



STATISTICAL BULLETIN 2012

Medical Records Unit – Rarotonga Hospital
COOK ISLANDS



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Message from the Secretary of Health

The mission of 'Te Marae Ora' (Ministry of Health) is to provide accessible, affordable health care and equitable health services of the highest quality, by and for all in order to improve the health status of people in the Cook Islands. Therefore, it is paramount that essential information and understanding required for effective and efficient delivery of health services in the country is recorded, analyzed and reported.

This bulletin is a reflection of our responsibility to collect data that accurately describes the immediate and pressing health situation of our people and provides the opportunity to inform future planning and delivery of core services and community programs. Reliable and objective data are essential to the credibility and impartiality of the performance of the Ministry of Health. This is part of our efforts to provide access to statistics on core measures of population health and national health systems.

I would like to acknowledge the individuals (those on Rarotonga and those in the outer islands) who ensure complete and accurate recording of vital events. Their contributions have resulted in a continual improvement in our data quality.

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



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Mrs. Elizabeth Iro
HEAD OF MINISTRY

Message from the Manager Statistics/Medical Records

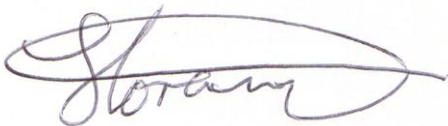
The Medical Records office continues to provide key statistical information on the health status of the Cook Islands for the years of 2008, 2009, 2010, 2011 and 2012. This document is designed to provide in a convenient publication format the latest information on an annual basis. These statistics are 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 those staff in 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.

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 Hospital Health Services.



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1. POPULATION

Based on the latest population census 2011 the total population count is 17,794. Of those 8,815 people were males and 8,979 females. This shows a population decrease of 1,315 people as compared to the 2006 Census (19,342). A total of 7,584 people were aged between 15 to 44 years; 4,627 were between 0 to 14 and 2,379 reported to having 60 years and over.

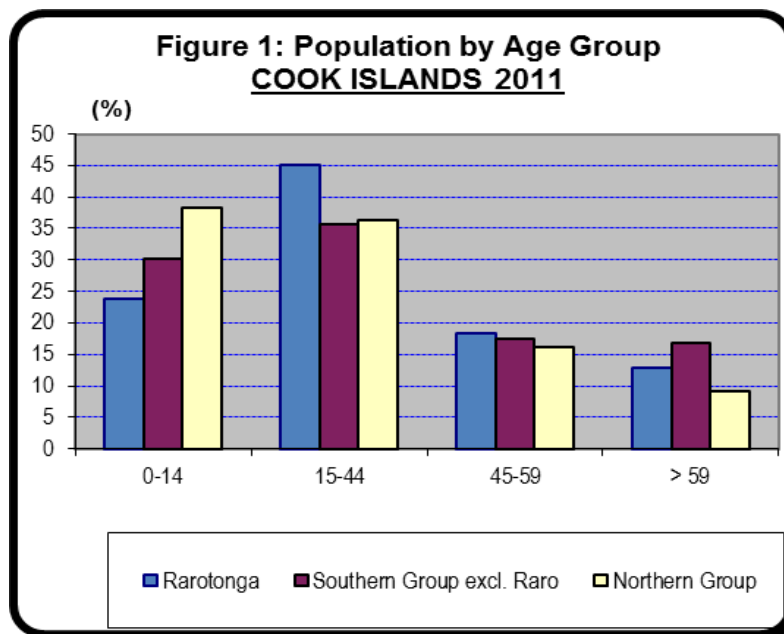
**Table 1: Population by Region and Age Groups.
COOK ISLANDS 2011**

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	26.0	42.6	18.0	13.4	100.0
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

The graph below shows that the majority of people living in the Cook Islands were aged between 15 to 44 years with just over 45 percent of them residing on the main island Rarotonga.

In the Southern Group excluding Rarotonga region it was reported that 20.2 percent lived in this region that consist of the Islands of Aitutaki, Mangaia, Atiu, Mauke and Mitiaro with almost 17 percent of their population in the 60 years and over age group. This group of Islands recorded the highest number of people in this age group as compared to the other regions.

In the Northern Group region just over six percent (6.3) are living in this region. As reported over 38 percent of the population was aged below 15 years showing the highest as compared to the other regions.



It should be noted that the data sources for population statistics in this report are from the Cook Islands 2011 Census report as released by the Statistics Office in the Ministry of Finance and Economic Management (MFEM).

2. HEALTH STATUS

2.1 Vital Statistics

- Crude birth rate has fluctuated between the lowest of 19.3 as reported for 2011 and the highest of 24.3 as reported for 2010 as seen below for the last twelve years
- Crude death rates in the Cook Islands remains below 10 per thousand with 6.4 reported for 2009. The highest ever reported is 8.5 per thousand in 2000.

Table 2: Number and Rate of Births, Deaths, Infant Deaths, Maternal Deaths & Foetal Deaths

COOK ISLANDS 2001 - 2012

YEAR	Live Births		Deaths		Deaths < 1 year		Maternal Deaths		Foetal Deaths	
	Number	Crude Rate	Number	Crude Rate	Number	Rate	Number	Rate	Number	Rate
2001	306	21.7	79	5.6	3	9.8	0	0	2	6.5
2002	293	19.8	100	6.8	1	3.4	0	0	2	6.8
2003	295	21.2	88	6.3	5	16.9	0	0	1	3.4
2004	313	23.2	106	7.9	5	15.8	0	0	3	9.6
2005	297	21.7	95	6.9	3	9.9	0	0	6	20.2
2006	306	20.7	94	6.4	3	9.7	0	0	3	9.8
2007	320	21.8	100	6.8	8	24.8	0	0	3	9.4
2008	293	20.5	65	4.5	2	6.8	0	0	3	10.2
2009	280	21.1	82	6.2	0	0.0	0	0	3	10.7
2010	289	24.3	97	8.2	1	3.4	0	0	2	6.9
2011	284	19.3	108	7.3	2	7.0	0	0	1	3.5
2012	292	20.4	113	7.9	2	6.8	0	0	0	0

Note: 1 - Total Birth does not include Stillbirth.

