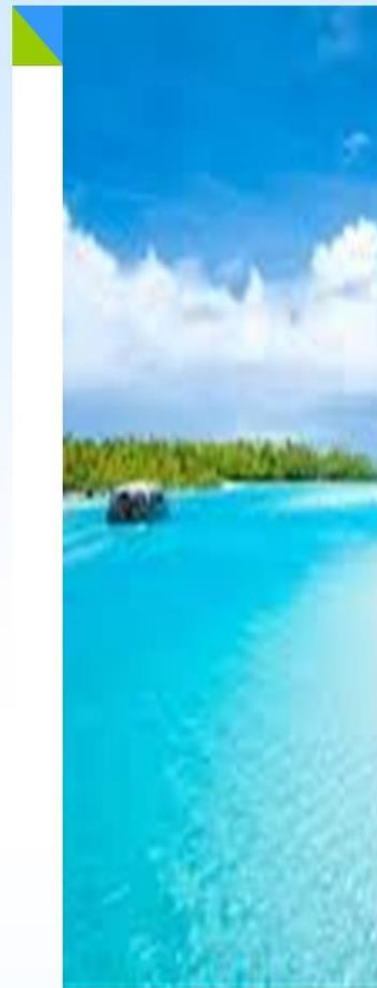
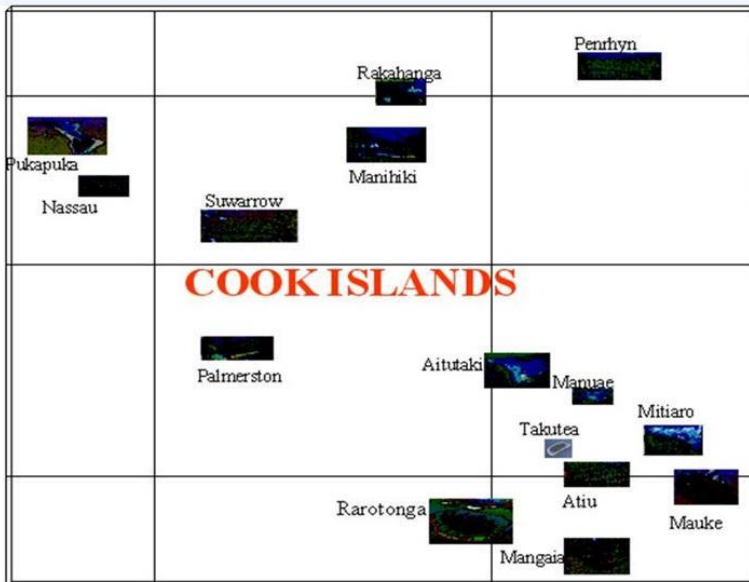


National Health Information Bulletin 2014

STATISTICS FOR THE NATIONAL HEALTH STRATEGY 2012 - 2016



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PREFACE

The Health Information Unit continues to provide key statistical information on the health status of the Cook Islands for the years up to 2014. This document is designed to provide in a convenient publication format the latest information on an annual basis. These statistics are presented as time series for the past five to ten years.

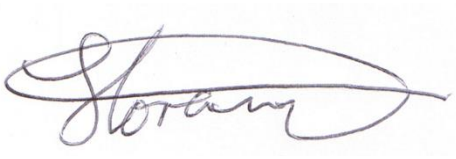
This is the results' of several years of dedication invested by all those involved, including the Outer Islands, in the compiling of once again this useful document. For the first time information contained in this report are mostly extracted from the Ministries electronic database MedTech32 that was established in late 2004. Unfortunately this has taken the workforce at least three years to learn the system and its utilities in the capacity of storing patient health data.

The information contained in this report will be used by the Ministry of Health (MOH) to assist in identifying public health needs, in formulating future plans and advise the Minister of Health on how needs should be addressed, and in assessing progress towards the health outcome targets.

We believe that this report will also be of interest to others, because it provides information that is needed to debate about health needs and priorities that will benefit the people of the Cook Islands. It also provides key health indicators for creating framework adopted for our planners both in the public and the private sectors.

It is our aim to ensure that government and the wider Community including International users, are provided with timely, reliable and quality health statistics.

For more detailed information or for information on subjects not dealt with or of individual interests, inquiry should be made through the Secretary of Health and the Director of Funding and Planning.



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Mr Tearoa M.C. Iorangi

MANAGER HEALTH INFORMATION UNIT

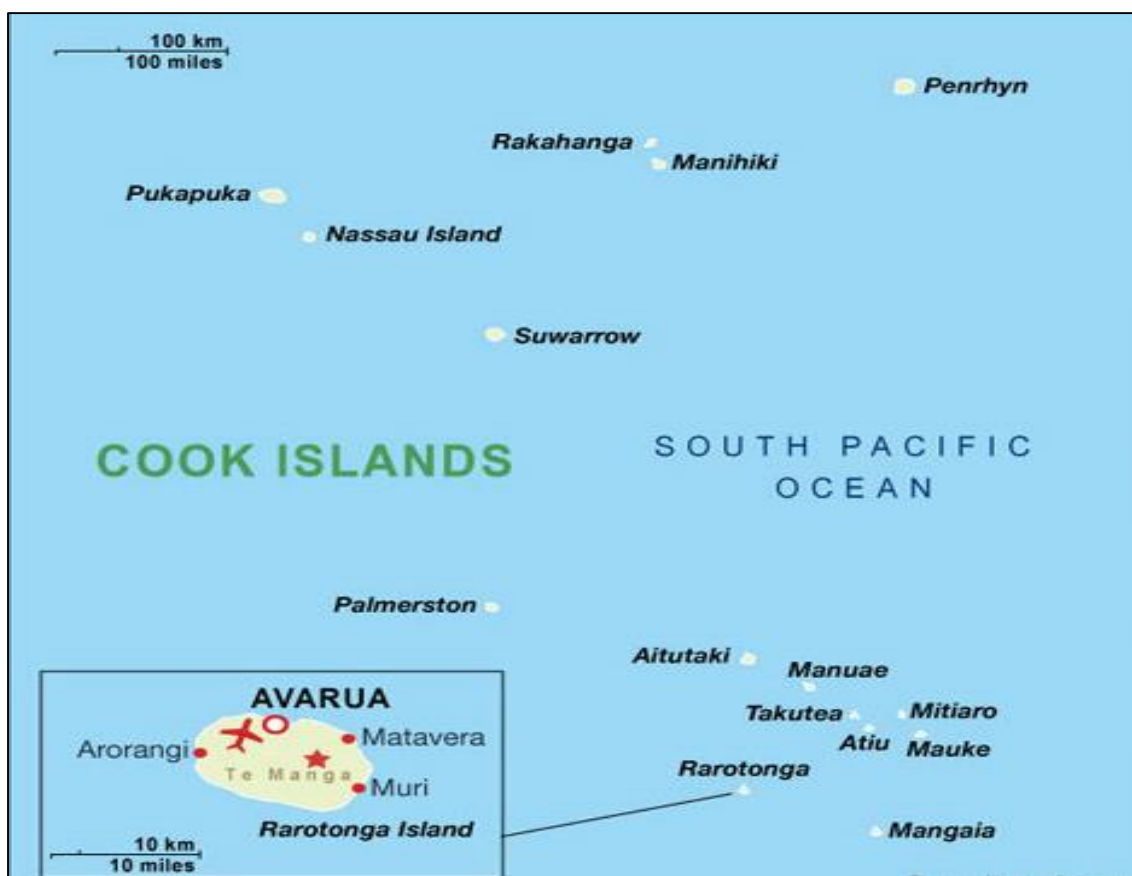
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THE COOK ISLANDS

The Cook Islands is made up of 15 islands, and they are scattered over 2 million square kilometers of the Pacific Ocean. The islands are located within 8 and 23 degrees south, and between 156 and 167 degrees west. The islands are named after Captain James Cook who visited them in 1773 and 1777. In 1888, the Cook Islands became a British protectorate and were transferred to New Zealand in 1901. In 1965, the Cook Islands chose to become self-governance in free association with New Zealand.

The Cook Islands are geographically divided into two groups, the Southern and the Northern groups. Both regions are markedly different in their social and economic status. The islands that are included in the Southern are, Aitutaki, Manuae, Takutea, Atiu, Mitiaro, Mauke, Rarotonga and Mangaia. The Northern groups are made up by the islands of Suwarrow, Nassau Island, Pukapuka, Rakahanga, Manihiki and Penrhyn. Rarotonga is the main island for the entire islands of the Cook Islands.



Source: www.worldtravels.com

Population profile

The total population of the Cook Islands as reported in the 2011 Census is 17,794. This number includes both resident and visitors that were present during the Census period, but does not include those Cook Island residents that were away during that time. This population count, reflects a decrease of 1,775 people from the 2006 Census (19,569). Of the total population, there were more males (51%) compared to the female (49%) population. The Cook Islands have a young and youthful population (15 – 29 year age groups), and this age group

makes up about 23% of the total population. Rarotonga, being the main island of administration hold most of the populations (14,153), while the second largest are located in the Southern group (excluding Rarotonga) 4,032 people and the rest in the Northern Group with 1,384 people.

Table 1: Populations by region and age groups, Cook Islands, 2011

Region	Age Group				Total
	0-14	15-44	45-59	> 59	
	<u>Total Population</u>				
COOK ISLANDS	4,627	7,584	3,204	2,379	17,794
Rarotonga	3,119	5,904	2,395	1,677	13,095
Southern Group excl. Raro	1,081	1,275	629	601	3,586
Northern Group	427	405	180	101	1,113
	<u>Resident Population</u>				
COOK ISLANDS	4,332	6,130	2,590	1,925	14,977
Rarotonga	2,869	4,594	1,836	1,273	10,572
Southern Group excl. Raro	1,036	1,131	574	552	3,293
Northern Group	427	405	180	100	1,112
	<u>Percentage Distribution - Total population</u>				
COOK ISLANDS	26	42.6	18	13.4	100
Rarotonga	23.8	45.1	18.3	12.8	73.6
Southern Group excl. Raro	30.1	35.6	17.5	16.8	20.2
Northern Group	38.4	36.4	16.2	9.1	6.3

Migration

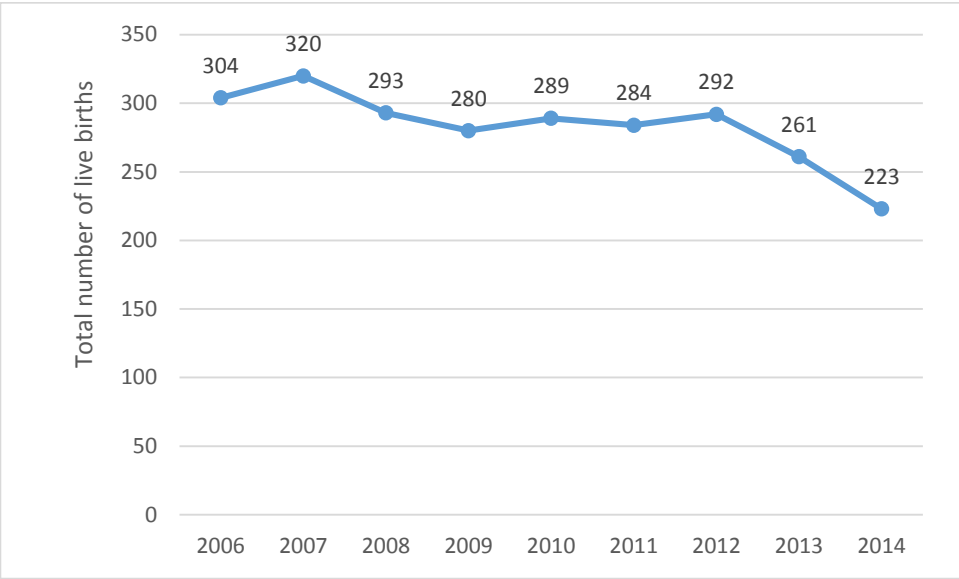
The Cook Islands is facing depopulation with increased outward migration and reduced fertility. Since the radical economic reform during the 1990s, many of the public servants were put on redundant. Although some were re-employed, however the majority migrated overseas mainly to New Zealand and Australia. The main incentives for the moves were for better education, higher wages and more jobs. Most of the people that migrated were people below the age of 35 years. Between the period of 1996 and 2001 about 50% of the people who migrated were between ages of 15 and 34 years. Having a high number of young people migrating overseas can put the long term sustainability of our nation under threat.

Migration is not only prevalent in Rarotonga, but also in the outer islands. Most of the people from the outer islands are either traveling to Rarotonga or directly overseas. To date, there are more Cook Islanders living in New Zealand and Australia compared to the population residing in the Cook Islands.

Births

The total number of births occurring in the Cook Islands continued to decline over the last nine years (2006-2014). Between this periods, the number of total births varied between 300 and 200. The highest number were recorded in 2007 (320) and lowest in 2014 (223).

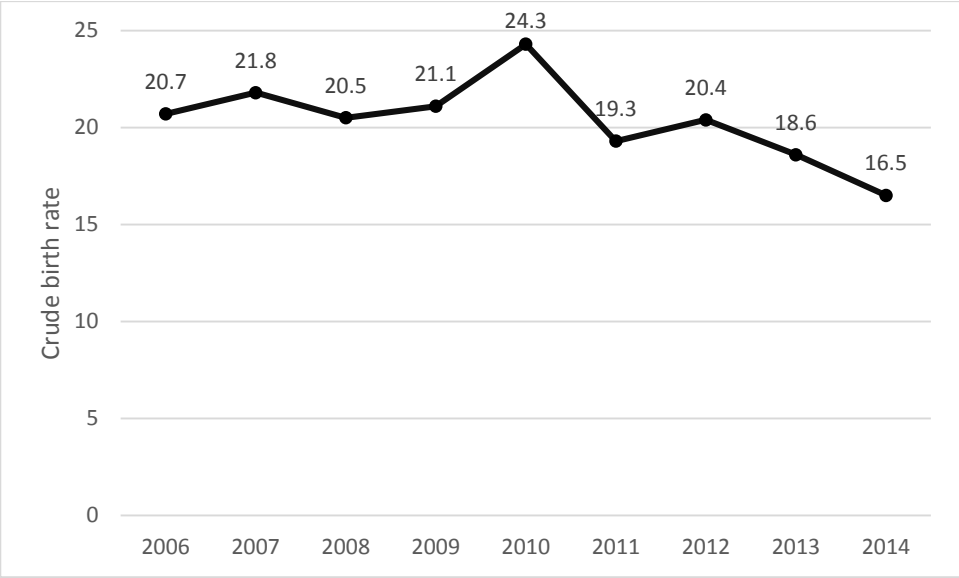
Figure 1: Total number of live births, Cook Islands, 2006 – 2014



Crude birth rates

Crude birth rates (CBR) depicts the number of live births happening in a year per 1,000 population. As illustrated below, our CBR is declining from 22 births per 1,000 population in 2006 to about 17 births per 1,000 population in 2014.

