PHG Needs Assessment Calculator Azerbaijan Rhesus Haemolytic Disease of the Newborn

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Intro

Demography

Azerbaijan 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	ur estimat	es	Cho	sen estima	ates
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total
0-4 years	401100	347500	748600			0			0
5-9 years	310700	271600	582300			0			0
10-14 years	342200	314800	657000			0			0
15-19 years	464600	446400	911000			0			0
20-24 years	471100	457700	928800			0			0
25-29 years	399000	396200	795200			0			0
30-34 years	320800	345600	666400			0			0
35-39 years	291800	332900	624700			0			0
40-44 years	312200	358900	671100			0			0
45-49 years	329700	371000	700700			0			0
50-54 years	266300	293600	559900			0			0
55-59 years	167300	187700	355000			0			0
60-64 years	94600	112000	206600			0			0
65+ years	242000	348100	590100			0			0
Total	0	0	8997400	0	0	0	0	0	0
Female population aged 15-44 years		0			-			-	
Data year		2010 report	ed in 2010						
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

	Estimate	Source, Year	Your	Source,	Chosen	Source,
Fertility and mortality			estimate	Year	estimate	Year
Crude birth rate: live births (LB) / year / 1000 population	16	Unicef, 2007				
Still birth rate (SB): Still births (SB) / year / 1000 total births	12	WHO, 2009				
Total births in 1000s (LB+SB) per year	134	Unicef, 2007				
Infant mortality rate: infant deaths / 1000 LB / year	39	UNICEF				
Under-5 mortality rate: U5 deaths / 1000 LB / year	46	(24011日度月2010				
Percentage births in women >35 years		(2011), 2010				
Life expectancy at birth (yrs)	68	WHO, 2009				
% of marriages consanguineous						

Maternal health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
			estimate	Tear	estimate	Tear
Prenatal visits – at least 1 visit (%)	77	WHO, 2006				
Prenatal visits – at least 4 visits (%)	45	WHO, 2006				
Births attended by skilled health personnel (%)	89	WHO, 2006				
Contraception prevalence rate (%)	51.1	WHO, 2006				
Unmet need for family planning (%)	22.7	WHO, 2006				
Total fertility rate	2.2	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						

Socio-economic indicators	Estimate	Source, Year	Your estimate	· ·	Chosen estimate	Source, Year
Gross national income per capita (PPP int. \$)	7770	WHO, 2008				
% population living on < US\$1 per day	<2.0	WHO, 2005				
Birth registration coverage (%)	>90	WHO, 2008				
Death registration coverage (%)	50-74	WHO, 2007				

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

HealthServices

Azerbaijan Shared Data Health Services Data

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

This section provides health-service-related information for your country.

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

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

Health Expenditure	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Per capita total expenditure on health (PPP int. \$)	561	WHO, 2009				
Total expenditure on health as percentage of GDP	5.8	WHO, 2009				
Per capita government expenditure on health (PPP int. \$)	132	WHO, 2009				
External resources for health as percentage of total expenditure on health	0.6	WHO, 2009				
General government expenditure on health as percentage of total expenditure on health	23.6	WHO, 2009				
Out-of-pocket expenditure as percentage of private expenditure on health	90.8	WHO, 2009				
Private expenditure on health as percentage of total expenditure on health	76.4	WHO, 2009				
General government expenditure on health as percentage of total government expenditure	3.7	WHO, 2009				

		Source,	Your	Source,	Chosen	Source,
Health Workforce	Estimate	Year	estimate	Year	estimate	Year
Number of nursing and midwifery personnel	71833	WHO, 2007				
Nursing and midwifery personnel density (per 10,000 population)	84.2	WHO, 2007				
Number of physicians	32388	WHO, 2007				
Physician density (per 10,000 population)	37.94	WHO, 2007				
Number of obstetricians						
Number of paediatricians						
Number of paediatric surgeons						
Number of paediatric cardiac surgeons						
Number of paediatric neurosurgeons						
Number of clinical geneticists						
Number of genetic counsellors						
Number of community health workers						
Number of skilled birth attendants (SBA)						

Density of SBA			
Number of lab staff providing cytogenetic testing			
Number of lab staff providing molecular 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