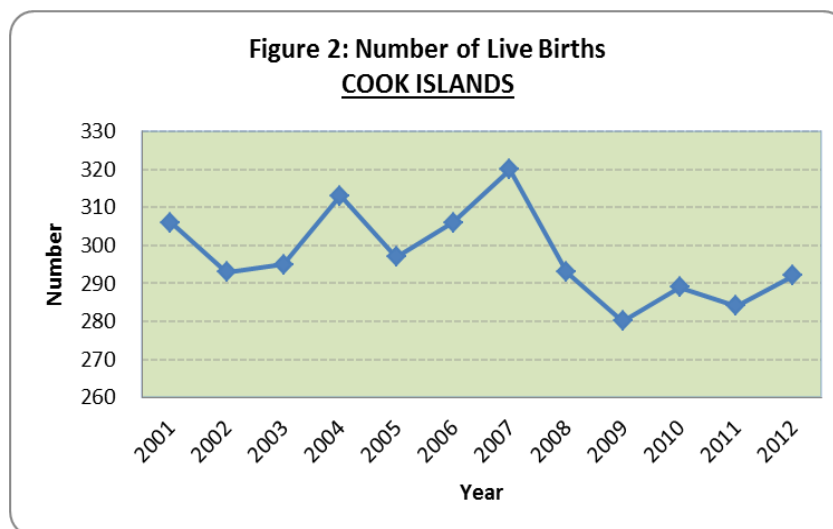
2 - Crude birth rate and crude death rate are calculated per thousand Resident population

2.2 Births

It should be noted that all births reported in this report are those that occurs in the Cook Islands. All births to Cook Islands residents including Permanent Residents (PR) and those Non Residents with Cook Island partners. All maternal cases referred from the Outer Islands are included in the Rarotonga count.

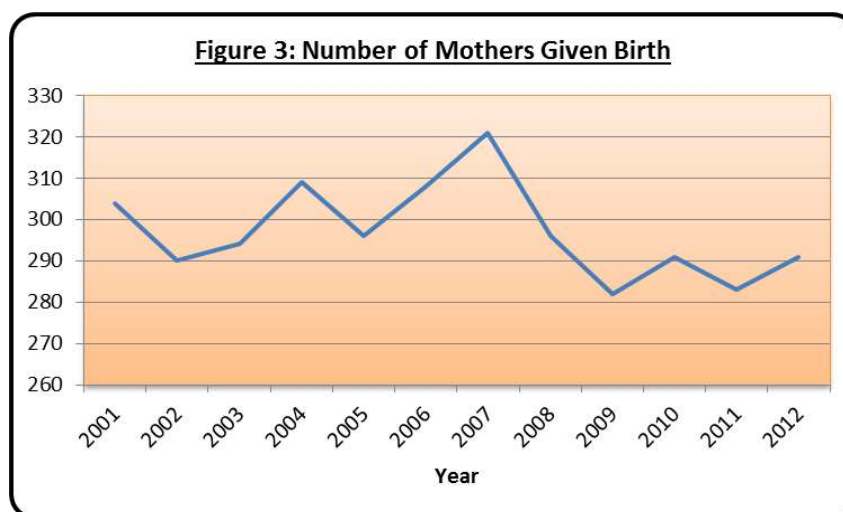
2.2.1 Births Trend

The total number of births occurring in the Cook Islands continued to decline from the highest of 320 in 2007 to 280 reported for 2009 within the last twelve years. A contributing factor to this could be the effect of employee transition in 2006-2007. However 292 were reported for 2012 showing a slight increase from previous year of 284 births. Islands reporting births in 2012 are Rarotonga (258), Aitutaki (20), Atiu (4), Pukapuka (9) and Manihiki (1).



2.2.1 Fertility

- 291 women in the Cook Islands were reported to have given birth to a child in 2012 showing a slight increase of eight mothers from the previous year.



- Only one set of twins each were reported in 2012 and 2011, all delivered on the Island of Rarotonga
- From 2009 to 2012 almost 70% of the mothers given birth in these years were from the age groupings of 20 to 34
- In Rarotonga where the majority of births were delivered, 88 percent of these births in 2012 received a Normal delivery and with 86 percent in 2011.
- In 2011 and 2012, thirteen percent and five percent respectively of those delivered in Rarotonga are from mothers normally residing in the Outer Islands. They are either being referred or just moved to Rarotonga for the delivery of their new borns
- The average number of children (Fertility rate) that would be born alive to any woman in the Cook Islands during her childbearing years in her lifetime is between two or three.

2.3 Morbidity (diseases)

2.3.1 Notifiable (communicable) Diseases

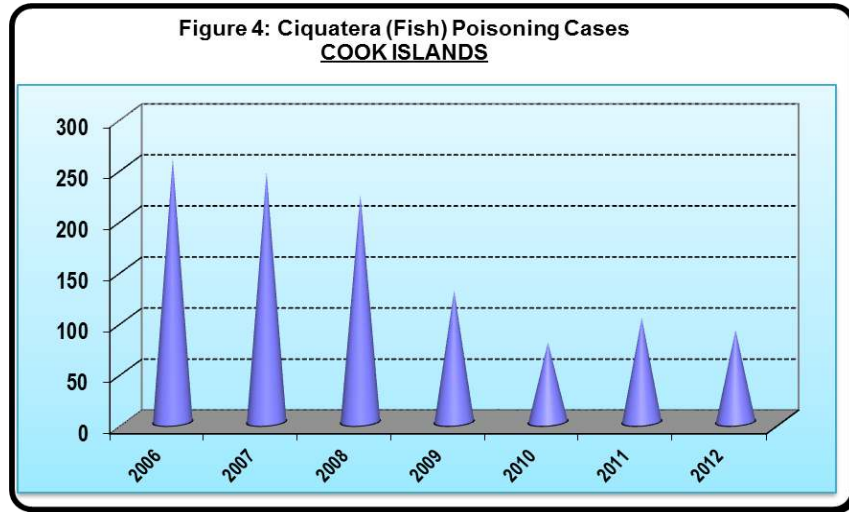
- *Dengue Fever* rarely occurs in the Cook Islands and the last major epidemic occurs in 2009 only in the main Island Rarotonga. Further cases were identified in 2012 and once again the carrier being a visitor to the Island.