Figure 2: Crude birth rates, Cook Islands, 2006-2014



Births by Islands

Majority of the women throughout all years (2010-2014) were giving birth on the island of Rarotonga and this is because most of the women resides on this island. A small proportion of this number were pregnant women referred to from the outer islands that required further management and care.

Table 1: Percentage distribution of deliveries by Islands, Cook Islands, 2010 - 2014

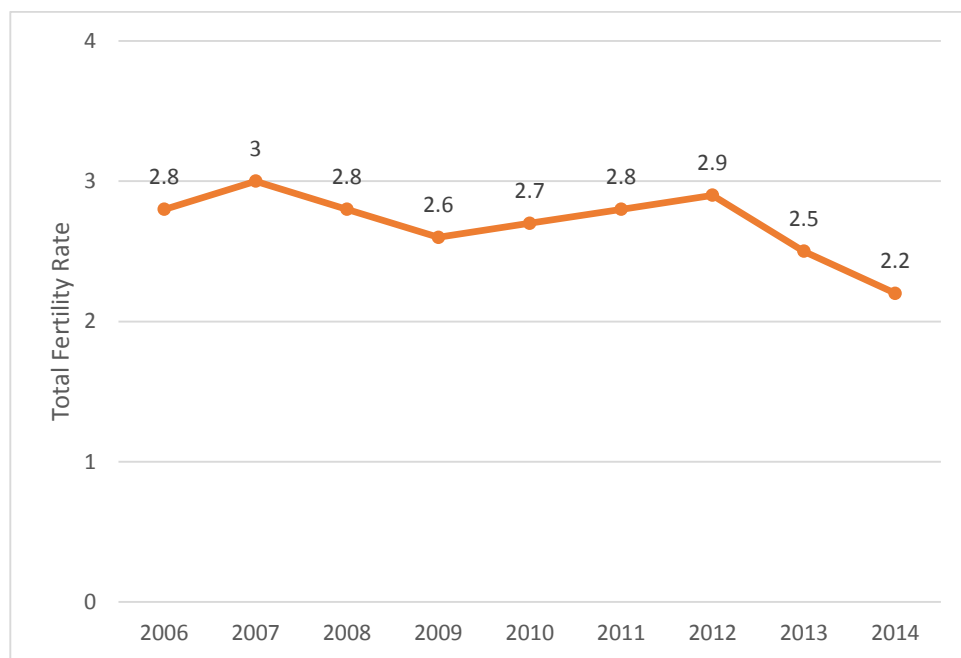
	2010	2011	2012	2013	2014
Rarotonga	88	89	88	87	94
Aitutaki	8	7	7	8	4
Mangaia	1	0	0	1	0
Atiu	1	1	1	0	0
Mauke	0	0	0	0	0
Mitiaro	0	0	0	0	0
Palmerston	0	0	0	0	0
Pukapuka/Nassau	3	1	3	3	1
Manihiki	0	1	0	0	0
Rakahanga	0	0	0	0	0
Penrhyn	0	0	0	0	0

Note*: number is in percentage (%)

Fertility

Total fertility rate is the average number of children born per woman during her childbearing years (15-49 years). In the Cook Islands, fertility have declined from an average of three children per women in 2006 to two children per women in 2014.

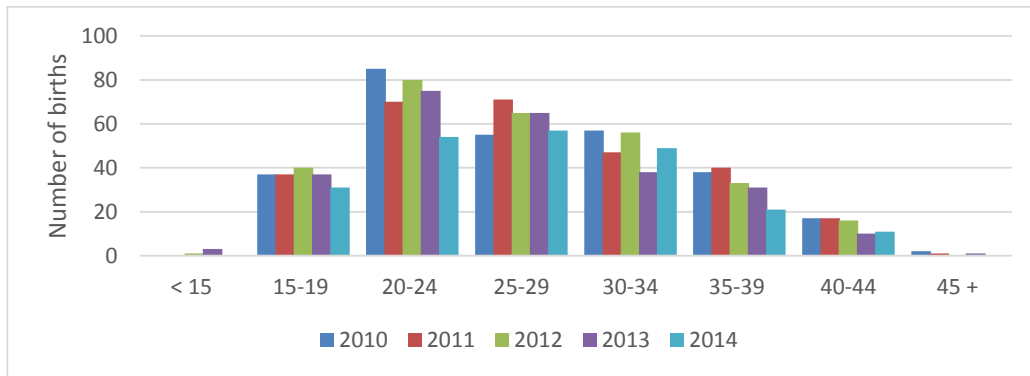
Figure 3: Total fertility rate, Cook Islands, 2006 - 2014



Births by age groups

The Cook Islands National Youth Policy 2015 – 2020 defines young people as those aged between 15 and 24 years. As shown below (figure 4), majority of our births occur around young teenage mothers aged 15 to 24 years. Teenage pregnancy is a major concern for the Cook Islands, even though the numbers have gradually declined over the four year period (2010-2014). Being a mother at a young age can increase the risks of death for both the mother and child. Health risks associated with their pregnancies are more prevalent compared to older women.

Figure 4: Births by age groups, Cook Islands, 2010-2014

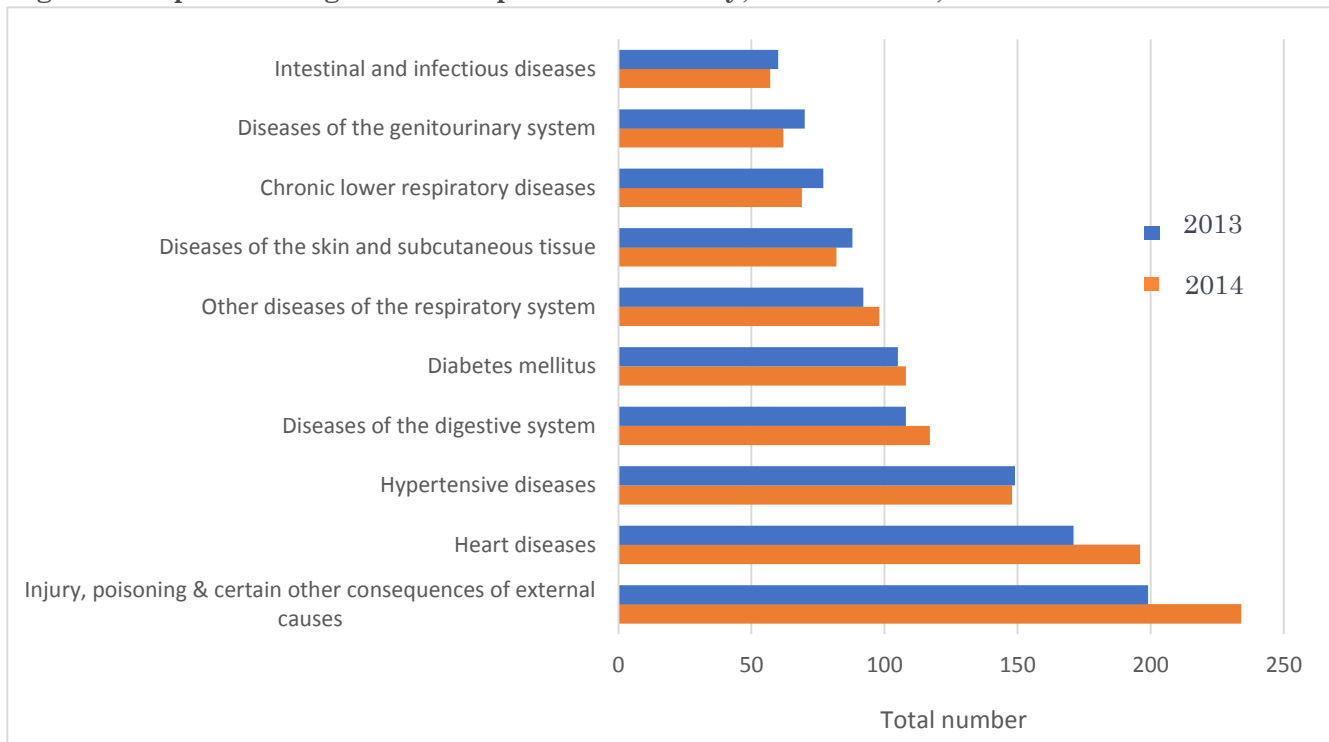


Morbidity (diseases)

Top 10 leading cause of inpatient morbidity

In 2014, diseases reported in the Rarotonga hospital for those been admitted for any sort of complaints total to 2,031 (972 were males and 1,059 were females). The top 10 leading cause of inpatient morbidity for the year 2014 and 2013 are shown below in figure 7. Injury, poisoning and certain other consequences of external causes lead the top causes of inpatient morbidity, followed by heart disease, hypertensive and disease of the digestive system.

Figure 7: Top 10 leading cause of inpatient morbidity, Cook Islands, 2013-2014

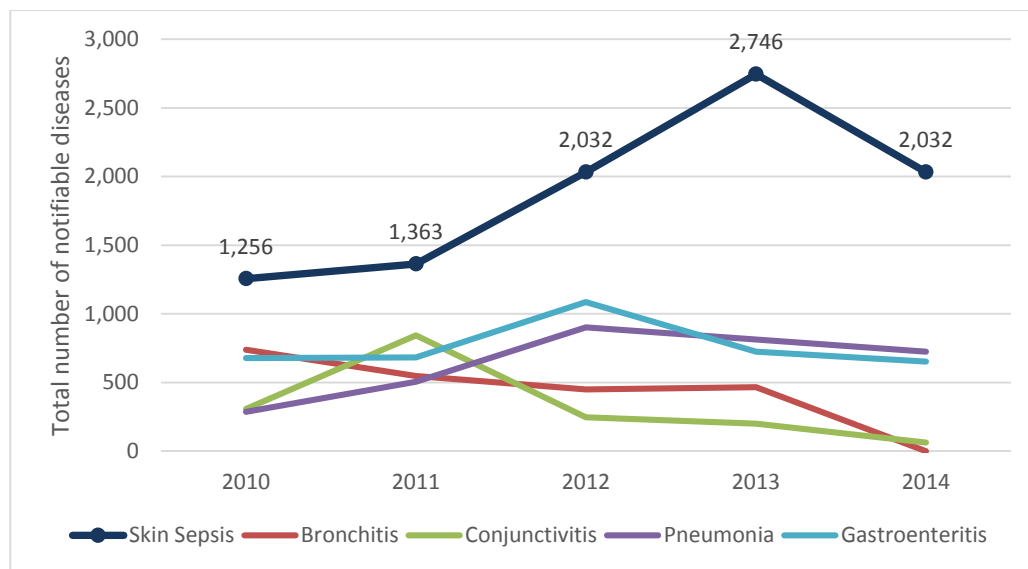


Notifiable diseases

Top five notifiable diseases

The top five infectious diseases reported in the Cook Islands between 2010 and 2014 are, skin sepsis, bronchitis, conjunctivitis, pneumonia and gastroenteritis. Sepsis leads the five notifiable diseases reported, with the highest number (2,746) reported in 2013 and the lowest in 2014.

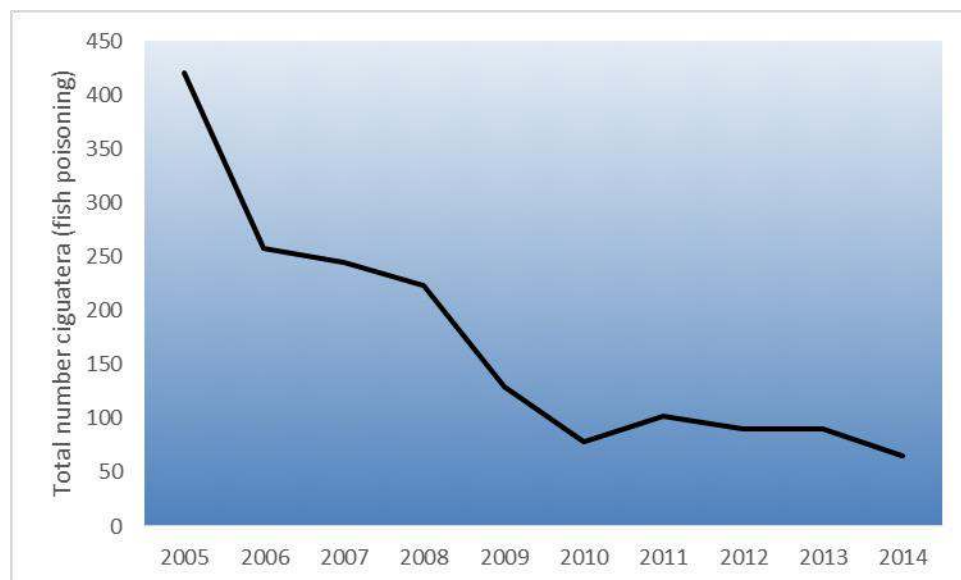
Figure 8: Top five notifiable diseases, Cook Islands, 2010 - 2014



Ciguatera poisoning

Ciguatera is a food borne illness caused by eating fish that is contaminated by ciguatera toxin. Ciguatera toxins are commonly found among large reef fishes. The toxin is harmless to the fish, however when consumed by human being, they become poisonous and can cause nausea, pain, cardiac and neurological symptoms. In 2005, the number of ciguatera cases seen at the hospital were the highest (420) and since then, the number consistently declined throughout.

