

PHG Needs Assessment Calculator**Sudan****Health Services**

Welcome to the PHG Health Needs Assessment Calculator for Health Services. The contents of this file are listed below.

Full name of the sheet	Short name
Country demographic, maternal health and socioeconomic indicators	Demography
Country health-service data	HealthServices
Health services: Birth prevalence estimates for various congenital disorders	HSER-NA1

Sudan**Shared Data****Demographic, maternal health and socio-economic indicators**

Please read first! If you have already completed a needs assessment for a different topic in this country, you will be able to copy the Demography information from that Calculator into here. The information should be the same.

By default, the Toolkit contains information at the national level.

If you would like to use a different population, then replace country information with that of your specific population of interest.

Number of persons by age-group and sex	Estimates			Your estimates			Chosen estimates		
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4 years	425600	406800	832300			0			0
5-9 years	416500	390400	806900			0			0
10-14 years	444700	422300	867000			0			0
15-19 years	518800	493000	1011800			0			0
20-24 years	531600	522000	1053600			0			0
25-29 years	476500	487600	964100			0			0
30-34 years	397700	430800	828500			0			0
35-39 years	343700	370400	714000			0			0
40-44 years	338400	363600	702000			0			0
45-49 years	311200	312000	623300			0			0
50-54 years	265800	265500	531300			0			0
55-59 years	195000	200000	395000			0			0
60-64 years	132800	146100	278900			0			0
65+ years	362100	358200	720200			0			0
Total	5160400	5168700	10328900	0	0	0	0	0	0
Female population aged 15-44 years		2667400			-			-	
Data year	2008 reported in 2011								
Source, Year	UN 2011								

Ethnicity. Please enter data for the main ethnic groups if you are working with a population that is different from that of the country.

Ethnic group	Number	% population

Fertility and mortality	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
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Crude birth rate: live births (LB) / year / 1000 population	–	Unicef, 2013				
Still birth rate (SB): Still births (SB) / year / 1000 total births	23.86	WHO, 2009				
Total births in 1000s (LB+SB) per year	–	Unicef, 2013				
Infant mortality rate: infant deaths / 1000 LB / year	56.6	Unicef, 2013				
Under-5 mortality rate: U5 deaths / 1000 LB / year	86	Unicef, 2013				
Percentage births in women >35 years						
Life expectancy at birth (yrs)	–	Unicef, 2013				
% of marriages consanguineous						

Maternal health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Prenatal visits – at least 1 visit (%)	55.9	Unicef, 2013				
Prenatal visits – at least 4 visits (%)	47.1	Unicef, 2013				
Births attended by skilled health personnel (%)	23.1	Unicef, 2013				
Contraception prevalence rate (%)	9.0	Unicef, 2013				
Unmet need for family planning (%)						
Total fertility rate	–	Unicef, 2013				
% home births						
% births at health care services	20.50	Unicef, 2013				
Newborn health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of neonatal examinations by SBA / trained staff						
% neonatal examinations by SBA/ trained staff						

Socio-economic indicators	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Gross national income per capita (PPP int. \$)	–	Unicef, 2013				
% population living on < US\$1 per day		Unicef, 2013				
Birth registration coverage (%)	59.3	WHO 2010				
Death registration coverage (%)						

LB = live births

PPP = purchasing power parity

SBA = skilled birth attendant

Sudan**Shared Data****Health services data**

Please read first! If you have already completed a needs assessment for a different topic in this country, you will be able to copy the Health Services information from that Calculator into here. The information should be the same.

This section provides health-service-related information for your country.

By default, the Toolkit contains information at the national level.

If you would like to use a different population, then replace country information with that of your specific population of interest.

Health Expenditure	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Per capita total expenditure on health (PPP int. \$)	179.6	WHO 2011				
Total expenditure on health as percentage of GDP	8.4	WHO 2011				
Per capita government expenditure on health (PPP int. \$)	51	WHO 2011				
External resources for health as percentage of total expenditure on health	17.4	WHO 2011				
General government expenditure on health as percentage of total expenditure on health	28.4	WHO 2011				
Out-of-pocket expenditure as percentage of private expenditure on health	96.5	WHO 2011				
Private expenditure on health as percentage of total expenditure on health	71.6	WHO 2011				
General government expenditure on health as percentage of total government expenditure	10.6	WHO 2011				

Health Workforce	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of nursing and midwifery personnel	32439	WHO, 2008				
Nursing and midwifery personnel density (per 10,000 population)	8.4	WHO, 2008				
Number of physicians	10813	WHO, 2008				
Physician density (per 10 000 population)	2.8	WHO, 2008				
Number of obstetricians						
Number of paediatricians						
Number of paediatric surgeons						
Number of paediatric cardiac surgeons						
Number of paediatric neurosurgeons						
Number of clinical geneticists						
Number of genetic counsellors						
Number of community health workers						
Number of skilled birth attendants (SBA)						

Density of SBA						
Number of lab staff providing cytogenetic testing						
Number of lab staff providing molecular genetics						
Number of lab staff providing biochemical tests for genetics						
Number of skilled health attendants						

Infrastructure	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of maternity units						
Number of services providing specialised care for people with CD						
Number of family planning services						
Number of preconception services						
Number of services providing prenatal care						
Number of services providing newborn care						
Number of facilities providing genetic services						
Number of laboratories providing cytogenetics						
Number of laboratories providing molecular genetics						
Number of laboratories providing biochemical tests for genetics						
Number of facilities for safe terminations of pregnancies for fetal defects						

PPP = purchasing power parity

GDP = gross domestic product

SBA = skilled birth attendant

CD = congenital disorders

Sudan**Health services****Health services: Birth prevalence estimates for various congenital disorders**

Conditions	Global prevalence per 1000 LB	Country prevalence per 1000 LB	Country number of births annually
Down's syndrome			
Sex chromosomal disorders			
Chromosomal disorders (all)			
Congenital heart disease			
Neural tube defects			
Orofacial clefts			
Other malformations			
Malformations (all)			
Sickle cell disease			
Thalassaemias			
Haemoglobin disorders (all)			
Other recessive single gene disorders (SGD)			
Dominant SGD			
X-linked SGD			
All SGD of clinical significance			
Rhesus haemolytic disease			
G6PD deficiency			
Environmental causes (all)			
Unknown causes			

LB = live births