PHG Needs Assessment Calculator Liechtenstein Neural Tube Defects

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(There is no sheet NTD-NA2.)

Note: The Calculator sheets already contain modelled estimates from the PHGDB; note that these estimates do not include NTD associated with chromosomal disorders and other structural malformations.

Demography

Liechtenstein 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	41689	40438	82127			0			0
5-9 years	48937	47416	96353			0			0
10-14 years	49841	48410	98251			0			0
15-19 years	54905	53675	108580			0			0
20-24 years	49006	48025	97031			0			0
25-29 years	50952	49969	100921			0			0
30-34 years	54126	55307	109433			0			0
35-39 years	45657	46573	92230			0			0
40-44 years	48359	48834	97193			0			0
45-49 years	49111	49337	98448			0			0
50-54 years	42427	43155	85582			0			0
55-59 years	35016	36796	71812			0			0
60-64 years	23450	26639	50089			0			0
65+ years	38216	54658	92874			0			0
Total	631692	649232	1280924	0	0	0	0	0	0
Female population aged 15-44 years		302383			-			-	
Data year		2010 reported	d 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

	Estimate	Source, Year	Your	Source,	Chosen	Source,
Crude birth rate Flevel is ransd (DB) rt glear / 1000			estimate	Year	estimate	Year
population	-	Unicef, 2013				
Still birth rate (SB): Still births (SB) / year / 1000 total births						
Total births in 1000s (LB+SB) per year	-	Unicef, 2013				
Infant mortality rate: infant deaths / 1000 LB / year	-	Unicef, 2013				
Under-5 mortality rate: U5 deaths / 1000 LB / year	-	Unicef, 2013				
Percentage births in women >35 years						
Life expectancy at birth (yrs)	-	Unicef, 2013				
% of marriages consanguineous						

	Estimate	Source, Year	Your	Source,	Chosen	Source,
Maternal health			estimate	Year	estimate	Year
Prenatal visits – at least 1 visit (%)	-	Unicef, 2013				
Prenatal visits – at least 4 visits (%)	-	Unicef, 2013				
Births attended by skilled health personnel (%)	-	Unicef, 2013				
Contraception prevalence rate (%)	-	Unicef, 2013				
Unmet need for family planning (%)						
Total fertility rate	_	Unicef, 2013				
% home births						
% births at health care services	-	Unicef, 2013				
Number of neonata <b>Newbainahaalsh</b> by SBA / trained	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
staff						
% neonatal examinations by SBA/ trained staff						

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

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

HealthServices

Liechtenstein 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. \$)						
Total expenditure on health as percentage of GDP						
Per capita government expenditure on health (PPP int. \$)						
External resources for health as percentage of total expenditure on health						
General government expenditure on health as percentage of total expenditure on health						
Out-of-pocket expenditure as percentage of private expenditure on health						
Private expenditure on health as percentage of total expenditure on health						
General government expenditure on health as percentage of total government expenditure						

		Source,	Your	Source,	Chosen	Source,
Health Workforce	Estimate	Year	estimate	Year	estimate	Year
Number of nursing and midwifery personnel						
Nursing and midwifery personnel density (per 10,000 population)						
Number of physicians						
Physician density (per 10,000 population)						
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 facillities for safe terminations of pregnancies for fetal defects						

PPP = purchasing power parity GDP = gross domestic product

SBA = skilled birth attendant

CD = congenital disorders

#### Liechtenstein Neural Tube Defects

NTD Epidemiology 1.1: Country epidemiology

Epidemiological indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Year of estimate						
Prevalence at birth and by age-group (/1	000)					
Live birth prevalence (LB)			0.85			
Stillbirth prevalence (SB)			0.20			
Total birth prevalence (LB+SB)			1.05			
All age groups						
<1 year olds						
1-4 year olds						
5-14 year olds						
15-44 year olds						
45+ year olds						
Number of cases by age group						
Annual live births			0			
All age groups						
<1 year olds						
1-4 year olds						
5-14 year olds						
15-44 year olds						
45+ year olds						
No. of cases by level of impairment						
No or minor disability						
Moderate disability						
Severe disability*						
Mortality and morbidity						
Mean life expectancy (yrs)			34.2			
No. deaths < 1yr			0			
No. deaths 1-4 yrs			0			
No. deaths < 5 yrs			0			
Infant mortality / 1000 LB			0.31			
Under-5 mortality / 1000 LB			0.60			
Years of life lost						

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)

