PHG Needs Assessment Calculator

Mali

Thalassaemias

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Shared Data

Demographic, maternal health and socio-economic indicators

Please read first! If you have already completed a needs assessment for a different topic in this country, you will be able to copy the Demography information from that Calculator into here. The information should be the same.

By default, the Toolkit contains information at the national level.

If you would like to use a different population, then replace country information with that of your specific population of interest.

Number of persons by age-group and sex		Estimates		Yo	our estimat	es	Cho	sen estima	ates
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4 years	839795	824505	1664300			0			0
5-9 years	830211	797057	1627268			0			0
10-14 years	637495	589603	1227098			0			0
15-19 years	492480	529270	1021750			0			0
20-24 years	364333	409584	773917			0			0
25-29 years	292369	355661	648030			0			0
30-34 years	264339	307795	572134			0			0
35-39 years	233444	250908	484352			0			0
40-44 years	194819	206963	401782			0			0
45-49 years	156517	152498	309015			0			0
50-54 years	136501	144168	280669			0			0
55-59 years	107461	97861	205322			0			0
60-64 years	100684	101019	201703			0			0
65+ years	154297	137933	292230			0			0
Total	0	0	9709570	0	0	0	0	0	0
Female population aged 15-44 years		0			-			-	
Data year		1998 report	ed in 2007						
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	48	Unicef, 2007				
Still birth rate (SB): Still births (SB) / year / 1000 total births	23	WHO, 2009				
Total births in 1000s (LB+SB) per year	595	Unicef, 2007				
Infant mortality rate: infant deaths / 1000 LB / year	99	UNICEF				
Under-5 mortality rate: U5 deaths / 1000 LB / year	178	(全 Q1付度F2010				
Percentage births in women >35 years		(2011), 2010				
Life expectancy at birth (yrs)	53	WHO, 2009				
% of marriages consanguineous						

	Estimate	Source, Year	Your	Source,	Chosen	Source,
Maternal health			estimate	Year	estimate	Year
Prenatal visits – at least 1 visit (%)	70	WHO, 2006				
Prenatal visits – at least 4 visits (%)	35	WHO, 2006				
Births attended by skilled health personnel (%)	49	WHO, 2006				
Contraception prevalence rate (%)	8.2	WHO, 2006				
Unmet need for family planning (%)	31.2	WHO, 2006				
Total fertility rate	5.4	WHO, 2009				
% home births						
% births at health care services						
	Estimate	Source, Year	Your	Source,	Chosen	Source,
Newborn health			estimate	Year	estimate	Year
Number of neonatal examinations by SBA / trained staff						
% neonatal examinations by SBA/ trained staff						

			Your	Source,	Chosen	Source,
Socio-economic indicators	Estimate	Source, Year	estimate	Year	estimate	Year
Gross national income per capita (PPP int. \$)	1100	WHO, 2008				
% population living on < US\$1 per day	51.4	WHO, 2006				
Birth registration coverage (%)	53	WHO, 2006				
Death registration coverage (%)						

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

Mali 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. \$)	66	WHO, 2009				
Total expenditure on health as percentage of GDP	5.6	WHO, 2009				
Per capita government expenditure on health (PPP int. \$)	32	WHO, 2009				
External resources for health as percentage of total expenditure on health	25.6	WHO, 2009				
General government expenditure on health as percentage of total expenditure on health	47.9	WHO, 2009				
Out-of-pocket expenditure as percentage of private expenditure on health	99.5	WHO, 2009				
Private expenditure on health as percentage of total expenditure on health	52.1	WHO, 2009				
General government expenditure on health as percentage of total government expenditure	9.3	WHO, 2009				

