#### PHG Needs Assessment Calculator Costa Rica Orofacial Clefts

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(There is no sheet OFC-NA2.)

# Costa Rica 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 est	timates
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4 years	182876	158341	341217			0			0
5-9 years	203010	181571	384581			0			0
10-14 years	229092	210147	439239			0			0
15-19 years	237650	217114	454764			0			0
20-24 years	227677	219882	447559			0			0
25-29 years	174445	193566	368011			0			0
30-34 years	153855	169097	322952			0			0
35-39 years	130983	152984	283967			0			0
40-44 years	149933	164446	314379			0			0
45-49 years	137620	151665	289285			0			0
50-54 years	119723	133966	253689			0			0
55-59 years	86369	99326	185695			0			0
60-64 years	64997	63786	128783			0			0
65+ years	143253	168138	311391			0			0
Total	0	0	4533162	0	0	0	(	0 0	0
Female population aged 15-44 years		0			-			-	
Data year		2008 report	ed in 2009						
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	18	Unicef, 2007				
Still birth rate (SB): Still births (SB) / year / 1000 total births	5	WHO, 2009				
Total births in 1000s (LB+SB) per year	80	Unicef, 2007				
Infant mortality rate: infant deaths / 1000 LB / year	9	UNICEF				
Under-5 mortality rate: U5 deaths / 1000 LB / year	10	UNICEF				
Percentage births in women >35 years						
Life expectancy at birth (yrs)	79	WHO, 2009				
% of marriages consanguineous						

Maternal health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Prenatal visits – at least 1 visit (%)	92	WHO, 2007				
Prenatal visits – at least 4 visits (%)						
Births attended by skilled health personnel (%)	98.7	WHO, 2007				
Contraception prevalence rate (%)						
Unmet need for family planning (%)						
Total fertility rate	1.9	WHO, 2009				
% home births						
% births at health care services						
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. \$)		WHO, 2008				
% population living on < US\$1 per day	2.4	WHO, 2005				
Birth registration coverage (%)	>90	WHO, 2008				
Death registration coverage (%)	75-89	WHO, 2009				

LB = live births

PPP = purchasing power parity

SBA = skilled birth attendant

PHG FOUNDATION

Costa Rica 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.

		Source,	Your	Source,	Chosen	Source,
Health Expenditure	Estimate	Year	estimate	Year	estimate	Year
Per capita total expenditure on health (PPP int. \$)	1165	WHO, 2009				
Total expenditure on health as percentage of GDP	10.5	WHO, 2009				
Per capita government expenditure on health (PPP int. \$)	785	WHO, 2009				
External resources for health as percentage of total expenditure on health	0	WHO, 2009				
General government expenditure on health as percentage of total expenditure on health	67.4	WHO, 2009				
Out-of-pocket expenditure as percentage of private expenditure on health	87.6	WHO, 2009				
Private expenditure on health as percentage of total expenditure on health	32.6	WHO, 2009				
General government expenditure on health as percentage of total government expenditure	30.6	WHO, 2009				

Health Workforce	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of nursing and midwifery personnel	3653	WHO, 2000				
Nursing and midwifery personnel density (per 10,000 population)	9.3	WHO, 2000				
Number of physicians	5204	WHO, 2000				
Physician density (per 10 000 population)	13.2	WHO, 2000				
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 terminations of pregnancies for fetal defects						

PPP = purchasing power parity GDP = gross domestic product SBA = skilled birth attendant

CD = congenital disorders

#### Costa Rica 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(/10	000)					
Live birth prevalence (LB)			1.06			
Stillbirth prevalence (SB)			0.00			
Total birth prevalence (LB+SB)			1.06			
All age groups			0.89			
<1 year olds			0.97			
1-4 year olds			0.97			
5-14 year olds			0.95			
15-44 year olds			0.93			
45+ year olds			0.70			
Number of cases by age group						·
Annual live births			84			
All age groups			3,777			
<1 year olds			76			
1-4 year olds			301			
5-14 year olds			800			
15-44 year olds			1,965			
45+ year olds			635			
No. of cases by level of impairment						
No or minor disability*			3,022			
Moderate disability**			755			
Severe disability***			147			
Mortality and morbidity						
Mean life expectancy (yrs)			64.9			
No. deaths < 1yr			8			
No. deaths 1-4 yrs			2			
No. deaths < 5 yrs			9			
Infant mortality / 1000 LB			0.10			
Under-5 mortality / 1000 LB			0.12			
Years of life lost						