Table 3: Reported cases of Dengue Fever by Island and year
COOK ISLANDS

	Years of Occurrence				
	2006	2007	2008	2009	2012
COOK ISLANDS	468	1,224	91	1335	6
RAROTONGA	389	1,158	89	1335	6
SOUTHERN GROUP excl. Rarotonga	78	63	2	0	0
Aitutaki	73	25	0	0	0
Mangaia	3	11	2	0	0
Atiu	0	0	0	0	0
Mauke	1	2	0	0	0
Mitiaro	1	25	0	0	0
NORTHERN GROUP	1	3	0	0	0
Palmerston	0	0	0	0	0
Pukapuka/Nassau	0	0	0	0	0
Manihiki	1	0	0	0	0
Rakahanga	0	0	0	0	0
Penrhyn	0	3	0	0	0

- *Tuberculosis (Maki Maro)* in the Cook Islands has been maintained to 0 or 1 incidences on an annual basis over the past decade. The 2012 reported incidence is a confirmed 'imported' case with multi-drug resistant tuberculosis. Elimination of this disease on a national scale is a possibility however the risk remains in the sense of external threats, that is, Visitors to the islands, migrant workers, returning Cook Islanders etc.

- *Ciguatera poisoning (Fish)* is also evident in the Cook Islands with total cases seen and reported at the Rarotonga hospital ranging from the highest of 258 cases in 2006 to the lowest of 78.



- *Chlamydia* continues to be mostly identified in the last five years as a result of a pilot program implemented in the hospital setting. High numbers were also identifies throughout these years to other STIs highlighting the need for more awareness in this area

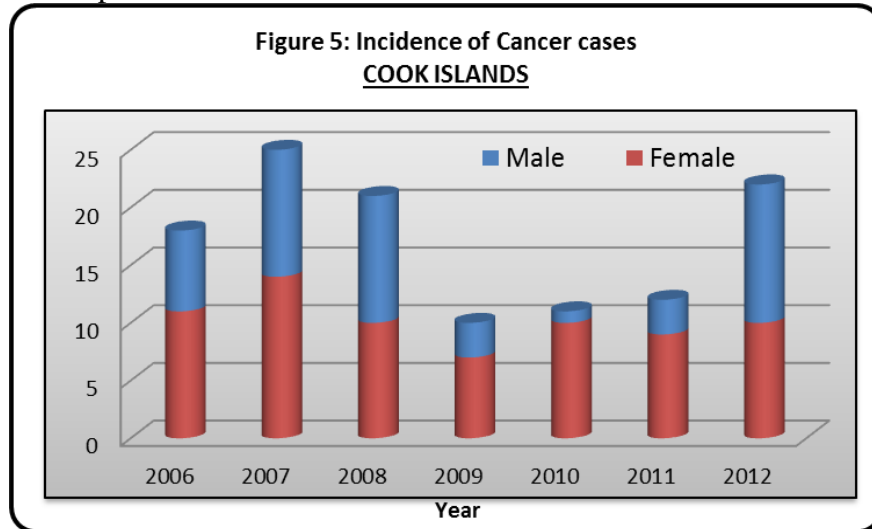
**Table 4: Laboratory confirmed STI cases
RAROTONGA, COOK ISLANDS 2006 - 2012**

STI	Year						
	2006	2007	2008	2009	2010	2011	2012
Gonorrhea	30	16	72	56	23	29	7
HIV	0	0	0	1	1	0	0
Syphilis	1	1	1	2	2	2	19
Candida	45	33	39	70	35	30	67
Trichomonas							
Vaginalis	15	15	16	13	18	9	12
Chlamydia		7	170	161	117	104	82
Hepatitis B	30	16	14	6	23	13	22

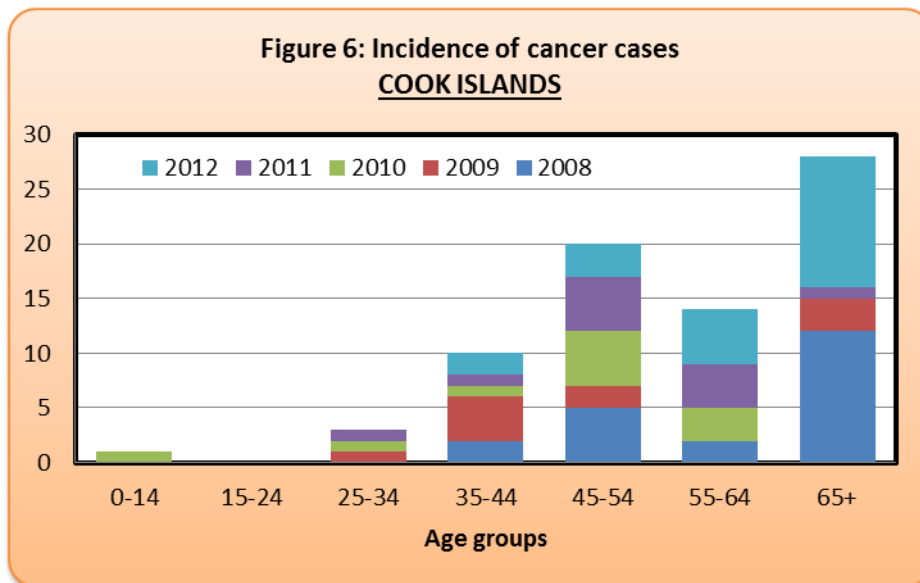
2.3.2 Non Communicable Diseases (NCD)

A total of 3,725 cases of NCD, namely Diabetes, Hypertension, Cancer and Asthma were re-registered in the hospital based electronic database, MedTech32 since its installation in late 2004 from its previous spreadsheet register. Annually between 1.5 to 2 percent of the resident population will be diagnosed of having any of the above mentioned diagnosis.

