slightly decreased in the past decade. Studies, however, report the increase of other hazards, such as work intensification and non-standard employment, and the strong links between these different hazards and health inequalities. For example, working class people tend to be employed in jobs that have poor psychosocial working conditions, and large and persistent health inequalities exist.67 In middle and low income countries, most workers are employed in agriculture or manufacturing. They face heavy physical work, the risk of injury, and the risk of poisonings from pesticides and biological hazards. Workers are unequally exposed to hazardous working conditions within countries and as a result health inequalities vary across occupation, gender, ethnicity, migrant status, and other forms of social stratification.\*

Employment conditions are related to working conditions, yet are different. They are the terms may be, but are often not, prescribed by law under a contract. Employment conditions range from full time permanent employment, to precarious and slavery or bonded labour. Employment relations—the individual and collective power relations are unival—est of the labour market and welfare at uork—also after employment conditions. Both are individual and collective power relations state policies of individual countries.<sup>1</sup>

### **Employment and working conditions**

In weakity countries, employment conditions are usually regulated. In poor countries, by contrast, employment agreements tend not to be explicitly regulated, and a high proportion of people work in the informal sector. In both rich and poor countries, groups with high unemployment rates include workers without creteritals, single mothers, ethnic minorities, young adults, and recent humigrants. In rich countries, workers with ourly primary education are three times as likely to be unemployed as those with treitary education (see boo). In middle quartes of workers are informally employed, with wome being over prepresented in this group.

Children are among the most affected by global labour market inequalities. More than 300 million children (aged between 5 and 17 years)



A German worker dies when scaffolding collapses

are economically active, and over two thirds are child labourers. Between 12 and 28 million people globally are enslawed. Most of them are in Asia, and at least 2.4 million people, mainly women and girls, are in forced labour as a result of human trafficking.<sup>4</sup>

Most of the data that show a link between ill health and job insecurity, underemployment and precarious employment, informal employment, child labour, and forced labour come from wealthy countries, little research has been conducted in middle and low income countries.<sup>4</sup> The box shows some of the evidence linking employment conditions and health by employment type.

#### **Employment relations**

The more support and protection people have from



The Calcutta stock exchange

the welfare state, the greater the extent to which they can maintain their way of living when they do not have a job. Where social safety nets are adequate workers can exit the labour market if they need to and avoid turning to hazardous work or adverse working environments. Although workers and employers have a shared interest and responsibility in maintaining a healthy working environment, only the employer controls the terms and conditions of service, and their over-riding concern is to maximise profits.21 The key to understanding employment relations and the impact they have on the health of workers is to realise the importance of the bargaining power that workers have; a leverage which allows them to push for a stronger welfare state and better working conditions.822 In private market economies, labour unions and



A worker sprays crops in Indonesia

pro-labour social movements are the most effective institutional means to ensure safety at work.2223 The relative power of employers, workers, and different types of employees has a profound influence on health and safety at work across welfare state regimes. Research has shown the important role played by the psychosocial work environment. including the amount of control and participation employees have in the workplace.24 For example, analyses on three cohorts of middle aged civil servants in England, Japan, and Finland found that there were significant grade differences in physical functioning in all cohorts and in both men and women. Those with low socioeconomic status had worst health. However, the differences in health among non-manual workers were smaller in the Finnish cohort, suggesting that more equitable

#### EVIDENCE ON EMPLOYMENT CONDITIONS AND HEALTH

#### UNEMPLOYMENT

- A study in the European Union identified unerployment as one of the 10 most important contributors to the total burden of disease in the 1990s<sup>2</sup> <sup>(III)</sup> Britain it has been estimated that the direct effect of reducing unemployment has prevented up to 2500 premature deaths a year, but the indirect effects of being employed are thought to be far greater.<sup>13</sup>
- Unemployment increases rates of depression, particularly in young people who have never worked and who are usually the worst hit when jobs are scare. Parsuicide rates in young men who are unemployed are 9.5 to 25 times higher than in employed young men.<sup>2</sup>
- Unemployed people are more likely to be ill, especially those who have never worked or have only had jobs that are badly paid.<sup>53</sup>

PRECARIOUS EMPLOYMENT

- Job insecurity and downsizing have negative effects on self reported morbidity and mental health.
   These effects tend to increase with chronic exposure, and their impact is more detrimental among manual workers.<sup>2143</sup>
- Temporary workers are exposed to more work hazards than workers on permanent contracts. These hazards may include being in painful and tiring positions, having to listen to intense noise, carrying out repetitive movements, and exposure to psychosocial stressors.<sup>16</sup>
- Job precariousness has a detrimental impact on self reported health and mental health.<sup>17</sup> How precarious a job is will be affected by the labour market and power relations in the workplace.<sup>18</sup>

#### INFORMAL WORKERS

- Informal workers are often more exposed to dangerous work environments, have higher risk for occupational injuries or diseases, and less favourable health indicators than those holding formal jobs.<sup>6</sup>
- Informal work is associated with individuals rating their health as poor, and it also affects how those people living in the same house as an informal worker rate their health.<sup>39</sup>
- Workers with no social security have worse health indicators than workers with some form of social security through their employment.<sup>20</sup>

#### CHILD LABOURERS\*

- More than one third of all child labourers are engaged in hazardous work.
- Exposure to hazards at work may be especially harmful to children. They are extremely vulnerable to biological or chemical agents because their immune system is immature, and they are not as capable as adults of supporting heavy workloads.
- BONDED AND SLAVE LABOURERS\*
- People in forced labour and slaves are exposed to the worst hazards, although information on these situations is extremely limited.