		Source,	Your	Source,	Chosen	Source,
Health Workforce	Estimate	Year	estimate	Year	estimate	Year
Number of nursing and midwifery personnel	4383	WHO, 2008				
Nursing and midwifery personnel density (per 10,000 population)	3	WHO, 2008				
Number of physicians	729	WHO, 2008				
Physician density (per 10,000 population)	0.49	WHO, 2008				
Number of obstetricians						
Number of paediatricians						
Number of paediatric surgeons						
Number of paediatric cardiac surgeons						
Number of paediatric neurosurgeons						
Number of clinical geneticists						
Number of genetic counsellors						
Number of community health workers						
Number of skilled birth attendants (SBA)						
Density of SBA						
Number of lab staff providing cytogenetic testing						
Number of lab staff providing molecular genetics						
Number of lab staff providing biochemical tests for genetics						

Number of skilled health attendants			

Infrastructure	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of maternity units						
Number of services providing specialised care for people with CD						
Number of family planning services						
Number of preconception services						
Number of services providing prenatal care						
Number of services providing newborn care						
Number of facilities providing genetic services						
Number of laboratories providing cytogenetics						
Number of laboratories providing molecular genetics						
Number of laboratories providing biochemical tests for genetics						
Number of facillities for safe terminations of pregnancies for fetal defects						

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

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Thalassaemias

THAL 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 (/100	00)					
Live birth prevalence (LB)			0.03			
Stillbirth prevalence (SB)			0.00			
Total birth prevalence (LB+SB)			0.03			
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			18			
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)						
No. deaths < 1yr			1			
No. deaths 1-4 yrs			10			
No. deaths < 5 yrs			12			
Infant mortality / 1000 LB			0.00			
Under-5 mortality / 1000 LB			0.02			
Years of life lost						

LB = live births; SB = stillbirths * Moderate = thalassaemia intermedia; Severe =thalassaemia major