- Cancer recorded for 119 newly identified cases from 2006 to 2012 averaging at 17 cases a year with almost sixty percent reported for women

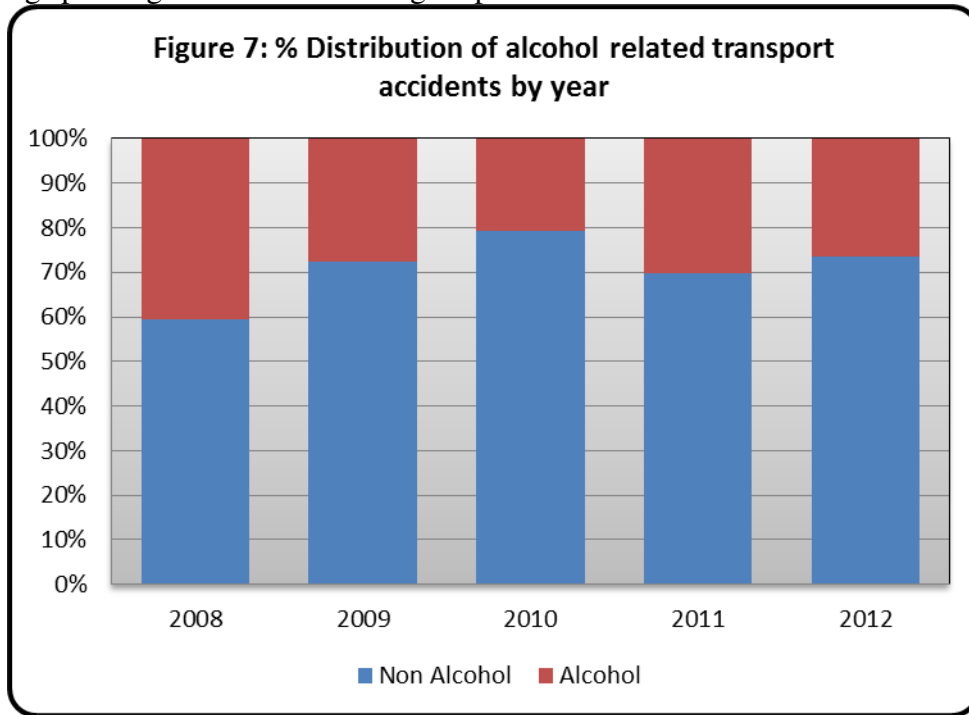


- Cancer affects everybody but as reported 81.6 percent were those aged 45 years and over with 36.8 percent for those aged 65 and over in the years from 2008 to 2012

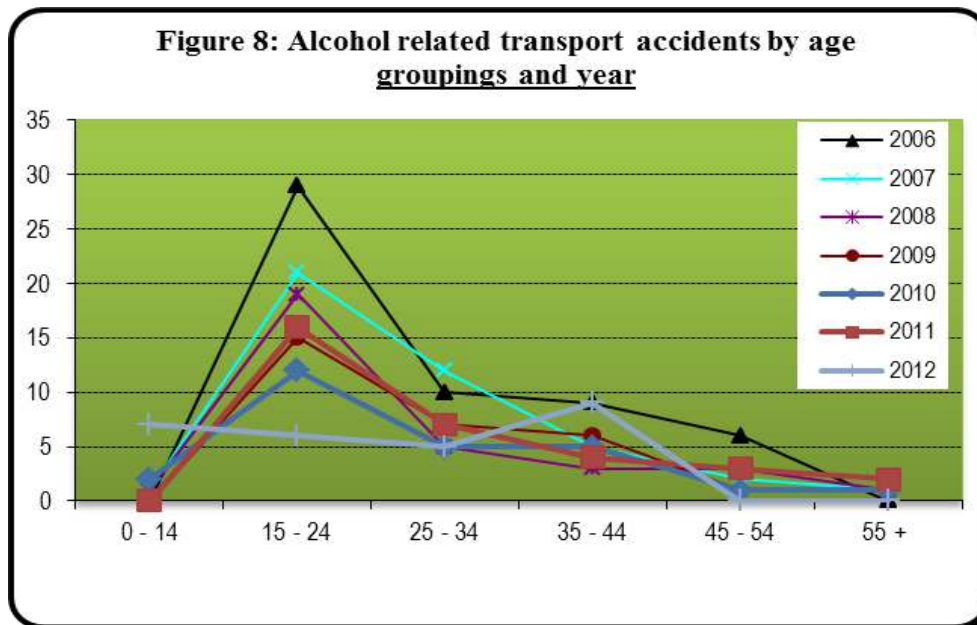


- A total of 286 cases of Motor Vehicle Transport accidents occurred in 2012 and were utilizing the hospital services in their treatments. Only 15 percent of these accidents were patients being admitted for further management.

- Just over 25 percent of these accidents have alcohol involved or as a contributing factor with the majority being speeding and careless driving on public roads.

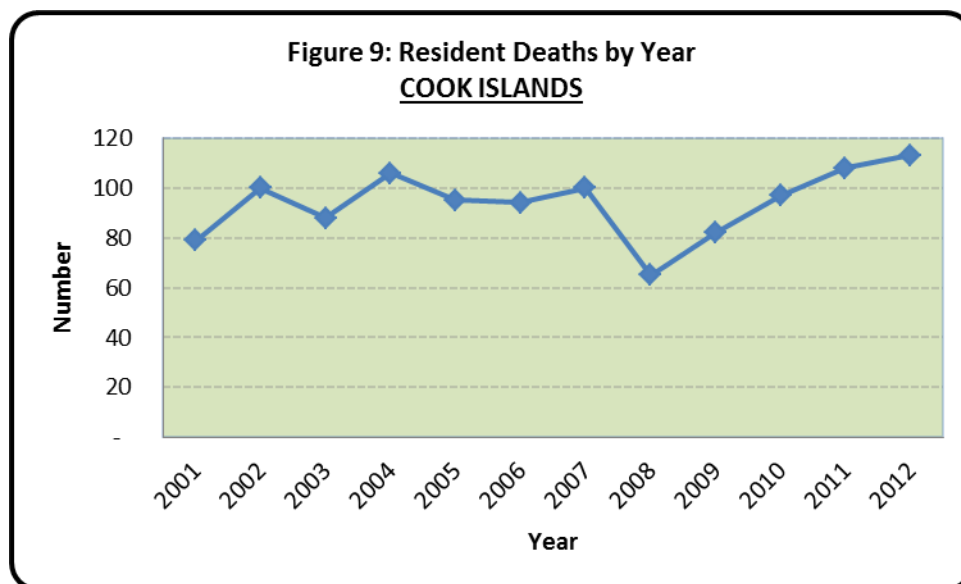


- In 2012 almost 63 percent of those admissions were of alcohol related accidents showing an increase of ten percent from 2011. These are mostly of people between 15-24 years and driving on motor bikes.