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Human conveyor belts haul coal in China

welfare regimes may help reduce the health gap.25 The political tradition of a country is a key determinant of its labour laws, regulations, and level of social protection. Globally, the world may be divided into different types of labour markets, according to national incomes and countries' political economy. 26 These labour markets reflect the role of the state and, in wealthy countries, there is evidence that the relative power of labour institutions is linked to population health. 27 Wealthy countries with strong labour institutions, such as Sweden, tend to have the least harmful forms of employment relations, whereas equally wealthy but less labour friendly countries, such as the United States, have higher occupational fatality rates.22.28 Only a few countries have policies for integrating employment. policies into economic and social policies. These include the Netherlands and Denmark.19 International institutions such as the United Nations. World Trade Organization, North American Free Trade Agreement, Association of Southeast Asian Nations, or the Southern Common Market should recognise fair employment conditions-that is, freedom from coercion, job security, a fair income, job protection, respect and dignity, workplace participation and enrichment, and lack of alienation-as universal human rights.8

### **Government** policies

An important social effect of economic crises is the angli chroase in unemployment. This increase has direct and indirect effects on the health of workers. Direct effects include the generation of uncertainty, poverty, and social exclusion that can lead to menowhers increases. The threat of lossing their jobs becomes a powerful disciplinary mechanism that is more powerful the higher the level of unemployment.<sup>27</sup> The social and population health import of the present economic crisis will vary oftending their jobs Research suggess that the best yave (or govern-



A 13 year old unpaid apprentice in Bangladesh

ments to protect the health of their population is by investing in policies and practices that keep people employed, help those who lose their jobs cope with the negative effects of unemployment, and getting unemployed people back into work as soon as possible. 31 Analyses also show that the beneficial effects of unemployment compensation are not equally distributed across different gender, family role, and social class categories-for example, the mediating role of social class in determining the impact of unemployment on mental health differs depending on sex and family roles.33 Therefore unemployment insurance should be universal and achieve a substantial degree of income replacement to guarantee a healthy standard of living for allerouns

Governments can take action in several ways. They can make a large economic investments for example, a "stimulus package," and regulate labour policies, such as government led ipb creation, and pursue active albour market policies auch as tertaining and job placement. "Governments can also expand social protection through income support." Research in 26 European counries augests every 51 op expression investment in active labour market programmes reduces the effect of unemployment on suicides by 00.38%.

#### The role of health professionals

Health professionals play a crucial role in dealing with the health consequences of people who are unemployed, underemployed, or working in adverse environment or under less than optimal conditions. They must also be able to identify the employment and work related determinants leading to ill health in their patients. Health professionals can also assist in providing evidence to clarify the employment and work related health defects of the current crisis. They should also advocate for eavernments in advoc fraited the more effec-



A jeans factory in China

tive labour market and social policies to reduce employment related health inequalities.

Enacting such policies should be a central objective for governmenis. Multifiantional institutions, such as the ILD and WHO, care encourage this by setting out initiatives that prioritise the adoption of fair employment policies. At every level decision makers need to take on board the views of unions, social movements, and affected communities. International policical, economic, and public health institutions should recognise fair employment conditions as universal human anglish. "Health, air employment will not occur if left to the market alone. It must be made a public health policity.

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### bmi.com archive

O News: Doctors are one of the "linchpins" in closing the UK health inequalities gap (BM/2010:340:c3060)

Observations: Crocodile tears for health inequality (BMI 2010;340:c2970)



### bmi.com/video

Professor Michael Marmot, chair of the World Health Organization's commission on social determinants of health, discusses the effect of the world's financial crisis on global health in a BMI video at http://www.bmi.com/video/

### bmi.com poll

This week's poll asks: "Is offering unemployment advice part of a family doctor's remit?"

Cast your vote on bmj.com

- Organization for Economic Co-operation and Development: Unemployment in OECD countries to approach 10% in 2010, says OECD. www.eecd.org/docu mentprint/0.3455,en\_2649\_33927\_43136377\_1\_1\_1 1.00.html
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### FROM BMI.COM

# Things to be afraid of

julian Sheather owns up to a fear of doctors. "I am a doctor myself-of philosophy. granted-and I work with doctors day in and day out, But put me in a patient's cap and wheel me before a medic and some traitor part of me will gibber and quake," he says. "It is not. I should stress, a fear of diagnosis, not a fear of had news. It is a fear of doctors "

loe Knight is concerned that media scares adversely affect teenagers like him: "Every day the government slaps yet more absurd age restrictions on the last few activities where we can break a sweat and have fun. For example, a school ice skating trip had to be abandoned because the months of careful planning clearly weren't enough to prove that a small group of fourteen year old kids could safely navigate a skating session without someone dving or losing a vital limb."