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

#### Costa Rica Orofacial Clefts OFC Epidemiology 1.2: International comparison

	Your chosen		Comparison	
Epidemiological indicator	estimates	Country	Region	World
Prevalence at birth and by age-group (/1000 peo	ople)		(Latin America,	Central)
Live birth prevalence (LB)		1.06	1.36	1.19
Stillbirth prevalence (SB)		0.00	0.02	0.02
Total birth prevalence (LB+SB)		1.06	1.38	1.22
All age groups		0.89		
<1 year olds		0.97		
1-4 year olds		0.97		
5-14 year olds		0.95		
15-44 year olds		0.93		
45+ year olds		0.70		
Number of cases by age-group				
Annual live births		84	6,404	156,935
All age groups		3,777	189,839	3,872,892
<1 year olds		76		
1-4 year olds		301	29,954	486,788
5-14 year olds		800	63,519	937,005
15-44 year olds		1,965	89,932	1,826,259
45+ year olds		635	6,434	622,840
No. cases by level of impairment				
No or minimum disability*		3,022	150,542	2,927,757
Moderate disability**		755	37,635	631,750
Severe disability***		147	1,662	313,385
Mortality and morbidity				
Mean life expectancy (yrs)		64.9		
No. deaths < 1yr		8	292	47,843
No. deaths 1-4 yrs		2	11	4,837
No. deaths < 5 yrs		9	304	52,680
Infant mortality / 1000 LB		0.10	0.06	0.36
Under-5 mortality / 1000 LB		0.12	0.06	0.40
Years of life lost				

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

# Costa Rica

# **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).

	Number of affected live births	LB prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			
	Number of affected still births	SB prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			

TB = total births (live births + stillbirths)

#### Costa Rica 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

#### Costa Rica 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			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 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

#### Costa Rica 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			84			
Annual birth prevalence / 1000 TB			1.06			
Number of annual affected stillbirths			0			
Stillbirth prevalence / 1000 TB / year			0.00			

If there are specific sub-types of condition, you can repeat this exercise below. However, you should consider (a) whether subtypes 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

#### Costa Rica 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 group alone.

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

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

TB = total births (live births + stillbirths)

#### Costa Rica Orofacial Clefts

#### OFC Epidemiology 3.1: Mortality data: Research studies

Source, year, site	Sample size	Age group	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			

#### Costa Rica 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

It is assumed that under-ascertainment is stable across age-groups; if ascertainment varies by age-group, you could use separate estimates for each age group.

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

#### Costa Rica 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						

#### Costa Rica 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			28			
Number of annual live births (in 1000s)			79			
Number of annual affected neonatal deaths			6			
Number of affected neonatal deaths / 1000 LB			0.08			
Number of annual affected infant deaths			8			
Number of affected infant deaths/ 1000 LB			0.10			
Number of annual affected under-5 deaths			9			
Number of affected under-5 deaths / 1000 LB			0.12			
Mean life expectancy at birth in affected people			64.9			
Other indicators (e.g. survival following surgical procedure, etc)						

#### Costa Rica Orofacial Clefts OFC Epidemiology 3.5: Sub-population variation in mortality

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

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

Age group: under 5 Population sub-group	Number of deaths in affected persons	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

#### Costa Rica Orofacial Clefts OFC 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			

#### Costa Rica 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			

#### Costa Rica 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				

#### Costa Rica 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)

#### Costa Rica 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 coverage. 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)))

 $\label{eq:coverage} ^2((0.25^*(Baseline\ OFC-(1.07^*coverage+0.12^*baseline\ OFC^*coverage-0.15^*dosage^*coverage+baseline-baseline^*coverage))))$ 

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

#### Costa Rica 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) X Baseline
New prevalence	0.000 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)

# Costa Rica

#### **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)

#### Costa Rica 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		
Indicator	Number (n)	n/1000 total births	Range of prevalence	
Annual affected live births (LB)	(	) 0	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	C	Drawn from sheet E1.1
aroune)				

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

#### Costa Rica 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				
Effect of multivitamin and folic acid				
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 acid				
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)	(	) (	2	
Stillbirths (SB)	(	) (	2	
All births (LB+SB)	(	) (	2	
Estimated population prevalence				
All age groups				
Estimated mortality				
Neonatal deaths		) (	2	
Infant deaths	(	) (	2	
Under-5 deaths	(	) (	2	