PHG Needs Assessment Calculator Albania Neural Tube Defects

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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		Cho	sen estim	ates	
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4 years	123046	112256	235302			0			0
5-9 years	132777	121016	253793			0			0
10-14 years	147958	138350	286308			0			0
15-19 years	161708	152228	313936			0			0
20-24 years	147905	147822	295727			0			0
25-29 years	113683	121575	235258			0			0
30-34 years	98976	107110	206086			0			0
35-39 years	101371	107753	209124			0			0
40-44 years	102083	104435	206518			0			0
45-49 years	107301	104187	211488			0			0
50-54 years	88893	84621	173514			0			0
55-59 years	72321	68722	141043			0			0
60-64 years	56104	53470	109574			0			0
65+ years	133370	150296	283666			0			0
Total	0	0	3161337	C	0	0	0	0	0
Female population aged 15-44 years		0			-			-	
Data year		2007 report	ed in 2008						
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	16	Unicef, 2007				
Still birth rate (SB): Still births (SB) / year / 1000 total births	5	WHO, 2009				
Total births in 1000s (LB+SB) per year	52	Unicef, 2007				
Infant mortality rate: infant deaths / 1000 LB / year	16	UNICEF				
Under-5 mortality rate: U5 deaths / 1000 LB / year	18	(2)10世元2010				
Percentage births in women >35 years		(2011), 2010				
Life expectancy at birth (yrs)	73	WHO, 2009				
% of marriages consanguineous						

	Estimate	Source, Year	Your	Source,	Chosen	Source,
Maternal health			estimate	Year	estimate	Year
Prenatal visits – at least 1 visit (%)	97	WHO, 2009				
Prenatal visits – at least 4 visits (%)	67	WHO, 2009				
Births attended by skilled health personnel (%)	99.3	WHO, 2009				
Contraception prevalence rate (%)	69.3	WHO, 2009				
Unmet need for family planning (%)	12.8	WHO, 2008				
Total fertility rate	1.9	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						

Socio-economic indicators	Estimate	Source, Year	Your estimate		
Gross national income per capita (PPP int. \$)	7520	WHO, 2008			
% population living on < US\$1 per day	<2.0	WHO, 2005			
Birth registration coverage (%)	99	WHO, 2009			
Death registration coverage (%)	50-74	WHO, 2004			

LB = live births PPP = purchasing power parity SBA = skilled birth attendant

Albania 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. \$)	582	WHO, 2009				
Total expenditure on health as percentage of GDP	6.9	WHO, 2009				
Per capita government expenditure on health (PPP int. \$)	238	WHO, 2009				
External resources for health as percentage of total expenditure on health	2.7	WHO, 2009				
General government expenditure on health as percentage of total expenditure on health	40.9	WHO, 2009				
Out-of-pocket expenditure as percentage of private expenditure on health	99.8	WHO, 2009				
Private expenditure on health as percentage of total expenditure on health	59.1	WHO, 2009				
General government expenditure on health as percentage of total government expenditure	8.4	WHO, 2009				

		Source,	Your	Source,	Chosen	Source,
Health Workforce	Estimate	Year	estimate	Year	estimate	Year
Number of nursing and midwifery personnel	12746	WHO, 2007				
Nursing and midwifery personnel density (per 10,000 population)	40.3	WHO, 2007				
Number of physicians	3626	WHO, 2007				
Physician density (per 10,000 population)	11.46	WHO, 2007				
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