Meanwhile, Andrew Burd struggles to define cosmetic surgery. "I have spent a considerable amount of time over the years considering the word 'cosmetic' and putting this into some sort of context," he writes, "My first realisation about the sensitivity of the term was overhearing the heated theatre coffee room conversations of my seniors talking about territory, training, cowboys, etc. That was some 30 years ago, and nothing much has changed."

Joe Collier blogs about Tamiflu stockpiling: "Because of four key clauses in the pricing contract drawn up between government and the drugs industry, we in the United Kingdom stand to lose little or nothing. The four particular clauses form part of the 2009 Pharmaceutical Price Regulation Scheme. The scheme is an agreement between the UK government and each of the drug companies that sells brand name medicines to the NHS. In brief, the scheme states that, taking into account all the drugs a company will sell to the NHS in the forthcoming year, there will be an agreed target maximum amount the NHS will pay."

O Read these blogs and others at http://blogs.bmj.com/bmj

# PH-19

2011

# Health inequities

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In general, the global reporting of health indicators focuses on national averages. However, data on the distribution of health and health services within countries and between population subgroups are equally important. Such data help to identify health inequities – unfair and avoidable differences in health and health service provision – that arise for example from socioeconomic factors (such as level of education, occupation and household wealth or income), from geographical location, and from ethnicity and gender.

This section presents data from 93 countries using three health indicators – percentage of births attended by skilled health personnel, measles immunization coverage among 1-year-olds, and under-five mortality rate – disaggregated according to urban or rural residence, household wealth and maternal educational level.

The main sources of the data are the Demographic and Health Surveys (DHS) and Multiple Indicator Cluster Surveys (MICS) conducted between 2000 and 2010. For disaggregation by household wealth, the total population is classified into wealth quintiles based on relative differences in household wealth, which the country rather than on an absolute wealth criterion. Although the estimates are subject to normal sample variability (which are usually indicated by confidence intervals), only the point estimates are shown in this section.

The data presented refer to ratios and differences between the most-advantaged and least-advantaged groups. However, these measures do not reflect the situation across all population groups (such as groups falling into the middle of wealth or education distributions) for which other measures are used.

Source:

# WORLD HEALTH STATISTICS 2011 © World Health Organization 2011

For more information please visit: http://www.who.int/whosis/whostat/en/

Member State		-4			8	irths atte	nded by sk	illed healt	h personn	el ** (%)			
			Place of a	esidence		1200	Wealth	quintile	2	Edu	cational le	vel of mot	here
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Afghanistan													
Albania Le	2008-2009	99	100	1.0	1	98	100	1.0	2				
Algeria *	2006	92	98	1.1	6		***			***			
Andorra											***		
Angola						***	***			*1+			
Antigua and Barbuda							***						
Argentina												•••	
Armenia *	2005	98	99	1.0	1	93	100	1.1	7				
Australia													
Austria													
Azerbaijan	2006	81	97	1.2	16	78	100	1.3	22	83	89	1.1	5
Bahamas													
Bahrain													
Bangladesh	2007	13	37	2.8	23	5	51	10.3	46	5	33	7.4	29
Barbados													
Belarus	2005	100	100	1.0	0	100	100	1.0	0				
Belgium													
Belize*	2006	93	99	1.1	7								
Benin	2006	74	86	1.2	12	56	97	1.7	42	72	98	1.4	26
Bhutan													
Bolivia (Plurinational State of)	2008	51	88	1.7	38	38	99	2.6	61	40	91	2.3	51
Bosnia and Herzegovina*	2006	100	100	1.0	0	99	100	1.0	0				
Botswana													
Brazil													
Brunei Darussalam													
Bulgaria													
Burkina Faso	2003	31	88	2.9	57	39	91	2.3	52	33	95	2.9	62
Burundi*	2005	32	75	2.4	43	25	55	22	30	30	84	2.8	54
Cambodia	2005	39	70	1.8	31	21	90	4.3	69	22	80	3.6	58
Cameroon	2004	44	84	1.9	40	29	95	3.2	65	23	92	4.0	69
Canada	2004										_		
	2005				27			•••					•••
Cape Verde		64	91	1.4									
Central African Republic*	2006	35	83	2.4	48	27	89	3.3	62	34	88	2.6	55
Chad	2004	6	46	7.1	39	4	55	15.4	52	9	67	7.2	57
Chile													
China											***		
Colombia	2005	77	97	1.3	20	72	99	1.4	27	67	97	1.4	30
Comoros													
Congo	2005	74	97	1.3	23	67	98	1.5	32	62	93	1.5	30
Cook Islands													
Costa Rica			•••		•••								
Côte d'Ivoire*	2006	40	84	2.1	44	29	95	3.3	66	47	87	1.8	40
Croatia						***							
Cuba													
Cyprus						***							
Czech Republic													
Democratic People's Republic of Korea													
Democratic Republic of the Congo	2007	63	91	1.4	28	59	98	1.7	39	59	89	1.5	29
Denmark													
Djibouti*	2006	40	95	2.3	54								

