PHG Needs Assessment Calculator Cameroon Orofacial Clefts

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(There is no sheet OFC-NA2.)

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

PHG FOUNDATION

Cameroon 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		Chosen es	timates
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4 years	154243	147378	301621			0			0
5-9 years	147824	141523	289347			0			0
10-14 years	151578	145131	296709			0			0
15-19 years	169224	162860	332084			0			0
20-24 years	167817	159963	327780			0			0
25-29 years	177710	168353	346063			0			0
30-34 years	174220	165057	339277			0			0
35-39 years	161115	152802	313917			0			0
40-44 years	177566	172117	349683			0			0
45-49 years	190596	186481	377077			0			0
50-54 years	187628	187229	374857			0			0
55-59 years	190137	193971	384108			0			0
60-64 years	197048	204664	401712			0			0
65+ years	391710	549331	941041			0			0
Total	2638416	2736860	5375276	0	0	0	0	0	0
Female population aged 15-44 years		981152			-			-	
Data year		2010 reporte							
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

- 1		
- 1		

Fertility and mortality	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Crude birth rate: live births (LB) / year / 1000 population	35.70	Unicef, 2013				
Still birth rate (SB): Still births (SB) / year / 1000 total births	25.57	WHO, 2009				
Total births in 1000s (LB+SB) per year	716	Unicef, 2013				
Infant mortality rate: infant deaths / 1000 LB / year	79.2	Unicef, 2013				
Under-5 mortality rate: U5 deaths / 1000 LB / year	127.2	Unicef, 2013				
Percentage births in women >35 years						
Life expectancy at birth (yrs)	51.61	Unicef, 2013				
% of marriages consanguineous						

Maternal health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Prenatal visits – at least 1 visit (%)	84.7	Unicef, 2013				
Prenatal visits – at least 4 visits (%)	-	Unicef, 2013				
Births attended by skilled health personnel (%)	63.6	Unicef, 2013				
Contraception prevalence rate (%)	23.4	Unicef, 2013				
Unmet need for family planning (%)	20.2	WHO, 2004				
Total fertility rate	4.41	Unicef, 2013				
% home births						
% births at health care services	61.20	Unicef, 2013				
Newborn health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of neonatal examinations by SBA / trained staff						
% neonatal examinations by SBA/ trained staff						

				Source,		Source,
Socio-economic indicators	Estimate	Source, Year	estimate	Year	estimate	Year
Gross national income per capita (PPP int. \$)	2360	Unicef, 2013				
% population living on < US\$1 per day	32.8	Unicef, 2013				
Birth registration coverage (%)	70.1	WHO 2006				
Death registration coverage (%)						

LB = live births

PPP = purchasing power parity

SBA = skilled birth attendant

Cameroon 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. \$)	127.9	WHO 2011				
Total expenditure on health as percentage of GDP	5.2	WHO 2011				
Per capita government expenditure on health (PPP int. \$)	39.8	WHO 2011				
External resources for health as percentage of total expenditure on health	4.3	WHO 2011				
General government expenditure on health as percentage of total expenditure on health	31.1	WHO 2011				
Out-of-pocket expenditure as percentage of private expenditure on health	94.5	WHO 2011				
Private expenditure on health as percentage of total expenditure on health	68.9	WHO 2011				
General government expenditure on health as percentage of total government expenditure	8.5	WHO 2011				

		Source,	Your	Source,	Chosen	Source,
Health Workforce	Estimate	Year	estimate	Year	estimate	Year
Number of nursing and midwifery personnel	26042	WHO, 2004				
Nursing and midwifery personnel density (per 10,000 population)	16	WHO, 2004				
Number of physicians	3124	WHO, 2004				
Physician density (per 10 000 population)	1.9	WHO, 2004				
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 specific 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 terminations of pregnancies for fetal defects						

PPP = purchasing power parity GDP = gross domestic product

SBA = skilled birth attendant

CD = congenital disorders

Cameroon
Orofacial Clefts
OFC 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)			0.39			
Stillbirth prevalence (SB)			0.01			
Total birth prevalence (LB+SB)			0.40			
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			271			
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)			8.2			
No. deaths < 1yr			157			
No. deaths 1-4 yrs			36			
No. deaths < 5 yrs			193			
Infant mortality / 1000 LB			0.23			
Under-5 mortality / 1000 LB			0.28			
Years of life lost						

