PHG Needs Assessment Calculator	
Singapore	
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.)

Singapore 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		Yo	our estimat	es	Cho	sen estima	ates
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4 years	98890	95542	194432			0			0
5-9 years	110215	105460	215675			0			0
10-14 years	125271	119031	244302			0			0
15-19 years	134003	129747	263750			0			0
20-24 years	123942	123248	247190			0			0
25-29 years	131299	141340	272639			0			0
30-34 years	143048	155639	298687			0			0
35-39 years	156318	163706	320024			0			0
40-44 years	152995	156446	309441			0			0
45-49 years	163237	160222	323459			0			0
50-54 years	152721	150323	303044			0			0
55-59 years	124822	123874	248696			0			0
60-64 years	94796	97199	191995			0			0
65+ years	149576	188811	338387			0			0
Total	0	0	3771721	0	0	0	0	0	0
Female population aged 15-44 years		0			-			-	
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.

	<u> </u>		U
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	8	Unicef, 2007				
Still birth rate: still births (SB) / year / 1000 total births	2	WHO, 2009				
Total births in 1000s (LB+SB) per year	37	Unicef, 2007				
Infant mortality rate: infant deaths / 1000 LB / year	2	UNICEF				
Under-5 mortality rate: U5 deaths / 1000 LB / year	3	(2AQ111) 由于2010				
Percentage births in women >35 years		(2011), 2010				
Life expectancy at birth (yrs)	82	WHO, 2009				
% of marriages consanguineous						

	Estimate	Source, Year	Your	Source,	Chosen	Source,
Maternal health			estimate	Year	estimate	Year
Prenatal visits – at least 1 visit (%)						
Prenatal visits – at least 4 visits (%)						
Births attended by skilled health personnel (%)	99.7	WHO, 2007				
Contraception prevalence rate (%)						
Unmet need for family planning (%)						
Total fertility rate	1.3	WHO, 2009				
% home births						
% births at health care services						
	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						

					Chosen	Source,
Socio-economic indicators	Estimate	Source, Year	estimate	Year	estimate	Year
Gross national income per capita (PPP int. \$)	47970	WHO, 2008				
% population living on < US\$1 per day						
Birth registration coverage (%)	>90	WHO, 2008				
Death registration coverage (%)	75-89	WHO, 2008				

LB = live births

PPP = purchasing power parity

SBA = skilled birth attendant

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Singapore 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. \$)	2086	WHO, 2009				
Total expenditure on health as percentage of GDP	3.9	WHO, 2009				
Per capita government expenditure on health (PPP int. \$)	858	WHO, 2009				
External resources for health as percentage of total expenditure on health	0	WHO, 2009				
General government expenditure on health as percentage of total expenditure on health	41.1	WHO, 2009				
Out-of-pocket expenditure as percentage of private expenditure on health	94.1	WHO, 2009				
Private expenditure on health as percentage of total expenditure on health	58.9	WHO, 2009				
General government expenditure on health as percentage of total government expenditure	9.8	WHO, 2009				

Health Workforce	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of nursing and midwifery personnel	26792	WHO, 2009				
Nursing and midwifery personnel density (per 10,000 population)	59	WHO, 2009				
Number of physicians	8323	WHO, 2009				
Physician density (per 10,000 population)	18.33	WHO, 2009				
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.

	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 e	stimates	
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 teratogen sk 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	

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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 sh baseline either t after intervention	pefore 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	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 of	Current and desired outcomes		
	Current situation	Current 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 bi	rths			
Neonatal deaths				
Infant deaths				
Under-5 deaths				

TB = total births (live births + still births)