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Rural	Urban	Ratio urban-rural	Difference urban-rural	Lowest	Highest	Ratio highest-howest	Difference highest-lowest	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest	Rural	Urban	Ratio rural-urban	Difference rural-urban	Lowest	Highest	Ratio lowest-highest	Difference lowest-highest	Lowest	Highest	Ratio lowest-highest	
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87	85	1.0	-2	88	88	1.0	0	89	87	1.0	-3	99	55	1.8	44	116	31	3.7	85	134	44	3.1	
80	74	0.9	6	72	76	1.1	4		***					•••									
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77	79	1.0	3	70	82	1.2	13	64	91	1.4	27	111	76	1.5	35	127	43	3.0	84	136	53	2.6	
58	73	1.2	14	52	83	1.6	31	46	79	1.7	33	169	119	1.4	50	189	88	2.2	101	186	93	2.0	
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87	90	1.0	3				•••					44 199	53 126	0.8	9 73	223	112	2.0	111	187	107	1.7	
19	38	2.0	18	8	38	4.6	30	18	54	3.0	36	208	179	1.2	28	176	187	0.9	-11	200	143	1.4	
76	85	1.1	9	69	90	1.3	21	70	86	1.2	16	33	23	1.4	10	39	16	2.4	23	51	20	2.5	
57	76	1.3	20	49	84	1.7	36	44	75	1.7	31	136	108	1.3	28	135	85	1.6	51	202	101	2.0	
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78	94	1.2	16	69	98	1.4	29	80	95	1.2	16	•••							• • • •		•••		
												•••		••••									Ĩ
				51		 1.7	34	49	 77	1.6	28	177	122	1.5	55		 97	1.9	87	209	112	1.9	
56	73	1.3	17	51	85	1.7	34	43		1.0	20	1//	122	1.0	55	104		1.0	07	203	112	1.9	
												73	95	0.8	-22								

Member State	Year	-4			200 S 8	lirths atte	nded by sl	cilled healt	h personn	el ».0 (%)			
			Place of	residence-			Wealth	quintile		Edu	cational l	evel of mot	her*
		Rural	Urban	Ratio urban-rural	Difference urban-rural	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest
Dominica													
Dominican Republic	2007	94	96	1.0	2	89	98	1.1	9	86	97	1.1	12
Ecuador	0000												
Egypt	2008	72	90	1.2	18	55	97	1.8	42	60	87	1.5	28
El Salvador							1++						
Equatorial Guinea	0000												
Eritrea	2002	10	65	6.2	54	6	85	14.7	79	12	88	7.3	76
Estonia	2005											24.0	
Ethiopia	2005	3	45	16.6	42	1	27	29.7	26	2	58	24.0	55
Fiji			•••										
Finland										•••			•••
France													
Gabon	2000	69	93	1.3	24	67	97	1.4	30	84	93	1.1	9
Gambia*	2006	43	83	1.9	40	28	89	3.1	60	49	85	1.7	36
Georgia *	2005	98	99	1.0	1	95	99	1.0	3			***	+/+
Germany				***									
Ghana	2008	43	84	2.0	41	24	95	3.9	70	36	78	2.2	42
Greece													***
Grenada													
Guatemala													
Guinea	2005	26	81	3.1	55	15	87	6.0	73	33	84	2.6	51
Guinea-Bissau*	2006	27	69	2.6	42	19	79	4.0	59	28	80	2.9	52
Guyana *	2006	82	89	1.1	7	64	93	1.5	29				
Haiti	20052006	15	47	3.0	31	6	68	10.5	61	9	60	6.6	51
Honduras	2005-2006	50	90	1.8	40	33	99	3.0	65	37	96	.2.6	59
Hungary		***		499									
Iceland													
India	2005-2006	37	73	2.0	36	19	89	4.6	69	26	75	2.9	49
Indonesia	2007	63	88	1.4	25	44	96	2.2	52	31	87	2.8	56
Iran (Islamic Republic of)													
Iraq®	2006	78	95	1.2	17					79	96	1.2	17
Ireland													
Israel													
Italy													
Jamaica <sup>b</sup>	2005	94	99	1.0	4								
Japan	2000												
Jordan	2007	99	99	1.0	1	98	100	1.0	2	94	99	1.1	5
Kazakhstan*	2007	100	100	1.0	0	100	100	1.0	0				
Kenya	2008-2009	37	75	2.0	38	21	82	3.9	61	20	73	3.7	54
Kiribati	2000-2003	37	15		30	21	02		51	20	15	5.7	
Kuwait													
Kyrgyzstan*	2006		100	1.0	4	93	100	1.1	7				
			68	6.2	57	3	81	27.1	78	3			59
Lao People's Democratic Republic *	2006	11									63	18.5	
Latvia		•••				•••	***	••••			•••		
Lebanon	0000												
Lesotho'	2009	54	88	1.6	35	35	90	2.6	55	40	80	2.0	41
Liberia	2007	32	79	2.5	47	26	81	3.2	56	36	75	2.1	39
Libyan Arab Jamahiriya													
Lithuania													
Luxembourg													