LB = live births \*Repaired OFC, effective cure,\*\* Repaired OFC, residual problems, \*\*\*Unrepaired OFC (see background chapter)

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Orofacial Clefts
OFC Epidemiology 1.2: International comparison

Epidemiological indicator		Your chosen	Comparison		
Live birth prevalence (LB)  Stillbirth prevalence (SB)  0.01 0.01 0.01 0.01 0.01 0.01 Total birth prevalence (LB+SB) 0.40 0.37 0.90  All age groups <1 year olds 1-4 year olds 5-14 year olds 45- year olds 45- year olds 19- 44,478 119,796  All age groups 41,478 119,796  All age groups 42,148 43,148 44,478 45,148 45,498 45,498 45,498 46,498 46,498 47,498 48	Epidemiological indicator	estimates	Country	Region	World
Stillbirth prevalence (SB)   0.01   0.01   0.01   0.01     Total birth prevalence (LB+SB)   0.40   0.37   0.90     All age groups	Prevalence at birth and by age-group (/1000 people)			(Sub-Saharan Africa, West)	
Total birth prevalence (LB+SB)  All age groups	Live birth prevalence (LB)		0.39	0.36	0.89
All age groups <1 year olds 1-4 year olds 5-14 year olds 5-14 year olds 5-14 year olds  15-44 year olds 5-14 year olds  Number of cases by age-group  Annual live births  271	Stillbirth prevalence (SB)		0.01	0.01	0.01
<1 year olds 1-4 year olds 5-14 year olds 5-14 year olds 45+ year olds Number of cases by age-group Annual live births All age groups <1 year olds 1-4 year olds 1-4 year olds 5-14 year olds 5-14 year olds 5-14 year olds 5-14 year olds 15-44 year olds 15-44 year olds 16-47 year olds 17-48 year olds 18-49 year olds 19-49 year olds 19-40 year olds 1	Total birth prevalence (LB+SB)		0.40	0.37	0.90
1-4 year olds 5-14 year olds 15-44 year olds Mumber of cases by age-group Annual live births 271 4,478 119,796 All age groups <1 year olds 1-4 year olds 5-14 year olds 5-14 year olds 5-14 year olds 5-14 year olds 5-19 year olds 5-19 year olds 5-19 year olds 5-10 year olds 5-1	All age groups				
5-14 year olds 15-44 year olds 45+ year olds Number of cases by age-group Annual live births 271 4,478 119,796 All age groups <1 year olds 1-4 year olds 1-5-14 year olds 1-5-14 year olds 1-5-14 year olds 1-6-14 year olds 1-7-14 year olds 1-8-14 year olds 1-9-14	<1 year olds				
15-44 year olds 45+ year olds Number of cases by age-group Annual live births 271 4,478 119,796 All age groups <1 year olds 1-4 year olds 5-14 year olds 5-14 year olds 5-14 year olds 15-44 year olds 15-49 year olds 15-40 y	1-4 year olds				
Assess   A	5-14 year olds				
Number of cases by age-group  Annual live births  271  4,478  119,796  All age groups  <1 year olds  1-4 year olds  5-14 year olds  5-14 year olds  15-44 year olds  No. cases by level of impairment  No or minimum disability*  Moderate disability**  Severe disability***  Morality and morbidity  Mean life expectancy (yrs)  No. deaths < 1 yr  No. deaths < 1 yr  No. deaths < 5 yrs  No. deaths < 5 yrs  Infant mortality / 1000 LB  0.23  0.55  0.30  Under-5 mortality / 1000 LB  0.28  0.67  119,796  1	15-44 year olds				
Annual live births 271 4,478 119,796  All age groups <1 year olds 1-4 year olds 5-14 year olds 5-14 year olds 15-44 year olds 45+ year olds No. cases by level of impairment No or minimum disability* Moderate disability** Severe disability** Severe disability**  Mortality and morbidity  Mean life expectancy (yrs) No. deaths < 1 yr No. deaths < 1 yr No. deaths < 5 yrs No. deaths < 5 yrs 193 3,011 45,099 Infant mortality / 1000 LB 0.28 0.67 0.38	45+ year olds				