Albania Neural Tube Defects NTD Epidemiology 1.1: Country epidemiology

Year of estimate	Epidemiological indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Live birth prevalence (LB) Stillbirth prevalence (SB) O.37 Total birth prevalence (LB+SB) All age groups 0.06 1 year olds 1-4 year olds 5-14 year olds 5-14 year olds 0.02 45+ year olds Number of cases by age group Anual live births All age groups 1 190	Year of estimate						
Stillbirth prevalence (SB) 0.37 Total birth prevalence (LB+SB) 1.45 All age groups 0.06 <1 year olds 0.42 1-4 year olds 0.10 5-14 year olds 0.02 45+ year olds 0.00 Number of cases by age group Annual live births 57 All age groups 190 <1 year olds 21 1-4 year olds 78 5-14 year olds 31 45+ year olds 31 45+ year olds 31 No. of cases by level of impairment No or minor disability 0 Moderate disability 0 Severe disability* 190 Mortality and morbidity Mean life expectancy (yrs) 22.8 No. deaths < 1yr 37 No. deaths < 5 yrs 41 Infant mortality / 1000 LB 0.68	Prevalence at birth and by age-group (/	1000)					
Total birth prevalence (LB+SB) All age groups 0.06 <1 year olds 0.42 1-4 year olds 0.10 15-44 year olds 0.00 45+ year olds 0.00 Mumber of cases by age group Annual live births All age groups 57 All age groups 41 year olds 51-4 year olds 57 All age groups 59 190 190 1-4 year olds 5-14 year olds 5-15 100 100 100 100 100 100 100	Live birth prevalence (LB)			1.08			
All age groups <1 year olds 1-4 year olds 0.42 1-5 year olds 0.10 15-44 year olds 0.00 15-44 year olds 0.00 15-49 year olds 0.00 Number of cases by age group Annual live births All age groups 190 190 1-4 year olds 1-4 year olds 1-4 year olds 1-4 year olds 1-5 78 1-4 year olds 1-5 14 year olds 1-6 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Stillbirth prevalence (SB)			0.37			
<1 year olds	Total birth prevalence (LB+SB)			1.45			
1-4 year olds	All age groups			0.06			
5-14 year olds 15-44 year olds 0.02 45+ year olds 0.00 Number of cases by age group Annual live births All age groups <1 year olds 1-4 year olds 57 All age groups <1 year olds 5-14 year olds 60 15-44 year olds 15-49 year olds	<1 year olds			0.42			
15-44 year olds	1-4 year olds			0.42			
45+ year olds	5-14 year olds			0.10			
Number of cases by age group	15-44 year olds			0.02			
Annual live births 57 All age groups 190 <1 year olds 21 1-4 year olds 78 5-14 year olds 60 15-44 year olds 31 45+ year olds 0 No. of cases by level of impairment No or minor disability 0 Moderate disability 0 Severe disability* 190 Mortality and morbidity Mean life expectancy (yrs) 22.8 No. deaths < 1yr No. deaths < 5 yrs No. deaths < 5 yrs Infant mortality / 1000 LB Set 190 All age groups 190 Call 190	45+ year olds			0.00			
Annual live births 57 All age groups 190 <1 year olds 21 1-4 year olds 78 5-14 year olds 60 15-44 year olds 31 45+ year olds 0 No. of cases by level of impairment No or minor disability 0 Moderate disability 0 Severe disability* 190 Mortality and morbidity Mean life expectancy (yrs) 22.8 No. deaths < 1yr No. deaths < 5 yrs No. deaths < 5 yrs Infant mortality / 1000 LB Set 190 All age groups 190 Call 190	Number of cases by age group						
<1 year olds				57			
1-4 year olds	All age groups			190			
5-14 year olds 60 15-44 year olds 0 45+ year olds 0 No. of cases by level of impairment No or minor disability 0 Moderate disability* 0 Severe disability* 190 Mortality and morbidity Mean life expectancy (yrs) 22.8 No. deaths < 1yr 37 No. deaths 1-4 yrs 37 No. deaths < 5 yrs 41 Infant mortality / 1000 LB 0 60 90 90 90 90 90 90 90 90 90 90 90 90 90	<1 year olds			21			
15-44 year olds 31 45+ year olds 0 No. of cases by level of impairment No or minor disability 0 Moderate disability* 0 Severe disability* 190 Mortality and morbidity Mean life expectancy (yrs) 22.8 No. deaths < 1yr	1-4 year olds			78			
No. of cases by level of impairment No or minor disability O Moderate disability O Severe disability* 190 Mortality and morbidity Mortality Mortality and morbidity Mortality and	5-14 year olds			60			
No. of cases by level of impairment No or minor disability 0 Moderate disability* 0 Severe disability* 190 Mortality and morbidity Mean life expectancy (yrs) 22.8 No. deaths < 1yr	15-44 year olds			31			
No or minor disability 0 Moderate disability 0 Severe disability* 190 Mortality and morbidity Mean life expectancy (yrs) 22.8 No. deaths < 1yr	45+ year olds			0			
Moderate disability 0 Severe disability* 190 Mortality and morbidity Mean life expectancy (yrs) 22.8 No. deaths < 1yr	No. of cases by level of impairment						
Severe disability* 190	No or minor disability			0			
Mortality and morbidity Mean life expectancy (yrs) 22.8 No. deaths < 1yr	Moderate disability			0			
Mean life expectancy (yrs) 22.8 No. deaths < 1yr	Severe disability*			190			
No. deaths < 1yr	Mortality and morbidity						
No. deaths 1-4 yrs 3 No. deaths < 5 yrs	Mean life expectancy (yrs)			22.8			
No. deaths < 5 yrs	No. deaths < 1yr			37			
Infant mortality / 1000 LB 0.68	No. deaths 1-4 yrs			3			
	No. deaths < 5 yrs			41			
Under-5 mortality / 1000 LB 0.75	Infant mortality / 1000 LB			0.68			
	Under-5 mortality / 1000 LB			0.75			
Years of life lost 7,069	Years of life lost			7,069			

LB = live births; SB = stillbirths * Severe disability is defined as: wheelchair dependence, needing help with transfers, continence care and daily living, mostly low IQ, kyphosis, pressure sores, epilepsy and visual defects (a few blind) (Oakeshott and Hunt 2003)