		M	easles i	mmuniz	ation co	iverage a	mong	1-year-o	lds a.c (9	6)		-	Und	er-five n	nortality	rale = a	(probab	ility of c	lying by	age 5 p	er 1000	live bir	ths)
P	lace of i	esiden	e		Wealth	quintile		Educa	tional le	evel of m	nother*	P	lace of i	residenc	e		Wealth	quintile		Educat	itional le	evel of m	other
Rural	Urban	Ratio urban-rural	Difference urban-rural	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest	Rural	Urban	Ratio rural-urban	Difference rural-urban	Lowest	Highest	Ratio lowest-highest	Difference lowest-highest	Lowest	Highest	Ratio lowest-highest	Difference lowest-highest
 81	 78	1.0	3	 73	87	1.2	 14	53	 83	1.6	30	37	 37	1.0		 53	28	1.9	25	 57	29	2.0	28
		1.0	 0	 97	99	1.0	2			1.0		36	29	1.3		49		2.6	 30	44	26	1.7	18
***		***		1																			
19	94	1.2	 15	80	95	1.2	15	 77	96	12	 19	117	86	1.4	31	100	65	1.5	35	121	 59	2.1	6
32	65	2.0		 25	53	2.1	28	30	63	2.1	 33	135	98	1.4	37	130	92	1.4		139	 54	2.6	8
		2.0																					
										•••					***		***	***	***		***		
37	61	1.6	24	34	71	2.1	37	42	64	1.5	22	100	88	1.1	12	93	55	1.7	38	112	87	1.3	2
93	91	1.0	-3	95	91	1.0	-3	92	95	1.0	2	150 45	96 24	1.6 1.9	54 21	158	72	2.2	86	140	66	2.1	7.
										• • • •										100			
88	93	1.1	5	88	95	1.1	7	86	93	1.1		91	75	1.2	16	103	60	1.7	43	103	67	1.5	3
•••														•••						***			
49	55	1.1	6	42	57	1.4	15	48	68	1.4	20	204	133	1.5	71	217	113	1.9	104	194	92	2.1	10
72 96	83 95	1.2 1.0	11 -1	70 94	90 100	1.3 1.1	20 6	72	87	1.2	15	253 50	250 34	1.0 1.5	3 16						•••		
56	62	1.1	-1	50	67	1.1	17	52	68	1.3	16	114	78	1.5	36	125	55	2.3	70	123	65	1.9	
86	84	1.0	-2	85	86	1.0	0	81	86	1.1	5	43	29	1.5	14	50	20	2.5	30	55	20	2.8	3
54 73	72 82	1.3 1.1	18 10	40 63	85 85	2.1 1.3	45 22	41 49	80 83	2.0	39 34	94 60	61 38	1.5 1.6	33 22	118 77	39 32	3.0 2.4	78 46	106 94	49 38	2.2	50 50
60	76	1.3	16		•••			60	79	1.3	19	41	41	1.0	0					49	37	1.3	1
95	88	0.9	-7			**1						25	36	0.7	-11								
91	95	1.0	4	92	96	1.0		85	 95	1.1	10	27	22	1.2		30	27	1.1			•••	*1*	-
99	100	1.0	0	100	99	1.0	-1		55			43	30	1.4	12								
83	90	1.1	7	76	94	1.2	18	79	92	1.2	13	86	75	1.1	11	98	69	1.4	29	86	59	1.5	;
38	54	1.4	 17		 60	1.8	27	31		1.8	 24	50	35	1.4	15								
78	90	1.2		68	92	1.4	24							1.2	21	107	80	1.3	27	76	88	0.9	-
56	77	1.4	20	45	86	1.9	41	58	78	1.3	20	146	132	1.1	15	138	117	1.2	21	151	119	1.3	
											•••			•••						•••			