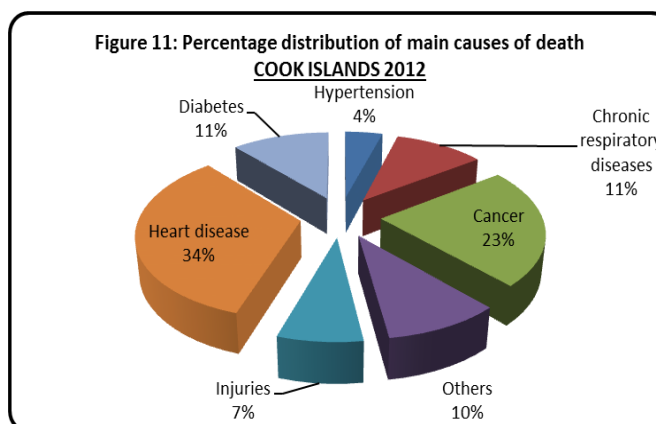
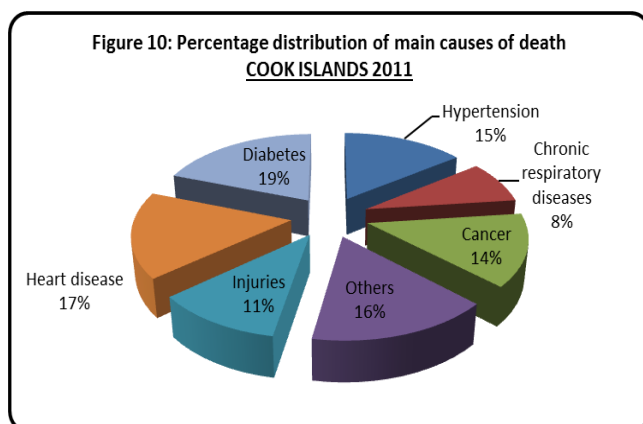


2.4 Mortality (deaths)

It should be noted that mortality counts reported in this report does not include those visitors dying in the Cook Islands. The number of deaths gradually increased from 65 in 2008 to 113 in 2012 as shown in the graph below. Infant mortality remains below 10 per thousand in the last five years. Maternal death remains at zero since the last death reported in 1995.



- As indicated in the accompanying tables more males are dying ranging from 53 to 65 percent in each of the years in the last five years. In 2012 the life expectancy at birth is 72 years, that is, 70 for males and 75 for females.
- As expected the majority of deaths occurred in Rarotonga with a population of more than ten thousand as well as receiving referrals of more serious cases from the other Islands for further management hence accounting for some of these deaths. As reported a total of 74 percent of the total deaths in 2012 for Rarotonga showing an increase from the 66 percent in 2011.
- Diseases of the circulatory system were the main causes of death reported for the last five years, with 38.1 percent (43 cases) in 2012 showing an increase from the 31.5 percent (34 cases) in 2011.



3. MEDICAL AND HEALTH SERVICES & FACILITIES

3.1 Health Facilities

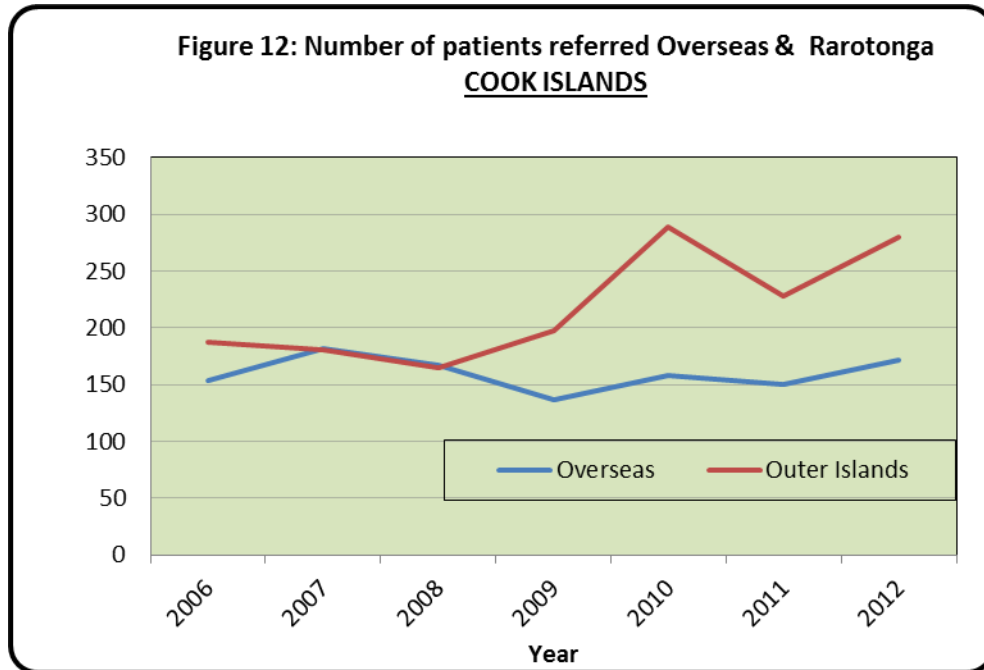
Health facilities in the Cook Islands vary from Hospital to Health Centre and even Child Welfare Clinics used extensively for health services especially in the Outer Islands. These facilities are shown in the table below by Islands.

