Mortality rates

BPS-Statistics Indonesia

Islamabad, Pakistan 18-20 September, 2017

Crude death rate

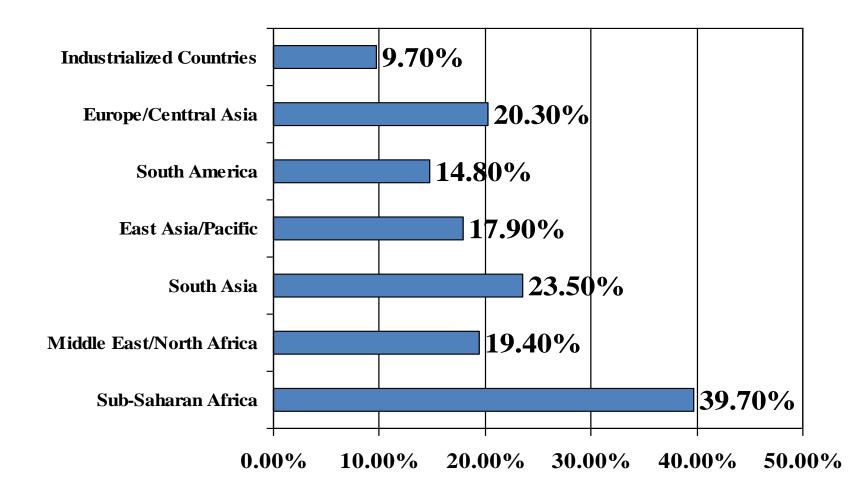
Total number of deaths in specific year and place

X 1000

Estimated mid year population of the same year and place

Adult Mortality Rates

(probability of death between ages 15 and 60)



Cause specific death rate

Number of deaths due to specific disease in specific year and place

X 1000

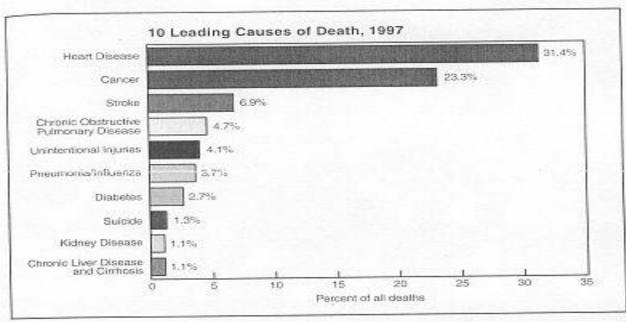
Estimated mid year population of the same year and place

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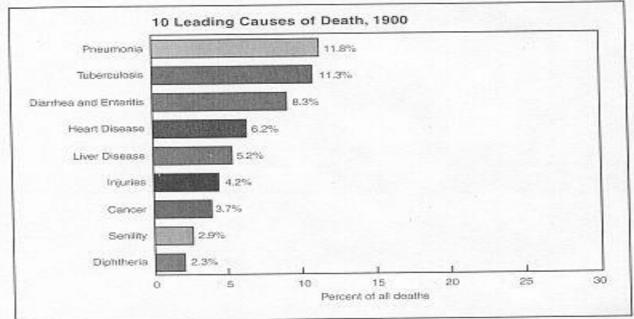




TABLE 1.3

CAUSES OF DEATH IN DEVELOPED AND DEVELOPING COUNTRIES, 1993

	Deaths from all Causes (%)		
Cause of Death	Developed Countries	Developing Countries	
Infectious and parasitic diseases	1.2	41.5	
Chronic lower respiratory diseases	7.8	5.0	
Malignant neoplasms	21.6	8.9	
Diseases of the circulatory system	46.7	10.7	
Maternal causes	0	1.3	
Perinatal and neonatal conditions	0.7	7.9	
External causes of mortality	7.5	7.9	
Other and unknown causes	14.5	16.8	

Source: WHO, 1995a.

be a better indicator. But this information is only available from surveys of limited temporal and geographic scope. Systems for registering cases of important communicable diseases, such as AIDS, yellow fever, leprosy, and cholera, exist in most countries. Annual data on cancer incidence are reported to the International Annual data on cancer incidence are reported to the International data on the Intern

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TABLE 2.3 ESTIMATED GLOBAL NUMBER OF DEATHS FROM INFECTIOUS AND PARASITIC DISEASES, 1993