able

Member State	<u>(en</u> ir	-			В	irths atte	nded by sk	uilled healt	h personn	el *			
			Place of 1	residence			Wealth	quintile		Edu	cational le	vel of mot	her•
		Rural	Urban	Ratio urban-rural	Difference urban-rural	Lowest	Highest	Ratio highest-lowest	Difference highest-fowest	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest
Madagascar	2008-2009	39	82	2.1	42	22	90	4.1	68	23	76	3.3	53
Malawi	2004	53	84	1.6	31	47	85	1.8	38	43	83	2.0	41
Malaysia													
Maldives	2009	94	99	1.1	6	90	99	1.1	9	86	99	1.2	13
Mali	2006	38	80	2.1	42	35	86	2.5	51	44	92	2.1	48
Malta													
Marshall Islands													
Mauritania*	2007	39	90	2.3	51	21	95	4.6	75	45	92	2.0	47
Mauritius	2007							4.0					
Mexico													
Micronesia (Federated States of)											***		
Monaco													
Mongolia <sup>h</sup>	2005	99	100	1.0	1		100	1.0	2			•••	
	2005		100		2	98	100		3			•••	•••
Montenegro 27		98 40	85	1.0 2.2	46	30	95	1.0 3.2	66	49	94	1.9	46
Morocco	2003-2004				40		95		64		94	3.0	
Mozambique	2003	34	81	2.4		25		3.6		31			63
Myanmar													
Namibia	2006-2007	74	94	1.3	20	60	98	1.6	38	50	92	1.8	42
Nauru			•••			***							
Nepal	2006	19	52	2.8	33	5	58	12.0	53	11	53	4.7	41
Netherlands											***		
New Zealand							***				***		
Nicaragua	2001	83	97	1.2	13	78	99	1.3	22	77	98	1.3	21
Niger	2006	8	71	8.5	62	5	59	11.8	54	13	81	6.1	67
Nigeria	2008	28	65	2.4	38	8	86	10.3	. 77	12	77	6.6	65
Niue									***				
Norway													
Oman													
Pakistan	2006-2007	30	60	2.0	30	16	77	4.8	61	27	74	2.8	47
Palau													
Panama													
Papua New Guinea													
Paraguay													
Peru'	2009	61	94	1.5	33	54	100	1.9	46	55	93	1.7	39
Philippines	2008	98	99	1.0	1	97	100	1.0	2	90	99	1.1	10
Poland													
Portugat													
Qatar													
Republic of Korea													
Republic of Moldova #	2005	99	100	1.0	0	99	100	1.0	1	100	100	1.0	-1
Romania	2003		100					1.0				1.0	
Russian Federation											•••		
Rwanda	2007-2008	49	70	1.4	21	43	71	1.7	28	39		2.1	43
Saint Kitts and Nevis	2007-2008										82		
			•••										
Saint Lucia			***										
Saint Vincent and the Grenadines													
Samoa'	2009	78	94	1.2	17	66	95	1.4	29		•••		
San Marino													
Sao Tome and Principe	2008-2009	75	89	1.2	14	74	93	1.3	19	73	88	1.2	15
Saudi Arabia													

2200								1000		1 1 M	-		200					-					
PI	ace of r	esidenc	e		Wealth	quintile	1.2	Educa	tional le	vel of m	other*	F	lace of I	residenc	e.		Wealth	quintile	1	Educa	tional le	vel of m	
Rural	Urban	Ratio urban-rural	Difference urban-rural	Lawest	Highest	Ratio highest-lowest	Difference highest-lowest	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest	Rural	Urban	Ratio rural-urban	Difference rural-urban	lowest	Highest	Ratio lowest-highest	Ditference lowest-highest	Lowest	Highest	Ratio lowest-highest	Difference lowest-highest
68	87	1.3	20	51	91	1.8	40	48	87	1.8	39	84	63	1.3	21	105	48	22	58	98	54	1.8	4
78	87	1.1	9	67	88	1.3	21	72	94	1.3	22	164	116	1.4	48	183	111	1.6	72	183	86	2.1	9
95	94	1.0	-2	96	94	1.0	-2	90	95	1.1	5	28	23	1.2	5	28	21	1.4	8	47	12	3.8	3
66	76	1.2	10	68	78	1.2	11	66	90	1.4	24	234	158	1.5	76	233	124	1.9	110	223	102	2.2	12
+1+	***		***																				
79	72	0.9	-7	67	 79	1.2	12	70	80	1.1	10	127	114	1.1	14	144	87	1.6	57	118	89	1.3	2
		0.5																					
		***	142																				
•••		***	***						***								***	***					
86	90	1.0	4	88	91	1.0	3					69	31	2.2	38								
82	84	1.0	3	(83)	(78)	0.9	-4							***									
86	94	1.1	8	83	98	1.2	15	88	96	1.1	9	69	38	1.8	31	78	26	3.0	52	63	27	2.3	1
71	91	1.3	20	61	96	1.6	36	66	99	1.5	34	192	143	1.3	49	196	108	1.8	88	201	80	2.3	1.
82	86	1.0	4	70	95	1.4	25	57	91	1.6	34	76	60	1.3	16	92	30	3.1	63	79	54	1.5	
85	89	1.1	4	73	95	1.3	21	78	99	1.3	21	84	47	1.8	36	98	47	2.1	51	93	32	2.9	
				***			***													***	•••		
74	77	1.0	3	76	94	1.2	18	69	73	1.0	3	55	34	1.6	21	64	19	3.3	45	72	25	2.9	
42	72	1.7	30	32	74	2.3	41	43	84	2.0	42	231	139	1.7	91	206	157	1.3	49	222	92	2.4	1:
34	59	1.8	25	17	75	4.3	58	19	69	3.6	50	191	121	1.6	70	219	87	2.5	132	210	107	2.0	1
56	69	1.2	13	36	76	2.1	39	51	81	1.6	31	100	78	1.3	21	121	60	2.0	61	102	62	1.6	1
												***	***	147									-
																				***			
77 82	76 87	1.0	-2	75 71	79 91	1.0	3 20	65 33	77 89	1.2	12 57	35 46	21 28	1.7	14 19	34 59	17 17	2.0 3.4	17 41	135	30	4.5	1
	-	•••																					
***		***																		. 6.84			
92	88	1.0	-4	(91)	91	1.0	0					30	20	1.5	9	29	17	1.7	12				
	•••	+++										***											3
90		1.0		89	92	1.0		86	 95	1.1		142	 87	1.6	55	 161		1.9		174	43	4.0	1
30	92	1.0		89	92	1.0	3	86		1.1		142	8/	1.5		101	84	1.9		1/4	45	4.0	1
										•••		***											
67	48	0.7	-19	65	67	1.0	3					17	3	5.7	14	23	7	33	16	•••			
86	82	0.9	-4	79	84	1.1	5					69	74	0.9	-5	90	28	3.2	62	138	49	2.8	