Rhesus Haemolytic Disease of the Newborn RHD 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	00)					
Live birth prevalence (LB)			0.50			
Stillbirth prevalence (SB)			0.50			
Total birth prevalence (LB+SB)			1.01			
All age groups						
<1 year olds			0.25			
1-4 year olds			0.21			
5-14 year olds			0.00			
15-44 year olds			0.00			
45+ year olds			0.00			
Number of cases by age group						
Annual live births			66			
All age groups						
<1 year olds			33			
1-4 year olds			28			
5-14 year olds			0			
15-44 year olds			0			
45+ year olds			0			
No. of cases by level of impairment						
No or minor disability						
Moderate disability			28			
Severe disability			5			
Mortality and morbidity						
Mean life expectancy (yrs)						
No. deaths < 1yr			33			
No. deaths 1-4 yrs			5			
No. deaths < 5 yrs			38			
Infant mortality / 1000 LB			0.25			
Under-5 mortality / 1000 LB			0.29			
Years of life lost						

Rhesus Haemolytic Disease of the Newborn

RHD Epidemiology 1.2: International comparison

	Your chosen		Comparison	
Epidemiological indicator	estimates	Country	Region	World
Prevalence at birth and by age-group (/1000	people)		(Asia, Central)	
Live birth prevalence (LB)		0.50	0.38	0.31
Stillbirth prevalence (SB)		0.50	0.38	0.31
Total birth prevalence (LB+SB)		1.01	0.76	0.63
All age groups				
<1 year olds		0.25		
1-4 year olds		0.21		
5-14 year olds		0.00		
15-44 year olds		0.00		
45+ year olds		0.00		
Number of cases by age-group				
Annual live births		66	582	41746
All age groups				
<1 year olds		33	291	20873
1-4 year olds		28	247	17742
5-14 year olds		0	0	0
15-44 year olds		0	0	0
45+ year olds		0	0	0
No. cases by level of impairment				
No or minor disability			0	0
Moderate disability		28	247	17742
Severe disability		5	1	184
Mortality and morbidity				
Mean life expectancy (yrs)				
No. deaths < 1yr		33	291	20873
No. deaths 1-4 yrs		5	44	3131
No. deaths < 5 yrs		38	335	24004
Infant mortality / 1000 LB		0.25	0.19	0.16
Under-5 mortality / 1000 LB		0.29	0.22	0.18
Years of life lost				

Rhesus Haemolytic Disease of the Newborn

RHD 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 RHD-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			

Azerbaijan Rhesus Haemolytic Disease of the Newborn RHD 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 still births. 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			

	Number of affected stillbirths	Stillbirth prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			

Rhesus Haemolytic Disease of the Newborn

RHD 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			
Total number of affected births / year (live and still)	C	0	
Total number of births / year, from data source	C	0	
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 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!	

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		

Azerbaijan

Rhesus Haemolytic Disease of the Newborn

RHD Epidemiology 2.4: Summary of affected pregnancies

Indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Number of annual affected live births			66			
Annual birth prevalence / 1000 TB			0.50			
Number of annual affected still births			66			
Stillbirth prevalence / 1000 TB/year			0.50			

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.

Azerbaijan Rhesus Haemolytic Disease of the Newborn RHD 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

ſ		
- 1		
- L		1

Rhesus Haemolytic Disease of the Newborn RHD Epidemiology 3.1: Mortality data: Research studies

Source, year, site	Sample size	Study quality and representativeness	Main findings

Based on the studies above, enter the best estimates for the specific mortality by age-group e.g. infant, under-5s, etc., as appropriate, and a range of values to reflect uncertainty of estimates and within-country variation.

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

Mortality estimates	Number of deaths	Ratio (deaths / 1000 LB)	Comments
Neonatal group (<28 days)			
Best estimate			
Lower estimate			
Higher estimate			
Infant group (<1 year)			
Best estimate			
Lower estimate			
Higher estimate			
Under-5 group (<5 years)			
Best estimate			
Lower estimate			
Higher estimate			
Other age group:			
Best estimate			
Lower estimate			
Higher estimate			

LB = live births

Rhesus Haemolytic Disease of the Newborn

RHD Epidemiology 3.2: Mortality data: Vital registration data

Fill in the blank cells based on your vital registration data.	
Enter year and source of data	
Registered data	
Total registered live births	
Registered condition-specific neonatal deaths (first 28 days of life)	
Registered condition-specific infant deaths (first year of life)	
Registered condition-specific under-5 deaths (first 5 years of life)	
Registered condition-specific neonatal mortality ratio (condition-specific neonatal deaths / 1000 live births in the same year)	#DIV/0!
Registered condition-specific infant mortality (condition-specific infant deaths / 1000 live births in the same year)	#DIV/0!
Registered condition-specific under-5 mortality (condition-specific under-5 deaths / 1000 live births in the same year)	#DIV/0!