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Thalassaemias

THAL Epidemiology 1.2: International comparison

Stillbirth prevalence (SB) O.00 O.		Your chosen		Comparison		
District D	Epidemiological indicator	estimates	Country	Region	World	
Stillbirth prevalence (SB) O.00 O.	Prevalence at birth and by age-group (/1000 p	eople)				
Total birth prevalence (LB+SB)	Live birth prevalence (LB)			0.08	0.39	
All age groups <1 year olds -1-4 year olds -15-14 year olds -16-14 year olds -17-15-16-16-16-16-16-16-16-16-16-16-16-16-16-	Stillbirth prevalence (SB)		0.00	0.00	0.00	
<1 year olds 1-4 year olds 5-14 year olds 15-44 year olds 45+ year olds Wumber of cases by age-group Annual live births All age groups <1 year olds 1-4 year olds 1-4 year olds 1-4 year olds 1-4 year olds 5-14 year olds 6-15 year olds Mor cases by level of impairment No or minor disability Moor minor disability Severe disability* Mortality and morbidity Mean life expectancy (yrs) No. deaths < 1yr 1 67 3442 No. deaths < 5 yrs 10 522 12640 No. deaths < 5 yrs 12 590 16082 Infant mortality / 1000 LB 0.00 0.01 0.03 Under-5 mortality / 1000 LB 0.00 0.02 0.05 0.12	Total birth prevalence (LB+SB)		0.03	0.08	0.39	
1-4 year olds 5-14 year olds 15-44 year olds 45+ year olds Number of cases by age-group Annual live births 18 910 52043 All age groups <1 year olds 1-4 year olds 1-4 year olds 5-14 year olds 1-4 year olds 1-5-14 year olds 5-14 year olds 1-6-14 year olds 1-7-14 year olds 1-8-14 year olds 1-9-14 year olds 1-9-1	All age groups					
5-14 year olds 15-44 year olds 45+ year olds Number of cases by age-group Annual live births All age groups <1 year olds 1-4 year olds 5-14 year olds 5-18 year olds 5-19 year olds 5-10	<1 year olds					
15-44 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 1-4 year olds 1-5-14 year olds 1-5-14 year olds 1-5-14 year olds 1-5-14 year olds 15-44 year olds 15-49 year olds 15-40 year olds 15-	1-4 year olds					
Number of cases by age-group	5-14 year olds					
Number of cases by age-group	15-44 year olds					
Annual live births	45+ year olds					
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 45+ year olds No. cases by level of impairment No or minor disability Moderate disability* Severe disability* Mortality and morbidity Mean life expectancy (yrs) No. deaths < 1yr No. deaths < 1yr No. deaths < 5 yrs 10 522 12640 No. deaths < 5 yrs 12 590 16082 Infant mortality / 1000 LB 0.00 0.01 0.03 Under-5 mortality / 1000 LB 0.00 0.01 0.01	Number of cases by age-group					
<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 minor 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 10 522 12640 No. deaths < 5 yrs 12 590 16082 Infant mortality / 1000 LB 0.00 0.01 0.03 Under-5 mortality / 1000 LB 0.02 0.05 0.12	Annual live births		18	910	52043	
1-4 year olds 5-14 year olds 15-44 year olds 45+ year olds No. cases by level of impairment No or minor disability Moderate disability* Severe disability* Mortality and morbidity Mean life expectancy (yrs) No. deaths < 1yr No. deaths < 1yr No. deaths 1-4 yrs No. deaths < 5 yrs 10 522 12640 No. deaths < 5 yrs 12 1590 16082 Infant mortality / 1000 LB 0.00 0.01 0.03 Under-5 mortality / 1000 LB	All age groups					
5-14 year olds 15-44 year olds 45+ year olds No. cases by level of impairment No or minor disability Moderate disability* Severe disability* Mortality and morbidity Mean life expectancy (yrs) No. deaths < 1yr No. deaths < 1yr 1 67 3442 No. deaths 1-4 yrs 10 522 12640 No. deaths < 5 yrs 12 1590 16082 Infant mortality / 1000 LB 0.00 0.01 0.03 Under-5 mortality / 1000 LB	<1 year olds					
15-44 year olds	1-4 year olds					
No. cases by level of impairment No. or minor disability No. disability No. disability No. disability No. deaths < 1yr No. deaths < 1-4 yrs No. deaths < 5 yrs No. deaths < 5 yrs No. disability / 1000 LB No. disabili	5-14 year olds					
No. cases by level of impairment No or minor disability	15-44 year olds					
No or minor disability Moderate disability* Severe disability* Mortality and morbidity Mean life expectancy (yrs) No. deaths < 1yr No. deaths 1-4 yrs No. deaths < 5 yrs 10 522 12640 No. deaths < 5 yrs 12 590 16082 Infant mortality / 1000 LB Under-5 mortality / 1000 LB 0.00 0.01 0.03 0.12	45+ year olds					
Moderate disability* Severe disability* Severe disability* Mortality and morbidity Mean life expectancy (yrs) 67 No. deaths < 1yr	No. cases by level of impairment					
Severe disability* Mortality and morbidity Mean life expectancy (yrs) No. deaths < 1yr 1 67 3442 No. deaths 1-4 yrs 10 522 12640 No. deaths < 5 yrs 12 590 16082 Infant mortality / 1000 LB 0.00 0.01 0.03 Under-5 mortality / 1000 LB 0.02 0.05 0.12	No or minor disability					
Mortality and morbidity Mean life expectancy (yrs) 1 67 3442 No. deaths < 1 yr	Moderate disability*					
Mean life expectancy (yrs) 1 67 3442 No. deaths < 1yr	Severe disability*					
No. deaths < 1yr	Mortality and morbidity					
No. deaths 1-4 yrs 10 522 12640 No. deaths < 5 yrs	Mean life expectancy (yrs)					
No. deaths < 5 yrs	No. deaths < 1yr		1	67		
Infant mortality / 1000 LB 0.00 0.01 0.03 Under-5 mortality / 1000 LB 0.02 0.05 0.12	No. deaths 1-4 yrs		10	522	12640	
Under-5 mortality / 1000 LB 0.02 0.05 0.12	No. deaths < 5 yrs		12	590	16082	
	Infant mortality / 1000 LB			0.01		
	Under-5 mortality / 1000 LB		0.02	0.05	0.12	
Years of life lost	Years of life lost					

