

PHG Needs Assessment Calculator
Rwanda
Teratogens

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

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(There is no sheet TER-NA2.)

Rwanda
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	655090	665141	1320231			0			0
5-9 years	563351	577688	1141039			0			0
10-14 years	536876	558349	1095225			0			0
15-19 years	526563	552276	1078839			0			0
20-24 years	382561	428120	810681			0			0
25-29 years	253180	302329	555509			0			0
30-34 years	208742	239697	448439			0			0
35-39 years	177816	204820	382636			0			0
40-44 years	168934	194133	363067			0			0
45-49 years	122615	145647	268262			0			0
50-54 years	86925	106457	193382			0			0
55-59 years	50480	73388	123868			0			0
60-64 years	45221	66588	111809			0			0
65+ years	101094	134472	235566			0			0
Total	0	0	8128553	0	0	0	0	0	0
Female population aged 15-44 years		0			-			-	
Data year	2002 reported in 2004								
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
Crude birth rate: live births (LB) / year / 1000 population	44	Unicef, 2007				
Still birth rate: still births (SB) / year / 1000 total births	23	WHO, 2009				
Total births in 1000s (LB+SB) per year	435	Unicef, 2007				
Infant mortality rate: infant deaths / 1000 LB / year	59	UNICEF				
Under-5 mortality rate: U5 deaths / 1000 LB / year	91	(2011), 2010				
Percentage births in women >35 years		(2011), 2010				
Life expectancy at birth (yrs)	59	WHO, 2009				
% of marriages consanguineous						

Maternal health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Prenatal visits – at least 1 visit (%)	96	WHO, 2008				
Prenatal visits – at least 4 visits (%)	24	WHO, 2008				
Births attended by skilled health personnel (%)	52	WHO, 2008				
Contraception prevalence rate (%)	36.4	WHO, 2008				
Unmet need for family planning (%)	37.9	WHO, 2005				
Total fertility rate	5.3	WHO, 2009				
% home births						
% births at health care services						
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. \$)	1110	WHO, 2008				
% population living on < US\$1 per day	76.6	WHO, 2000				
Birth registration coverage (%)	82	WHO, 2005				
Death registration coverage (%)						

LB = live births

PPP = purchasing power parity

SBA = skilled birth attendant

Rwanda
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. \$)	102	WHO, 2009				
Total expenditure on health as percentage of GDP	9.0	WHO, 2009				
Per capita government expenditure on health (PPP int. \$)	44	WHO, 2009				
External resources for health as percentage of total expenditure on health	53.2	WHO, 2009				
General government expenditure on health as percentage of total expenditure on health	43.2	WHO, 2009				
Out-of-pocket expenditure as percentage of private expenditure on health	44.4	WHO, 2009				
Private expenditure on health as percentage of total expenditure on health	56.8	WHO, 2009				
General government expenditure on health as percentage of total government expenditure	16.8	WHO, 2009				

Health Workforce	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of nursing and midwifery personnel	4050	WHO, 2005				
Nursing and midwifery personnel density (per 10,000 population)	4.5	WHO, 2005				
Number of physicians	221	WHO, 2005				
Physician density (per 10,000 population)	0.24	WHO, 2005				
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

Rwanda**Teratogens****Teratogenic risk factors for congenital disorders in women of reproductive age**

Risk factors	Proportion of women with risk factor	Qualitative assessment*	Variation	Source
Teratogen exposure: environmental, agricultural and occupational				
Exposure to teratogenic prescribed and non-prescribed medicines				
Syphilis				
Rubella susceptibility				
Rubella infection				
Other infections (e.g. CMV or HIV)				
Alcohol consumption				
Tobacco use				
Iodine deficiency				
Folate deficiency				
Other risk factors				
Obesity				
Diabetes				

* Complete if numerical data are unavailable. Use numbers from 1 to 5, where 1 = low importance and 5 = high importance.

Rwanda**Teratogens****Epidemiology teratogen associated congenital disorders**

Please enter data either for a specific teratogen or for congenital disorders caused by teratogens as a whole.