Disease/Condition	Number of Deaths (thousands)
Acute lower respiratory infections under age 5 years	4110
Diarrhea under age 5, including dysentery	3010
Tuberculosis	2709
Malaria	2000
Measles	1160
Hepatitis B	933
AIDS	700
Whooping cough	360
Bacterial meningitis	210
Schistosomiasis	200
Leishmaniasis	197
Congenital syphilis	190
Tetanus	149
Hookworm diseases	90
Amochiasis	70
Ascariasis (roundworm)	60
African trypanosomiasis (sleeping sickness)	55
American trypanosomiasis (Chagas' disease)	45
Onchocerciasis (river blindness)	35
Meningitis	35
Rabies	35
Yellow fever	30
Dengue/dengue hemorrhagic fever	23
Japanese encephalitis	11
Foodborne trematodes	10
Cholera	6.8
Poliomyelitis	5.5
Diphtheria	3.9
Leprosy	2.4
Plague Plague	0.5
TOTAL	16,445

Source: WHO, 1995a.

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Statistical
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Spread of Water po typhoid f Inadequa poor hyg countries treatmen of prever lated hou influenza mal husb mans), e. tributes t malaria, trypanose are sites This com malaria Many ical areas ment is t survive it are malai However even tho disease in Envir may hav

Infant Mortality Rate

Number of deaths of children <one year In a given year and place.

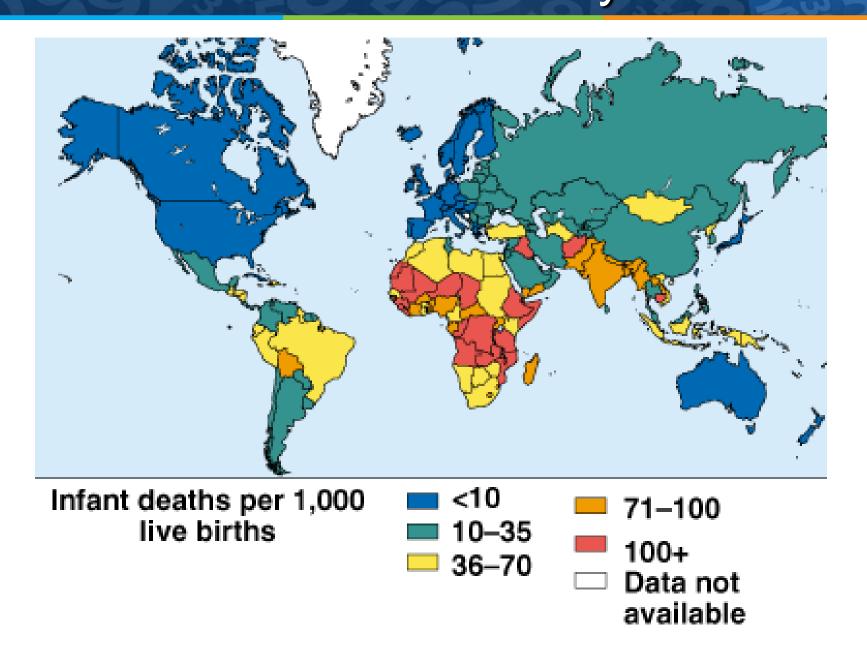
X1000

Total number of live births at the same Year and place



STATISTICS INDONESIA Infant Mortality Rates







Main Causes of Death

Disease or Condition	Proportion of Under- five Deaths	
Neonatal Illnesses	33%	
Diarrhea	22%	
Pneumonia	21%	
Malaria	9%	
AIDS	3%	
Measles	1%	
Other	9%	

Malnutrition is an underlying cause of 53% of all child deaths

Source: *The Lancet*. Vol.361, June 28, 2003

Causes of infant mortality

- birth defects have been the leading cause of infant mortality.
- Prematurity/low birthweight (LBW) was the second leading cause of infant mortality.
- sudden infant death syndrome.
- maternal pregnancy complications.
- respiratory distress syndrome

Infant mortality rate:

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total: 12.81 deaths/1,000 live births male: 14.71 deaths/1,000 live births female: 10.83 deaths/1,000 live births (2006 est.)
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Neonatal mortality rate