All age groups <1 year olds 1-4 year olds 5-14 year olds 5-14 year olds 45+ year olds No. cases by level of impairment No or minimum disability* Moderate disability** Severe disability*** Severe disability**  Mortality and morbidity Mean life expectancy (yrs) No. deaths < 1 yr No. deaths < 5 yrs No. deaths < 5 yrs Infant mortality / 1000 LB Under-5 mortality / 1000 LB  0 28 0 .67 0 .38	Number of cases by age-group				
<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 minimum disability* Moderate disability** Severe disability***  Mortality and morbidity Mean life expectancy (yrs) No. deaths < 1yr No. deaths < 1yr No. deaths 1-4 yrs No. deaths < 5 yrs Infant mortality / 1000 LB Under-5 mortality / 1000 LB  0.28 0.67 0.38	Annual live births		271	4,478	119,796
1-4 year olds 5-14 year olds 15-44 year olds 45+ year olds No. cases by level of impairment No or minimum disability* Moderate disability** Severe disability***  Mortality and morbidity  Mean life expectancy (yrs)  No. deaths < 1yr No. deaths 1-4 yrs No. deaths < 5 yrs Infant mortality / 1000 LB  0.28  0.67  0.38	All age groups				
5-14 year olds 15-44 year olds 45+ year olds No. cases by level of impairment No or minimum disability* Moderate disability** Severe disability***  Mortality and morbidity  Mean life expectancy (yrs)  Mean life expectancy (yrs)  No. deaths < 1yr  No. deaths 1-4 yrs  No. deaths 1-4 yrs  No. deaths < 5 yrs  No. deaths < 5 yrs  No. deaths < 5 yrs  No. deaths < 193  No. deaths < 193  No. deaths < 194  No. deaths < 194  No. deaths < 197  No. dea	<1 year olds				
15-44 year olds 45+ year olds No. cases by level of impairment No or minimum disability*  Moderate disability**  Severe disability***  Mortality and morbidity  Mean life expectancy (yrs)  No. deaths < 1yr  No. deaths 1-4 yrs  No. deaths 1-5 yrs  No. deaths < 5 yrs  Infant mortality / 1000 LB  Under-5 mortality / 1000 LB  0.28  0.28  0.67	1-4 year olds				
No. cases by level of impairment   No or minimum disability*	5-14 year olds				
No. cases by level of impairment         No or minimum disability*	15-44 year olds				
No or minimum disability*                 Moderate disability**                 Severe disability***                 Mortality and morbidity         Mean life expectancy (yrs)               8.2       8.9       28.60         No. deaths < 1yr	45+ year olds				
Moderate disability**       Severe disability***         Mortality and morbidity       Mean life expectancy (yrs)       8.2       8.9       28.60         No. deaths < 1yr	No. cases by level of impairment				
Severe disability****         Mortality and morbidity         Mean life expectancy (yrs)       8.2       8.9       28.60         No. deaths < 1yr	No or minimum disability*				
Mortality and morbidity         Mean life expectancy (yrs)       8.2       8.9       28.60         No. deaths < 1yr	Moderate disability**				
Mean life expectancy (yrs)       8.2       8.9       28.60         No. deaths < 1yr	Severe disability***				
No. deaths < 1yr	Mortality and morbidity				
No. deaths 1-4 yrs       36       557       8,789         No. deaths < 5 yrs	Mean life expectancy (yrs)		8.2	8.9	28.60
No. deaths < 5 yrs	No. deaths < 1yr		157	2,454	36,310
Infant mortality / 1000 LB       0.23       0.55       0.30         Under-5 mortality / 1000 LB       0.28       0.67       0.38			36	557	8,789
Under-5 mortality / 1000 LB 0.28 0.67 0.38	No. deaths < 5 yrs		193	3,011	45,099
			0.23	0.55	0.30
Vegra of life loot	Under-5 mortality / 1000 LB		0.28	0.67	0.38
Tedis of file lost	Years of life lost				