Albania Neural Tube Defects NTD Epidemiology 1.2: International comparison

Epidemiological indicator		Your chosen			
Live birth prevalence (LB)	Epidemiological indicator	estimates	Country	Region	World
Stillbirth prevalence (SB) 0.37 0.22 0.56 Total birth prevalence (LB+SB) 1.45 0.92 2.27 All age groups 0.06 <1 year olds 0.42 1-4 year olds 0.10 5-14 year olds 0.02 45+ year olds 0.00 Number of cases by age-group Annual live births 57 823 226,432 All age groups 190 9763 564261 <1 year olds 21 1-4 year olds 21 1-4 year olds 60 2586 243746 15-44 year olds 31 4842 193592 45+ year olds 0 19 404 No. cases by level of impairment No or minor disability 0 Mortality and morbidity 0 Mean life expectancy (yrs) 22.8 32.9 7.8	Prevalence at birth and by age-group (/1000 p	people)		(Europe, Central)	
Total birth prevalence (LB+SB)	Live birth prevalence (LB)		1.08	0.70	1.70
All age groups <1 year olds <1 year olds <1-4 year olds <0.42 <1-4 year olds <0.10 <15-14 year olds <0.00 <15-14 year olds <10.00 <15-14 year olds <15-14 year olds <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19-00 <19	Stillbirth prevalence (SB)		0.37	0.22	0.56
<1 year olds	Total birth prevalence (LB+SB)		1.45	0.92	2.27
1-4 year olds 0.42 5-14 year olds 0.10 15-44 year olds 0.00 45+ year olds 0.00 Number of cases by age-group Annual live births 57 823 226,432 All age groups 190 9763 564261 <1 year olds			0.06		
5-14 year olds 15-44 year olds 0.00 Number of cases by age-group Annual live births 57 823 226,432 All age groups	<1 year olds		0.42		
15-44 year olds	1-4 year olds		0.42		
A5+ year olds	5-14 year olds		0.10		
Number of cases by age-group	15-44 year olds		0.02		
Annual live births 57 823 226,432 All age groups 190 9763 564261 <1 year olds 21 1-4 year olds 60 2586 243746 15-44 year olds 31 4842 193592 45+ year olds 0 19 404 No. cases by level of impairment No or minor disability 0	45+ year olds		0.00		
All age groups 190 9763 564261 <1 year olds 21	Number of cases by age-group				
<1 year olds 1-4 year olds 5-14 year olds 60 2586 243746 15-44 year olds 60 2586 243746 15-44 year olds 31 4842 193592 45+ year olds No or minor disability No or minor disability Moderate disability Severe disability* Mortality and morbidity Mean life expectancy (yrs) No. deaths < 1yr No. deaths < 1yr No. deaths < 1yrs 37 438 182,680 No. deaths < 5 yrs 41 476 188,931 Infant mortality / 1000 LB Under-5 mortality / 1000 LB 0.75 0 21 22 31 32 33 34 36 6,250 188,931 188,931 1900 LB 0.68 0.75	Annual live births		57	823	226,432
1-4 year olds 78 2317 126519 5-14 year olds 60 2586 243746 15-44 year olds 31 4842 193592 45+ year olds 0 19 404 No. cases by level of impairment No or minor disability 0	All age groups		190	9763	564261
5-14 year olds 60 2586 243746 15-44 year olds 31 4842 193592 45+ year olds 0 19 404 No. cases by level of impairment No or minor disability 0	<1 year olds		21		
15-44 year olds 31 4842 193592 45+ year olds 0 19 404 No. cases by level of impairment No or minor disability Moderate disability* 0 0 Severe disability* 190 9763 564261 Mortality and morbidity Mean life expectancy (yrs) 22.8 32.9 7.8 No. deaths < 1yr	1-4 year olds		78	2317	126519
A5+ year olds	5-14 year olds			2586	243746
No. cases by level of impairment No or minor disability 0 Moderate disability* 0 Severe disability* 190 9763 564261 Mortality and morbidity Mean life expectancy (yrs) 22.8 32.9 7.8 No. deaths < 1yr	15-44 year olds		31	4842	193592
No or minor disability 0 Moderate disability 0 Severe disability* 190 9763 564261 Mortality and morbidity Mean life expectancy (yrs) 22.8 32.9 7.8 No. deaths < 1yr	45+ year olds		0	19	404
Moderate disability 0 564261 Severe disability* 190 9763 564261 Mortality and morbidity 22.8 32.9 7.8 No. deaths < 1yr					
Severe disability* 190 9763 564261 Mortality and morbidity Mean life expectancy (yrs) 22.8 32.9 7.8 No. deaths < 1yr					
Mortality and morbidity Mean life expectancy (yrs) 22.8 32.9 7.8 No. deaths < 1yr	Moderate disability		0		
Mean life expectancy (yrs) 22.8 32.9 7.8 No. deaths < 1yr	Severe disability*		190	9763	564261
No. deaths < 1yr	Mortality and morbidity				
No. deaths 1-4 yrs 3 38 6,250 No. deaths < 5 yrs	Mean life expectancy (yrs)			32.9	7.8
No. deaths < 5 yrs				438	182,680
Infant mortality / 1000 LB 0.68 Under-5 mortality / 1000 LB 0.75	No. deaths 1-4 yrs		3	38	6,250
Under-5 mortality / 1000 LB 0.75	No. deaths < 5 yrs			476	188,931
	Infant mortality / 1000 LB		0.68		
Years of life lost 7,069 95511 30210052	Under-5 mortality / 1000 LB		0.75		
	Years of life lost		7,069	95511	30210052