Table TER-NA1.2a Burden of disease in pregnancy, at birth and at population level			
	Chosen estimates		
Indicator	Number (n)	n/1000 TB	Range of prevalence (/1000 TB)
Annual affected live births (LB)			
Annual affected stillbirths (SB)			
Annual affected births (LB+SB)			
Annual affected persons (all age groups)			
Table TER-NA1.2b Mortality indicators			
	Chosen estimates		
Indicator	Number (n)	n/1000 LB	Range of prevalence (/1000 TB)
Annual overall mortality			
Annual neonatal mortality			
Annual infant mortality			
Annual under-5 mortality			
Mean life expectancy at birth among affected people			

TB = total births (live births + stillbirths)

Rwanda
Teratogens
TER Interventions 1:Effect of preconception screening and treatment

Baseline prevalence of teratogen-induced congenital disordersper 1000 total births (live + still)		
Variables		
Proportion of women reducing teratogen risk to safe levels during pregnancy		Range: 0 to 1
Effectiveness of interventions on the outcome		Range: 0 to 1
Results		
% prevalence reduction due to intervention per 1000 total births		0%
Final prevalence of teratogen-induced congenital disorders per 1000 births		0.000

Rwanda**Teratogens****TER Interventions 1: Effects of prenatal screening and pregnancy termination**

Assumption: prenatal services are equally used for cases which would lead to still births and live births.

This could overestimate the impact of ToP if in fact ToP is more likely for severe cases that would result in still birth.

Conversely, the impact of ToP could be underestimated if screening is only available to high-income women at lower risk.

100% specificity of prenatal diagnosis assumed.

Baseline prevalence, per 1000 TB (LB + SB)		See previous sheet. Use baseline either before or after interventions.
Variables		
Coverage of prenatal diagnosis		Range: 0 to 1
Choice of ToP in confirmed cases		Range: 0 to 1
Results		
% prevalence reduction due to PNS	0%	
Prevalence reduction due to PNS	0.000	
Final prevalence after PNS	0.000	

PNS = prenatal screening

ToP = termination of pregnancy

TB = total births (live births + still births)

Rwanda**Teratogens****TER Needs Assessment 3: Quantitative assessment of interventions**

Table TER-NA3a	Estimated prevalence in the absence of interventions for TER	
Indicator	Number (n)	Prevalence (n/1000)
Women of childbearing age at increased teratogenic risk		
Potential live births		
Potential still births		

Table TER-NA3b	Current situation in relation to interventions before pregnancy		
Intervention	Coverage (%)	Cases averted (n)	Cases averted/1000 TB
Effect of family planning, education			
Occupational health monitoring			
Environmental health monitoring			
Interventions to reduce risk			
Information on risks and exposures			
Overall effect			

Table TER-NA3c	Target situation in relation to interventions before pregnancy		
Intervention	Coverage (%)	Cases averted (n)	Cases averted/1000 TB
Effect of family planning, education			
Occupational health monitoring			
Environmental health monitoring			
Interventions to reduce risk			
Information on risks and exposures			
Overall effect			

Table TER-NA3d	Current situation in relation to interventions during pregnancy		
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 TB
Education on risks			
Targeted prenatal screening based on exposure			
Prenatal diagnosis			
Termination of pregnancy			
Maternal protection legislation			
Information on risks and exposures			
Overall effect			

Table TER-NA3e	Target situation in relation to interventions during pregnancy		
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 TB
Education on risks			
Targeted prenatal screening based on exposure			
Prenatal diagnosis			
Termination of pregnancy			
Maternal protection legislation			
Information on risks and exposures			
Overall effect			

Table TER-NA3f	Current situation in relation to interventions after birth		
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 LB
Effect of newborn screening			
Effect of newborn diagnosis			
Effect of clinical and related interventions			
Effect of social care and support			
Effect of education interventions			
Compensation legislation			
Overall effect			

Table TER-NA3g	Target situation in relation to interventions after birth		
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 LB
Effect of newborn screening			
Effect of newborn diagnosis			
Effect of clinical and related interventions			
Effect of social care and support			
Effect of education interventions			
Compensation legislation			
Overall effect			

Table TER-NA3h	Current and desired outcomes			
	Current situation		Target situation	
Indicator	Annual number (n)	Incidence (n/1000)	Annual number (n)	Incidence (n/1000)
Estimated affected pregnancies				
Live births (LB)				
Still births (SB)				
All births (LB+SB)				
Estimated population prevalence				
All age groups				
Estimated mortality / 1000 live births				
Neonatal deaths				
Infant deaths				
Under-5 deaths				

TB = total births (live births + still births)