LB = live births \*Repaired OFC, effective cure,\*\* Repaired OFC, residual problems, \*\*\*Unrepaired OFC (see background chapter)

Cameroon

**Orofacial Clefts** 

OFC 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 OFC-E2.1 of the Tool), enter the best estimates for the prevalence of affected births and still births 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	Number of affected still	SB prevalence / 1000 TB	Comments
country/territory	births	·	
country/territory Best estimate	births		
	births		

TB = total births (live births + stillbirths)

OFC 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 and stillbirths 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	Comments
Best estimate			
Lower estimate			
Higher estimate			

Estimates for the total country/territory	Number of affected still births	Stillbirth prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			

TB = total births (live births + stillbirths); ToP = termination of pregnancy

OFC 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 stillbirths / year, from data source			
Total number of stillbirths / 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 women aged 15-44			
Live birth prevalence: recorded and estimated			
Recorded live birth prevalence (affected recorded live births / 1000 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			
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 still births in total population (number of affected still births 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 stillbirths	SB prevalence / 1000 TB
Best estimate		
Lower estimate		
Higher estimate		

TB = total births (live births + stillbirths); ToP = termination of pregnancy

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Orofacial Clefts
OFC Epidemiology 2.4: Summary of affected pregnancies

Indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Number of annual affected live births	\$		271			
Annual birth prevalence / 1000 TB			0.39			
Number of annual affected stillbirths	5		4			
Stillbirth prevalence / 1000 TB / year			0.01			

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.

TB = total births (live births + stillbirths); ToP = termination of pregnancy

OFC 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

TB = total births (live births + stillbirths)

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OFC 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			

OFC 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	#DIV/0!	
(condition-specific infant deaths / 1000 live births in the same year)		
Registered condition-specific under-5 mortality	#DIV/0!	
(condition-specific under-5 deaths / 1000 live births in the same 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		Range: 0 to 1
Population coverage: what proportion of the total country/territory population is covered by the vital		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	#DIV/0!	
Estimated number of infant deaths in total population (number of deaths registered in first year of life /	#DIV/0!	
Escentaieunant)ber of under-5 deaths in total population (number of deaths registered in under-5s /	#DIV/0!	
Estantaieuneethatal 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!	

OFC 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 mortality		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						

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OFC Epidemiology 3.4: Summary mortality estimates

Indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Year of data collection			0			
Number of annual deaths in affected persons						
Number of annual live births (in 1000s)			691			
Number of annual affected neonatal deaths			81			
Number of affected neonatal deaths / 1000 LB			0.12			
Number of annual affected infant deaths			157			
Number of affected infant deaths/ 1000 LB			0.23			
Number of annual affected under-5 deaths			193			
Number of affected under-5 deaths / 1000 LB			0.28			
Mean life expectancy at birth in affected			8.2			
Dtnolqndicators (e.g. survival following surgical procedure, etc)						

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OFC 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

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

			Reason for variation
Population sub-group	affected persons	under-5 mortality ratio / 1000 LB	

Age group:		, , ,	Reason for variation	
Population sub-group	affected persons	mortality ratio / 1000 population		

OFC Epidemiology 4.1: Population prevalence: Research studies

Study, year, site	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			

OFC 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			

OFC Epidemiology 4.3: Population prevalence summary

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				

OFC Epidemiology 4.4: Sub-population prevalence variation

Population sub-group	Number of affected people	Total number of people in population sub-group	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)

OFC Interventions 1: Effect of folic acid fortification\*

This sheet allows you to estimate the potential reduction in OFC 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 cover Below, you may adjust dosage and coverage levels to demonstrate the effects of different intervention scenarios.

Current situation	Notes
Present estimated OFC prevalence per 1000 TB	
Present dosage (ppm)	Range: 1.5 to 3
Present coverage of fortification	Range: 0 to 1
<sup>1</sup> Baseline OFC prevalence per 1000 TB, with no folic acid fortification**	

Potential scenarios, based on your present situation		
Vary dosage (ppm)		Range: 1.5 to 3
Vary proportional population coverage		Range: 0 to 1
Estimated reduction in OFCs through folic acid fortification, per 1000 TB <sup>2</sup>	0.000	Do not delete this value!
Resulting prevalence of OFCs after folic acid fortification, per 1000 TB	0.000	Do not delete this value!

ppm = parts per million

TB = total births (live births + still births)

The regression formula underlying the effect on neural tube defects is given in the NTD Calculator in this Toolkit.