Number of deaths below 28 days of life During certain year and place

X 1000

Total number of live births in the same Year and place

Post neonatal mortality rate

Number of deaths 28 days to one year of life during certain year and place

X 1000

Total number of live births in the same Year and place

Neonatal Mortality Relative to Infant Mortality

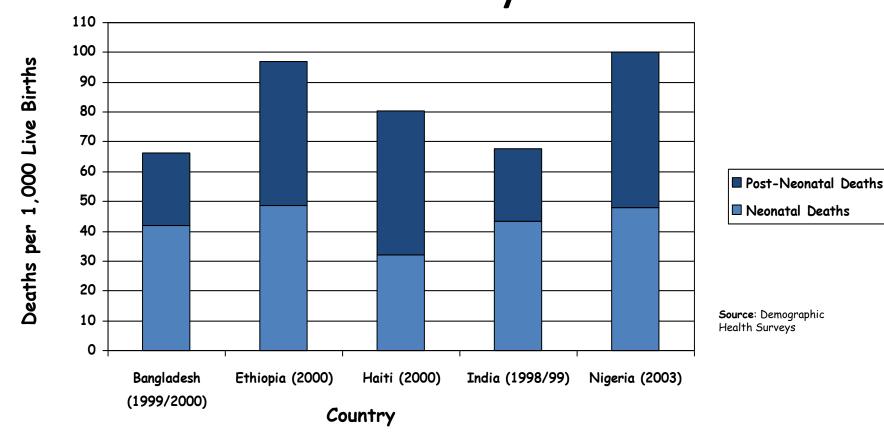


Table 1.1 Leading causes of death in children in developing countries, 2002

Rank	Cause	Numbers (000)	% of all deaths
1	Perinatal conditions	2 375	23.1
2	Lower respiratory infection	ns 1.856	18.1
3	Diarrhoeal diseases	1 566	15.2
4	Malaria	1 098	10.7
5	Measles	551	5.4
6	Congenital anomalies	386	3.8
7	HIV/AIDS	370	3.6
8	Pertussis	301	2.9
9	Tetanus	185	1.8
10	Protein-energy malnutritio	n 138	1.3
	Other causes	1 437	14.0
	Total	10 263	100

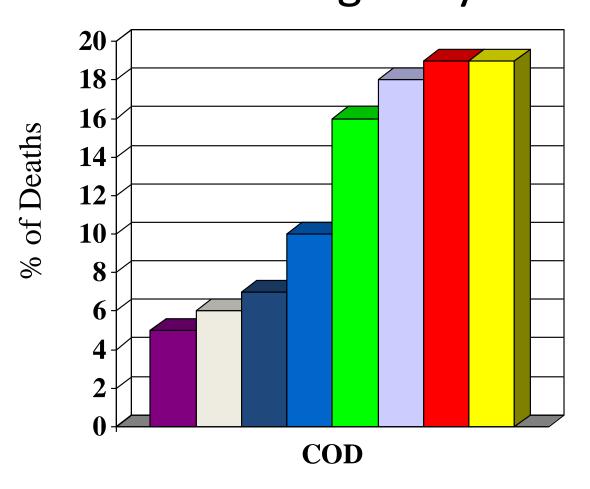
Preschool mortality rate

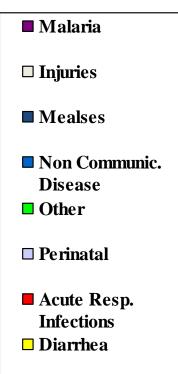
Number of deaths of children 1-4 year In a given year and place.

X 1000

Mid year population at the same Year and place

Causes of Death in the World Age<5 yrs





~11 Million Children Die/year

(70% From 5 Major Causes)