**Table 5: Health Facilities Available by Region & Island
COOK ISLANDS 2012**

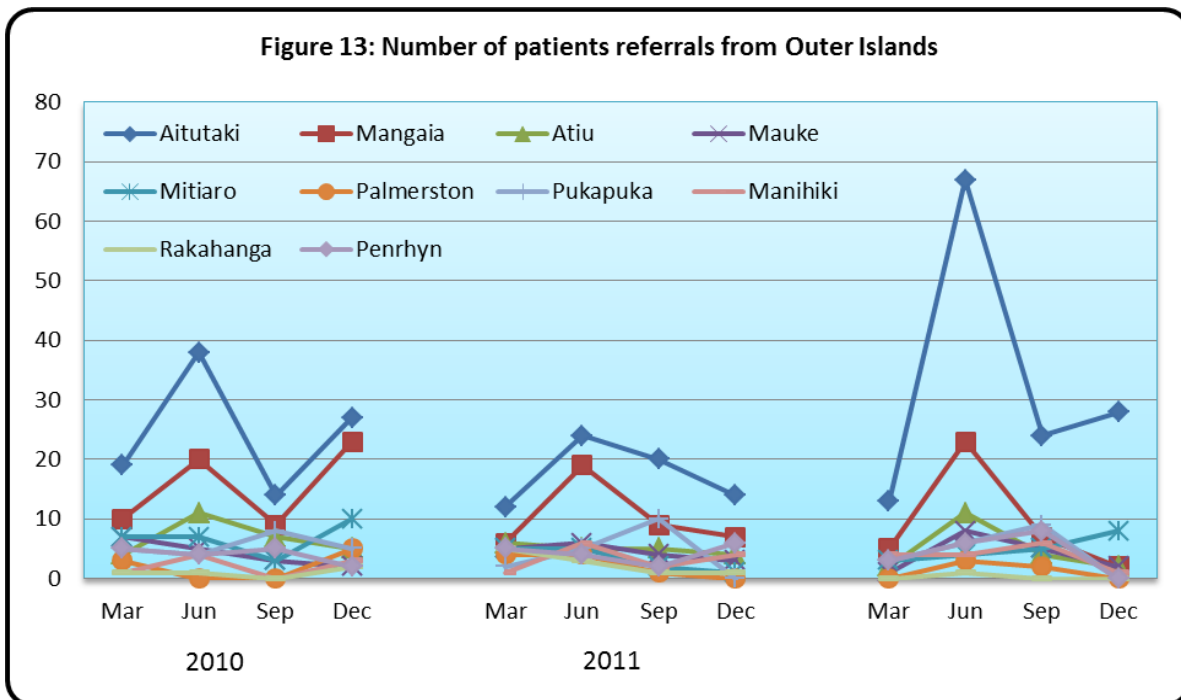
REGION & ISLAND	Census Districts	Hospital Beds	Out-patient Clinics	Dental Clinics	Health Centre	Child Welfare Clinics	Private Medical Clinics	Private Dental Clinics
COOK ISLANDS	44	127	9	5	6	48	5	3
RAROTONGA	12	70	2	1	0	27	5	3
SOUTHERN GROUP excl. Rarotonga	20	49	4	4	1	15	0	0
Aitutaki	4	28	1	1	0	8	0	0
Mangaia	6	6	1	1	0	5	0	0
Atiu	5	9	1	0	0	1	0	0
Mauke	3	6	1	1	0	1	0	0
Mitiaro	2	0	0	1	1	0	0	0
NORTHERN GROUP	12	8	3	0	5	6	0	0
Palmerston	1	0	0	0	1	0	0	0
Pukapuka	3	4	1	0	0	2	0	0
Nassau	1	0	0	0	1	0	0	0
Manihiki	2	2	1	0	1	1	0	0
Rakahanga	3	0	0	0	1	0	0	0
Penrhyn	2	2	1	0	1	3	0	0

3.2 Referrals

The number of patients referred overseas, mainly New Zealand is steady around 150 to 200 patients, within the last three years. As for patients referred to Rarotonga from the other Islands these recorded for 289 in 2010 to 280 in 2012.



Aitutaki recorded the most number of referrals received in each of the last three years as seen below followed by the Island of Mangaia. Our winter months of April to June recorded with the most cases referred in the last three years.

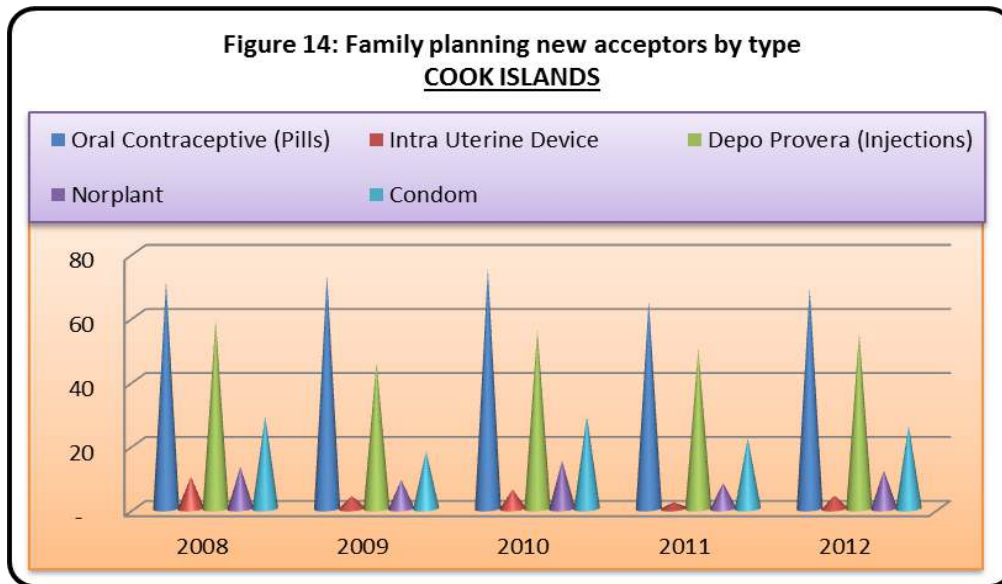


3.3 Family Planning

The total number of Child Bearing Ages (15 – 49) in the Cook Islands counted in the 2011 population census is 3,655. The two mostly used methods of contraceptives are the Oral contraceptive and Depo provera (injections). The prevalence rate of contraceptive use in 2012 is 30.9 percent.

Current Users – 1,130 cases were reported as practicing any type of family planning contraceptives in 2012 with 38.6 percent using the oral contraceptive method and 43.1 percent were using injections.

New Acceptors – 187 reported to have accepted to use any method of contraceptives for the first time in 2012 with 36.9 percent trying Oral contraceptive and 29.4 percent trying the injection method.