LB = live births; SB = stillbirths * Moderate = thalassaemia intermedia; Severe =thalassaemia major

Thalassaemias

THAL 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 THAL-E2.1 of the Tool), enter the best estimates for the prevalence of affected births and terminations in the country, and a range of values to reflect uncertainty or within-country variation.

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

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

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THAL Epidemiology 2.2: Data on affected pregnancies: Surveillance

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

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

Estimates for the total country/territory	Number of affected live births	Birth prevalence / 1000	Comments
Best estimate			
Lower estimate			
Higher estimate			

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

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

Thalassaemias

THAL Epidemiology 2.3: Data on affected pregnancies: Other sources

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

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

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

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

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

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THAL Epidemiology 2.4: Summary of affected pregnancies

Indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Number of annual affected live births			18			
Annual birth prevalence / 1000 TB			0.03			
Number of annual affected still births			0			
Annual Stillbirth prevalence / 1000 TB			0.00			
Number of terminations of pregnancy in affected fetuses /year			0			
Affected ToP / 1000 women 15-44/ year			0.00]

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

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THAL 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

Population sub-group	Number of ToP in affected pregnancies	ToP prevalence / 1000 TB	Reason for variation

Thalassaemias

THAL 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			

LB = live births

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THAL 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 /(Total registered live births/ 1000))	#DIV/0	
Registered condition-specific infant mortality ((condition-specific infant deaths /(Total registered live births/ 1000))	#DIV/0	
Registered condition-specific under-5 mortality (condition-specific under-5 deaths / (Total registered live births/ 1000))	#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 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 (Total registered live births/population coverage)	#DIV/0!	
Estimated number of neonatal deaths in total population	#DIV/0!]
(number of deaths registered in neonatal period / ascertainment)		
Estimated number of infant deaths in total population	#DIV/0!	
(number of deaths registered in first year of life / ascertainment)		
Estimated number of under-5 deaths in total population	#DIV/0!	
(number of deaths registered in under-5s / ascertainment)		
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!	

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THAL 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 mo	rtality	Infant mortality		Under-5 mortali	ty
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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THAL Epidemiology 3.4: Summary mortality estimates

Indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Year of data collection						
Number of annual deaths in affected persons						
Number of annual live births (in 1000s)			647			
Number of annual affected neonatal deaths			0			
Number of affected neonatal deaths / 1000 LB			0.00			
Number of annual affected infant deaths			1			
Number of affected infant deaths / 1000 LB			0.00			
Number of annual affected under-5 deaths			12			
Number of affected under-5 deaths / 1000 LB			0.02			
Mean life expectancy at birth in affected people						
Other indicators (e.g. survival following surgical procedure, etc)						

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

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

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THAL 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			

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THAL Epidemiology 4.2: Population prevalence: 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).

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

Thalassaemias

THAL Epidemiology 4.3: Summary of population prevalence

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

Thalassaemias

THAL 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)

Thalassaemias

THAL Intervention 1: Effect of prenatal diagnosis and pregnancy termination

Note: this makes the simplifying assumption that stillbirth is equally likely in cases that are diagnosed as in cases that are not diagnosed.

Assumption: prenatal services are equally used for cases which would lead to stillbirths and live births.

This could overestimate the impact of ToP if in fact ToP is more likely for severe cases that would result in stillbirth.

Conversely, the impact of ToP could be underestimated if screening is only available to high-income women at lower risk. 100% specificity of prenatal diagnosis assumed.

