PHG Needs Assessment Calculator Barbados Teratogens

Welcome to the PHG Health Needs Assessment Calculator for Teratogens. 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
Teratogenic risk factors for congenital disorders in women of reproductive age	TER-NA1.1
Epidemiology of birth defects caused by teratogens	TER-NA1.2
TER Interventions 1:Effect of preconception screening and treatment	TER-Interv1
TER Interventions 2:Effect of prenatal screening and pregnancy termination	TER-Interv2
TER Needs Assessment Calculator 3: Quantitative assessment of interventions	TER-NA3

(There is no sheet TER-NA2.)

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		timates Your estimates		Chosen estimates		ates	
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4 years	196801	185369	382170			0			0
5-9 years	196406	184970	381376			0			0
10-14 years	214858	202817	417675			0			0
15-19 years	233589	221315	454904			0			0
20-24 years	237898	232973	470871			0			0
25-29 years	254043	253136	507179			0			0
30-34 years	261907	263276	525183			0			0
35-39 years	286440	284503	570943			0			0
40-44 years	323426	319073	642499			0			0
45-49 years	321162	313731	634893			0			0
50-54 years	278357	271695	550052			0			0
55-59 years	240698	241142	481840			0			0
60-64 years	226156	231374	457530			0			0
65+ years	558825	749866	1308691			0			0
Total	3830566	3955240	7785806	C	0	0	0	0	0
Female population aged 15-44 years		1574276			-			-	
Data year		2010 report	ed 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
Crude birth rate: live births (LB) / year / 1000 population	10.86	Unicef, 2013				
Still birth rate: still births (SB) / year / 1000 total births	8.78	WHO, 2009				
Total births in 1000s (LB+SB) per year	3	Unicef, 2013				
Infant mortality rate: infant deaths / 1000 LB / year	17.7	Unicef, 2013				
Under-5 mortality rate: U5 deaths / 1000 LB / year	19.7	Unicef, 2013				
Percentage births in women >35 years						
Life expectancy at birth (yrs)	76.84	Unicef, 2013				
% of marriages consanguineous						

Maternal health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
	1000	11 1 6 0040	estimate	I Cai	estimate	I Gai
Prenatal visits – at least 1 visit (%)	100.0	Unicef, 2013				
Prenatal visits – at least 4 visits (%)	-	Unicef, 2013				
Births attended by skilled health personnel (%)	100	Unicef, 2013				
Contraception prevalence rate (%)	-	Unicef, 2013				
Unmet need for family planning (%)						
Total fertility rate	1.56	Unicef, 2013				
% home births						
% births at health care services	-	Unicef, 2013				
	Estimate	Source, Year	Your	Source,	Chosen	Source,
Newborn health			estimate	Year	estimate	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	Source, Year
Gross national income per capita (PPP int. \$)	18850	Unicef, 2013			
% population living on < US\$1 per day		Unicef, 2013			
Birth registration coverage (%)	>90	WHO 2007			
Death registration coverage (%)	90-100	WHO, 2006			

LB = live births

PPP = purchasing power parity

SBA = skilled birth attendant

Barbados 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. \$)	1600.3	WHO 2011				
Total expenditure on health as percentage of GDP	7.7	WHO 2011				
Per capita government expenditure on health (PPP int. \$)	1024.6	WHO 2011				
External resources for health as percentage of total expenditure on health	4.9	WHO 2011				
General government expenditure on health as percentage of total expenditure on health	64	WHO 2011				
Out-of-pocket expenditure as percentage of private expenditure on health	80.6	WHO 2011				
Private expenditure on health as percentage of total expenditure on health	36	WHO 2011				
General government expenditure on health as percentage of total government expenditure	10.9	WHO 2011				

		Source,	Your	Source,	Chosen	Source,
Health Workforce	Estimate	Year	estimate	Year	estimate	Year
Number of nursing and midwifery personnel	1311	WHO, 2005				
Nursing and midwifery personnel density (per 10,000 population)	48.6	WHO, 2005				
Number of physicians	489	WHO, 2005				
Physician density (per 10,000 population)	18.11	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			

		Source,	Your	Source,	Chosen	Source,
Infrastructure	Estimate	Year	estimate	Year	estimate	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 facillities for safe terminations of pregnancies for fetal defects						

PPP = purchasing power parity GDP = gross domestic product SBA = skilled birth attendant CD = congenital disorders

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				
lodine 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.

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 preg	nancy, at bir	th and at populati	on 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 6	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)

Teratogens

TER Interventions 1:Effect of preconception screening and treatment

Baseline prevalence of teratogen-induced congenital disordersper 1000 total births (live + still)		
Proportion of women reducing teral dialets to safe levels during		
pregnancy		Range: 0 to 1 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	

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. Us baseline either before devalence, per 1000 TB (LB + SB)		before or
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)

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)