PHG Needs Assessment Calculator Jamaica Congenital Hypothyroidism

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(There is no sheet CHT-NA2.)

Please note condition specific data in this sheet relates to thyroid a/dysgenesis, plus the rare inherited thyroid disorders, as detected by neonatal screening in countries without iodine deficiency.

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	Your estimates			Chosen estimates		
Age group	Male	Female	Total	Male	Female	Total	Male	Female	Total	
0-4 years	84750	80949	165699			0			0	
5-9 years	76712	72853	149565			0			0	
10-14 years	91644	86689	178333			0			0	
15-19 years	118623	113451	232074			0			0	
20-24 years	133182	127309	260491			0			0	
25-29 years	121939	115975	237914			0			0	
30-34 years	107082	105113	212195			0			0	
35-39 years	111838	115139	226977			0			0	
40-44 years	116057	123204	239261			0			0	
45-49 years	122560	133388	255948			0			0	
50-54 years	109092	127714	236806			0			0	
55-59 years	85512	106891	192403			0			0	
60-64 years	68120	95950	164070			0			0	
65+ years	180399	354685	535084			0			0	
Total	1527510	1759310	3286820	0	0	0	0	0	0	
Female population aged 15-44 years		700191			-			-		
Data year		2010 report								
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	18.22	Unicef, 2013				
Still birth rate (SB): Still births (SB) / year / 1000 total births	12.51	WHO, 2009				
Total births in 1000s (LB+SB) per year	50	Unicef, 2013				
Infant mortality rate: infant deaths / 1000 LB / year	15.7	Unicef, 2013				
Under-5 mortality rate: U5 deaths / 1000 LB / year	18.3	Unicef, 2013				
Percentage births in women >35 years						
Life expectancy at birth (yrs)	73.13	Unicef, 2013				
% of marriages consanguineous						

Maternal health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Prenatal visits – at least 1 visit (%)	99.0	Unicef, 2013				
Prenatal visits – at least 4 visits (%)	87.0	Unicef, 2013				
Births attended by skilled health personnel (%)	98.3	Unicef, 2013				
Contraception prevalence rate (%)	72.3	Unicef, 2013				
Unmet need for family planning (%)	11.7	WHO, 2003				
Total fertility rate	2.30	Unicef, 2013				
% home births						
% births at health care services	97.10	Unicef, 2013				
Newborn health	Estimate	Source, Year	Your estimate	Source, Year	Chosen estimate	Source, Year
Number of neonatal examinations by SBA / trained staff						
% neonatal examinations by SBA/ trained staff						

Socio-economic indicators	Estimate	Source, Year		Chosen estimate	
Gross national income per capita (PPP int. \$)	7770	Unicef, 2013			
% population living on < US\$1 per day	<2.0	Unicef, 2013			
Birth registration coverage (%)	97.8	WHO 2008			
Death registration coverage (%)					

LB = live births

PPP = purchasing power parity

SBA = skilled birth attendant

Jamaica 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. \$)	391.6	WHO 2011				
Total expenditure on health as percentage of GDP	4.9	WHO 2011				
Per capita government expenditure on health (PPP int. \$)	212	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	54.1	WHO 2011				
Out-of-pocket expenditure as percentage of private expenditure on health	71	WHO 2011				
Private expenditure on health as percentage of total expenditure on health	45.9	WHO 2011				
General government expenditure on health as percentage of total government expenditure	6.6	WHO 2011				

		Source,	Your	Source,	Chosen	Source,
Health Workforce	Estimate	Year	estimate	Year	estimate	Year
Number of nursing and midwifery personnel	4374	WHO, 2003				
Nursing and midwifery personnel density (per 10,000 population)	16.5	WHO, 2003				
Number of physicians	2253	WHO, 2003				
Physician density (per 10 000 population)	8.5	WHO, 2003				
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

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Congenital Hypothyroidism
CHT 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(/1	000)					
Live birth prevalence (LB)			0.10			
Stillbirth prevalence (SB)			0.00			
Total birth prevalence (LB+SB)			0.10			
All age groups						
<1 year olds			0.09			
1-4 year olds			0.09			
5-14 year olds						
15-44 year olds						
45+ year olds						
Number of cases by age group	·		·		<u> </u>	<u> </u>
Annual live births			5			
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			0			
No. deaths 1-4 yrs			0			
No. deaths < 5 yrs			0			
Infant mortality / 1000 LB			0.00			
Under-5 mortality / 1000 LB			0.00			
Years of life lost						

