PHG Needs Assessment Calculator Republic of Montenegro 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.

Intro

Republic of Montenegro 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	157167	149210	306377			0			0
5-9 years	152184	145942	298126			0			0
10-14 years	161805.5	153408.5	315214			0			0
15-19 years	166436	156392	322828			0			0
20-24 years	158927.5	153337.5	312265			0			0
25-29 years	157294.5	152812	310106.5			0			0
30-34 years	162847	156469.5	319316.5			0			0
35-39 years	182984.5	174686.5	357671			0			0
40-44 years	188968	178783	367751			0			0
45-49 years	174083.5	164500	338583.5			0			0
50-54 years	163029.5	156702.5	319732			0			0
55-59 years	150527	146501.5	297028.5			0			0
60-64 years	147239	144556	291795			0			0
65+ years	320307.5	412150.5	732458			0			0
Total	2443801	2445451.5	4889252	0	0	0	(	) 0	0
Female population aged 15-44 years		972480.5			-			-	
Data year		2010 report	ed in 2011						
Source, Year			UN 2011						

Ethnicity. Please enter data for the main ethnic groups if you are working with a population that is different from that of the country.

Ethnic group	Number	% population

Fertility and mortality	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Crude birth rate: live births (LB) / year / 1000 population	12.15	Unicef, 2013				
Still birth rate (SB): Still births (SB) / year / 1000 total births	3.20	WHO, 2009				
Total births in 1000s (LB+SB) per year	8	Unicef, 2013				
Infant mortality rate: infant deaths / 1000 LB / year	6.5	Unicef, 2013				
Under-5 mortality rate: U5 deaths / 1000 LB / year	7.2	Unicef, 2013				
Percentage births in women >35 years						
Life expectancy at birth (yrs)	74.57	Unicef, 2013				
% of marriages consanguineous						

Maternal health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Prenatal visits – at least 1 visit (%)	97.4	Unicef, 2013				
Prenatal visits – at least 4 visits (%)	-	Unicef, 2013				
Births attended by skilled health personnel (%)	100	Unicef, 2013				
Contraception prevalence rate (%)	39.4	Unicef, 2013				
Unmet need for family planning (%)						
Total fertility rate	1.64	Unicef, 2013				
% home births						
% births at health care services	100.00	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						

Socio-economic indicators	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Gross national income per capita (PPP int. \$)	13720	Unicef, 2013				
% population living on < US\$1 per day		Unicef, 2013				
Birth registration coverage (%)	97.9	WHO 2005-				
Death registration coverage (%)	90-100	<b>WHO,2005</b> 8				

LB = live births

PPP = purchasing power parity

SBA = skilled birth attendant

Republic of Montenegro 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. \$)	1253.6	WHO 2011				
Total expenditure on health as percentage of GDP	9.3	WHO 2011				
Per capita government expenditure on health (PPP int. \$)	839.7	WHO 2011				
External resources for health as percentage of total expenditure on health		WHO 2011				
General government expenditure on health as percentage of total expenditure on health	67	WHO 2011				
Out-of-pocket expenditure as percentage of private expenditure on health	91	WHO 2011				
Private expenditure on health as percentage of total expenditure on health	33	WHO 2011				
General government expenditure on health as percentage of total government expenditure	13.6	WHO 2011				

Health Workforce	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of nursing and midwifery personnel	3442	WHO, 2007				
Nursing and midwifery personnel density (per 10,000 population)	55.4	WHO, 2007				
Number of physicians	1233	WHO, 2007				
Physician density (per 10 000 population)	19.86	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 appression			
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