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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	17,794	8,815	8,979	2,368	2,259	3,651	3,933	1,600	1,604	1,196	1,183
RAROTONGA	13,095	6,460	6,635	1,596	1,523	2,816	3,088	1,186	1,209	862	815
SOUTHERN GROUP 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
NORTHERN GROUP	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		0 - 14		15 - 44		45 - 59		60 +		
	gender	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
RAROTONGA	10,572	5,278	5,294	1,471	1,398	2,241	2,353	923	913	643	630
SOUTHERN GROUP 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
NORTHERN GROUP	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 2008 - 2012

REGION & ISLAND	2008			2009			2010			2011			2012		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
COOK ISLANDS	293	163	130	280	147	133	289	137	152	284	152	132	292	163	129
RAROTONGA	254	146	108	248	130	118	255	125	130	254	137	117	258	144	114
SOUTHERN GROUP excluding Rarotonga	36	16	20	27	14	13	26	10	16	24	13	11	24	12	12
Aitutaki	31	14	17	21	12	9	22	9	13	20	13	7	20	10	10
Mangaia	4	2	2	2	0	2	2	1	1	1	0	1	0	0	0
Atiu	1	0	1	4	2	2	2	0	2	3	0	3	4	2	2
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	3	1	2	5	3	2	8	2	6	6	2	4	10	7	3
Palmerston	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	3	1	2	5	3	2	8	2	6	3	2	1	9	6	3
Manihiki	0	0	0	0	0	0	0	0	0	3	0	3	1	1	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 2012**

REGION & ISLAND	Total	Age of Mother							
		< 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 2.3: Mothers given Birth by Region & Island and Age of Mother
COOK ISLANDS 2011**

REGION & ISLAND	Total	Age of Mother							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45 +
COOK ISLANDS	283	0	37	70	71	47	40	17	1
RAROTONGA	253	0	36	57	64	44 ^a	36	15	1
SOUTHERN GROUP excluding Rarotonga	24	0	1	11	4	2	4	2	0
Aitutaki	20	0	1	9	4	2	2	2	0
Mangaia	1	0	0	0	0	0	1	0	0
Atiu	3	0	0	2	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	6	0	0	2	3	1	0	0	0
Palmerston	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	3	0	0	0	2	1	0	0	0
Manihiki	3	0	0	2	1	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 2010**

REGION & ISLAND	Total	Age of Mother							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45 +
COOK ISLANDS	291	0	37	85	55	57	38	17	2
RAROTONGA	257	0	31	74	48	53	33	16	2
SOUTHERN GROUP excluding Rarotonga	26	0	4	10	4	3	4	1	0
Aitutaki	22	0	4	8	4	3	2	1	0
Mangaia	2	0	0	1	0	0	1	0	0
Atiu	2	0	0	1	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	8	0	2	1	3	1	1	0	0
Palmerston	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	8	0	2	1	3	1	1	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 2.5: Mothers given Birth by Region & Island and Age of Mother
COOK ISLANDS 2009**

REGION & ISLAND	Total	Age of Mother							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45 +
COOK ISLANDS	282	1	53	72	67	45	37	7	0
RAROTONGA	250	1	42 ^a	67	59 ^a	41 ^a	33	7 ^a	0
SOUTHERN GROUP excluding Rarotonga	27	0	9	5	6	4	3	0	0
Aitutaki	21	0	9	4	4	1	3	0	0
Mangaia	2	0	0	0	0	2	0	0	0
Atiu	4	0	0	1	2	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	5	0	2	0	2	0	1	0	0
Palmerston	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	5	0	2	0	2	0	1	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 2.6: Mothers given Birth by Region & Island and Age of Mother
COOK ISLANDS 2008**

REGION & ISLAND	Total	Age of Mother							
		< 15	15-19	20-24	25-29	30-34	35-39	40-44	45 +
COOK ISLANDS	296	0	35	82	72	60	33	14	0
RAROTONGA	256	0	31 ^a	75	62	46	29	13	0
SOUTHERN GROUP excluding Rarotonga	36	0	4	6	9	12	4	1	0
Aitutaki	31	0	4	6	7	10	4	0	0
Mangaia	4	0	0	0	1	2	0	1	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	4	0	0	1	1	2	0	0	0
Palmerston	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	4	0	0	1	1	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 pairs of twins.

**Table 2.7: Mothers Given Birth and Fertility Rates by Age Groupings.
COOK ISLANDS 2006 - 2012**

Age Group	Female Resident Population			Number of Mothers						
	2001	2006	2011	2006	2007	2008	2009	2010	2011	2012
15-19	656	630	597	43	37	35	54	37	37	41
20-24	491	545	512	86	97	82	72	85	70	80
25-29	524	473	493	58	72	72	67	55	71	65
30-34	541	554	462	60	68	60	45	57	47	56
35-39	524	551	521	44	26	33	37	38	40	33
40-44	449	540	542	16	19	14	7	17	17	16
45-49	353	457	528	1	2	0	0	2	1	0
Total	3,538	3,750	3,655	308	321	296	282	291	283	291
Age-Specific Fertility Rate (per 1'000 Women)										
15-19				68	59	56	86	59	62	69
20-24				158	178	150	132	156	137	156
25-29				123	152	152	142	116	144	132
30-34				108	123	108	81	103	102	121
35-39				80	47	60	67	69	77	63
40-44				30	35	26	13	31	31	30
45-49				2	4	0	0	4	2	0
General Fertility Rate (GFR per 1'000 Women)				82	86	79	75	78	77	80
Total Fertility Rate				2.8	3.0	2.8	2.6	2.7	2.8	2.9

GFR = Total Number of Births/Female Population of CBA (15-44).

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

Note: Mothers aged <15 are included in the 15-19 age group those aged > 44 are included in the 40-44 age group

**Table 2.8: Reported cases of notifiable diseases by month
COOK ISLANDS 2012**

Selected Diseases	MONTH												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Acute Respiratory Infection	507	706	630	833	1,581	933	1,072	1,064	713	718	598	524	9,879
Asthma	6	9	4	11	20	17	19	20	10	19	12	8	155
Bronchitis	25	22	15	17	58	57	47	63	50	46	28	22	450
Chickenpox	4	0	0	0	1	3	3	11	3	6	4	9	44
Conjunctivitis	16	20	30	33	32	24	26	16	11	19	10	9	246
Dengue	0	0	0	1	2	0	0	0	0	0	2	0	5
Diarrhoea child/adult	10	13	9	6	15	13	23	42	24	44	39	22	260
Diarrhoea infant	0	2	0	1	2	0	1	2	3	3	2	3	19
Fish Poisoning	8	12	4	4	4	5	6	6	7	7	12	5	80
Food Poisoning	7	3	5	4	0	0	3	2	2	6	8	6	46
Gastroenteritis	84	62	74	53	82	86	97	179	64	114	118	72	1,085
Influenza & Viral Illness	31	22	9	8	162	25	14	31	32	42	25	19	420
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis	0	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	1	1	0	0	0	0	0	1	0	0	0	1	4
Otitis Media	38	11	21	41	17	22	27	24	22	24	28	25	300
Pneumonia	33	26	53	86	160	65	133	140	67	55	55	28	901
Rheumatic fever	5	3	4	3	3	2	2	5	6	3	1	3	40
Scabies	17	15	15	16	30	29	21	28	33	34	20	27	285
Skin Sepsis	178	138	163	199	185	154	172	165	159	152	169	198	2,032
Whooping Cough	0	2	3	0	0	2	0	0	0	0	0	0	7