Member State	Year	-			E	lirths atte	nded by sk	alled healt	h personn	iel ** (%)			
		1	Place of	residence		1	Wealth	quintile		Edu	cational le	evel of mol	ther*
		Rural	Urban	Ratio urban-rural	Difference urban-rural	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest
Senegal	2005	33	85	2.5	51	20	89	4.4	69	42	88	2.1	45
Serbiah	2005	99	99	1.0	0	98	100	1.0	2				
Seychelles	2005										***		
Sierra Leone	2008	33	67	2.0	34	28	71	2.5	43	36	73	2.0	37
Singapore	2000												
			***								***	•••	
Slovakia													
Slovenia						•••					•••		
Solomon Islands		***					***						
Somalia *	2006	15	65	4.5	51	11	77	7.2	66	25	73	3.0	48
South Africa1	2003	85	94	1.1	9		***	***			•••		
Spain													
Sri Lanka						***							
Sudan						***	***						
Suriname*	2006	82	95	1.2	13	81	96	1.2	15	75	95	1.3	20
Swaziland	2006-2007	70	88	1.3	18	51	92	1.8	42	57	84	1.5	27
Sweden					***				+1+				
Switzerland													
Syrian Arab Republic*	2006	88	98	1.1	9	78	99	1.3	21				
Tajikistan*	2005	81	89	1.1	8	70	91	1.3	21				
Thailand *	2005-2006	97	99	1.0	3	93	100	1.1	7	81	99	1.2	18
The former Yugoslav Republic of Macedonia*	2005-2006	98	98	1.0	0	95	100	1.0	5	89	100	1.1	11
Timor-Leste !	2009-2010	21	59	2.9	38	11	69	6.5	58	14	50	3.7	36
Togo"	2006	40	93	2.3	54	30	97	3.3	67	44	89	2.0	45
Tonga	2000												
Trinidad and Tobago Ph	2006				***	98	100	1.0	2				
Tunisia*	2006	***	•••	***	*** .					•••		•••	
Turkey'						***						•••	
	2003 2000	69 97	90	1.3	21	97							
Turkmenistan	2000	97	98	1.0	2		98	1.0	2	93	97	1.0	5
Tuvalu													
Uganda	2006	38	80	2.1	43	28	77	2.7	48	26	76	2.9	50
Ukraine	2007	98	99	1.0	1	97	99	1.0	2	100	99	1.0	-1
United Arab Emirates													•••
United Kingdom			•••							***			•••
United Republic of Tanzania	2004-2005	47	83	1.8	36	39	90	2.3	51	40	89	2.2	49
United States of America													
Uruguay				***	***	***				***			***
Uzbekistan*	2006	100	100	1.0	0	100	100	1.0	0				
Vanuatu **	2007	72	87	1.2	15	55	90	1.6	35	51	86	1.7	35
Venezuela (Bolivarian Republic of)													
Viet Nam*	2002	82	99	1.2	17	58	100	1.7	42	42	94	2.3	52
Yemen *	2006	26	62	2.3	35	17	74	4.3	57	27	61	2.3	34
Zambia	2007	31	83	2.7	52	27	91	3.4	64	24	73	3.1	49
Zimbabwe	2005-2006	58	94	1.6	36	46	95	2.1	49	35	81	2.3	46