#### Liechtenstein

Neural Tube Defects

NTD Epidemiology 1.2: International comparison

	Your chosen		Comparison	
Epidemiological indicator	estimates	Country	Region	World
Prevalence at birth and by age-group (/100	)0 people)		(Europe, Western)	I.
Live birth prevalence (LB)		0.85	0.24	1.38
Stillbirth prevalence (SB)		0.20	0.06	0.54
Total birth prevalence (LB+SB)		1.05	0.30	1.92
All age groups				
<1 year olds				
1-4 year olds				
5-14 year olds				
15-44 year olds				
45+ year olds				
Number of cases by age-group				
Annual live births		0	1,089	184,465
All age groups				
<1 year olds				
1-4 year olds				
5-14 year olds				
15-44 year olds				
45+ year olds				
No. cases by level of impairment				
No or minor disability				
Moderate disability				
Severe disability*				
Mortality and morbidity				
Mean life expectancy (yrs)		34.2	34.2	10.9
No. deaths < 1yr		0	394	156,571
No. deaths 1-4 yrs		0	367	11,826
No. deaths < 5 yrs		0	761	168,397
Infant mortality / 1000 LB		0.31	0.36	0.85
Under-5 mortality / 1000 LB		0.60	0.70	0.91
Years of life lost				

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)

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#### **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	ТоР / 1000 ТВ	Comments
Best estimate			
Lower estimate			
Higher estimate			

#### Liechtenstein Neural Tube Defects 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).

Estimates for the total country/territory	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			

Estimates for the total country/territory	Number of ToP due to condition	ТоР / 1000 ТВ	Comments
Best estimate			
Lower estimate			
Higher estimate			

## Liechtenstein Neural Tube Defects 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	0	
Total number of births / year, from data source	0	0	
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 (affected recorded live births / 1000 recorded total births)	#DIV/0!	#DIV/0!	
Estimated completeness of recording: what proportion of true affected live births in your data source were recorded?			Range: 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			1
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	#DIV/0!	#DIV/0!
from data 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	ТоР /1000 ТВ
Best estimate		
Lower estimate		
Higher estimate		

### Liechtenstein 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	6		0			
Annual birth prevalence / 1000 TB			0.85			
Number of annual affected still births	S		0			
Stillbirth prevalence / 1000 TB/year			0.20			
Number of terminations of pregnancy in affected fetuses /year						
Affected ToP / 1000 TB						

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.

### Liechtenstein Neural Tube Defects 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

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

#### Liechtenstein Neural Tube Defects 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

## Liechtenstein Neural Tube Defects 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 (condition-specific neonatal deaths / 1000 live births in the same year)	#DIV/0
Registered condition-specific infant mortality (condition-specific infant deaths / 1000 live births in the	#DIV/0
Registered condition-specific under-5 mortality (condition-specific under-5 deaths / 1000 live births in the same year)	#DIV/0

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		Range: 0 to
ምሁም Pupper ation coverage: what proportion of the total country/territory population is covered by the vital		Range: 0 to
Deaintration coverage x completeness)	0	
Estimated values for the total country/ territory population		1
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!	1
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!	!
stimated under-5 mortality ratio (estimated under-5 deaths / 1000 live births)	#DIV/0	

#### Liechtenstein Neural Tube Defects 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	I mortality Infant mortality		Under-5 mortalit	y	
Estimates for the total country/territory	Value	Ratio/1000 LB	Value	Ratio/1000 LB	Value	Ratio/1000 LB
Best estimate						
Lower estimate						
Higher estimate						

### Liechtenstein 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						
Number of annual live births (in 1000s)			0.37			
Number of annual affected neonatal deaths			0			
Number of affected neonatal deaths / 1000 LB			0.25			
Number of annual affected infant deaths			0			
Number of affected infant deaths / 1000 LB			0.31			
Number of annual affected under-5 deaths			0			
Number of affected under-5 deaths / 1000 LB			0.60			
Mean life expectancy at birth in affected			34.2			
<b>Denoi</b> qndicators (e.g. survival following surgical procedure, etc)						

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.

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

Age group: neonatal Population sub-group	Cause-specific, group-specific neonatal mortality ratio / 1000 LB	Reason for variation

Age group: infant Population sub-group	Cause-specific, group-specific infant mortality ratio / 1000 LB	Reason for variation

• • •	Cause-specific, group-specific under-5 mortality ratio / 1000 LB	Reason for variation

Age group: Population sub-group	Cause-specific, group-specific mortality ratio / 1000 population	Reason for variation

## Liechtenstein Neural Tube Defects 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			

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.

### Liechtenstein Neural Tube Defects 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			

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.