LB = live births * Severe disability is defined as: wheelchair dependence, needing help with transfers, continence care and daily living, mostly low IQ, kyphosis, pressure sores, epilepsy and visual defects (a few blind) (Oakeshott and Hunt 2003)

Neural Tube Defects

NTD Epidemiology 2.1: Data on affected pregnancies: Research studies

Study author, year, site	Sample size	Study quality and representativeness	Main findings

Based on the studies listed above (or in section NTD-E2.1 of the Tool), enter the best estimates for the prevalence of affected births and terminations in the country, and a range of values to reflect uncertainty or within-country variation.

If studies are not representative of the national population you may need to weight your data (see the Guide for explanation on weighting and help with the calculations).

Estimates for the total country/territory	Number of affected live births	LB prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			
Estimates for the total country/territory	Number of affected stillbirths	SB prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			
Estimates for the total country/territory	Number of terminations of pregnancy due to condition	ToP / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			

NTD Epidemiology 2.2: Data on affected pregnancies: Surveillance

Based on surveillance data, enter the best estimates for the prevalence of the condition in live births, stillbirths and pregnancy terminations in the country. Give a range of values to reflect uncertainty and within-country variation, and use comments for information on data quality, uncertainty and representativeness.

If studies are not representative of the national population you may need to weight your data (see the Guide for explanation on weighting and help with the calculations).

	Number of affected live births	Birth prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			

	Number of affected stillbirths	Stillbirth prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			

	Number of ToP due to condition	ToP / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			

NTD Epidemiology 2.3: Data on affected pregnancies: Other sources

	Source 1:	Source 2:	Notes
Enter year and source of data – use last year with information available.			
Basic Numbers			
Number of affected live births / year, from data source			
Total number of live births / year, from data source			
Number of affected still births / year, from data source			
Total number of stillbirths / year, from data source			
Number of ToP for affected fetus / year from data source			
Total number of affected births / year (live and still)		0	D
Total number of births / year, from data source		0	D
Total number of ToP / year, from data source			
Total number of women aged 15-44			
Live birth prevalence: recorded and estimated			
Recorded live birth prevalence	#DIV	/0! #DIV/0	!
(affected recorded live births / 1000 recorded total births)			
Estimated completeness of recording: what proportion of true affected live births in your data source			Range: 0 to 1
were recorded?			Trange: 0 to 1
Estimated coverage of recorded live births (number of recorded live births / total live births in country or territory)			Range: 0 to 1
Estimated live birth prevalence (recorded prevalence / completeness)	#DIV	/0! #DIV/0	!
Estimated true number of affected live births in data source (number of recorded affected live births / completeness)	#DIV	/0! #DIV/0	!
Estimated number of affected live births in total population (number of affected live births from data source / (coverage x completeness))	#DIV	/0! #DIV/0	!
Stillbirth prevalence: recorded and estimated			
Recorded stillbirth prevalence (affected recorded still births / 1000 recorded total births)	#DIV	/0! #DIV/0	!
Estimated completeness of recording: what proportion of true affected stillbirths in your data source were recorded?			Range: 0 to 1
Estimated coverage of recorded stillbirths (number of recorded still births / total still births in country or territory)			Range: 0 to 1
Estimated stillbirth prevalence (recorded prevalence / completeness)	#DIV	/0! #DIV/0	!
Estimated true number of affected stillbirths in data source (number of recorded affected still births / completeness)	#DIV	/0! #DIV/0	!

Estimated number of affected stillbirths in total population (number of affected still births from data	#DIV/0!	#DIV/0!
source / (coverage x completeness))		

ToP prevalence: recorded and estimated			
Recorded ToP prevalence (ToP in affected fetuses / 1000 women aged 15-44)	#DIV/0!	#DIV/0!	
Estimated completeness of recording: what proportion of true affected pregnancy terminations in your data source were recorded?			Range: 0 to 1
Estimated coverage of recorded ToP (number of recorded ToP / total ToP in country or territory)			Range: 0 to 1
Estimated ToP prevalence (recorded prevalence / estimated completeness)	#DIV/0!	#DIV/0!	
Estimated true number of ToP in data source (number of recorded ToP / completeness)	#DIV/0!	#DIV/0!	
Estimated number of ToP in total population (number of ToP from data source / (coverage x completeness))	#DIV/0!	#DIV/0!	