1000					100	1.		1		1100		6278	22 10 52	Store 12				1000		1	1 - 1 - 1 - 1		1000
P	lace of	residenc	e		Wealth	quintile		Educa	tional le	evel of m	other	F	lace of	residenc	:e		Wealth	quintile	2.	Educa	tional le	vel of m	othe
Rural	Urban	Ratio urban-rural	Difference urban-rural	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest	Rural	Urban	Ratio rural-urban	Difference rural-urban	Lowest	Highest	Ratio lowest-highest	Difference lowest-highest	Lowest	Highest	Ratio lowest-highest	Difference Inwest_highest
71	17	11	6	71	± 81	1.1	10	69	95	1.4	26	160	91	1.8	69	183	64	2.8	119	152	60	2.5	5
89	85	1.0	-4	87	84	1.0	-3																
58	65	1.1	6	56	68	1.2	13	56	75	1.3	19	168	167	1.0	1	211	145	1.5	66	170	130	1.3	
											***	***			***		***						
										***										41	***		
											***						-		***				
23	40	1.8	17	22	47	2.1	25	24	48	2.0	25	136	134	1.0	2		***	***					
68	59	0.9	-9									57	51	1.1	6			***		+++	***		
																***	***						
						••••				***					***	***		++7		***	***		
				***										1.0				***	414				
80 91	82 95	1.0	2	89	93	1.0	4	80 84	82 93	1.0	3	39 105	38 107	1.0	1	118	101	1.2	17	150	95	1.6	
		1.0		03				04				105		1.0		110			-	130			
	***																				***		
91	94	1.0	3	89	97	1.1	9					24	19	1.3	5	22	20	11	2				
90	96	1.1	6	89	96	1.1	8					83	70	1.2	13								
96	96	1.0	0	96	99	1.0	3	90	96	1.1	6												
88	89	1.0	2	80	93	1.2	13	71	92	1.3	21	26	10	2.6	16								1
66	74	1.1	9	54	75	1.4	21	59	76	1.3	17	87	61	1.4	26	87	52	1.7	35				
61	67	1.1	6	57	72	1.3	15	50	82	1.6	32	143	73	2.0	70	150	62	2.4	88	145	64	2.3	
			+++																				
				(98)	(85)	0.9	-13				***												
97	99	1.0	2																				
69	84	1.2	15									50	30	1.7	20								
92	82	0.9	-10	91	80	0.9	-11	74	88	1.2	14	100	73	1.4	27	106	70	1.5	36	133	88	1.5	
								***					- 4.5										
67	77	11	10	66	73	1.1	7	64	82	1.3	18	147	115	1.3	32	172	108	1.6	64	164	91	1.8	
										•••	•••	20	19	1.1	1	23	9	2.7	15				
								***		***	***	•••				•••							
78	90	1.2	12	65	91	1.4	26	65	90	1.4	25	138	108	1.3	31	137	93	1.5	44	160	76	2.1	
	30	1.2	12	00	91		20	00		1.4	25	130		1.3		13/		1.3		100			
															1.5.4								-
98	97	1.0	0	97	98	1.0	1					59	51	1.2	8	72	42	1.7	30				
53	50	0.9	-3	41	(51)	1.2	10	(28)	49	1.7	21	32	27	1.2	5								
81	94	1.2	14	64	98	1.5	33	49	93	1.9	44	36	16	2.2	19.	53	16	3.3	37	66	29	2.3	
59	80	1.4	22	52	86	1.6	33	60	81	1.4	21	86	57	1.5	29	118	37	3.2	81				-
84	89	1.1	5	88	94	1.1	7	82	90	1.1	8	139	132	1.1	7	124	110	1.1	14	144	105	1.4	
63	72	1.1	8	54	74	1.4	20	30	71	2.3	41	72	64	1.1	8	72	57	1.3	15	69	68	1.0	

Member State	Year	-			M06.58	irths atte	nded by sl	killed heal	th personr	nel *,º (%)			
			Place of	residence			Wealth	quintile		Edu	icational I	evel of m	ther*
		Rural	Urban	Ratio urban-rural	Difference urban-rural	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest	Lowest	Highest	Ratio highest-lowest	Difference highest-lowest
RANGES OF COUNTRY VALUES													
Minimum		3	37			1	27			2	33		
Median		63	89			45	95			40	88		
Maximum		100	100			100	100			100	100		

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Rural	1000	L
Urban	Place of residence	
Ratio urban-rural	residen	3
Difference urban-rural	93	Measles immunization coverage among 1-yea-olds** (%)
Lowest		nmuniz
Highest	Wealth quintile	ation cov
Ratio highest-lowest	quintile	verage a
Difference highest-lowest		mong 1
Lowest	Educat	-year-ol
Highest	Educational level of mother	ds 34 (%
Ratio highest-lowest	vel of m	2
Difference highest-lowest	other*	
Rural	-70	1
Urban	Place of residence	Und
Ratio rural-urban	esidenc	er-five n
Difference rural-urban	e .	nortality
Lowest		ratead
Highest	Wealth quintile	2 (probabi
Ratio lowest-highest	quintile	O1 1 lity of d
Difference lowest-highest		ying by
Lowest	Educa	age 5 p
Highest	Educational level of mother <sup>e</sup>	2011 Under-five modality rate* (probability of dying by age 5 per 1000 live births)
Ratio lowest-highest	vel of m	live bin
Difference lowest-highest	nother*	(hs)

001 6. 18 84 88 61

8 38 70 86 100 100

18 48 98 99

22 7 112 59 233 187

... 44 12 ... ... 136 64 ... ... 223 143 ...

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