### Liechtenstein Neural Tube Defects 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				

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.

### Liechtenstein Neural Tube Defects 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)

NTD-Interv1

Liechtenstein

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 coveraç 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 Baseline NTD prevalence per 1000 TB, with no folic acid fortification*	Range: 0 to 1
Minimum prevalence NTD / 1000 births	0.9 This value is fixed at 0.9

Potential scenarios, based on your present situation		
Vary dosage (ppm)	F	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)

\* Not considering the effects of other interventions on prevalence.

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)))) 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)<B15;B15;(1.07\*B19+0.12\*B13\*B19-0.15\*(IF(B18="";B11;B18))\*B19+B13-B13\*B19)))) Formula in B21:IF(B20="";"";B13-B20)

See sheet NTD-Appx for explanation of regression.

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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 1000 TB)		This can be taken from the appropriate cell (baseline NTD prevalence) in 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
New prevalence		Baseline prevalence-((Maximum proportional reduction X Population 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.
	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 <sup>1</sup>
% reduction	#DIV/0!	Requires input in blank cells above <sup>2</sup>
Final prevalence after fortification and supplementation		

TB = total births (live births + stillbirths)

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

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

Otherwise use: (Baseline prevalence – new prevalence after fortification and supplementation)/baseline prevalence

#### Liechtenstein 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.

Baseline prevalence, per 1000 TB (LB + SB)		See previous two sheets. Use baseline either 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 <sup>1</sup>	0%	
Prevalence reduction due to PND & pregnancy termination, per 1000 TB <sup>2</sup> 0.000		
Final birth prevalence of NTDs after PND & pregnancy termination, per 1000 TB <sup>3</sup>	0.000	

**PNS = prenatal screening** 

ToP = termination of pregnancy

TB = total births (live births + still births)

<sup>1</sup>Coverage of screening X Proportion of screen-positive cases receiving diagnosis x Proportion of cases ending in pregnancy termination <sup>2</sup>% prevalence reduction due to PND and termination x Baseline prevalence

<sup>3</sup>Baseline prevalence – Prevalence reduction due to PND & termination

### Liechtenstein 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
Baseline prevalence (per 1000 TB)		See e.g. Baseline prior to FA interventions in sheet NTD-Interv1
Prevalence reduction through FA interventions (per 1000 TB)	0.000	Set in sheet NTD-Interv2
% prevalence reduction after folic acid <sup>1</sup>	<b>#VALUE!</b>	
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 <sup>2</sup>	0%	
Final prevalence after folic acid and PNS (per 1000 TB) <sup>3</sup>	0.000	
Combined prevalence reduction (per 1000 TB) <sup>4</sup>	0.000	
Combined % prevalence reduction⁵	<b>#VALUE!</b>	

PNS = prenatal screening

TB = total births (live births + stillbirths)

FA = folic acid

<sup>1</sup> Prevalence reduction through FA interventions/Baseline prevalence

<sup>2</sup> Coverage of prenatal diagnosis x Prevalence of pregnancy termination of confirmed cases

<sup>3</sup> Baseline prevalence = Prevalence reduction through FA interventions – Prevalence reduction through PNS

<sup>4</sup> Baseline prevalence – Final prevalence after folic acid and PNS

<sup>5</sup> 1- (Final prevalence after folic acid and PNS/Baseline prevalence)

## Liechtenstein Neural Tube Defects NTD Needs Assessment Calculator 1: Quantitative baseline

# Table NTD-NA1a Burden of Neural Tube Defects 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)	(	) (	C	Drawn from sheet E2.4
Annual affected stillbirths (SB)	(	0	) C	Drawn from sheet E2.4
Annual affected births (LB+SB)	(	0		Drawn from sheet E2.4
Annual affected persons (all age	(	0	0	Drawn from sheet E1.1
aroune)				

groups)

## Table NTD-NA1b Neural Tube Defects mortality indicators

	Chosen estimates			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)

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Neural Tube Defects

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	n in the second s				
Effect of folic acid fortification					
Effect of folic acid supplementation	n in the second s				
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 relation to interventions after birth				
Intervention	Coverage (%)	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)	C	C			
Stillbirths (SB)	C	C			
Total births (LB+SB)	C	C			
Estimated population prevalence	·				
All age groups					
Estimated mortality / 1000 live birth	IS		·		
Neonatal deaths	0	C			
Infant deaths	0	C			
Under-5 deaths	C	C			

TB = total births (live births + stillbirths)

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**Neural Tube Defects** 

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

Data from Wald et al.<sup>1</sup> 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.

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	0.021	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

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