## Republic of Montenegro Orofacial Clefts OFC Epidemiology 1.1: Country epidemiology

Stillbirth prevalence (SB)       0.0082425       Image groups         All age groups       0.55       Image groups          0.55       Image groups         14 year olds       Image groups       Image groups         5-14 year olds       Image groups       Image groups         5-14 year olds       Image groups       Image groups         5-14 year olds       Image groups       Image groups         All age groups       Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups	Epidemiological indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Live birth prevalence (LB)       0.6412575       Image of the sectancy (yrs)         Stillbirth prevalence (SB)       0.0082425       Image of the sectancy (yrs)         All age groups       Image of the sectancy (yrs)       Image of the sectancy (yrs)       Image of the sectancy (yrs)         All age groups       Image of the sectancy (yrs)         Annual live births       Image of the sectancy (yrs)         No. deaths 14 yrs       Image of the sectancy (yrs)       Image of the sectancy (yr	Year of estimate						
Stillbirth prevalence (SB)       0.0082425       Image groups         All age groups       0.55       Image groups          0.55       Image groups         14 year olds       Image groups       Image groups         5-14 year olds       Image groups       Image groups         5-14 year olds       Image groups       Image groups         5-14 year olds       Image groups       Image groups         All age groups       Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups          Image groups       Image groups	Prevalence at birth and by age-group(/10	)00)					
Total birth prevalence (LB+SB)0.5500All age groups00000<1 year olds	Live birth prevalence (LB)			0.5412575			
All age groupsImage and the set of the se	Stillbirth prevalence (SB)			0.0082425			
<1 year olds </td <td>Total birth prevalence (LB+SB)</td> <td></td> <td></td> <td>0.55</td> <td></td> <td></td> <td></td>	Total birth prevalence (LB+SB)			0.55			
1-4 year oldsImage: state sta	All age groups						
5-14 year oldsImage: state st	<1 year olds						
15-44 year oldsImage: constraint of the sector of cases by age groupImage: constraint of the sector of cases by age groupNumber of cases by age groupAnnual live births4Annual live births4All age groups4	1-4 year olds						
45+ year olds       Image of cases by age group         Annual live births       Image of cases by age groups       Image of cases by age groups         All age groups       Image of cases by age groups       Image of cases by age groups         All age groups       Image of cases by age groups       Image of cases by age groups         All age groups       Image of cases by age groups       Image of cases by age groups       Image of cases by age groups         41 age groups       Image of cases by age groups         41 age groups       Image of cases by age of cases	5-14 year olds						
Number of cases by age group           Annual live births         4           Annual live births         4           Annual live births	15-44 year olds						
Annual live birthsImage of the second se	45+ year olds						
Annual live birthsImage of the second se							
<1 year olds	Annual live births			4			
1-4 year olds       Image: Second Secon	All age groups						
1-4 year olds       Image: Second Secon	<1 year olds						
5-14 year oldsImage: state or state of state of state or state of state or st							
15-44 year oldsImage: second seco							
No. of cases by level of impairmentNo or minor disability*No or minor disability**Moderate disability**Severe disability***Severe disability***Mortality and morbidityMortality and morbidityMean life expectancy (yrs)Mean life expectancy (yrs)No. deaths < 1yr	-						
No. of cases by level of impairmentNo or minor disability*No or minor disability**Moderate disability**Severe disability***Severe disability***Mortality and morbidityMortality and morbidityMean life expectancy (yrs)Mean life expectancy (yrs)No. deaths < 1yr							
No or minor disability*Image: Severe disability**Image: Severe disability**Image: Severe disability**Image: Severe disability**Image: Severe disability***Image: Severe disability***Image: Severe disability***Image: Severe disability***Image: Severe disability***Image: Severe disability***Image: Severe disability**Image: Severe disability*Image: Severe disabili							
Moderate disability**Image: Constraint of the system of the s							
Severe disability***         Image: Constraint of the system of the							
Mortality and morbidity         Mortality and morbidity           Mean life expectancy (yrs)         68.6826204323							
Mean life expectancy (yrs)         Image: Constraint of the system o	· · · · · · · · · · · · · · · · · · ·						
No. deaths < 1yr         0         0.0297930056         0         0         0           No. deaths 1-4 yrs         0 <td>Mean life expectancy (yrs)</td> <td></td> <td></td> <td>68.6826204323</td> <td></td> <td></td> <td></td>	Mean life expectancy (yrs)			68.6826204323			
No. deaths 1-4 yrs         Image: Constraint of the sector of the se	No. deaths < 1yr						
No. deaths < 5 yrs         0.0380761377         0         0           Infant mortality / 1000 LB         0.0037627884         0         0           Under-5 mortality / 1000 LB         0.004808929         0         0	No. deaths 1-4 yrs						
Infant mortality / 1000 LB         0.0037627884         0         0           Under-5 mortality / 1000 LB         0         0.004808929         0         0	No. deaths < 5 yrs			0.0380761377			
Under-5 mortality / 1000 LB 0.004808929 0.004808929				0.0037627884			
	Under-5 mortality / 1000 LB						
	Years of life lost						

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

Republic of Montenegro Orofacial Clefts OFC Epidemiology 1.2: International comparison