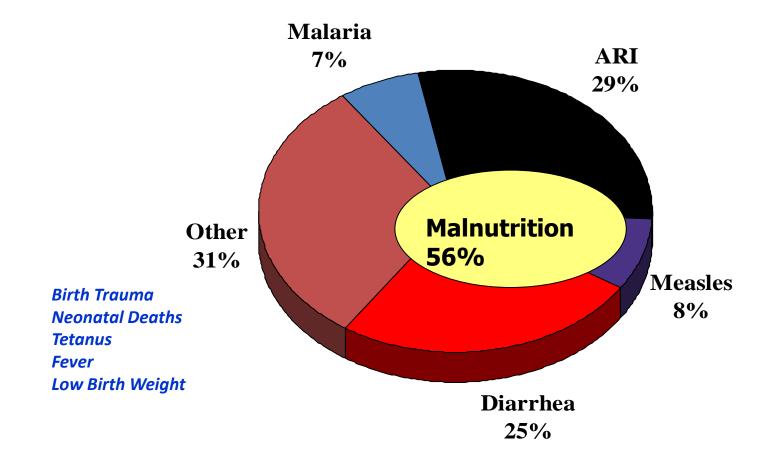
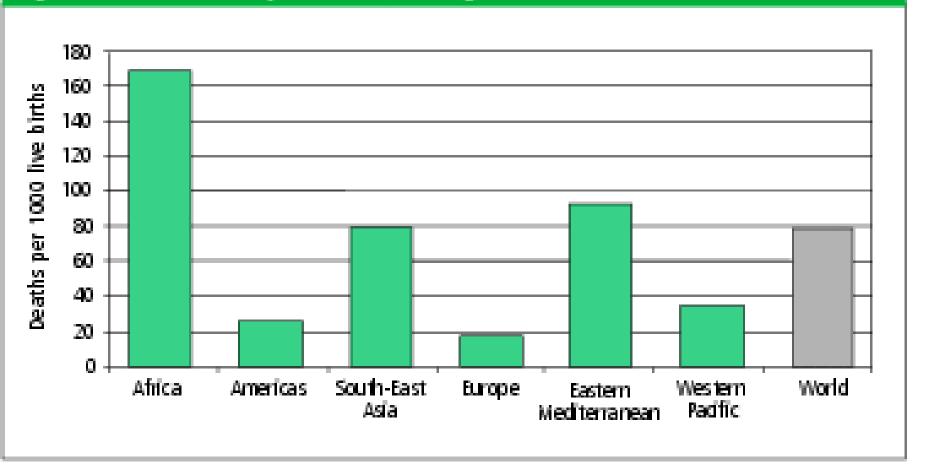
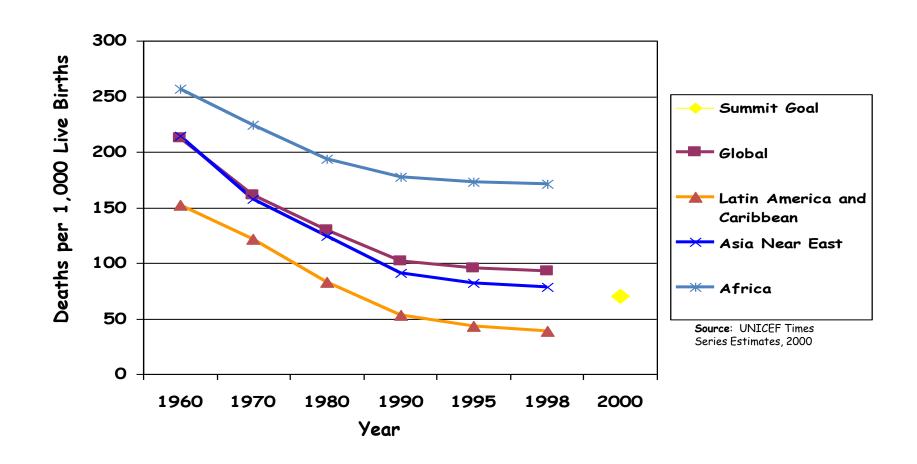


Figure 1.4 Child mortality in the six WHO regions, 2002.

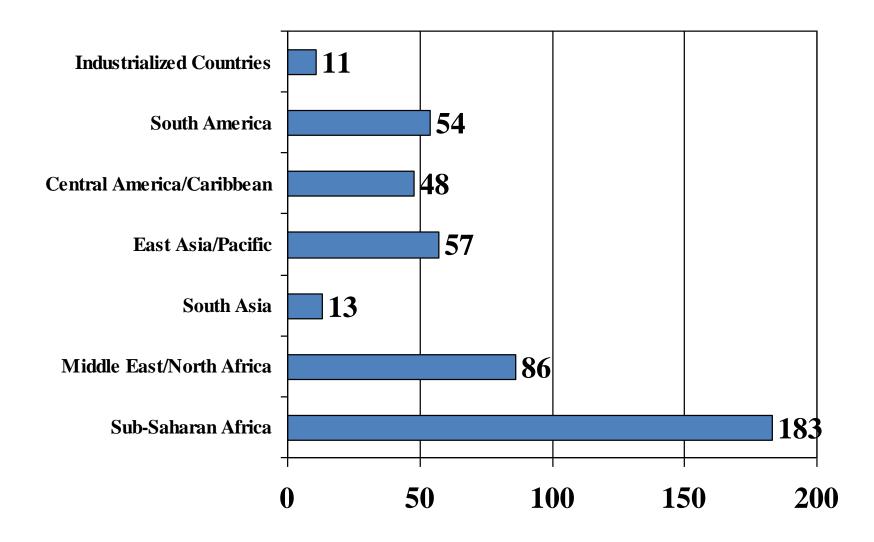


Under-Five Mortality Rate: Regional and Global Averages



Child Mortality Rates

(deaths of children under age five per 1,000 live births)



Current Situation

- Each year nearly 11 million children die before the age of five,30,000 every day, largely from preventable causes.
- 41% of these deaths occur in Africa, which has only 10
 % of the world's under-five population.
- 33% of all child deaths occur in the first month of life.