Based on the sources above, enter the best prevalence estimates for your population, and a range of values to reflect uncertainty of estimates and within country variation.

If studies are not representative of the national population you may need to weight your data (see the Guide for explanation on weighting and help with the calculations).

Estimates for the whole country/territory	Number of affected live births	LB prevalence / 1000 TB
Best estimate		
Lower estimate		
Higher estimate		
Estimates for the whole country/territory	Number of affected still births	SB prevalence / 1000 TB
Best estimate		
Lower estimate		
Higher estimate		
Estimates for the whole country/territory	Number of ToP due to condition	ToP /1000 TB
Best estimate		
Lower estimate		
Higher estimate		

Albania Neural Tube Defects NTD Epidemiology 2.4: Summary of affected pregnancies

Indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Number of annual affected live births			57			
Annual birth prevalence / 1000 TB			1.08			
Number of annual affected still births			19			
Stillbirth prevalence / 1000 TB/year			0.37			
Number of terminations of pregnancy in affected fetuses /year			0			
Affected ToP / 1000 TB			0.00			

If there are specific sub-types of condition, you can repeat this exercise below. However, you should consider (a) whether sub-types would have different implications for advocacy, and (b) whether a sub-type might require a full, specific needs assessment.

NTD Epidemiology 2.5: Sub-population variation in affected pregnancies

If the birth prevalence rates vary by population sub-group (e.g. geographically or by another factor), indicate any population groups with different prevalence estimates from the whole population and describe reasons for variation. If a group is substantially different from the general population, you may wish to conduct a needs assessment for that group alone.

Population sub- group	Number of affected live births	LB prevalence / 1000 TB	Reason for variation

Population sub- group	Number of affected stillbirths	SB prevalence / 1000 TB	Reason for variation

•	Number of ToP in affected pregnancies	ToP prevalence / 1000 TB	Reason for variation

NTD Epidemiology 3.1: Mortality data: Research studies

Source, year, site	Sample size	Study quality and representativeness	Main findings

Based on the studies above, enter the best estimates for the specific mortality by age-group e.g. infant, under-5s, etc., as appropriate, and a range of values to reflect uncertainty of estimates and within-country variation.

If studies are not representative of the national population you may need to weight your data (see the Guide for explanation on weighting and help with the calculations).

Mortality estimates	Number of deaths	Ratio (deaths / 1000 LB)	Comments
Neonatal group (<28 days)			
Best estimate			
Lower estimate			
Higher estimate			
Infant group (<1 year)			
Best estimate			
Lower estimate			
Higher estimate			
Under-5 group (<5 years)			
Best estimate			
Lower estimate			
Higher estimate			
Other age group:			
Best estimate			
Lower estimate			
Higher estimate			

LB = live births

NTD Epidemiology 3.2: Mortality data: Vital registration data

Fill in the blank cells based on your vital registration data.	
Enter year and source of data	
Registered data	
Total registered live births	
Registered condition-specific neonatal deaths (first 28 days of life)	
Registered condition-specific infant deaths (first year of life)	
Registered condition-specific under-5 deaths (first 5 years of life)	
Registered condition-specific neonatal mortality ratio	#DIV/0!
(condition-specific neonatal deaths / 1000 live births in the same year)	
Registered condition-specific infant mortality (condition-specific infant deaths / 1000 live births in the same year)	#DIV/0!
Registered condition-specific under-5 mortality (condition-specific under-5 deaths / 1000 live births in the same	#DIV/0!
year)	

Adjustment for under-ascertainment of cause of death and sub-registration of deaths: Enter estimates in the highlighted cells. It is not always possible to adjust the estimates, in which case you may give the value '1', accepting that the estimates in these cases will usually be biased towards low values. (Or you may move to the next section.) It is assumed that under-ascertainment is stable across age-groups; if ascertainment varies by age-group, you could use separate estimates for each age group.

Estimated completeness of recording: what proportion of deaths in affected persons were registered as such?		Range: 0 to 1
Population coverage: what proportion of the total country/territory population is covered by the vital registration?		Range: 0 to 1
Death ascertainment (population coverage x completeness)	0	
Estimated values for the total country/ territory population		
Estimated number of live births in total population	#DIV/0!	
Estimated number of neonatal deaths in total population (number of deaths registered in neonatal period / ascertainment)	#DIV/0!	
Estimated number of infant deaths in total population (number of deaths registered in first year of life / ascertainment)	#DIV/0!	
Estimated number of under-5 deaths in total population (number of deaths registered in under-5s / ascertainment)	#DIV/0!	
Estimated neonatal mortality ratio (estimated neonatal deaths / 1000 live births)	#DIV/0!	
Estimated infant mortality ratio (estimated infant deaths / 1000 live births)	#DIV/0!	
Estimated under-5 mortality ratio (estimated under-5 deaths / 1000 live births)	#DIV/0!]