Figure 9: Total number of Ciguatera (fish poisoning), Cook Islands, 2005 – 2014



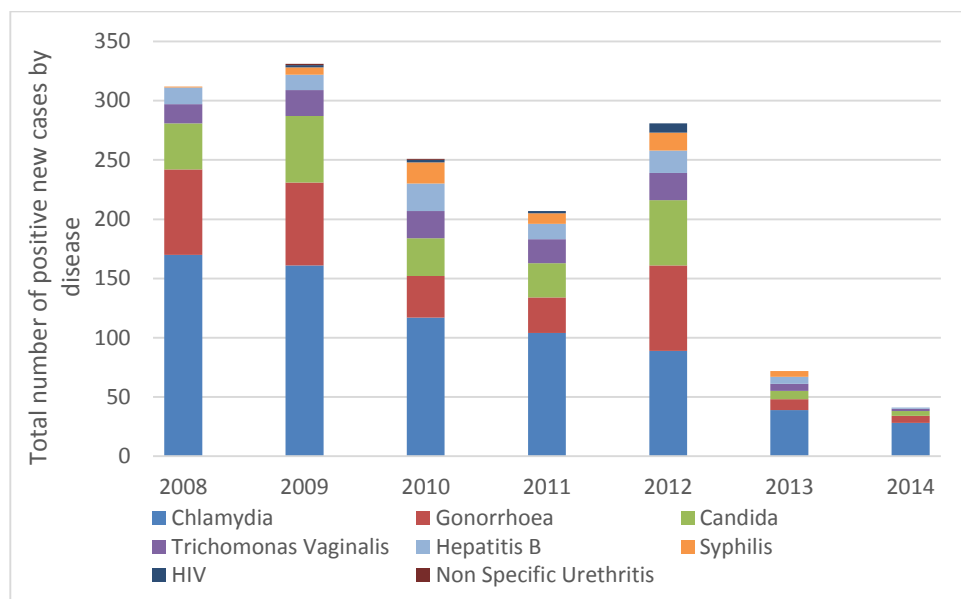
In 2005, it was estimated about 420 ciguatera cases were seen in the hospital.

In 2014, the number has decreased to 65

Sexually Transmitted Diseases

Sexually transmitted diseases (STD's) have dramatically declined within the last six year periods (2008-2014), from a total of 312 in 2008 to 41 in 2014. Chlamydia and gonorrhoea continues to be the most prevalent type of STD's throughout all periods making over half of the total number of STD's.

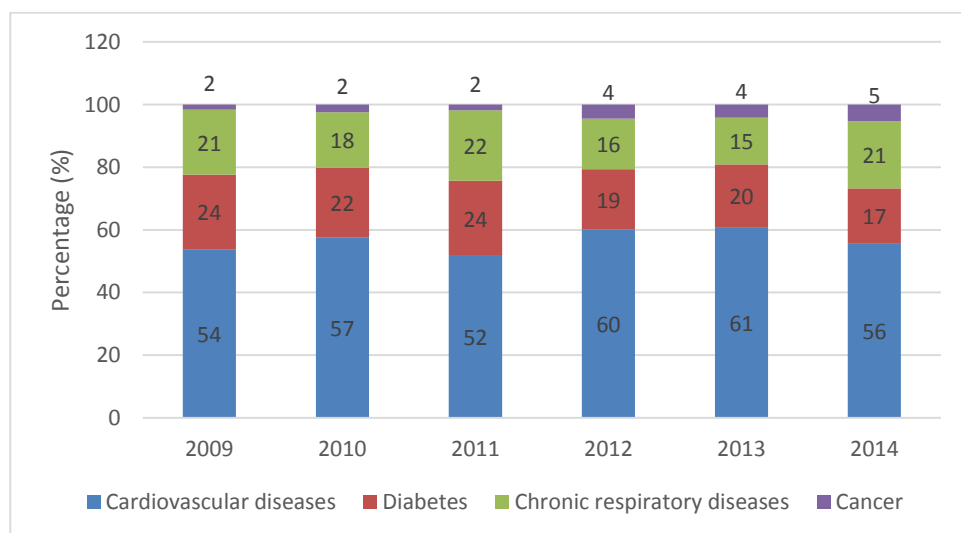
Figure 10: Positive new cases by disease and year, Cook Islands, 2008 – 2014



Non Communicable Diseases (NCD)

The Cook Islands is facing an epidemic of NCD, and with this rising burden it's impacting on our health and development at all income levels. The four main NCD that is impacting the health of Cook Islanders are, cardiovascular diseases, diabetes, chronic respiratory diseases and cancer. As shown below (figure 11), over time (2008-2014), we can see that the total number of NCD cases identified each year has steadily decreased, with the highest number recorded in 2009 (425) and the lowest in 2014 (321). Over half of the newly identified NCD's were cardiovascular, averaging at about 199 newly identified cardiovascular cases per year.

Figure 11: Percentage distribution for new cases for cardiovascular diseases, Diabetes, Cancer and Chronic Respiratory Diseases, Cook Islands, 2009 - 2014



Cancer

As depicted below in, since 2005 to 2014, there were 176 newly identified cancer cases averaging at 17 cases per year. Almost 53% of the cases reported during the same period were men. In 2014, we can see there is a sudden spike in the number of men identified with cancer and this correlates at the same time when the Prostate Cancer awareness program was initiated. As a result this program led to more men attending clinics and screened with prostate cancer.

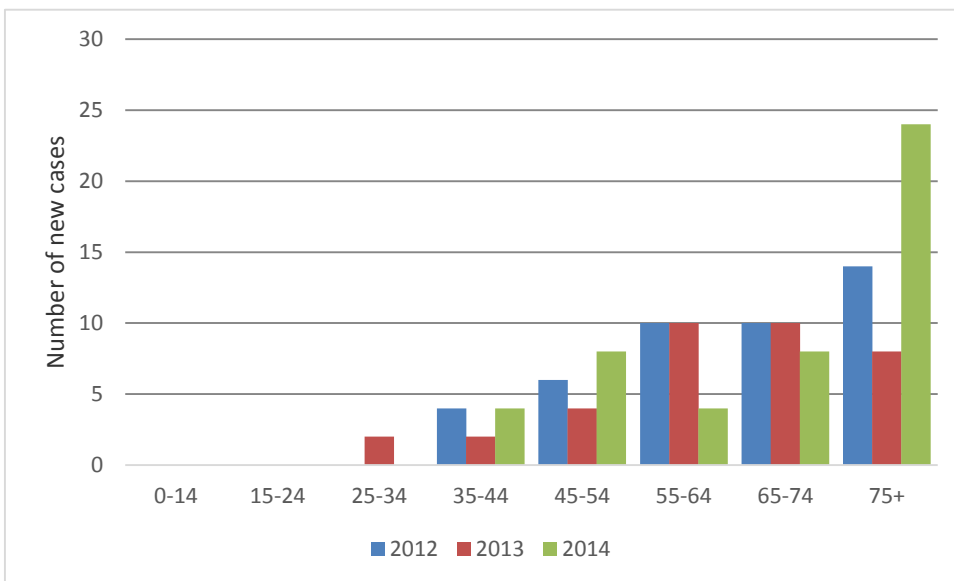
Figure 12: Total number of new cases for Cancer, by sex, Cook Islands, 2005 – 2014



Incidence of cancer cases by age groups

As show below, the chances of anyone getting cancer increases as the individual ages. Over 90.6% of the newly identified cancer cases were those aged 45 years and onwards.

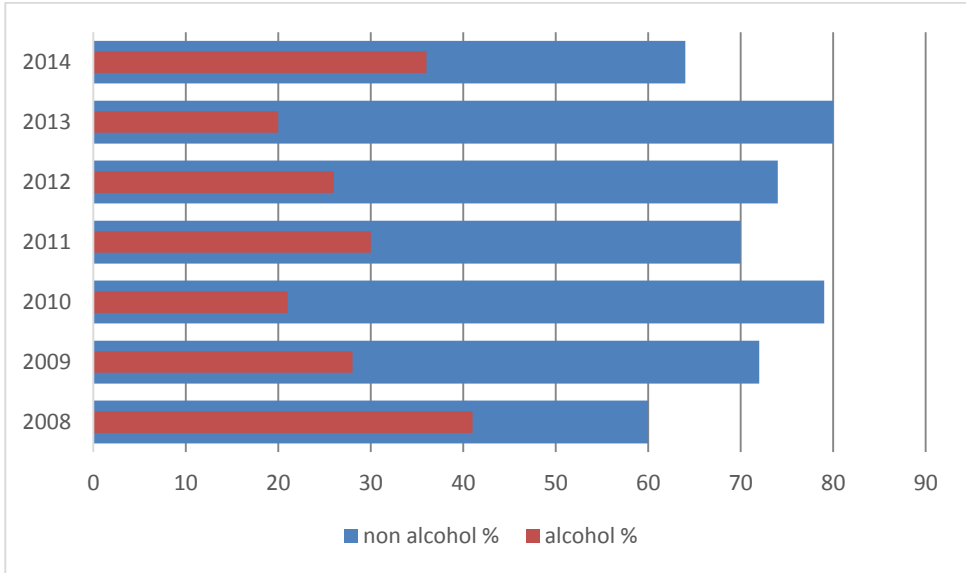
Figure 13: Number of new cases by age groups, Cook Islands, 2012-2014



Alcohol related accidents by year

Majority of our accidents in the Cook Islands are non-alcohol related. It is suspected by our medical officers, the main cause of our non-alcohol related accidents are a result of speeding and careless driving on public roads. In 2008, about 60% of our motor vehicle accidents were non alcohol related and 40% were alcohol related. In 2014, about 64% were non-alcohol related and 36% were alcohol related.

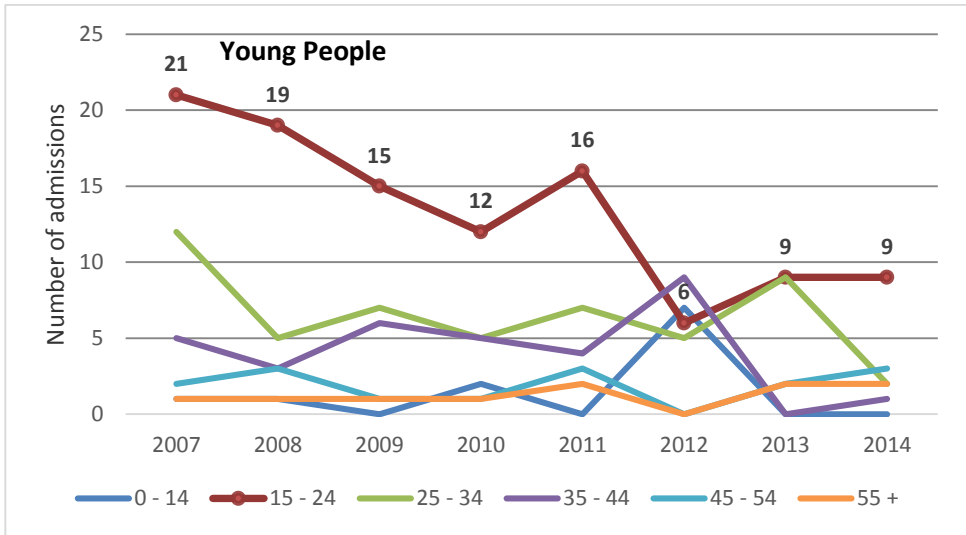
Figure 14: Percentage distribution of alcohol related accidents by year, Cook Islands, 2008-2014



Alcohol related transport accidents by age groups and year

The legal age for consuming alcohol in the Cook Islands is 18 years and as shown on our graph, majority of our alcohol related accidents are found within the age groups of 15 – 24 years. This indicates that there are underage drinking occurring and warrants attention. Although the trend has significantly fallen since 2007, young people are still the leading group for alcohol related accidents in all years and mainly for those admitted and for serious cases.

Figure 15: Alcohol related accidents by age groups, Cook Islands, 2007-2014

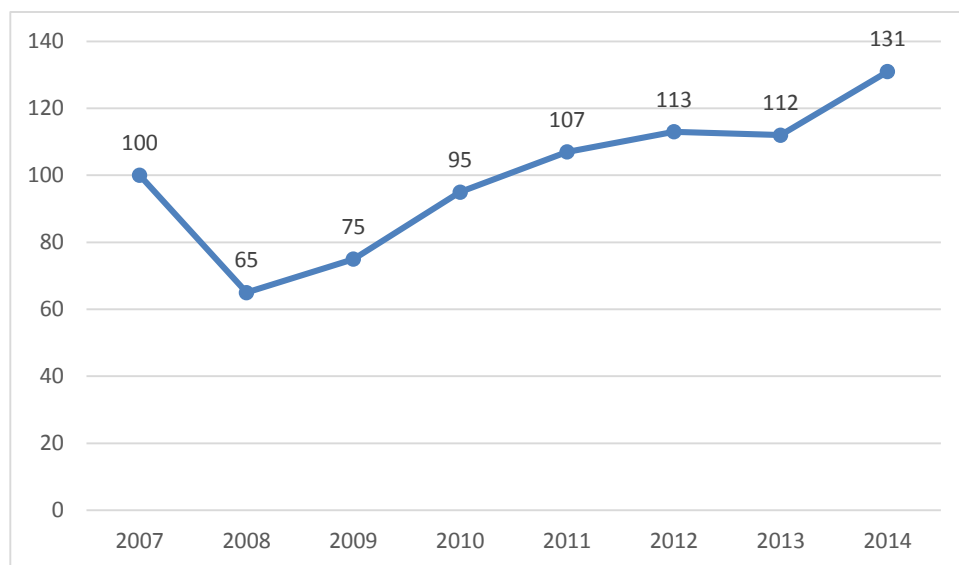


Mortality (deaths)

Total deaths by year

The total number of deaths reported to Cook Island residents from 2007 to 2014 was 798. The lowest number of death recorded were in 2008 and the highest in 2014. On average, a total of 100 deaths per year occurred over the last 8 years (2007-2014).