Maternal Mortality rate

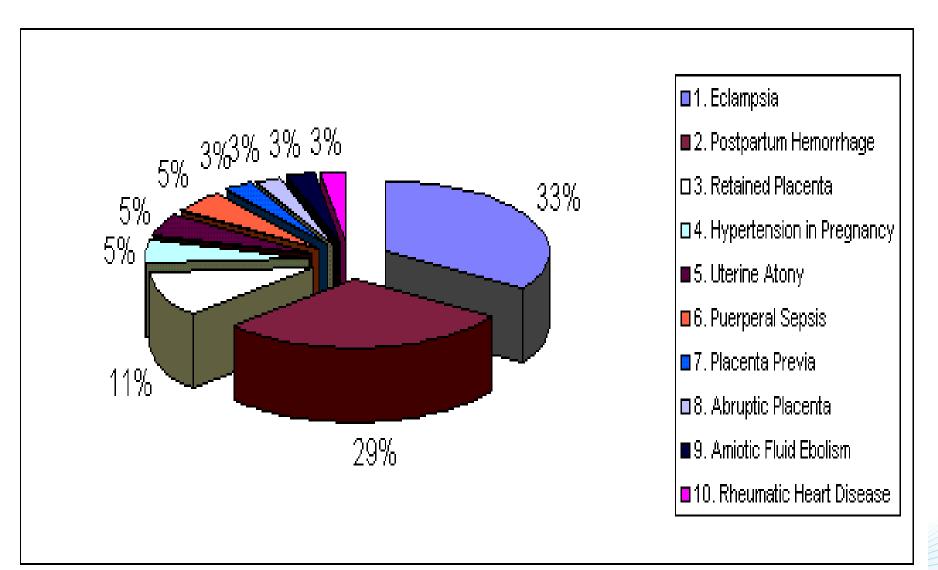
Number of maternal deaths associate with Pregnancy, delivery & puerperium during certain year and place

X 1000

Number of live births in the same year And place

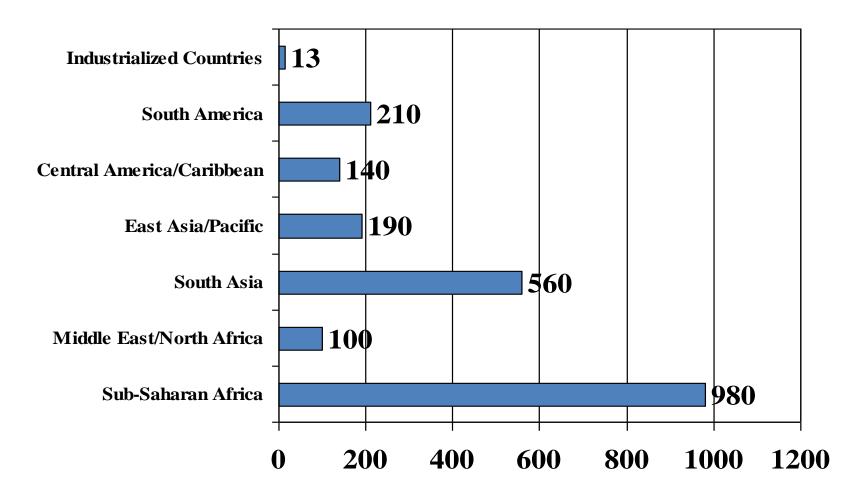
Maternal Mortality: Leading Causes

Percent Distribution 2001



Maternal Mortality Rates

(deaths 100,000 live births)



Still birth rate

Number of still births during specific year and place

X 1000

Total births during that year and place

Still birth ratio

Number of fetal deaths of 28 weeks of gestation or more in certain year and place

X 1000

Number of live births in the same year and place

- Placental problems. Placental abruption due to pre-eclampsia and smoking.
- Birth defects: between 5 and 10 percent of stillborn babies have abnormalities involving their chromosomes.
- **Growth restriction.** Babies who are small for gestational age.
- Infections. Bacterial infections are an important cause of fetal deaths that occur between 24 and 27 weeks of gestation.

Proportionate mortality rate

Number of deaths due to a particular cause during certain year and place

X 100

Total number of deaths due to all causes in the same year and place

Case fatality rate

Number of deaths due to a particular disease

X 100

Total number of cases of that disease



Thank you

Terima Kasih