Adjustment for under-ascertainment of cause of death and sub-registration of deaths: Enter estimates in the highlighted cells. It is not always possible to adjust the estimates, in which case you may give the value '1', accepting that the estimates in these cases will usually be biased towards low values. (Or you may move to the next section.) It is assumed that under-ascertainment is stable across age-groups; if ascertainment varies by age-group, you could use separate estimates for each age group.

Range: 0 to 1
Range: 0 to 1
0
#DIV/0!

Rhesus Haemolytic Disease of the Newborn RHD 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						

Rhesus Haemolytic Disease of the Newborn RHD 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			98			
Number of annual live births (in 1000s)			132			
Number of annual affected neonatal deaths			27			
Number of affected neonatal deaths / 1000 LB			0.20			
Number of annual affected infant deaths			33			
Number of affected infant deaths / 1000 LB			0.25			
Number of annual affected under-5 deaths			38			
Number of affected under-5 deaths / 1000 LB			0.29			
Mean life expectancy at birth in affected people						
Other indicators (e.g. survival following surgical procedure, etc)						

Rhesus Haemolytic Disease of the Newborn

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

Rhesus Haemolytic Disease of the Newborn

RHD 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			

Rhesus Haemolytic Disease of the Newborn

RHD 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			

Rhesus Haemolytic Disease of the Newborn

RHD 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				

Rhesus Haemolytic Disease of the Newborn

RHD 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)

Rhesus Haemolytic Disease of the Newborn

SCD Intervention 1:Effects of prenatal screening and treatment

Baseline prevalence of RHD per 1000 TB		
Variables		
Coverage of prenatal screening		Range: 0 to 1
Proportion of RhD negative women receiving anti-D		Range: 0 to 1
Effectiveness of anti-D in RhD negative women		Range: 0 to 1
Results		
% prevalence reduction due to PNS & treatment ¹	0%	
Prevalence reduction due to PNS & treatment, per 1000 TB ²	0.000	
Final prevalence of RHD-affected live births and still births after		
PNS & treatment, per 1000 TB ³	0.000	

RHD = Rhesus Haemolytic Disease of the Newborn

PNS = prenatal screening

TB = total births (live births + still births)

¹(Coverage of PNS X Proportion of women receiving anti-D) X Effectiveness of anti-D ²% prevalence reduction due to PNS and treatment X Baseline prevalence of RHD ³Baseline prevalence of RHD – Prevalence reduction due to PNS and treatment

Rhesus Haemolytic Disease of the Newborn

RHD Intervention 2:Effects of NBS and management on Rhesus Haemolytic Disease of the Newborn

Baseline birth prevalence of RHD, 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 uncontrolled cases through NBS and		
treatment ¹	0	
Prevalence of uncontrolled RHD deficiency after newborn		
screening and treatment, per 1000 LB ²	0	

LB = live births

NBS = newborn screening

RHD = Rhesus Haemolytic Disease of Newborn

* 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 uncontrolled cases of RHD X Baseline birth prevalence)

Azerbaijan Rhesus Haemolytic Disease of the Newborn RHD Needs Assessment Calculator 1: Quantitative baseline

Table RHD-NA1a Burden of Rhesus Haemolytic Disease of the Newborn 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 RCD-NA1b Rhesus Haemolytic Disease of the Newborn 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

Azerbaijan Rhesus Haemolytic Disease of the Newborn RHD Needs Assessment Calculator 3: Quantitative assessment of interventions

Table SCD-NA3a	Estimated prevalence in the absence of interventions for Sickle Cell Disease		
Indicator	Number (n)	Prevalence (n/1000)	
Potential live births			
Potential still births			

Table RHD-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 anti D prophylaxis				
Effect of prenatal diagnosis and treatment				
Effect of neonatal diagnosis				
Effect of treatment of newborn				
Overall effect				

Table RHD-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 anti D prophylaxis					
Effect of prenatal diagnosis and treatment					
Effect of neonatal diagnosis					
Effect of treatment of newborn					
Overall effect					

Table RHD-NA3d	Current situation in relation to interventions after birth			
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 LB	
Newborn diagnosis				
Phototherapy				
Blood transfusion				
Social care and support				
Overall effect				

Table RHD-NA3e	Target situation in	Target situation in relation to interventions after birth			
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 LB		
Newborn diagnosis					
Phototherapy					
Blood transfusion					
Social care and support					
Overall effect					

Table RHD-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	0	
Still births (SB)		0	0	
All births (LB+SB)		0	0	
Estimated population prevalence				·
All age groups				
Estimated mortality			·	·
Neonatal deaths		0	0	
Infant deaths		0	0	
Under-5 deaths		0	0	