NTD Epidemiology 3.3: Mortality data: Other sources

Source, year, site	Sample size	Data quality and representativeness	Main findings

Based on data from the sources above, enter estimates for the disease-specific deaths and mortality rates in your population.

If studies are not representative of the national population you may need to weight your data (see the Guide for explanation on weighting and help with the calculations).

	Neonatal mortal	ity	Infant mortality		Under-5 mortality	
Estimates for the total country/territory	Value	Ratio/1000 LB	Value	Ratio/1000 LB	Value	Ratio/1000 LB
Best estimate						
Lower estimate						
Higher estimate						

Albania Neural Tube Defects NTD Epidemiology 3.4: Summary mortality estimates

Indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Year of data collection						
Number of annual deaths in affected persons			41			
Number of annual live births (in 1000s)			53			
Number of annual affected neonatal deaths			26			
Number of affected neonatal deaths / 1000 LB			0.49			
Number of annual affected infant deaths			36			
Number of affected infant deaths / 1000 LB			0.68			
Number of annual affected under-5 deaths			40			
Number of affected under-5 deaths / 1000 LB			0.75			
Mean life expectancy at birth in affected people			22.8			\neg
Other indicators (e.g. survival following surgical procedure, etc)						

Albania Neural Tube Defects NTD Epidemiology 3.5: Sub-population variation in mortality

Age group: neonatal Population sub-group	Number of deaths in affected persons	Cause-specific, group-specific neonatal mortality ratio / 1000 LB	Reason for variation

Age group: infant	Number of deaths in	Cause-specific, group-specific infant	Reason for variation
Population sub-group	affected persons	mortality ratio / 1000 LB	

Age group: under 5	Number of deaths in	Cause-specific, group-specific	Reason for variation	
Population sub-group	affected persons	under-5 mortality ratio / 1000 LB		

Age group:	Number of deaths in	Cause-specific, group-specific	Reason for variation	
Population sub-group	affected persons	mortality ratio / 1000 population		

NTD Epidemiology 4.1: Population prevalence: Research studies

Study, year, site	Sample size	Study quality and representativeness	Main findings

Based on the studies above, enter the best estimates for population prevalence, and a range of values to reflect uncertainty of estimates and within-country variation.

If studies are not representative of the national population you may need to weight your data (see the Guide for explanation on weighting and help with the calculations).

	Prevalence / 1000 persons	Range	Comments
Best estimate			
Lower estimate			
Higher estimate			

NTD Epidemiology 4.2: Population prevalence: Other sources

Source, year, site	Data quality and representativeness	Main findings

Based on data from the sources above, enter estimates for the disease-specific deaths and mortality rates in your population.

If studies are not representative of the national population you may need to weight your data (see the Guide for explanation on weighting and help with the calculations).

	Prevalence / 1000 persons	Range	Comments
Best estimate			
Lower estimate			
Higher estimate		_	

NTD Epidemiology 4.3: Summary of population prevalence

Source of estimates	Estimated total population number of affected persons	Range	Estimated total population prevalence / 1000 persons	Range
1				
2				
3				
4				
5				
PHGDB				
Chosen estimates				

NTD Epidemiology 4.4: Sub-population prevalence variation

Population sub-group	Number of affected people	 Population prevalence per 1000 people	Reason for variation
		#DIV/0!	

If there are specific sub-types of condition, you can repeat this exercise (copy table and paste below). However, you should consider (a) whether sub-types would have different implications for advocacy, and (b) whether a sub-type might require a full, specific needs assessment.

Formula in column D: Number of affected people/ (Total number of people in population subgroup/1000)

Neural Tube Defects

NTD Interventions 1: Effect of folic acid fortification

This sheet allows you to estimate the potential reduction in NTD prevalence through fortification of food with folic acid. Please start by entering values reflecting your current situation. If you have no fortification programme, enter 0 for coverage. Below, you may adjust dosage and coverage levels to demonstrate the effects of different intervention scenarios.

Current situation		Notes
Present estimated NTD prevalence per 1000 TB		
Present dosage (ppm)		Range: 1.5 to 3
Present coverage of fortification		Range: 0 to 1
Baseline NTD prevalence per 1000 TB, with no folic acid fortification*		
Minimum prevalence NTD / 1000 births	0.9	This value is fixed at 0.9

Potential scenarios, based on your present situation		
Vary dosage (ppm)		Range: 1.5 to 3
Vary proportional population coverage		Range: 0 to 1
Estimated NTD prevalence with this scenario, per 1000 TB		<- Do not modify this cell!
Absolute prevalence reduction with this scenario, per 1000 TB		<- Do not modify this cell!

ppm = parts per million

TB = total births (live births + stillbirths)