Figure 16: Total number of deaths by year, Cook Islands, 2007-2014



Note* only include deaths occurring in the Cook Islands, excluding tourists

Total deaths by Islands

Majority of our deaths within the last four years (2010 – 2014) occurred on the island of Rarotonga and this is where most of the population resides. A proportion of the deaths occurring on Rarotonga are patients referred to from the outer islands.

Table 2: Percentage distribution of deaths by Islands, Cook Islands, 2007-2014

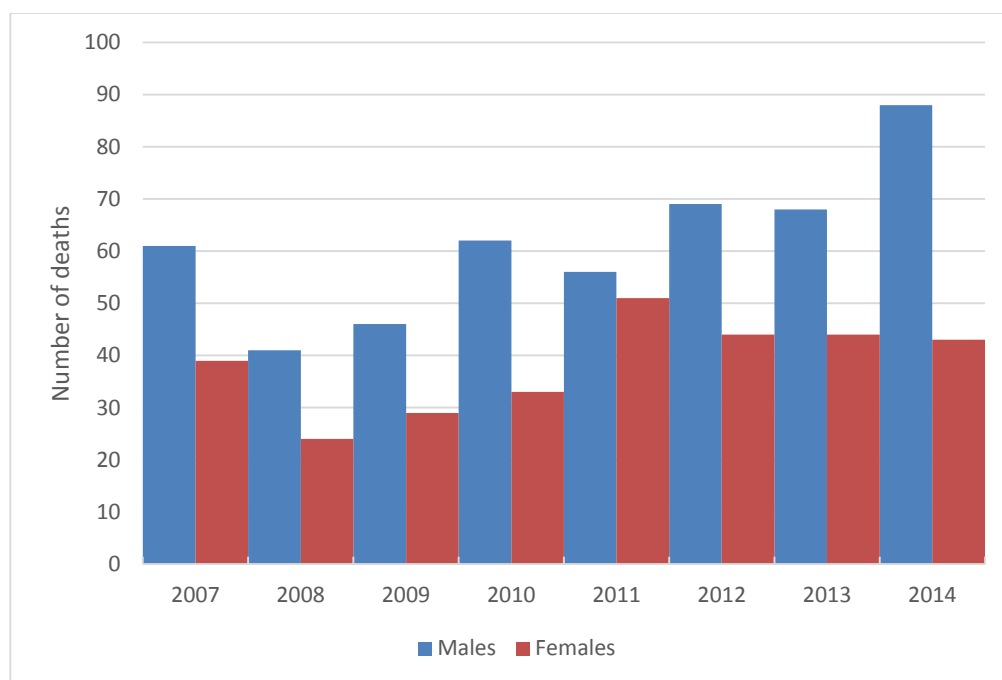
	2010	2011	2012	2013	2014
Rarotonga	69	66	74	72	71
Aitutaki	8	12	9	9	9
Mangaia	10	3	8	7	5
Atiu	1	3	2	3	8
Mauke	4	4	3	4	4
Mitiaro	2	4	2	2	1
Palmerston	0	0	0	1	0
Pukapuka/Nassau	3	3	2	1	1
Manihiki	2	3	1	1	1
Rakahanga	0	1	0	1	0
Penrhyn	0	3	0	0	1

Note*: number is in percentage (%)

Deaths by gender

As illustrated below, women tend to live longer compared to the male population. There are more men dying every year compared to women, with the highest number recorded in 2014 (88). On average, about 61 men die per year.

Figure 17: Total number deaths by sex, Cook Islands, 2007-2014



Deaths by age groups

As shown in our table below (table 3), the chances of any one dying increases as the individual ages. Majority of our premature deaths occurs around the age group of 45 and beyond. In the last two years (2013 and 14) the Cook Islands have maintained a zero infant mortality. Deaths are also notable among the young people, the highest was recorded in 2013 (8).

Table 3: Total deaths by age groups, Cook Islands, 2011-2014

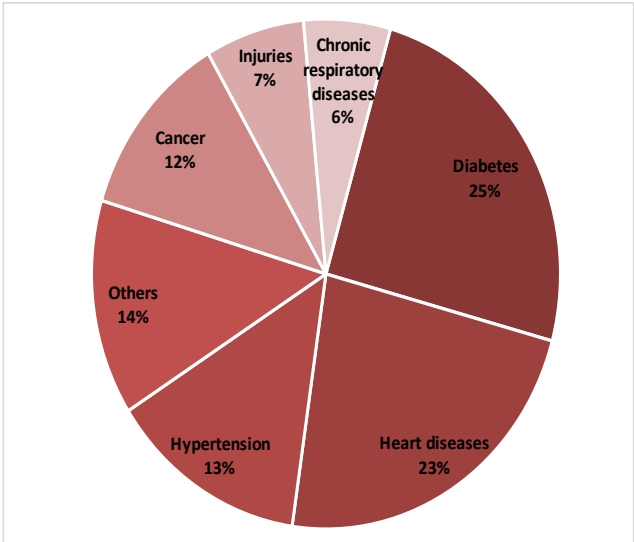
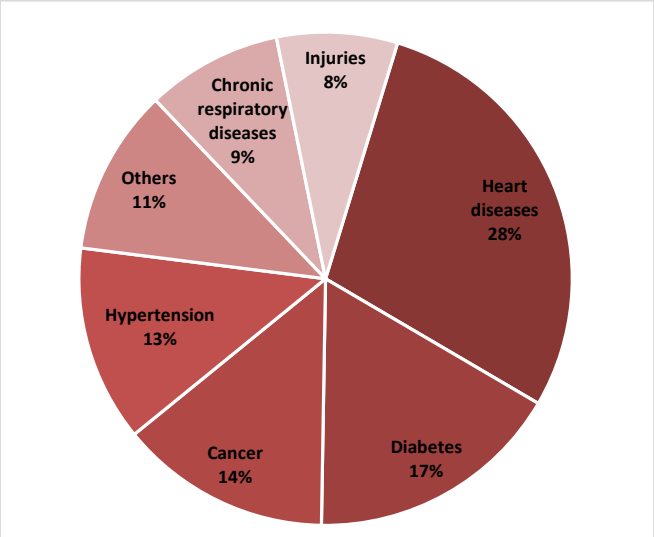
	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85 +
2014	0	0	0	4	4	8	10	18	33	45	9
2013	0	0	1	8	2	2	10	27	23	27	12
2012	2	1	1	3	2	4	8	20	20	35	17
2011	2	0	2	5	2	4	13	9	20	33	18

Cause of death by year

In 2013, heart disease (28%) was the main cause of death in the Cook Islands, and as of 2014, diabetes (25%) slightly overtook heart disease and was reported the main contributor for our deaths.

Figure 18: Percentage distribution of main cause Cook Islands, 2013

Figure 19: Percentage distribution of main death, causes of death, Cook Islands, 2014



Fetal and Infant mortality

Fetal mortality

Fetal deaths are refer to the spontaneous intrauterine death of a fetus at any time during pregnancy. In the Cook Islands, the number of fetal deaths have declined over the years (1997-2014), with the highest recorded in 1997 at a total of seven and the lowest between 2012 and 2014 (zero). On average about 3 fetals die per year.

The Cook Islands fetal mortality rate (table 4) have also declined from 17.0 (fetal deaths of 20 weeks or more per 1,000 live births and fetal deaths) in 1997 to zero in 2012, and was maintained thereafter.

Figure 21: Total number of fetal deaths, Cook Islands, 1997-2014

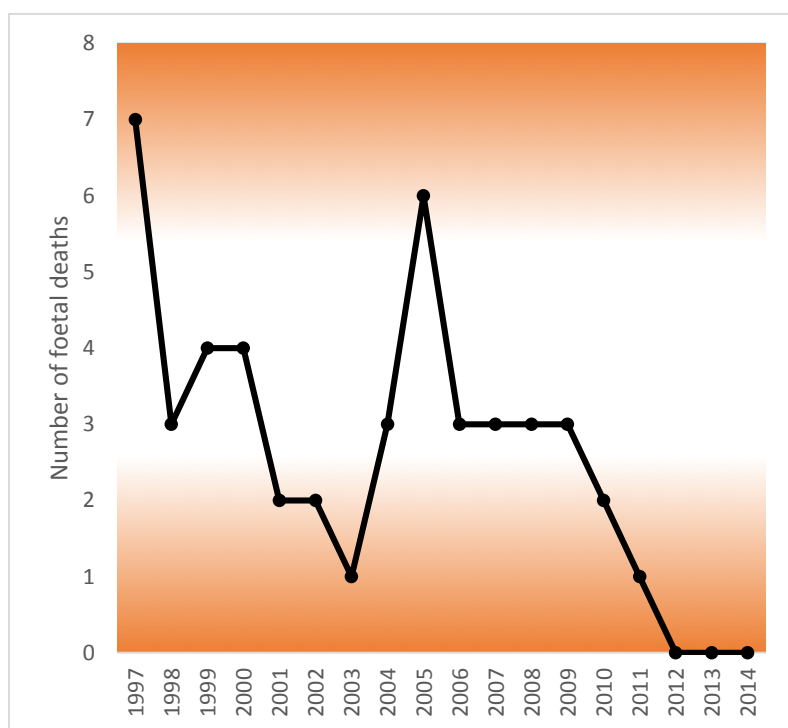


Table 4: Fetal death rate, Cook Islands, 1997-2014

Year	Fetal death rate
1997	17.0
1998	7.7
1999	11.1
2000	12.9
2001	6.5
2002	6.8
2003	3.4
2004	9.6
2005	20.2
2006	9.8
2007	9.4
2008	10.2
2009	10.7
2010	6.9
2011	3.5
2012	0.0
2013	0.0
2014	0.0

Note*: rate per 1,000 live births

Infant mortality

Infant mortality is the death of a child less than one years old. It is measured as infant mortality rate (as illustrated in table 5), which is the number of deaths of children under one year of age per 1,000 live births. In the Cook Islands, the number of deaths under one year old have declined from 14 in 1997 to zero in 2014. On average, the number of infants dying per year is 4, with the highest recorded in 1997 (14) and the lowest in 2009, 2013 and 2014.

The Cook Islands infant mortality rate (table 5) have also declined over the years from 34.0 (infant deaths per 1,000 live births) in 1997 to zero in 2014.

Figure 22: Total number of deaths under 1 years old, Cook Islands, 1997-2014

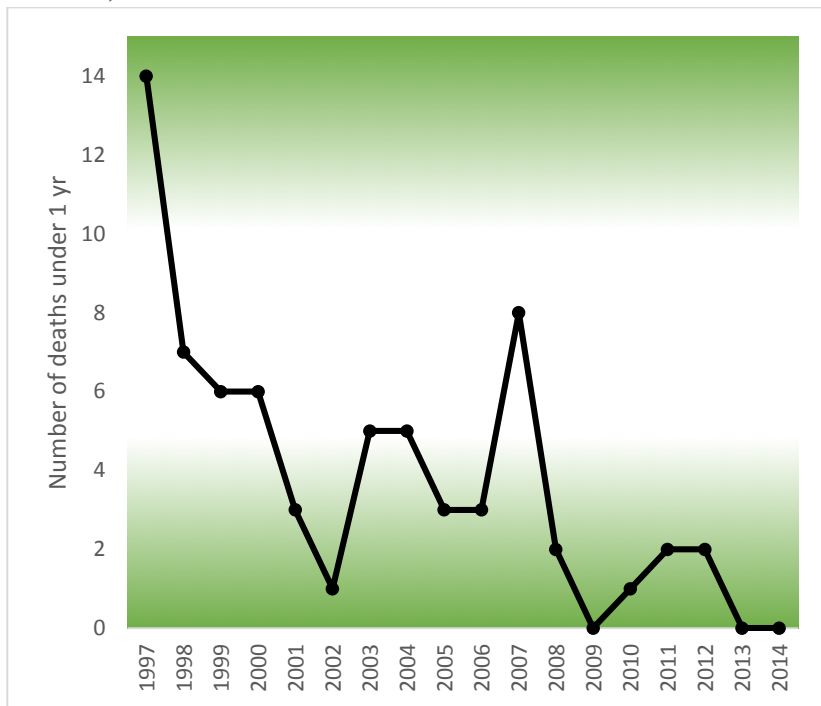


Table 5: Death rate under 1 years, Cook Islands, 1997-2014

Year	Death rate under 1 years old
1997	34.0
1998	18.0
1999	16.6
2000	19.4
2001	9.8
2002	3.4
2003	16.9
2004	15.8
2005	9.9
2006	9.7
2007	24.8
2008	6.8
2009	0.0
2010	3.4
2011	7.0
2012	6.8
2013	0.0
2014	0.0

Note*: rate per 1,000 live births

Medical and Health Services and Facilities

Health Facilities

Table 6 shows the various health facilities we have by location and number in the Cook Islands. The capital island Rarotonga have the main and most health facilities compared to the outer islands. The breakdown of the health facilities available by region and island are shown in more details below.