	Your chosen			
Epidemiological indicator	estimates	Country	Region	World
Prevalence at birth and by age-group (/1000 people)			I)	
Live birth prevalence (LB)		0.5412575	1.00	0.89
Stillbirth prevalence (SB)		0.0082425	0.02	0.01
Total birth prevalence (LB+SB)		0.55	1.01	0.90
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		4	1,226	119,796
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 minimum disability*				
Moderate disability**				
Severe disability***				
Mortality and morbidity				
Mean life expectancy (yrs)		68.6826204323	64.8	28.60
No. deaths < 1yr		0.0297930056	34	36,310
No. deaths 1-4 yrs		0	9	8,789
No. deaths < 5 yrs		0.0380761377	43	45,099
Infant mortality / 1000 LB		0.0037627884	0.03	0.30
Under-5 mortality / 1000 LB		0.004808929	0.03	0.38
Years of life lost				

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

# Republic of Montenegro Orofacial Clefts OFC Epidemiology 2.1: Data on affected pregnancies: Research studies

		1	
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 country/territory	Number of affected still births	SB prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			

TB = total births (live births + stillbirths)

Republic of Montenegro Orofacial Clefts 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 TB	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-E2.3

## Republic of Montenegro Orofacial Clefts 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

## Republic of Montenegro 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 birth	S		4			
Annual birth prevalence / 1000 TB			0.5412575			
Number of annual affected stillbirths			0			
Stillbirth prevalence / 1000 TB / year			0.0082425			

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

## Republic of Montenegro Orofacial Clefts 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)

# Republic of Montenegro Orofacial Clefts

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			

## Republic of Montenegro Orofacial Clefts 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 (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 same year)	#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 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!	
Escentaiement) ber of under-5 deaths in total population (number of deaths registered in under-5s /	#DIV/0!	
Estimationed hatal 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!	]

## Republic of Montenegro Orofacial Clefts 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						

## Republic of Montenegro Orofacial Clefts 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)			8			
Number of annual affected neonatal deaths			0.02979300			
Number of affected neonatal deaths / 1000 LB			<b>5</b> 900376278			
Number of annual affected infant deaths			<b>8:</b> 02979300			
Number of affected infant deaths/ 1000 LB			<b>5</b> 900376278			
Number of annual affected under-5 deaths			<b>8:0</b> 3807613			
Number of affected under-5 deaths / 1000 LB			<b>07</b> 00480892			
Mean life expectancy at birth in affected			8.6826204	323		
<b>Denol</b> andicators (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.

## Republic of Montenegro Orofacial Clefts 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

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

## Republic of Montenegro Orofacial Clefts 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			

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.

## Republic of Montenegro Orofacial Clefts 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			

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.

## Republic of Montenegro Orofacial Clefts 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				

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.

## Republic of Montenegro Orofacial Clefts 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)

Republic of Montenegro Orofacial Clefts 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 effect of folic acid on OFCs is assumed to be 25% of the effect on neural tube defects.

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

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

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

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

0.15\*dosage\*coverage+baseline-baseline\*coverage))))

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

## Republic of Montenegro Orofacial Clefts 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

		Baseline prevalence with no intervention - ((Maximum prop. Reduction x Pop. Supp. Coverage)
New prevalence	0.000	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	
After fortification		This can be taken from the appropriate cell (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)

Republic of Montenegro Orofacial Clefts OFC Interventions 3: Effect of newborn diagnosis and treatment

Baseline birth prevalence of orofacial clefts, per 1000 LB		
Variables		
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)

## Republic of Montenegro Orofacial Clefts 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	C	Drawn from sheet E2.4
Annual affected stillbirths (SB)	0	0	C	Drawn from sheet E2.4
Annual affected births (LB+SB)	0	0		Drawn from sheet E2.4
Annual affected persons (all age	0	0	C	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	0		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 in affected people	0		0	Drawn from sheet E3.4

Republic of Montenegro Orofacial Clefts 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	n			
Effect of multivitamin and folic				
Effect 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				
Effect 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 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-NA3f	Current and desired outcomes			
	Current situation		Target situation	
Indicator	Annual number (n)	Prevalence (n/1000)	Annual number (n)	Prevalence (n/1000)
Estimated affected pregnancies	·			· ·
Live births (LB)		)	0	
Stillbirths (SB)	(	)	0	
All births (LB+SB)	(	)	0	
Estimated population prevalence				
All age groups				
Estimated mortality		·		· ·
Neonatal deaths		)	0	
Infant deaths	(	)	0	
Under-5 deaths	(	)	0	