Birth prevalence: thalassaemia-affected pregnancies per 1000 TB		
Variables		
Coverage of preconception and prenatal screening and diagnosis		Range: 0 to 1
Proportion of cases diagnosed		Range: 0 to 1
Proportion of diagnosed cases ending in ToP		Range: 0 to 1
Results		
% prevalence reduction due to PND & ToP¹	0%	
Prevalence reduction due to PND & ToP, per 1000 TB ²	0.000	
Final prevalence: affected live births after PND & ToP, per 1000 TB ³	0.000	

PND = prenatal diagnosis

TB = total births (live births + still births)

ToP = termination of pregnancy

 $^{1}\text{Coverage}$ of PNS and diagnosis X Proportion of cases diagnosed x Proportion of cases ending in ToP

 $^{2}\%$ prevalence reduction due to PNS and ToP x Birth prevalence

³Birth prevalence – Prevalence reduction due to PNS & ToP

Thalassaemias

THAL Intervention 2: Effects of NBS and management on thalassaemias

	Range: 0 to 1
	Range: 0 to 1
	Range: 0 to 1
0	
0	

LB = live births

NBS = newborn screening

* If you don't have data on birth prevalence but do have data on screening, you can estimate birth prevalence by combining the proportion screened positive with the number of total births. (This assumes that screening is randomly distributed in the population).

¹Coverage of newborn screening X Proportion of screen-positive cases receiving treatment X Effectiveness of treatment

²Baseline birth prevalence – (Proportional reduction of unmanaged cases of thalassaemias X Baseline birth prevalence)

Thalassaemias

THAL Needs Assessment 1: Quantitative baseline

Table THAL-NA1a Burden of Thalassaemias in pregnancy, at birth and at population level

	Chosen estimates			Notes
Indicator	Number (n)		Range of prevalence (/1000 TB)	
Annual affected live births (LB)	C	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 groups)	0	0	0	Drawn from sheet E1.1

Table THAL-NA1b Thalassaemias mortality indicators

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

TB = total births (live births + stillbirths)

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Thalassaemias

THAL Needs Assessment 3: Quantitative assessment of interventions

Table THAL-NA3a	Estimated prevalence in the absence of interventions for thalassaemias		
Indicator	Number (n) Prevalence (n/1000)		
Potential live births			
Potential still births			

Table THAL-NA3b	Current situation in relation to interventions before birth			
Intervention	Coverage (%)	Cases averted (n)	Cases averted/1000 LB	
Effect of family planning, education				
Effect of population carrier screening				
Effect of preconception screening				
Effect of prenatal screening				
Effect of prenatal diagnosis				
Effect of termination of pregnancy				
Overall effect				

Table THAL-NA3c	Target situation in relation	on to interventions before	birth
Intervention	Coverage (%)	Cases averted (n)	Cases averted/1000 LB
Effect of family planning, education			
Effect of population carrier screening			
Effect of preconception screening			
Effect of prenatal screening			
Effect of prenatal diagnosis			
Effect of termination of pregnancy			
Overall effect			

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Table THAL-NA3d	Current situation in relat	ion to interventions after	birth
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 LB
Effect of newborn diagnosis			
Effect of blood transfusion			
Effect of iron chelation			
Effect of surgical treatment			
Effect of social care and support			
Overall effect			

Table THAL-NA3e	Target situation in relation to interventions after birth			
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 LB	
Effect of newborn diagnosis				
Effect of blood transfusion				
Effect of iron chelation				
Effect of surgical treatment				
Effect of social care and support				
Overall effect				

Table THAL-NA3f	Current and desired outcomes							
	Current situation		Target situation					
Indicator	Annual number (n)	Incidence (n/1000)	Annual number (n)	Incidence (n/1000)				
Estimated affected pregnancies								
Live births (LB)	0	C)					
Still births (SB)	0	C						
All births (LB+SB)	0	C)					
Estimated population prevalence								
All age groups								
Estimated mortality								
Neonatal deaths	0	C)					
Infant deaths	0	C)					
Under-5 deaths	0	C						