Table 6: Health Facilities available by Region & Island, Cook Islands, 2013-2014

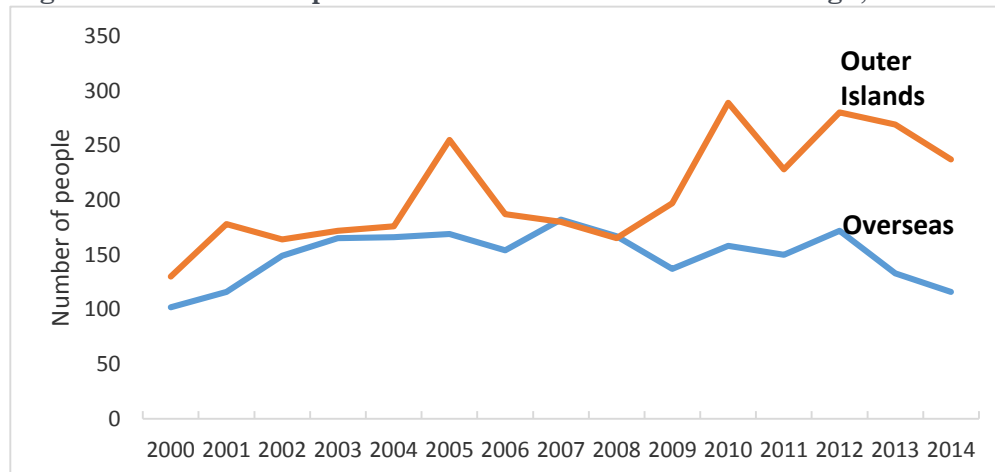
	Census Districts	Hospital Beds	Out-patient Clinics	Dental Clinics	Health Centers	Child Welfare Clinics	Private Medical Clinics	Private Dental Clinics
COOK ISLANDS	44	131	9	5	10	48	2	2
RAROTONGA	12	70	2	1	0	28	2	2
SOUTHERN GROUP	20	51	4	4	4	14	0	0
Aitutaki	4	28	1	1	0	8	0	0
Mangaia	6	6	1	1	1	5	0	0
Atiu	5	9	1	1	1	1	0	0
Mauke	3	6	1	1	1	0	0	0
Mitiaro	2	2	0	0	1	0	0	0
NORTHERN GROUP	12	10	3	0	6	6	0	0
Palmerston	1	0	0	0	1	0	0	0
Pukapuka	3	4	1	0	1	2	0	0
Nassau	1	0	0	0	1	0	0	0
Manihiki	2	2	1	0	1	1	0	0
Rakahanga	3	2	0	0	1	0	0	0
Penrhyn	2	2	1	0	1	3	0	0

*Note, the Southern Group does not include Rarotonga

Referrals

The number of patients referred overseas, mainly to New Zealand, is steady around 100 to 200 patients within the last 15 years (2000-2014). While our patient referred to overseas are declining, our patients referred to from the outer island are increasing (since 2000). On average, Rarotonga receive about 207 patients from the outer islands, with the highest recorded in 2010 at 158 and the lowest in 2000 at 102.

Figure 23: Number of patients referred overseas & Rarotonga, Cook Islands, 2000-2014



Referrals by Islands

By Islands, Aitutaki recorded the most number of referrals received in each of the last three years (table 6), followed by the Island of Mangaia. Our winter period (June quarters) is the time when Rarotonga receive more referrals from the outer islands between 2012 and 2014.

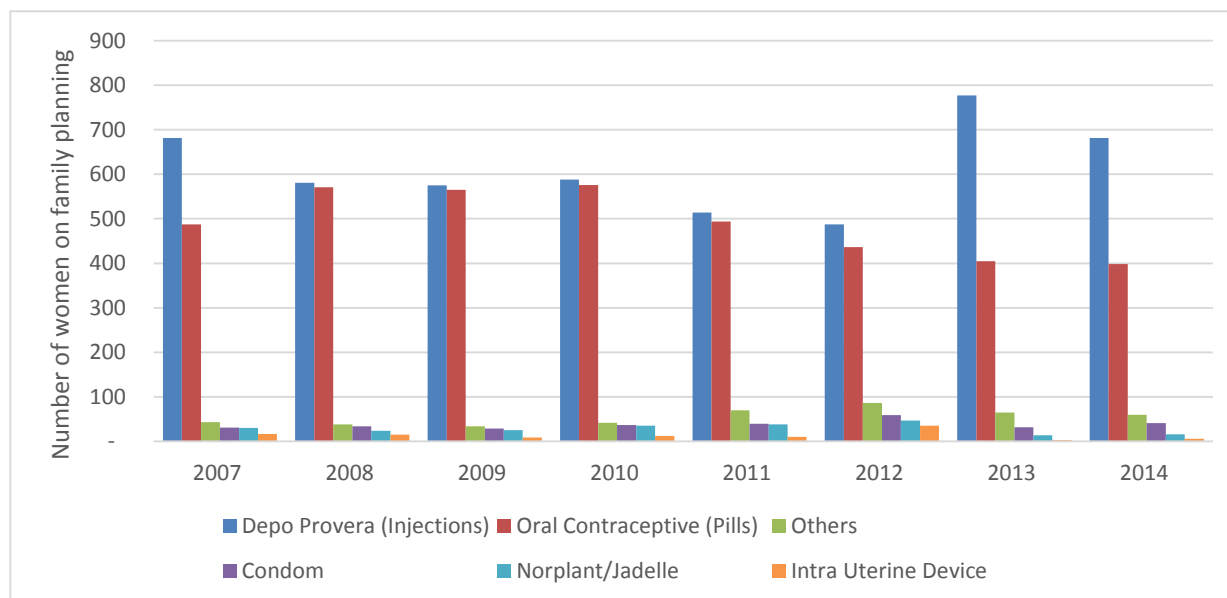
Table 6: Number of patients referred from the Outer Islands, Cook Islands, 2012-2014

	Aitutaki	Mangaia	Atiu	Mauke	Mitiaro	Palmerston	Pukapuka/ Nassau	Manihiki	Rakahanga	Penrhyn	
2012	Mar	13	5	2	1	3	0	3	4	0	3
	Jun	67	23	11	8	4	3	6	4	1	6
	Sep	24	7	4	5	5	2	9	6	0	8
	Dec	28	2	2	2	8	0	0	1	0	0
2013	Mar	9	7	5	4	3	1	5	8	0	2
	Jun	33	24	13	7	9	0	7	4	2	0
	Sep	34	1	10	6	6	0	3	3	4	3
	Dec	19	9	2	5	4	3	9	2	1	2
2014	Mar	20	6	10	4	3	0	2	7	0	6
	Jun	28	15	9	9	4	0	0	4	3	1
	Sep	24	6	6	7	7	0	1	2	0	0
	Dec	30	10	4	2	2	0	2	0	1	2

Family Planning

The total number of resident Child Bearing Ages (15 – 49) in the Cook Islands counted in the 2011 population census is 3,655. The two most used method of contraceptives as shown below are the Depo provera (injections) and Oral contraceptives. Both were equally used until 2013 and 14, more women preferred to use the Depo Provera injection (57%) compared to the Oral contraceptives pills (33%).

Figure 24: Current users of family planning by types, Cook Islands, 2007-2014



LISTING OF TABLES

1. POPULATION

Table 1.1: Total population by region & island, gender and four major age groupings, 2011

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REGION & ISLAND	Both gender		0 - 14		15 - 44		45 - 59		60 +		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
COOK ISLANDS	17,794	8,815	8,979	2,368	2,259	3,651	3,933	1,600	1,604	1,196	1,183
<u>RAROTONGA</u>	13,095	6,460	6,635	1,596	1,523	2,816	3,088	1,186	1,209	862	815
<u>SOUTHERN GROUP</u> excluding Rarotonga	3,586	1,777	1,809	560	521	617	658	316	313	284	317
Aitutaki	2,038	994	1,044	304	297	373	416	174	174	143	157
Mangaia	572	287	285	101	85	82	90	46	46	58	64
Atiu	480	233	247	77	78	71	82	45	43	40	44
Mauke	307	162	145	47	32	56	46	28	35	31	32
Mitiaro	189	101	88	31	29	35	24	23	15	12	20
<u>NORTHERN GROUP</u>	1,113	578	535	212	215	218	187	98	82	50	51
Palmerston	60	28	32	11	14	12	10	2	3	3	5
Pukapuka	451	221	230	84	106	84	72	34	33	19	19
Nassau	73	36	37	18	17	12	15	5	3	1	2
Manihiki	239	136	103	43	28	45	40	37	23	11	12
Rakahanga	77	38	39	6	12	18	15	8	7	6	5
Penrhyn	213	119	94	50	38	47	35	12	13	10	8
Suvarrow	0	0	0	0	0	0	0	0	0	0	0

TABLE 1.2: Resident Population by Region & Island, gender and Four Major Age Groupings, COOK ISLANDS 2011

REGION & ISLAND	Both gender		0 - 14		15 - 44		45 - 59		60 +		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	
COOK ISLANDS	14,977	7,490	7,487	2,220	2,112	3,003	3,127	1,316	1,274	951	974
<u>RAROTONGA</u>	10,572	5,278	5,294	1,471	1,398	2,241	2,353	923	913	643	630
<u>SOUTHERN GROUP</u> excluding Rarotonga	3,293	1,635	1,658	537	499	544	587	295	279	259	293
Aitutaki	1,774	868	906	284	275	310	353	155	145	119	133
Mangaia	562	283	279	101	85	80	87	45	43	57	64
Atiu	468	228	240	74	78	70	77	44	41	40	44
Mauke	300	155	145	47	32	49	46	28	35	31	32
Mitiaro	189	101	88	31	29	35	24	23	15	12	20
<u>NORTHERN GROUP</u>	1,112	577	535	212	215	218	187	98	82	49	51
Palmerston	60	28	32	11	14	12	10	2	3	3	5
Pukapuka	451	221	230	84	106	84	72	34	33	19	19
Nassau	73	36	37	18	17	12	15	5	3	1	2
Manihiki	238	135	103	43	28	45	40	37	23	10	12
Rakahanga	77	38	39	6	12	18	15	8	7	6	5
Penrhyn	213	119	94	50	38	47	35	12	13	10	8
Suvarrow	0	0	0	0	0	0	0	0	0	0	0

**Table 2.1: Live Births by Region & Island, Year and Sex.
COOK ISLANDS 2010 - 2014**

REGION & ISLAND	2010			2011			2012			2013			2014		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
COOK ISLANDS	289	137	152	284	152	132	292	163	129	261	133	128	223	118	105
RAROTONGA	255	125	130	254	137	117	258	144	114	227	112	115	209	113	96
SOUTHERN GROUP excluding Rarotonga	26	10	16	24	13	11	24	12	12	26	18	8	12	4	8
Aitutaki	22	9	13	20	13	7	20	10	10	22	15	7	10	4	6
Mangaia	2	1	1	1	0	1	0	0	0	3	2	1	1	0	1
Atiu	2	0	2	3	0	3	4	2	2	1	1	0	1	0	1
Mauke	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mitiaro	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NORTHERN GROUP	8	2	6	6	2	4	10	7	3	8	3	5	2	1	1
Palmerston	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	8	2	6	3	2	1	9	6	3	8	3	5	2	1	1
Manihiki	0	0	0	3	0	3	1	1	0	0	0	0	0	0	0
Rakahanga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Penrhyn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table 2.2: Mothers given Birth by Region & Island and Age of Mother
COOK ISLANDS 2014**

REGION & ISLAND	Total	Age of Mother							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45 +
COOK ISLANDS	223	0	31	54	57	49	21	11	0
RAROTONGA	209	0	31	51	51	45	20	11	0
SOUTHERN GROUP excluding Rarotonga	12	0	0	2	5	4	1	0	0
Aitutaki	10	0	0	2	5	3	0	0	0
Mangaia	1	0	0	0	0	1	0	0	0
Atiu	1	0	0	0	0	0	1	0	0
Mauke	0	0	0	0	0	0	0	0	0
Mitiaro	0	0	0	0	0	0	0	0	0
NORTHERN GROUP	2	0	0	1	1	0	0	0	0
Palmerston	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	2	0	0	1	1	0	0	0	0
Manihiki	0	0	0	0	0	0	0	0	0
Rakahanga	0	0	0	0	0	0	0	0	0
Penrhyn	0	0	0	0	0	0	0	0	0

Note: ^a Denote 1 pair of twins.

**Table 2.3: Mothers given Birth by Region & Island and Age of Mother
COOK ISLANDS 2013**

REGION & ISLAND	Total	Age of Mother							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45 +
COOK ISLANDS	260	3	37	75	65	38	31	10	1
RAROTONGA	226	3	35 ^a	66	51	34	28	8	1
SOUTHERN GROUP excluding Rarotonga	26	0	2	7	10	2	3	2	0
Aitutaki	22	0	2	6	8	2	2	2	0
Mangaia	3	0	0	1	1	0	1	0	0
Atiu	1	0	0	0	1	0	0	0	0
Mauke	0	0	0	0	0	0	0	0	0
Mitiaro	0	0	0	0	0	0	0	0	0
NORTHERN GROUP	8	0	0	2	4	2	0	0	0
Palmerston	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	8	0	0	2	4	2	0	0	0
Manihiki	0	0	0	0	0	0	0	0	0
Rakahanga	0	0	0	0	0	0	0	0	0
Penrhyn	0	0	0	0	0	0	0	0	0

Note: ^a Denote 1 pair of twins.

**Table 2.4: Mothers given Birth by Region & Island and Age of Mother
COOK ISLANDS 2012**

REGION & ISLAND	Age of Mother								
	Total	< 15	15-19	20-24	25-29	30-34	35-39	40-44	45 +
COOK ISLANDS	291	1	40	80	65	56	33	16	0
RAROTONGA	257	1	35	68	57	50 ^a	31	15	0
SOUTHERN GROUP excluding Rarotonga	24	0	5	6	5	6	2	0	0
Aitutaki	20	0	5	3	5	5	2	0	0
Mangaia	0	0	0	0	0	0	0	0	0
Atiu	4	0	0	3	0	1	0	0	0
Mauke	0	0	0	0	0	0	0	0	0
Mitiaro	0	0	0	0	0	0	0	0	0
NORTHERN GROUP	10	0	0	6	3	0	0	1	0
Palmerston	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	9	0	0	5	3	0	0	1	0
Manihiki	1	0	0	1	0	0	0	0	0
Rakahanga	0	0	0	0	0	0	0	0	0
Penrhyn	0	0	0	0	0	0	0	0	0

Note: ^a Denote 1 pair of twins.