<sup>\*</sup> The effect of folic acid on OFCs is assumed to be 25% of the effect on neural tube defects.

<sup>\*\*</sup> Not considering the effects of other interventions on prevalence.

<sup>&</sup>lt;sup>1</sup>(Present estimated prevalence-(1.07\*coverage\*0.25)+(0.15\*ppm\*coverage\*0.25))/(1-0.88\*coverage\*0.25)))

<sup>&</sup>lt;sup>2</sup>((0.25\*(Baseline OFC-(1.07\*coverage+0.12\*baseline OFC\*coverage-

<sup>0.15\*</sup>dosage\*coverage+baseline-baseline\*coverage))))

<sup>&</sup>lt;sup>3</sup>Baseline OFC prevalence – estimated reduction in OFC after fortification

**OFC Interventions 2: Effect of folic acid supplementation** 

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 OFC prevalence) in sheet OFC-Interv1.
Maximum proportional reduction (assuming 100% coverage)	0.18 This value is fixed at 0.18
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

New prevalence		Baseline prevalence with no intervention - ((Maximum prop. Reduction x Pop. Supp. Coverage) X Baseline prevalence)
% prevalence reduction	#DIV/0!	1-(New prevalance/Baseline prevalence)
Absolute prevalence reduction (per 1000 TB)	0.000	Baseline prevalence – New prevalence

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

Additional effect of supplementation, given	This value can be changed.
fortification	

	New prevalence	
		This can be taken from the appropriate cell
After fortification		(resulting OFC prevalence) in sheet OFC-Interv1.
After supplementation	0.000	Requires input in blank cells above
After fortification and supplementation <sup>1</sup>		Requires input in blank cells above

TB = total births (live births + still births)

**OFC** = orofacial clefts

<sup>1</sup>Prevalence after fortification-(Additional effect of supplementation\*prevalence after supplementation)

OFC Interventions 3: Effect of newborn diagnosis and treatment

Baseline birth prevalence of orofacial clefts, per 1000 LB		
Variables		1
Coverage of newborn screening		Range: 0 to 1
Proportion of positive-screened patients receiving treatment		Range: 0 to 1
Effectiveness of treatment		Range: 0 to 1
Results		
Proportional reduction of prevalence of untreated OFCs through NBS and treatment <sup>1</sup>	0	
Prevalence of untreated OFCs after newborn screening and treatment, per 1000 LB <sup>2</sup>	0	

LB = live births
OFCs = orofacial clefts
NBS = newborn screening

<sup>1</sup>Coverage of newborn screening X Proportion of screen-positive cases receiving treatment X Effectiveness of treatment

<sup>2</sup>Baseline birth prevalence – (Proportional reduction of untreated cases of OFC X Baseline birth prevalence)

**OFC Needs assessment 1: Quantitative baseline** 

Table OFC-NA1a Burden of Orofacial Clefts in pregnancy, at birth and at population level

	Chosen estimates			Notes
Indicator	Number (n)	n/1000 total births	Range of prevalence	
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 OFC-NA1b Orofacial Clefts mortality indicators

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

**OFC Needs assessment 3: Quantitative assessment of interventions** 

Table OFC-NA3a	Estimated prevalence in the absence of interventions for Orofacial Clefts		
Indicator	Number (n) Prevalence (n/1000)		
Potential live births			
Potential stillbirths			

Table OFC-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 multivitamin and folic						
<b>Effe</b> ct of prenatal diagnosis						
Overall effect						

Table OFC-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 multivitamin and folic					
<b>Effe</b> ct of prenatal diagnosis					
Overall effect					

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

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

Table OFC-NA3f	<b>Current and desired out</b>	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		
All births (LB+SB)	0	0		
Estimated population prevalence				
All age groups				
Estimated mortality				
Neonatal deaths	0	0		
Infant deaths	0	0		
Under-5 deaths	0	0		