 $\begin{array}{lll} \textbf{Formula in B13}: IF (B10="";"";IF (((B10-(1.07*B12)+(0.15*B11*B12))/(1-0.88*B12))) < B15;B15; ((B10-(1.07*B12)+(0.15*B11*B12))/(1-0.88*B12)))) \\ \textbf{Formula in B20}: IF (B13="";"IF (B13=0.9;0.9;IF ((1.07*B19+0.12*B13*B19-0.15*(IF (B18="";B11;B18))*B19+B13-B13*B19) < B15;B15; (1.07*B19+0.12*B13*B19-0.15*(IF (B18="";B11;B18))*B19+B13-B13*B19)))) \\ \textbf{Formula in B21}: IF (B20="";"";B13-B20) \end{array}$

See sheet NTD-Appx for explanation of regression.

^{*} Not considering the effects of other interventions on prevalence.

Neural Tube Defects

NTD Interventions 2: Effect of folic acid supplementation

This sheet allows you to estimate the potential reduction in NTD incidence through folic acid supplementation for pregnant women.

Please enter a value for population coverage of folic acid supplementation, to determine its potential effect.

Effect of supplementation (with no fortification)		Notes
Baseline prevalence with no folic acid intervention (per		This can be taken from the appropriate cell (baseline NTD prevalence) in
1000 TB)		sheet NTD-Interv1.
Maximum proportional reduction (assuming 100%		
coverage)	0.72	This value is fixed at 0.72
Population supplementation coverage		Range: 0 to 1
Actual proportional reduction	0	Maximum proportional reduction x Coverage
Actual prevalence reduction (per 1000 TB)	0.000	Baseline incidence x Actual proportional reduction
Minimum prevalence	0.9	This value is fixed at 0.9
		Baseline prevalence-((Maximum proportional reduction X Population
New prevalence		supplementation coverage) x Baseline prevalence)
% prevalence reduction	#DIV/0!	1 – (New prevalence/Baseline prevalence)
Absolute prevalence reduction (per 1000 TB)	0.000	Baseline prevalence- New prevalence
Final prevalence following supplementation	0.900	Cannot go below 0.9 / 1000 LB

Now you can see below the potential combined effect of folate fortification and supplementation:

Additional effect of supplementation, given fortification		This value can be changed.
	N	
	New prevalence	
After fortification		This value set in sheet NTD-Interv1
After supplementation		
After fortification and supplementation	0.000	Requires input in blank cells above ¹
% reduction	#DIV/0!	Requires input in blank cells above ²
Final prevalence after fortification and		
supplementation		

TB = total births (live births + stillbirths)

 $Otherwise\ use: (Baseline\ prevalence\ -\ new\ prevalence\ after\ fortification\ and\ supplementation)/baseline\ prevalence$

¹New Prevalence after fortification-(Additional effect of supplementation x Final prev. following supplemen.)

²If New prevalence after fortification < minimum prevalence then use (Baseline prev – min prevalence)/baseline prevalence)

Neural Tube Defects

NTD Interventions 3: Effect 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 stillbirth.

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.

		See previous two sheets. Use baseline either
Baseline prevalence, per 1000 TB (LB + SB)		before or after folic acid interventions.
Variables		
Coverage of prenatal screening		Range: 0 to 1
Proportion of screen-positive cases receiving diagnosis		Range: 0 to 1
Proportion of diagnosed cases ending in pregnancy termination		Range: 0 to 1
Results		
% prevalence reduction due to PND & pregnancy termination ¹	0%	
Prevalence reduction due to PND & pregnancy termination, per 1000 TB ² 0.000		
Final birth prevalence of NTDs after PND & pregnancy termination, per 1000 TB ³	0.000	

PNS = prenatal screening

ToP = termination of pregnancy

TB = total births (live births + still births)

¹Coverage of screening X Proportion of screen-positive cases receiving diagnosis x Proportion of cases ending in pregnancy termination

²% prevalence reduction due to PND and termination x Baseline prevalence

³Baseline prevalence – Prevalence reduction due to PND & termination

Neural Tube Defects

NTD Interventions 4: Combined effects of folic acid interventions and prenatal screening

This sheet will only work if the previous three sheets (NTD-Interv1, 2 3) have been completed.

Variables		Notes
		See e.g. Baseline prior to FA interventions in
Baseline prevalence (per 1000 TB)		sheet NTD-Interv1
Prevalence reduction through FA interventions (per 1000 TB)	0.000	Set in sheet NTD-Interv2
% prevalence reduction after folic acid ¹	#VALUE!	
Coverage of prenatal diagnosis	0	Set in sheet NTD-Interv3
Prevalence of pregnancy termination in confirmed cases	0	Set in sheet NTD-Interv3
Prevalence reduction through PNS	0.000	Set in sheet NTD-Interv3
% prevalence reduction due to PNS ²	0%	
Final prevalence after folic acid and PNS (per 1000 TB) ³	0.000	
Combined prevalence reduction (per 1000 TB) ⁴	0.000	
Combined % prevalence reduction ⁵	#VALUE!	