**Table 2.5: Mothers Given Birth and Fertility Rates by Age Groupings.
COOK ISLANDS 2006 - 2014**

Age Group	Female Resident Population		Number of Mothers									
	2006	2011	2006	2007	2008	2009	2010	2011	2012	2013	2014	
15-19	630	597	43	37	35	54	37	37	41	40	31	
20-24	545	512	86	97	82	72	85	70	80	76	54	
25-29	473	493	58	72	72	67	55	71	65	64	57	
30-34	554	462	60	68	60	45	57	47	56	38	49	
35-39	551	521	44	26	33	37	38	40	33	31	21	
40-44	540	542	16	19	14	7	17	17	16	10	11	
45-49	457	528	1	2	0	0	2	1	0	1	0	
Total	3,750	3,655	308	321	296	282	291	283	291	260	223	
Age-Specific Fertility Rate (per 1'000 Women)												
15-19			68	59	56	86	59	62	69	67	52	
20-24			158	178	150	132	156	137	156	148	105	
25-29			123	152	152	142	116	144	132	130	116	
30-34			108	123	108	81	103	102	121	82	106	
35-39			80	47	60	67	69	77	63	60	40	
40-44			30	35	26	13	31	31	30	18	20	
45-49			2	4	0	0	4	2	0	2	0	
General Fertility Rate (per 1'000 Women)			82	86	79	75	78	77	80	71	61	
Total Fertility Rate			2.8	3.0	2.8	2.6	2.7	2.8	2.9	2.5	2.2	

GFR = Total Number of Births/Female Population of CBA (15-49).

TFR = The average number of children that would be born alive to a woman during her childbearing years in her lifetime.

Note: Mothers whose age is < 15 are included in the 15-19 age groups, those whose age is > 49 are included in the 45-49 age groups.

Table 2.6: Suspected cases of notifiable diseases by year

COOK ISLANDS					
Disease	2010	2011	2012	2013	2014
Acute Respiratory Infection	5,878	7,076	9,879	9,181	9,483
Asthma	135	133	155	117	99
Bronchitis	737	546	450	465	0
Chickenpox	13	22	44	37	51
Conjunctivitis	307	842	246	199	61
Dengue	0	0	5	4	4
Diarrhoea child/adult	127	128	260	221	182
Diarrhoea infant	4	11	19	17	5
Diphtheria	0	0	0	0	0
Filariasis	0	0	0	0	0
Fish Poisoning	78	102	90	90	65
Food Poisoning	32	30	46	40	17
Gastroenteritis	677	683	1,085	725	653
Influenza & Viral Illness	221	648	420	514	420
Leprosy	0	0	0	0	0
Measles	1	0	0	1	0
Meningitis	3	2	0	2	1
Mumps	7	4	4	5	1
Otitis Media	186	226	300	270	268
Pneumonia	286	505	901	813	725
Rheumatic fever (acute & chronic)	28	18	40	15	7
Scabies	83	216	285	317	162
Skin Sepsis	1,256	1,363	2,032	2,746	1,152
Whooping Cough (Pertussis)	0	7	7	4	0
Yaws	0	0	0	0	0
Zika					1,450

**Table 2.7: Ciguatera (Fish Poisoning) cases Year and Month
COOK ISLANDS: 2000-2014**

Year	MONTH												TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
2000	9	14	17	9	14	11	0	5	15	9	24	11	138
2001	13	24	7	8	7	6	7	17	13	15	12	4	133
2002	32	25	18	22	19	7	3	4	9	22	13	9	183
2003	20	20	16	28	12	14	5	9	22	19	33	29	227
2004	65	40	45	44	47	23	26	33	39	22	46	39	469
2005	25	17	49	59	50	41	29	33	26	32	31	29	421
2006	25	16	27	27	20	13	12	15	30	31	24	18	258
2007	24	25	20	27	27	23	18	12	20	24	7	18	245
2008	28	36	15	14	20	13	14	14	17	19	18	15	223
2009	19	13	13	9	11	8	7	8	5	11	16	9	129
2010	5	10	10	7	11	9	11	2	4	1	5	3	78
2011	5	3	9	20	8	4	13	10	6	9	6	9	102
2012	10	13	4	4	6	5	6	6	8	11	12	5	90
2013	11	8	6	13	0	3	6	6	4	8	21	4	90
2014	6	8	5	4	2	1	3	2	12	6	7	9	65

Table 2.11: Inpatient Morbidity by Sex and Age Groupings
COOK ISLANDS: 2014

ICD10 CODE	DISEASE	Sex: MALE										Sex: FEMALE									
		0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	Total	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	Total
A00-B99	I Certain infectious and parasitic diseases	9	4	4	6	3	3	5	9	8	51	8	1	9	4	10	4	2	5	4	47
	A00-A09 Intestinal and infectious diseases	7	2	1	5			4	3	5	27	6	1	7	3	3	4		2	4	30
	A40-A41 Septicaemia						1		5	1	7					1			2		3
	A50-A89 Viral diseases					1	1				2										0
	A90-A94, A96-A99 Other arthropod borne viral fevers and viral haemorrhagic fevers	1	1	2	1	2		1	1	2	11	1		2		6		2	1		12
	A92-B34 Other viral diseases	1	1	1			1				4	1			1						2
C00-D48	II Neoplasms	0	0	0	0	0	5	2	1	20	28	0	0	0	0	0	1	2	1	0	4
	C18-C21 Malignant neoplasm of colon, rectum and anus						1			1	2										0
	C22 Malignant neoplasm of liver and intrahepatic bile ducts						3			1	4								1		1
	C25 Malignant neoplasm of pancreas							1	1	1	3										0
	C33-C34 Malignant neoplasm of trachea, bronchus and lung						1	1		1	3								1		1
	C50 Malignant neoplasm of breast									1	1						1	1			2
	C61 Malignant neoplasm of prostate									14	14										0
	C69-C80 Malignant neoplasm of other and unspecified site									1	1										0
D50-D89	III Diseases of the blood & blood forming organs & certain disorders involving the immune mechanism	0	0	0	0	0	1	5	1	4	11	0	0	0	4	3	3	0	1	2	13
	D50-D64 Anaemias						1	5	1	4	11				4	3	3		1	2	13
E00-E90	IV Endocrine, nutritional & metabolic diseases & immunity disorders	0	0	3	1	1	11	13	15	25	69	0	1	1	4	3	8	13	7	17	54
	E10-E14 Diabetes mellitus			2	1	1	11	11	15	20	61			1	4	2	8	10	7	15	47
	Remainder of endocrine, nutritional and metabolic diseases			1					2	5	8	1			1		3		2		7
F00-F99	V Mental and behavioural disorders	0	0	7	8	5	3	4	0	1	28	0	0	0	1	3	1	0	0	1	6
	F10-F19 Mental & behavioural disorders due to psychoactive substance use			7	5	2	2	3			19				1	2					3
	Remainder of mental and behavioural disorders			3	3	1	1		1		9				1	1				1	3
G00-G98	VI Diseases of the nervous system	0	0	0	1	5	0	1	2	1	15	0	9	0	2	0	2	3	2	0	18
	G30 Alzheimer's disease								1		1								1		1
	Remainder of diseases of the nervous system				1	5		1	1	1	14	9		2		2	3	1			17
H00-H59	VII Diseases of the eye and adnexa	0	0	0	0	0	2	4	11	11	28	0	0	0	0	1	4	5	13	8	31
H60-H95	VIII Diseases of the ear and mastoid process	1	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
I00-I99	IX Diseases of the circulatory system	0	2	1	2	4	29	40	42	81	201	0	0	3	4	17	24	23	32	77	180
	I00-I09 Acute Rheumatic fever and chronic rheumatic heart diseases										0					2					2
	I10-I15 Hypertensive diseases		1			2	13	16	12	28	72			1	2	8	14	15	14	22	76
	I20-I25 Ischaemic heart diseases				1		7	4	12	8	32					1	3	3	5	13	25
	I26-I52 Other heart diseases	1		1	1	9	14	15	34	75			1	2	4	6	5	13	31	62	
	I60-I69 Cerebrovascular diseases						4	3	8	15			1		1	1				8	11
	Remainder of diseases of the circulatory system			1		1		2	3	7					1				3	4	
J00-J99	X Diseases of the respiratory system	35	11	1	5	3	8	7	14	19	103	25	7	11	6	9	11	10	15	18	112
	J00-J06 Acute respiratory infections	7	2		1	1	1	1		1	14	4	2	3	3	4	3				19
	J12-J18 Pneumonia	3		1	3	1	5	2	4	10	29	1	1	3	1	2	3	1	3	4	19
	J20-J22 Other acute lower respiratory infections	19	2		1					1	23	12		1							13
	J40-J47 Chronic lower respiratory diseases	4	4				1	3	9	5	26	6	3	2	1	2	4	8	8	9	43
	Remainder of diseases of the respiratory system	2	3			1	1	1	1	2	11	2	1	2	1	1	1	1	4	5	18
K00-K93	XI Diseases of the digestive system	1	6	8	2	9	9	8	10	6	59	0	3	11	13	12	9	4	3	3	58
	K25-K27 Gastric and duodenal ulcer			1							1				2			1			3
	K35-K38 Diseases of appendix		3	5	1	6	4	3	2		24	3	10	6	3	4	2				28
	K40-K46 Hernia	1	3	1	1	2	4	4	4	4	24			1	1	2					4
	K70-K77 Diseases of the liver							1			1										0
	Remainder of diseases of the digestive system			1		1		1	4	2	9		1	4	8	3	2	2	3		23

Table 2.11: Inpatient Morbidity by Sex and Age Groupings (continued)
COOK ISLANDS: 2014

ICD10 CODE	DISEASE	Sex: MALE										Sex: FEMALE									
		0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	Total	0-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	Total
L00-L99	XII Diseases of the skin and subcutaneous tissue	3	1	2	2	3	4	12	10	11	48	0	0	3	2	4	8	5	8	4	34
M00-M99	XIII Diseases of the musculoskeletal system and connective tissue	0	0	2	1	4	5	2	9	4	27	0	0	1	2	0	1	1	0	2	7
N00-N99	XIV Diseases of the genitourinary system	1	1	0	1	1	6	5	7	8	30	0	3	5	3	4	4	2	6	5	32
	N00-N16 Glomerular & renal tubulo-interstitial diseases	1	1				2	1			5	3	1		3	1				8	
	Remainder of diseases of the genitourinary system				1	1	4	4	7	8	25		4	3	1	3	2	6	5	24	
O00-O99	XV Pregnancy, childbirth and the puerperium	0	0	0	0	0	0	0	0	0	0	0	0	97	119	59	3	0	0	0	278
	O00-O07 Pregnancy with abortive outcome													15	8	7	1			31	
	O10-O16 Oedema, proteinuria & hypertensive disorders in pregnancy, childbirth and the puerperium															1				1	
	O20-O29 Other maternal disorders predominantly related to pregnancy													2	4	6				12	
	O30-O48 Maternal care related to the fetus & amniotic cavity and possible delivery problems													5	4	2				11	
	O60-O75 Complications of labour and delivery													7	6	2				15	
	O80-O84 Delivery													68	97	41	2			208	
R00-R99	XVIII Symptoms, signs and abnormal clinical and laboratory findings, nec	9	7	3	5	7	6	9	8	7	61	4	5	8	4	5	4	8	4	6	48
S00-T98	XIX Injury, poisoning & certain other consequences of external causes	7	17	34	19	23	16	19	11	5	151	0	9	27	9	7	10	10	5	6	83
	S00-S09 Injuries to the head	2	3	13	6	6	1	7		3	41		5	14	4	1	1	1	1	1	28
	S10-S29 Injuries to the neck and the thorax					1				1	1									0	
	S30-S39 Injuries to the abdomen, lower back, lumbar spine and pelvis					1			1	1	3			2				1	2	5	
	S40-S69 Injuries to the shoulder, upper arm, elbow, forearm, wrist & hand		9	6	3	8	4	2	1		33		4	1	2		2	1	3	14	
	S70-S99 Injuries to the hip, thigh, knee, lower leg, ankle and foot	1	4	9	6	4	8	6	8		46			6	3	3	6	7	1	2	28
	T00-T07 Injuries involving multiple body regions			2	3			1			6			3		1				4	
	T20-T32 Burns and corrosions		1						1		2									0	
	T36-T50 Poisoning by drugs, medicaments and biological substances	1		1							2					2				2	
	T51-T65 Toxic effects of substances chiefly nonmedicinal as to source	2		2	1	2	3	3		1	14			1			1			2	
	T66-T78 Other and unspecified effects of external causes	1		1		1					3									0	
V01-Y98	XX External causes of morbidity and mortality	2	5	21	10	2	8	6	3	3	60	0	7	19	12	2	3	3	3	5	54
	V20-V29 Motorcycle rider injured in transport accident		1	18	10	1	6	4	1	1	42		3	17	8	2	3	2	1		36
	V40-V49 Car occupant injured in transport accident									1	1									0	
	V50-V59 Occupant of pick-up truck or van injured in transport accident										0			2						2	
	W00-W19 Falls	2	4			1	1	1	2	1	12		2	2	1			1	2	4	12
	W65-W74 Accidental drowning and submersion										0									1	1
	X60-X84 Intentional self-harm				1						1					1				1	
	X85-Y09 Assault			2			1	1			4				2					2	

