## PHG Needs Assessment Calculator Turkey Thalassaemias

Welcome to the PHG Health Needs Assessment Calculator for thalassaemias. The contents of this file are listed below.

Full name of the sheet	Short name
Country demographic, maternal health and socioeconomic indicators	Demography
Country health service data	HealthServices
THAL Epidemiology 1.1: Country epidemiology	THAL-E1.1
THAL Epidemiology 1.2: International comparison	THAL-E1.2
THAL Epidemiology 2.1: Data on affected pregnancies: Research studies	THAL-E2.1
THAL Epidemiology 2.2: Data on affected pregnancies: Surveillance	THAL-E2.2
THAL Epidemiology 2.3: Data on affected pregnancies: Other sources	THAL-E2.3
THAL Epidemiology 2.4: Summary of affected pregnancies	THAL-E2.4
THAL Epidemiology 2.5: Sub-population variation in affected pregnancies	THAL-E2.5
THAL Epidemiology 3.1: Mortality data: Research studies	THAL-E3.1
THAL Epidemiology 3.2: Mortality data: Vital registration data	THAL-E3.2
THAL Epidemiology 3.3: Mortality data: Other sources	THAL-E3.3
THAL Epidemiology 3.4: Summary mortality estimates	THAL-E3.4
THAL Epidemiology 3.5: Sub-population variation in mortality	THAL-E3.5
THAL Epidemiology 4.1: Population prevalence: Research studies	THAL-E4.1
THAL Epidemiology 4.2: Population prevalence: Other sources	THAL-E4.2
THAL Epidemiology 4.3: Summary of population prevalence	THAL-E4.3
THAL Epidemiology 4.4: Sub-population prevalence variation	THAL-E4.4
THAL Interventions 1: Prenatal diagnosis and pregnancy termination	THAL-Interv1
THAL Interventions 2: Newborn screening and management	THAL-Interv2
THAL Needs Assessment Calculator 1: Quantitative baseline	THAL-NA1
THAL Needs Assessment Calculator 3: Quantitative assessment of interventions	THAL-NA3

(There is no sheet THAL-NA2.)

## **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	3396690	3188132	6584822			0			0
5-9 years	3485746	3270871	6756617			0			0
10-14 years	3570657	3307999	6878656			0			0
15-19 years	3691218	3518257	7209475			0			0
20-24 years	3426714	3263432	6690146			0			0
25-29 years	2976430	2918825	5895255			0			0
30-34 years	2552370	2457285	5009655			0			0
35-39 years	2453579	2400808	4854387			0			0
40-44 years	2083531	1985225	4068756			0			0
45-49 years	1710757	1658012	3368769			0			0
50-54 years	1356391	1360958	2717349			0			0
55-59 years	1016254	1042168	2058422			0			0
60-64 years	864299	964989	1829288			0			0
65+ years	1749563	2109386	3858949			0			0
Total	34334199	33446347	67803927	C	0	0	0	0	0
Female population aged 15-44 years		16543832			-			-	
Data year		2000 reported 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	17.51	Unicef, 2013				
Still birth rate (SB): Still births (SB) / year / 1000 total births	11.21	WHO, 2009				
Total births in 1000s (LB+SB) per year	1289	Unicef, 2013				
Infant mortality rate: infant deaths / 1000 LB / year	11.50	Unicef, 2013				
Under-5 mortality rate: U5 deaths / 1000 LB / year	15.20	Unicef, 2013				
Percentage births in women >35 years						
Life expectancy at birth (yrs)	73.98	Unicef, 2013				
% of marriages consanguineous						

	Estimate	Source, Year	Your	Source,	Chosen	Source,
Maternal health			estimate	Year	estimate	Year
Prenatal visits – at least 1 visit (%)	92.0	Unicef, 2013				
Prenatal visits – at least 4 visits (%)	73.7	Unicef, 2013				
Births attended by skilled health personnel (%)	91.3	Unicef, 2013				
Contraception prevalence rate (%)	73.0	Unicef, 2013				
Unmet need for family planning (%)	6.2	WHO, 2008				
Total fertility rate	2.06	Unicef, 2013				
% home births						
% births at health care services	89.70	Unicef, 2013				
	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						

Socio-economic indicators	Estimate	Source, Year	Your estimate	Chosen estimate	
Gross national income per capita (PPP int. \$)	16730	Unicef, 2013			
% population living on < US\$1 per day	2.7	Unicef, 2013			
Birth registration coverage (%)	93.7	WHO 2008			
Death registration coverage (%)	50-74	WHO, 2007			

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

Turkey 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. \$)	1160.5	WHO 2011				
Total expenditure on health as percentage of GDP	6.7	WHO 2011				
Per capita government expenditure on health (PPP int. \$)	869.7	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	74.9	WHO 2011				
Out-of-pocket expenditure as percentage of private expenditure on health	64.4	WHO 2011				
Private expenditure on health as percentage of total expenditure on health	25.1	WHO 2011				
General government expenditure on health as percentage of total government expenditure	12.8	WHO 2011				

Health Workforce	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of nursing and midwifery personnel	144229	WHO, 2008				
Nursing and midwifery personnel density (per 10,000 population)	18.9	WHO, 2008				
Number of physicians	110482	WHO, 2008				
Physician density (per 10,000 population)	14.51	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