LB = live births *Treated and effectively cured, **Treated with residual disability, ***Untreated disorder

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Congenital Hypothyroidism
CHT Epidemiology 1.2: International comparison

	Your chosen			
Epidemiological indicator	estimates	Country	Region	World
Prevalence at birth and by age-group (/1000 people)			(Caribbean)	
Live birth prevalence (LB)		0.10	0.10	0.21
Stillbirth prevalence (SB)		0.00	0.00	0.00
Total birth prevalence (LB+SB)		0.10	0.10	0.22
All age groups				
<1 year olds		0.09		
1-4 year olds		0.09		
5-14 year olds				
15-44 year olds				
45+ year olds				
Number of cases by age-group				
Annual live births		5	72	28669
All age groups				
<1 year olds				
1-4 year olds				
5-14 year olds				
15-44 year olds				
45+ year olds				
No. cases by level of impairment				
No or minimum disability				
Moderate disability				
Severe disability				
Mortality and morbidity				
Mean life expectancy (yrs)				
No. deaths < 1yr		0	0	0
No. deaths 1-4 yrs		0	0	0
No. deaths < 5 yrs		0	0	0
Infant mortality / 1000 LB		0.00	0.00	0.00
Under-5 mortality / 1000 LB		0.00	0.00	0.00
Years of life lost				
R = live births *Treated and effectively cured **Treated with	recidual disability ***I In	treated disorder		

LB = live births *Treated and effectively cured, **Treated with residual disability, ***Untreated disorder

Congenital Hypothyroidism

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

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

Estimates for the total country/territory	Number of affected live births	LB prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			
Estimates for the total country/territory	Number of affected still births	SB prevalence / 1000 TB	Comments
Best estimate			
Lower estimate			
Higher estimate			

TB = total births (live births + stillbirths); ToP = termination of pregnancy

Congenital Hypothyroidism

CHT 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 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

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CHT 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 total births)	#DIV/0	! #DIV/0!	
Estimated completeness of recording: what proportion of true affected live births in your data source were recorded?			Range: 0 to 1
Estimated coverage of recorded live births (number of recorded live births / total live births in country or territory)			Range: 0 to 1
Estimated live birth prevalence (recorded prevalence / completeness)	#DIV/0	#DIV/0!	
Estimated true number of affected live births in data source (number of recorded affected live births / completeness)	#DIV/0	! #DIV/0!	
Estimated number of affected live births in total population (number of affected live births from data source / (coverage x completeness))	#DIV/0	! #DIV/0!	
Stillbirth prevalence: recorded and estimated			
Recorded stillbirth prevalence (affected recorded still births / 1000 recorded total births)	#DIV/0	! #DIV/0!	
Estimated completeness of recording: what proportion of true affected stillbirths in your data source were recorded?			Range: 0 to 1
Estimated coverage of recorded stillbirths (number of recorded still births / total still births in country or territory)			Range: 0 to 1
Estimated stillbirth prevalence (recorded prevalence / completeness)	#DIV/0	#DIV/0!	
Estimated true number of affected stillbirths in data source (number of recorded affected still births / completeness)	#DIV/0	#DIV/0!	
Estimated number of affected still births in total population (number of affected still births from data source / (coverage x completeness))	#DIV/0	#DIV/0!	

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

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

Estimates for the whole country/territory	Number of affected live births	LB prevalence / 1000 TB
Best estimate		
Lower estimate		
Higher estimate		
Estimates for the whole country/territory	Number of affected stillbirths	SB prevalence / 1000 TB
Estimates for the whole country/territory	italiber of affected stillbirtins	ob prevalence / 1000 1b
Best estimate	ramber of allested stillbirths	ob prevalence / 1000 1B
		prevalence / 1000 1D

TB = total births (live births + stillbirths)

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Congenital Hypothyroidism
CHT Epidemiology 2.4: Summary of affected pregnancies

Indicator	Your estimates	Range	PHGDB minimum estimates	Chosen estimates	Range	Source
Number of annual affected live births			5			
Annual birth prevalence / 1000 TB			0.10			
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 sub-types would have different implications for advocacy, and (b) whether a sub-type might require a full, specific needs assessment.