COOK ISLANDS					
Year	Resident Population Estimate	Cardiovascular diseases	Diabetes	Cancer	chronic respiratory diseases
before 2009		1,543	681	148	600
2009	13,300	1,430	633	121	606
2010	11,900	1,590	698	125	648
2011	14,700	1,739	767	129	713
2012	14,300	1,960	837	141	771
2013	14,100	2,148	901	147	817
2014	13,600	2,319	957	156	884
Incidence					
2009		229	101	7	88
2010		188	73	8	58
2011		168	78	6	73
2012		230	74	17	62
2013		204	67	14	50
2014		179	56	17	69
Incidence percentage of increase					
2009		1.7	0.8	0.1	0.7
2010		1.6	0.6	0.1	0.5
2011		1.1	0.5	0.0	0.5
2012		1.6	0.5	0.1	0.4
2013		1.4	0.5	0.1	0.4
2014		1.3	0.4	0.1	0.5
Note: ⁽¹⁾ Source of population data is the Statistics Office (MFEM) - June quarter					
⁽²⁾ Cardiovascular diseases includes hypertension, stroke, chronic heart disease					
⁽³⁾ Chronic respiratory diseases includes chronic obstructive pulmonary disease (COPD), asthma					

**Table 2.14: Incidence of cancer cases by site, sex and age groupings
COOK ISLANDS 2014**

ICD 10 CODE	SITE	MALE								Total	% Distribution
		0-14	15-24	25-34	35-44	45-54	55-64	65-74	75+		
C00 - D48	ALL SITES	0	0	0	0	4	1	2	11	18	100.0
C22	Malignant neoplasm of liver & intrahepatic bile ducts					2				2	11.1
C25	Malignant neoplasm of pancreas								1	1	5.6
C17, C23-C24, C26	Other malignant neoplasms of digestive organs							1		1	5.6
C33-C34	Malignant neoplasm of trachea, bronchus and lung					1	1			2	11.1
C61	Malignant neoplasms of prostate							1	8	9	50.0
C67	Malignant neoplasms of bladder								1	1	5.6
C82-C85	Non-hodgkin's lymphoma					1			1	2	11.1
		FEMALE									
C00 - D48	ALL SITES	0	0	0	2	0	1	2	1	6	100.0
C18-C21	Malignant neoplasm of colon, rectum and anus								1	1	16.7
C22	Malignant neoplasm of liver & intrahepatic bile ducts							1		1	16.7
C50	Malignant neoplasm of breast				2			1		3	50.0
C97	Malignant neoplasms of independent (primary) multiple sites							1		1	16.7

**Table 2.15: Incidence of cancer cases by site, sex and age groupings
COOK ISLANDS 2013**

ICD 10 CODE	SITE	MALE									% Distribution
		0-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	Total	
C00 - D48	ALL SITES	0	0	0	0	0	4	2	4	10	100.0
C00-C14	Malignant neoplasms of lip, oral cavity and pharynx									1	10.0
C15	Malignant neoplasm of oesophagus									1	10.0
C22	Malignant neoplasm of liver & intrahepatic bile ducts						2			1	30.0
C25	Malignant neoplasm of pancreas						1			1	10.0
C33-C34	Malignant neoplasm of trachea, bronchus and lung						1	1	1	3	30.0
C61	Malignant neoplasms of prostate							1	1	2	20.0
		FEMALE									
C00 - D48	ALL SITES	0	0	1	1	2	1	3	0	8	100.0
C50	Malignant neoplasm of breast			1		2		2		5	62.5
C54-C55	Malignant neoplasms of other and unspecified parts of uterus							1		1	12.5
C73-C75	Malignant neoplasms of thyroid and other endocrine glands				1					1	12.5
C90	Multiple myeloma and malignant plasma cell neoplasms						1			1	12.5

**Table 2.16: Incidence of cancer cases by site, sex and age groupings
COOK ISLANDS 2012**

ICD 10 CODE	SITE	MALE									% Distribution
		0-14	15-24	25-34	35-44	45-54	55-64	65-74	75+	Total	
C00 - D48	ALL SITES	0	0	0	0	2	3	3	4	12	100.0
C00-C14	Malignant neoplasms of lip, oral cavity and pharynx						1			1	8.3
C22	Malignant neoplasm of liver & intrahepatic bile ducts					1		2		3	25.0
C33-C34	Malignant neoplasm of trachea, bronchus and lung					1	1		1	3	25.0
C61	Malignant neoplasms of prostate						1		2	3	25.0
C64-C66, C68	Other malignant neoplasms of urinary tract							1	1	2	16.7
		FEMALE									
C00 - D48	ALL SITES	0	0	0	2	1	2	2	3	10	100.0
C22	Malignant neoplasm of liver & intrahepatic bile ducts						1		1	2	20.0
C33-C34	Malignant neoplasm of trachea, bronchus and lung						1			1	10.0
C50	Malignant neoplasm of breast				1	1				2	20.0
C53	Malignant neoplasm of cervix uteri								1	1	10.0
C54-C55	Malignant neoplasms of other and unspecified parts of uterus				1			1	1	3	30.0
C73-C75	Malignant neoplasms of thyroid and other endocrine glands							1		1	10.0

**Table 2.17: Admissions due to Transport Accidents
RAROTONGA: 2007-2014**

Type of Accident	2007	2008	2009	2010	2011	2012	2013	2014
Transport Accidents	86	50	52	46	60	58	61	60
Alcohol Related Accidents	42	32	30	26	32	27	22	17
Percentage Alcohol Related	48.8	64.0	57.7	56.5	53.3	46.6	36.1	28.3
Alcohol Related Deaths	3	4	2	2	4	2	4	2
Non Alcohol Related Deaths	2	0	0	0	0	2	2	0

**Table 2.18: Admissions due to alcohol related transport accidents
by age groupings and year
RAROTONGA: 2007- 2014**

Age Group	2007	2008	2009	2010	2011	2012	2013	2014
0 - 14	1	1	0	2	0	7	0	0
15 - 24	21	19	15	12	16	6	9	9
25 - 34	12	5	7	5	7	5	9	2
35 - 44	5	3	6	5	4	9	0	1
45 - 54	2	3	1	1	3	0	2	3
55 +	1	1	1	1	2	0	2	2
Total	42	32	30	26	32	27	22	17

Table 2.19: Deaths by region & island, year and sex
COOK ISLANDS: 2011 - 2014

REGION & ISLAND	2011			2012			2013			2014		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
COOK ISLANDS	108	57	51	113	69	44	112	68	44	131	88	43
RAROTONGA	71	36	35	84	53	31	81	50	31	93	65	28
SOUTHERN GROUP excluding Rarotonga	27	17	10	26	15	11	27	15	12	35	22	13
Aitutaki	13	8	5	10	7	3	10	4	6	12	8	4
Mangaia	3	1	2	9	5	4	8	4	4	6	4	2
Atiu	3	3	0	2	1	1	3	3	0	11	6	5
Mauke	4	3	1	3	1	2	4	3	1	5	3	2
Mitiaro	4	2	2	2	1	1	2	1	1	1	1	0
NORTHERN GROUP	10	4	6	3	1	2	4	3	1	3	1	2
Palmerston	0	0	0	0	0	0	1	1	0	0	0	0
Pukapuka/Nassau	3	1	2	2	0	2	1	1	0	1	0	1
Manihiki	3	1	2	1	1	0	1	0	1	1	0	1
Rakahanga	1	1	0	0	0	0	1	1	0	0	0	0
Penrhyn	3	1	2	0	0	0	0	0	0	1	1	0

Note: 1. Excludes all Tourists dying in the Cook Islands.

**Table 2.21: Death by the underlying cause, age groupings and sex
COOK ISLANDS 2014**

ICD 10 Tab Code	Underlying Cause of Death	All Age		< 1		1-4		5-14		15-24		25-34		35-44		45-54		55-64		65-74		75-84		85 +	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ALL CAUSES		88	43	0	0	0	0	0	0	4	0	4	0	5	3	8	2	14	4	20	13	27	18	6	3
A00-B99	Certain infectious and parasitic diseases	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0
A40-A41	Septicaemia	3	0											1	0							2	0		
C00-D48	Neoplasms	12	4	0	0	0	0	0	0	0	0	0	0	0	1	3	1	2	1	1	0	4	1	2	0
C18-C21	Malignant neoplasm of colon, rectum and anus	0	1																			0	1		
C22	Malignant neoplasm of liver and intrahepatic bile ducts	2	0													1	0				1	0			
C25	Malignant neoplasm of pancreas	2	0															1	0			1	0		
C34	Malignant neoplasm of bronchus and lung	3	0													2	0	1	0						
C50	Malignant neoplasm of breast	0	2										0	1	0	1									
C61	Malignant neoplasm of prostate	5	0																			3	0	2	0
	Other	0	1															0	1						
E00-E88	Endocrine, nutritional and metabolic diseases	18	16	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	1	6	8	8	6	0	0
E10-E14	Diabetes Mellitus	17	15											0	1	2	0	2	1	5	7	8	6		
	Other	1	1																	1	1				
G00-G98	Diseases of the nervous system	1	1									1	0					0	1						
I00-I99	Diseases of the circulatory system	29	19	0	0	0	0	0	0	0	0	0	0	1	1	2	0	5	1	10	4	8	10	3	3
I10-I13	Hypertension Disease	7	11															1	1	2	1	2	7	1	2
I20-I25	Ischaemic heart diseases	9	2										1	0				1	0	3	1	3	0	1	1
I50	Heart failure	3	0															1	0	1	0			1	0
I60-I69	Cerebrovascular Disease	2	4															1	0	0	1	1	3		
	Other	8	2										0	1	1	0	1	0	4	1	2	0			
J00-J98	Diseases of the respiratory system	6	2	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	3	1	1	0	0	0
J12-J18	Pneumonia	6	0									1	0							3	0	1	0		
	Other	0	2													0	1			0	1				
K00-K93	Diseases of the digestive system	7	0															5	0			2	0		
N00-N98	Diseases of the genitourinary system	1	0																					1	0
R00-R99	Symptoms, signs & abnormal clinical & laboratory findings, n.e.c.	2	1									1	0									1	1		
S00-T98	Injury, poisoning and certain other consequences of external causes	9	0	0	0	0	0	0	0	4	0	1	0	3	0	0	0	0	0	0	0	1	0	0	0
S00-S09	Injuries to the head	6	0							3	0	1	0	1	0							1	0		
	Other	3	0							1	0	0	0	2	0										
V01-Y98	External causes of mortality	9	0	0	0	0	0	0	0	4	0	1	0	3	0	0	0	0	0	0	0	1	0	0	0
V01-V99	Transport accidents	6	0							3	0	1	0	2	0										
W00-W19	Falls	1	0																			1	0		
W65-W74	Accidental drowning and submersion	1	0											1	0										
X60-X84	Intentional self-harm	1	0							1	0														

**Table 2.22: Death by the underlying cause, age groupings and sex
COOK ISLANDS 2013**

ICD 10 Tab Code	Underlying Cause of Death	All Age		< 1		1-4		5-14		15-24		25-34		35-44		45-54		55-64		65-74		75-84		85 +		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
ALL CAUSES		68	44	0	0	0	0	1	0	7	1	1	1	2	0	7	3	16	11	15	8	17	10	2	10	
A00-B99	Certain infectious and parasitic diseases	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
A40-A41	Septicaemia	1	0																	1	0					
	Other	0	1									0	1													
C00-D48	Neoplasms	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	3	1	5	1	0	1	
C22	Malignant neoplasm of liver and intrahepatic bile ducts	1	0																	1	0					
C25	Malignant neoplasm of pancreas	1	0																			1	0			
C34	Malignant neoplasm of bronchus and lung	2	2															0	1	1	1	1	0			
C50	Malignant neoplasm of breast	0	4													0	1	0	2					0	1	
C61	Malignant neoplasm of prostate	1	0																			1	0			
	Other	3	2															0	1	1	0	2	1			
D50-D89	Diseases of the blood and bloodforming organs	1	0																		1	0				
E00-E88	Endocrine, nutritional and metabolic diseases	11	9	0	0	0	0	0	0	1	0	0	0	0	0	1	0	3	3	4	2	2	1	0	3	
E10-E14	Diabetes Mellitus	11	8							1	0					1	0	3	3	4	1	2	1	0	3	
	Other	0	1																	0	1					
I00-I99	Diseases of the circulatory system	31	15	0	0	0	0	0	0	1	0	0	0	1	0	5	0	11	3	5	3	7	6	1	3	
I10-I13	Hypertension Disease	12	2														1	0	5	1	2	0	3	1	1	0
I20-I25	Ischaemic heart diseases	10	3											1	0	3	0	3	1	2	1	1	1	1		
I50	Heart failure	1	6					1	0									0	1	0	1	0	3	0	1	
I60-I69	Cerebrovascular Disease	4	3															2	0	1	0	1	1	0	2	
	Other	4	1													1	0	1	0	0	1	2	0			
J00-J98	Diseases of the respiratory system	4	6	0	0	0	0	1	0	0	0	0	0	0	0	0	2	2	1	1	0	0	1	0	2	
J12-J18	Pneumonia	3	4					1	0								0	2	1	1	1	0			0	1
	Other	1	2																	1	0	0	1	0	1	
K00-K93	Diseases of the digestive system	1	2																		0	1	1	1		
N00-N98	Diseases of the genitourinary system	0	1																						0	1
R00-R99	Symptoms, signs & abnormal clinical & laboratory findings, n.e.c.	3	1																		0	1	2	0	1	0
S00-T98	Injury, poisoning and certain other consequences of external causes	8	1	0	0	0	0	0	0	5	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0
S00-S09	Injuries to the head	7	1							5	1	1	0	1	0											
	Other	1	0													1	0									
V01-Y98	External causes of mortality	8	1	0	0	0	0	0	0	5	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	
V01-V99	Transport accidents	5	1							5	1															
W00-W19	Falls	1	0											1	0											
X60-X84	Intentional self-harm	1	0									1	0													
T51-T65	Toxic effects of substances chiefly nonmedicinal as to source	1	0													1	0									