PNS = prenatal screening

TB = total births (live births + stillbirths)

FA = folic acid

¹Prevalence reduction through FA interventions/Baseline prevalence

²Coverage of prenatal diagnosis x Prevalence of pregnancy termination of confirmed cases

³Baseline prevalence = Prevalence reduction through FA interventions – Prevalence reduction through PNS

⁴Baseline prevalence – Final prevalence after folic acid and PNS

⁵1- (Final prevalence after folic acid and PNS/Baseline prevalence)

NTD Needs Assessment Calculator 1: Quantitative baseline

Table NTD-NA1a Burden of Neural Tube Defects in pregnancy, at birth and at population level

		Chosen estima	Notes	
Indicator	Number (n)	I .	Range of prevalence (/1000 TB)	
Annual affected live births (LB)	0	0	0	Drawn from sheet E2.4
Annual affected stillbirths (SB)	0	0	0	Drawn from sheet E2.4
Annual affected births (LB+SB)	0	0		Drawn from sheet E2.4
Annual affected persons (all age	0	0	0	Drawn from sheet E1.1
groups)		-		-

Table NTD-NA1b Neural Tube Defects mortality indicators

		Notes		
Indicator	Number (n)		Range of prevalence (/1000 TB)	
Annual overall mortality	0			Drawn from sheet E3.4
Annual neonatal mortality	0	0	0	Drawn from sheet E3.4
Annual infant mortality	0	0	0	Drawn from sheet E3.4
Annual under-5 mortality	0	0	0	Drawn from sheet E3.4
Mean life expectancy at birth among affected people	0		0	Drawn from sheet E3.4

TB = total births (live births + stillbirths)

NTD Needs Assessment Calculator 3: Quantitative assessment of interventions

	Estimated prevalence in the absence of interventions for Neural Tube Defects			
Indicator	Number (n)	Prevalence (n/1000)		
Potential live births				
Potential still births				

Table NTD-NA3b	Current situation in relation to interventions before birth					
Intervention	Coverage (%)	Cases averted (n)	Cases averted/1000 TB			
Effect of family planning, education						
Effect of folic acid fortification						
Effect of folic acid supplementation						
Effect of prenatal diagnosis						
Overall effect						

Table NTD-NA3c	Target situation in relation to interventions before birth				
Intervention	Coverage (%)	Cases averted (n)	Cases averted/1000 TB		
Effect of family planning, education					
Effect of folic acid fortification					
Effect of folic acid supplementation					
Effect of prenatal diagnosis					
Overall effect					

Table NTD-NA3d	Current situation in relation to interventions after birth					
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 TB			
Effect of newborn diagnosis						
Effect of surgical treatment						
Effect of social care and support						
Effect of rehabilitation						
Overall effect						

Table NTD-NA3e	Target situation in	Target situation in relation to interventions after birth					
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 TB				
Effect of newborn diagnosis							
Effect of surgical treatment							
Effect of social care and support							
Effect of rehabilitation							
Overall effect							

Table NTD-NA3f	Current and desired out	comes		
	Current situation		Target situation	
Indicator	Annual number (n)	Prevalence (n/1000)	Annual number (n)	Prevalence (n/1000)
Estimated affected pregnancies				
Live births (LB)	0	0		
Stillbirths (SB)	0	0		
Total births (LB+SB)	0	0		
Estimated population prevalence				
All age groups				
Estimated mortality / 1000 live birth	IS			
Neonatal deaths	0	0		
Infant deaths	0	0		
Under-5 deaths	0	0		

TB = total births (live births + stillbirths)

Neural Tube Defects

NTD Needs assessment appendix: Regression estimating effect of folic acid fortification

Data from Wald et al.¹ was used to create a regression. The following output, adapted from Stata, gives the basis for the formula used in cell B13 of sheet NTD-Interv1.

Due to the use of a limited data set, the regression is accurate within a limited range.

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regress incid baseline ppm

Output

Source	SS	df	MS	Number of obs = 12
Model	0.282	2	0.141	Prob > F = 0.0164
Residual	0.188	9		R-squared = 0.5991
				Adj R-squared = 0.5100
Total	0.470	11	0.043	Root MSE = .14468

incid	Coef.	Std. Err.	t	P> t	95% Conf.	Interval
baseline	0.121	0.071	1.69	0.12	-0.041	0.283
ppm	-0.154	0.047	3.25	0.010	-0.261	-0.047
_cons	1.072	0.164	6.52	0.000	0.700	1.444

Prevalence = (0.12 x baseline prevalence) - (0.15 x ppm) + 1.07

¹Wald NJ, Law MR, Morris JK, Wald DS. 2001.Quantifying the effect of folic acid. Lancet 358:2069-73.