TB = total births (live births + stillbirths);

Congenital Hypothyroidism

CHT 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); ToP = termination of pregnancy

Congenital Hypothyroidism

CHT 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			

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CHT 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!	
	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!

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Congenital Hypothyroidism

CHT Epidemiology	3.3: Mortality data	: Other sources
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Source, yea	ar, 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	Value	Ratio/1000 LB	Value	Ratio/1000 LB	Value	Ratio/1000 LB
country/territory						
Best estimate						
Lower estimate						
Higher estimate						

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Congenital Hypothyroidism
CHT 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)			52			
Number of annual affected neonatal deaths			0			7
Number of affected neonatal deaths / 1000 LB			0.00	1		
Number of annual affected infant deaths			0	1		
Number of affected infant deaths/ 1000 LB			0.00			
Number of annual affected under-5 deaths			0			
Number of affected under-5 deaths / 1000 LB			0.00			
Mean life expectancy at birth in affected people						
Other indicators (e.g. survival following surgical procedure, etc)						

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Congenital Hypothyroidism
CHT 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

		Cause-specific, group-specific infant	Reason for variation
Population sub-group	affected persons	mortality ratio / 1000 LB	

			Reason for variation	
Population sub-group	affected persons	under-5 mortality ratio / 1000 LB		

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

Congenital Hypothyroidism

CHT Epidemiology 4.1: Population prevalence: Research studies

Study, year, site	Study quality and representativeness	Main findings

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

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

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

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CHT 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			

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CHT 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				

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CHT 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)

Congenital Hypothyroidism

CHT Interventions 1: Effect of newborn diagnosis and treatment

Baseline birth prevalence of CHT, per 1000 total births*		
Variables		
Coverage of newborn screening		Range: 0 to 1
Proportion of positive-screened patients receiving diagnosis treatment		Range: 0 to 1
Effectiveness of treatment		Range: 0 to 1
Results		
Proportional reduction of uncontrolled cases of CHT through NBS and treatment ¹	0	
Prevalence of uncontrolled CHT after newborn screening and treatment, per 1000 total births²	0	

LB = live births

CHT = congenital hypothyroidism

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

 $^{^{2}}$ Baseline birth prevalence – (Proportional reduction of uncontrolled cases of CHT X Baseline birth prevalence)

Congenital Hypothyroidism

CHT Needs assessment 1: Quantitative baseline

Table CHT-NA1a Burden of Congenital Hypothyroidism in pregnancy, at birth and at population level

		Chosen estimates		
Indicator	` ′		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	0	0	0	Drawn from sheet E1.1

Table CHT-NA1b Congenital Hypothyroidism mortality indicators

Table of the transfer and trans					
		Chosen estimates			
Indicator	Number (n)	•	Range of prevalence (/1000 LB)		
Annual overall mortality	()		Drawn from sheet E3.4	
Annual neonatal mortality	(0	0	Drawn from sheet E3.4	
Annual infant mortality	(0	0	Drawn from sheet E3.4	
Annual under-5 mortality		0	0	Drawn from sheet E3.4	
Mean life expectancy at birth in			0	Drawn from sheet E3.4	

TB = total births (live births + stillbirths)

LB = live births

Congenital Hypothyroidism

CHT Needs assessment 3: Quantitative assessment of interventions

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

Table CHT-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 iodine fortification					
Effect of iodine supplementation					
Overall effect					

Table CHT-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 iodine fortification				
Effect of iodine supplementation				
Overall effect				

Table CHT-NA3d	Current situation in	Current situation in relation to interventions after birth				
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 LB			
Effect of newborn screening						
Effect of newborn diagnosis						
Treatment services						
Overall effect						

Table CHT-NA3e	Target situation in relation to interventions after birth				
Intervention	Coverage (%)	Cases managed (n)	Cases managed/1000 LB		
Effect of newborn screening					
Effect of newborn diagnosis					
Treatment services					
Overall effect					

Table CHT-NA3f	Current and desired outo	omes				
	Current situation		Target situation			
Indicator	Annual number (n)	Prevalence (n/1000)	Annual number (n)	Prevalence (n/1000)		
Estimated affected pregnancies						
Live births (LB)	0	0				
Stillbirths (SB)	0	0				
Total births (LB+SB)	0	0				
Estimated population prevalence						
All age groups						
Estimated mortality / 1000 live births						
Neonatal deaths	0	0				
Infant deaths	0	0				
Under-5 deaths	0	0				