Turkey

### 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 (/	1000)					
Live birth prevalence (LB)			0.23			
Stillbirth prevalence (SB)			0.00			
Total birth prevalence (LB+SB)			0.23			
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			311			
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)			9			
No. deaths < 1yr			61			
No. deaths 1-4 yrs			145			
No. deaths < 5 yrs			206			
Infant mortality / 1000 LB			0.05			
Under-5 mortality / 1000 LB			0.16			
Years of life lost						

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

Turkey Thalassaemias

## THAL Epidemiology 1.2: International comparison

	Your chosen			
Epidemiological indicator	estimates	Country	Region	World
Prevalence at birth and by age-group (/1000 p	y age-group (/1000 people) (No			idle East)
Live birth prevalence (LB)		0.23	0.53	0.38
Stillbirth prevalence (SB)		0.00	0.00	0.00
Total birth prevalence (LB+SB)		0.23	0.53	0.38
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		311	5086	50556
All age groups				
<1 year olds				
1-4 year olds				
5-14 year olds				
15-44 year olds				
45+ year olds				
No. cases by level of impairment				
No or minor disability				
Moderate disability*				
Severe disability*				
Mortality and morbidity				
Mean life expectancy (yrs)		9	10.34	15.16
No. deaths < 1yr		61	956	10529
No. deaths 1-4 yrs		145	2253	17260
No. deaths < 5 yrs		206	3210	27789
Infant mortality / 1000 LB		0.05	0.19	0.21
Under-5 mortality / 1000 LB		0.16	0.63	0.55
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			

### Thalassaemias

### 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 1
Estimated coverage of recorded ToP (number of recorded ToP / total ToP in country or territory)			Range: 0 to 1
Estimated ToP prevalence (recorded prevalence / estimated completeness)	#DIV/0!	#DIV/0!	
Estimated true number of ToP in data source (number of recorded ToP / completeness)	#DIV/0!	#DIV/0!	
Estimated number of ToP in total population (number of ToP from data source / (coverage x completeness))	#DIV/0!	#DIV/0!	

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

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

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

Turkey Thalassaemias

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			311			
Annual birth prevalence / 1000 TB			0.23			
Number of annual affected still births			0			
Annual Stillbirth prevalence / 1000 TB			0.00			
Number of <b>terminations of pregnancy</b> in affected fetuses /year						
Affected ToP / 1000 women 15-44/ year						

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.

### Thalassaemias

### 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

## Thalassaemias

### 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!	

Thalassaemias

THAL Epidemiology 3.3: Mortality data: Other sources

Source, year, site	Sample size	Age group	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						

Turkey

### Thalassaemias

## 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)			1316			
Number of annual affected neonatal deaths			1			
Number of affected neonatal deaths / 1000 LB			0.00			
Number of annual affected infant deaths			61			
Number of affected infant deaths / 1000 LB			0.05			
Number of annual affected under-5 deaths			206			
Number of affected under-5 deaths / 1000 LB			0.16			
Mean life expectancy at birth in affected people			9			
Other indicators (e.g. survival following surgical procedure, etc)						

Thalassaemias

THAL 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

Age group: under 5 Population sub-group	Cause-specific, group-specific under-5 mortality ratio / 1000 LB	Reason for variation

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

### Thalassaemias

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			

### Thalassaemias

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	Pro con		
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	 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 <sup>2</sup>	0.000	
Final prevalence: affected live births after PND & ToP, per 1000 TB <sup>3</sup>	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

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

<sup>3</sup>Birth prevalence – Prevalence reduction due to PNS & ToP

#### **Thalassaemias**

### THAL Intervention 2: Effects of NBS and management on thalassaemias

Baseline birth prevalence of thalassaemias, per 1000 LB		
Variables		
Coverage of newborn screening		Range: 0 to 1
Proportion of positive-screened patients referred for management		Range: 0 to 1
Effectiveness of management		Range: 0 to 1
Results		
Proportional reduction in unmanaged cases of thalassaemias through NBS and treatment <sup>1</sup>	0	
Prevalence of unmanaged thalassaemias after newborn screening and treatment, per 1000 LB <sup>2</sup>	0	

LB = live births

NBS = newborn screening

<sup>\*</sup> 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).

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

<sup>&</sup>lt;sup>2</sup>Baseline 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		
Indicator	Number (n)		Range of prevalence (/1000 TB)	
Annual affected live births (LB)	0	0	0	Drawn from sheet E2.4
Annual affected stillbirths (SB)	0	0	0	Drawn from sheet E2.4
Annual affected births (LB+SB)	0	0		Drawn from sheet E2.4
Annual affected persons (all age 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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# Turkey

## 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 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					

PHG FOUNDATION Version 1.1, SEPTEMBER 2013

Table THAL-NA3d	<b>Current situation in relat</b>	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	Current situation		Target situation	
Indicator	Annual number (n)	Incidence (n/1000)	Annual number (n)	Incidence (n/1000)	
Estimated affected pregnancies		·			
Live births (LB)		0	0		
Still births (SB)		0	0		
All births (LB+SB)		0	0		
Estimated population prevalence	9			·	
All age groups					
Estimated mortality		·	·		
Neonatal deaths		0	0		
Infant deaths		0	0		
Under-5 deaths		0	0		