**Table 2.23: Death by the underlying cause, age groupings and sex.
COOK ISLANDS 2012**

ICD 10 Tab Code	Underlying Cause of Death	All Age		< 1		1-4		5-14		15-24		25-34		35-44		45-54		55-64		65-74		75-84		85 +	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ALL CAUSES		69	44	2	0	1	0	1	0	2	1	2	0	2	2	3	5	15	5	15	5	18	17	8	9
A00-B99	Certain infectious and parasitic diseases	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
A40-A41	Septicaemia	1	1															1	1						
C00-D48	Neoplasms	18	8	0	0	0	0	0	0	0	0	0	0	0	1	2	1	3	1	5	2	5	3	3	0
C22	Malignant neoplasm of liver and intrahepatic bile ducts	2	1													1	0			1	0	0	1		
C34	Malignant neoplasm of bronchus and lung	4	0													1	0	1	0	1	0	1	0		
C50	Malignant neoplasm of breast	0	2											0	1					0	1				
C61	Malignant neoplasm of prostate	5	0																	1	0	3	0	1	0
	Other	7	5													0	1	2	1	2	1	1	2	2	0
E00-E88	Endocrine, nutritional and metabolic diseases	7	6	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	2	2	2	3	0	0	1
E10-E14	Diabetes Mellitus	7	6											1	0	0	1	1	2	2	2	3	0	0	1
I00-I99	Diseases of the circulatory system	25	18	0	0	1	0	0	0	0	0	1	0	1	0	1	3	9	1	4	1	5	10	3	3
I10-I13	Hypertension Disease	4	1															0	1	2	0	1	0	1	0
I20-I25	Ischaemic heart diseases	4	4											1	0	1	1	2	0	0	1	0	2		
I50	Heart failure	4	3																	2	0	2	2	0	1
I60-I69	Cerebrovascular Disease	6	7													0	1	2	0	2	0	2	5	0	1
	Other	7	3			1	0					1	0					3	1			0	1	2	1
J00-J98	Diseases of the respiratory system	7	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	3	0	2	4	0	1
J12-J18	Pneumonia	6	3					1	0									1	0	2	0	2	2	0	1
	Other	1	2																	1	0	0	2		
N00-N98	Diseases of the genitourinary system	0	1																					0	1
P00-P96	Certain conditions originating in the perinatal period	2	0	2	0																				
R00-R99	Symptoms, signs & abnormal clinical & laboratory findings, n.e.c.	3	3																			2	0	1	3
S00-T98	Injury, poisoning and certain other consequences of external causes	6	2	0	0	0	0	0	0	2	1	1	0	0	1	0	0	0	0	1	0	1	0	1	0
S00-S09	Injuries to the head	3	1							1	0	1	0	0	1					1	0				
	Other	3	1							1	1											1	0	1	0
V01-Y98	External causes of mortality	6	2	0	0	0	0	0	0	2	1	1	0	0	1	0	0	0	0	1	0	1	0	1	0
V01-V99	Transport accidents	4	1							1	0	1	0	0	1					1	0	1	0		
W00-W19	Falls	1	0																					1	0
X60-X84	Intentional self-harm	1	1							1	1														

**Table 2.24: Death by the underlying cause, age groupings and sex
COOK ISLANDS 2011**

ICD 10 Tab Code	Underlying Cause of Death	All Age		< 1		1-4		5-14		15-24		25-34		35-44		45-54		55-64		65-74		75-84		85 +	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ALL CAUSES		57	51	0	2	0	0	0	2	4	1	2	0	3	1	9	4	4	5	10	10	17	16	8	10
A00-B99	Certain infectious and parasitic diseases	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	2
A40-A41	Septicaemia	1	3									1	0							0	1			0	2
	Other	1	0																			1	0		
C00-D48	Neoplasms	9	6	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	3	2	4	3	0	0	
C22	Malignant neoplasm of liver and intrahepatic bile ducts	2	1													1	0	1	0	0	1				
C25	Malignant neoplasm of pancreas	1	0													1	0								
C34	Malignant neoplasm of bronchus and lung	1	1																1	0	0	1			
C50	Malignant neoplasm of breast	0	3										0	1					0	1	0	1			
C61	Malignant neoplasm of prostate	4	0																			4	0		
C78.7	Secondary malignant neoplasm of liver	0	1																	0	1				
	Other	1	0																	1	0				
D50-D89	Diseases of the blood and bloodforming organs	0	1					0	1																
E00-E88	Endocrine, nutritional and metabolic diseases	4	19	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	4	1	3	1	8	1	3
E10-E14	Diabetes Mellitus	3	18													0	1	0	3	1	3	1	8	1	3
	Other	1	1										1	0				0	1						
G00-G98	Diseases of the nervous system	1	0																			1			
I00-I99	Diseases of the circulatory system	25	9	0	0	0	0	0	0	0	0	0	0	1	0	6	1	1	0	5	3	7	2	5	3
I10-I13	Hypertension Disease	11	5											1	0	2	0	1	0	2	3	4	0	1	2
I20-I25	Ischaemic heart diseases	3	0													1	0			1	0			1	0
I50	Heart failure	9	2													2	1			1	0	3	0	3	1
I60-I69	Cerebrovascular Disease	1	0																	1	0				
	Other	1	2													1	0					0	2		
J00-J98	Diseases of the respiratory system	5	4	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	1	3	0	0	1
J12-J18	Pneumonia	4	1													1	1					3	0		
	Other	1	3													0	1			1	1			0	1
K00-K93	Diseases of the digestive system	0	1																			0	1		
N00-N98	Diseases of the genitourinary system	0	2																			0	1	0	1
P00-P96	Certain conditions originating in the perinatal period	0	2		2																				
R00-R99	Symptoms, signs & abnormal clinical & laboratory findings, n.e.c.	2	1							1	0											0	1	1	0
S00-T98	Injury, poisoning and certain other consequences of external causes	9	3	0	0	0	0	0	1	3	1	1	0	1	0	2	0	1	1	0	0	0	0	1	0
S00-S09	Injuries to the head	4	2					0	1	2	0			1	0	1	0	0	1						
	Other	5	1							1	1	1	0			1	0	1	0					1	0
V01-Y98	External causes of mortality	7	3	0	0	0	0	0	1	3	1	1	0	1	0	1	0	0	1	0	0	0	0	1	0
V01-V99	Transport accidents	3	1							2	0			1	0			0	1						
W00-W19	Falls	1	1				0	1																1	0
W65-W74	Accidental drowning and submersion	1	0													1	0								
X60-X84	Intentional self-harm	2	1							1	1	1	0												

**Table 3.1: Number of cases referred overseas and received from the outer islands
COOK ISLANDS**

Period	Overseas	Island										
		TOTAL Outer Islands	Aitutaki	Mangaia	Aiū	Mauke	Mitiaro	Palmerston	Pukapuka /Nassau	Manihiki	Rakahanga	Penrhyn
2000	102	130	59	3	8	21	10	0	8	7	3	11
2001	116	178	48	16	33	29	6	1	10	13	3	19
2002	149	164	50	30	19	15	5	0	14	9	0	22
2003	165	172	53	24	17	23	1	0	12	10	1	31
2004	166	176	49	35	23	28	1	0	20	5	0	15
2005	169	255	85	37	18	43	10	0	29	20	1	12
2006	154	187	64	27	36	9	6	0	26	15	0	4
2007	182	180	53	22	25	39	15	3	12	9	0	2
2008	167	165	57	37	13	5	6	1	21	7	0	18
2009	137	197	61	30	29	22	11	3	21	11	0	9
2010	158	289	98	62	27	17	27	8	22	8	4	16
2011	150	228	70	41	20	18	13	9	17	13	10	17
2012	172	280	132	37	19	16	20	5	18	15	1	17
2013	133	269	95	41	30	22	22	4	24	17	7	7
2014	116	237	102	37	29	22	16	0	5	13	4	9
QUARTER												
2010 Mar	39	62	19	10	4	7	7	3	5	1	1	5
Jun	41	94	38	20	11	5	7	0	4	4	1	4
Sep	44	49	14	9	7	3	3	0	8	0	0	5
Dec	34	84	27	23	5	2	10	5	5	3	2	2
2011 Mar	35	51	12	6	6	5	5	4	2	1	5	5
Jun	25	81	24	19	5	6	5	4	5	6	3	4
Sep	44	56	20	9	5	4	2	1	10	2	1	2
Dec	46	40	14	7	4	3	1	0	0	4	1	6
2012 Mar	44	34	13	5	2	1	3	0	3	4	0	3
Jun	45	133	67	23	11	8	4	3	6	4	1	6
Sep	47	70	24	7	4	5	5	2	9	6	0	8
Dec	36	43	28	2	2	2	8	0	0	1	0	0
2013 Mar	42	44	9	7	5	4	3	1	5	8	0	2
Jun	35	99	33	24	13	7	9	0	7	4	2	0
Sep	21	70	34	1	10	6	6	0	3	3	4	3
Dec	35	56	19	9	2	5	4	3	9	2	1	2
2014 Mar	35	58	20	6	10	4	3	0	2	7	0	6
Jun	26	73	28	15	9	9	4	0	0	4	3	1
Sep	28	53	24	6	6	7	7	0	1	2	0	0
Dec	27	53	30	10	4	2	2	0	2	0	1	2

Table 3.2: Patients admitted and discharged from hospital by region & Island and bed occupancy COOK ISLANDS 2014						
REGION & ISLAND	Number of				Average Occupied Bed	% Bed Occupancy
	Admissions	Discharges	Bed Days Used	Bed Days Available		
COOK ISLANDS	2,182	2,070	7,924	47,815	60	16.6
RAROTONGA	1,545	1,488	6,537	25,550	93	25.6
SOUTHERN GROUP excluding Rarotonga	596	545	1,252	18,615	25	6.7
Aitutaki	472	429	749	10,220	27	7.3
Mangaia	41	37	220	2,190	37	10.0
Atiu	40	38	175	3,285	19	5.3
Mauke	29	29	74	2,190	5	3.4
Mitiaro	14	12	34	730	17	4.7
NORTHERN GROUP	41	37	135	3,650	14	3.7
Palmerston	0	0	0	0	0	0.0
Pukapuka/Nassau	8	11	27	1,460	7	1.8
Manihiki	23	14	84	730	42	11.5
Rakahanga	5	6	13	730	0	
Penrhyn	5	6	11	730	6	1.5

Table 3.3: Patients admitted and discharged from hospital by region & island and bed occupancy COOK ISLANDS 2013						
REGION & ISLAND	Number of				Average Occupied Bed	% Bed Occupancy
	Admissions	Discharges	Bed Days Used	Bed Days Available		
COOK ISLANDS	2,450	2,366	7,348	47,815	56	15.4
RAROTONGA	1,558	1,564	5,963	25,550	85	23.3
SOUTHERN GROUP excluding Rarotonga	850	772	1,258	18,615	25	6.8
Aitutaki	737	662	724	10,220	26	25.9
Mangaia	37	33	208	2,190	35	9.5
Atiu	38	39	176	3,285	20	5.4
Mauke	29	28	87	2,190	15	4.0
Mitiaro	9	10	63	730	32	8.6
NORTHERN GROUP	42	30	127	3,650	13	3.5
Palmerston	1	1	2	0	0	0.0
Pukapuka/Nassau	11	10	38	1,460	10	0.5
Manihiki	20	10	42	730	21	1.0
Rakahanga	5	3	7	730	0	0.0
Penrhyn	5	6	38	730	19	0.7

Table 3.4: Patients admitted and discharged from hospital								
by region & island and bed occupancy								
RAROTONGA 2014								
Month	Number of			Total Discharges & Deaths	Number of Bed Days		Average Occupied Bed	% Bed Occupancy
	Admissions	Discharges	Deaths		Available	Used		
January	116	114	5	119	2,170	428	14	19.7
February	120	107	1	108	1,960	425	15	21.7
March	120	116	7	123	2,170	566	18	26.1
April	76	120	3	123	2,100	919	31	43.8
May	191	120	4	124	2,170	463	15	21.3
June	137	120	4	124	2,100	500	17	23.8
July	150	132	4	136	2,170	482	16	22.2
August	128	134	5	139	2,170	577	19	26.6
September	141	120	5	125	2,100	791	26	37.7
October	122	120	5	125	2,170	488	16	22.5
November	122	120	2	122	2,100	524	17	25.0
December	122	120	0	120	2,170	374	12	17.2
Total	1,545	1,443	45	1,488	25,550	6,537	93	25.6

Table 3.5: Patients admitted and discharged from hospital								
by region & island and bed occupancy								
RAROTONGA 2013								
Month	Number of			Total Discharges & Deaths	Number of Bed Days		Average Occupied Bed	% Bed Occupancy
	Admissions	Discharges	Deaths		Available	Used		
January	116	114	5	119	2,170	454	15	20.9
February	120	107	1	108	1,960	517	18	26.4
March	120	116	7	123	2,170	367	12	16.9
April	139	139	3	142	2,100	515	17	24.5
May	153	152	6	158	2,170	556	18	25.6
June	113	111	3	114	2,100	430	14	20.5
July	144	143	2	145	2,170	448	14	20.6
August	127	124	2	126	2,170	538	18	24.8
September	142	134	4	138	2,100	586	19	27.9
October	124	129	4	133	2,170	484	16	22.3
November	118	113	3	116	2,100	545	18	26.0
December	142	137	5	142	2,170	523	17	24.1
Total	1,558	1,519	45	1,564	25,550	5,963	85	23.3

Table 3.6: CURRENT USERS - Women on family planning contraceptives by year										
COOK ISLANDS: 2005-2014										
Contraceptive Type	YEAR									
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
All Methods	1,270	1,271	1,289	1,263	1,237	1,290	1,166	1,150	1,296	1,202
Prevalence Rate (%)	35.9	33.9	34.4	33.7	33.0	34.4	31.9	31.5	35.5	32.9
Oral Contraceptive (Pills)	573	562	681	581	575	588	514	436	405	398
Intra Uterine Device	3	9	17	15	9	12	40	59	14	6
Depo Provera (Injections)	640	592	487	571	565	576	494	487	777	681
Norplant/Jadelle	12	20	31	24	29	35	70	86	65	60
Condom	21	72	30	38	34	42	38	35	32	41
Others	21	16	43	34	25	37	10	47	3	16