**Table 2.9: Reported cases of notifiable diseases by month
COOK ISLANDS 2011**

Selected Diseases	MONTH												TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Acute Respiratory Infections	371	485	852	430	615	529	606	717	620	598	615	638	7,076
Asthma	3	8	14	10	13	10	11	17	10	9	12	16	133
Bronchitis	43	45	48	36	53	37	53	47	51	39	55	39	546
Chickenpox	2	1	0	1	0	0	7	2	1	1	6	1	22
Conjunctivitis	411	184	96	35	24	5	10	15	12	13	12	25	842
Dengue	0	0	0	0	0	0	0	0	0	0	0	0	0
Diarrhoea (Child/Adult)	7	11	13	8	8	5	8	12	19	7	16	14	128
Diarrhoea (Infant)	0	1	0	1	1	1	0	1	1	1	1	3	11
Fish Poisoning	5	3	9	20	8	4	13	10	6	9	6	9	102
Food Poisoning	0	1	5	2	2	1	3	0	5	1	7	3	30
Gastroenteritis	69	40	43	30	37	43	61	83	68	55	78	76	683
Influenza & Viral Illness	5	28	220	49	26	70	55	69	38	30	24	34	648
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0
Meningitis	2	0	0	0	0	0	0	0	0	0	0	0	2
Mumps	0	0	0	0	0	1	0	1	0	0	1	1	4
Otitis Media	23	11	12	15	13	13	16	18	23	16	24	42	226
Pneumonia	37	15	51	45	49	54	32	58	44	45	28	47	505
Rheumatic Fever	1	0	2	1	0	0	0	2	2	1	6	3	18
Scabies	13	21	15	18	8	23	18	18	17	26	23	16	216
Skin Sepsis	125	86	107	142	103	124	116	116	88	82	134	140	1,363
Whooping Cough	0	1	4	0	0	0	0	0	1	0	0	1	7

**Table 2.10: Reported cases of notifiable diseases by month
COOK ISLANDS 2010**

Disease	MONTH												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Acute Respiratory Infection	310	443	460	520	577	600	437	524	434	501	549	523	5,878
Asthma	6	5	15	11	19	9	19	9	7	18	10	7	135
Bronchitis	40	80	42	82	59	70	56	84	58	55	63	48	737
Chickenpox	5	3	1	0	0	1	1	1	1	0	0	0	13
Conjunctivitis	42	24	32	9	17	28	24	23	27	32	16	33	307
Dengue	0	0	0	0	0	0	0	1	0	0	0	0	1
Diarrhoea child/adult	8	3	7	8	3	7	7	20	19	18	17	10	127
Diarrhoea infant	0	0	1	0	2	0	0	1	0	0	0	0	4
Fish Poisoning	5	10	10	7	11	9	11	2	4	1	5	3	78
Food Poisoning	3	8	4	3	7	2	2	0	2	0	1	0	32
Gastroenteritis	61	49	43	75	47	44	44	54	82	76	41	61	677
Influenza & Viral Illness	14	20	17	44	51	8	18	29	10	4	3	3	221
Measles	0	0	0	0	0	0	0	0	0	0	1	0	1
Meningitis	0	0	0	0	0	0	0	1	0	0	1	1	3
Mumps	0	0	2	2	0	0	1	0	2	0	0	0	7
Otitis Media	26	16	15	20	10	17	6	16	10	16	18	16	186
Pneumonia	23	33	21	32	15	22	19	23	16	36	20	26	286
Rheumatic fever	3	0	3	3	5	2	4	3	1	2	0	2	28
Scabies	2	2	3	6	5	15	7	5	11	6	13	8	83
Skin Sepsis	124	110	97	106	109	91	94	90	103	106	139	87	1,256
Whooping Cough	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table 2.11: Reported cases of notifiable diseases by month
COOK ISLANDS 2009**

Selected Diseases	MONTH												TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Acute Respiratory Infections	480	462	575	735	1,010	911	828	657	891	537	566	484	8,136
Asthma	79	48	43	45	42	45	41	40	34	38	28	39	522
Chickenpox	3	2	4	5	6	22	51	48	55	36	25	22	279
Conjunctivitis	30	15	24	31	33	19	22	17	14	26	20	37	288
Dengue	1	5	8	594	684	98	10	2	0	1	1	0	1,404
Diarrhoea (Child/Adult)	20	12	9	19	16	24	19	16	12	16	11	11	185
Diarrhoea (Infant)	0	0	0	0	2	0	0	1	0	0	0	0	3
Fish Poisoning	29	17	13	9	12	9	3	4	4	11	16	9	136
Gastro Enteritis	102	48	34	65	54	24	41	97	86	73	66	39	729
Influenza & Viral Illness	109	129	126	285	303	301	189	189	303	83	77	21	2,115
Measles	1	0	0	0	0	1	0	0	0	0	0	0	2
Meningitis	0	0	0	0	0	0	0	0	0	0	0	0	0
Mumps	1	1	2	0	1	1	0	0	1	0	0	0	7
Pneumonia	11	11	7	9	20	11	5	10	19	7	8	9	127
Rheumatic Fever	4	3	2	3	0	2	5	4	3	0	2	1	29
Scabies	10	7	13	4	7	10	0	6	2	4	5	6	74
Skin Sepsis	260	158	183	198	156	126	151	100	69	74	72	64	1,611
Whooping Cough	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table 2.12: Reported cases of notifiable diseases by month
COOK ISLANDS 2008**

Selected Diseases	MONTH												TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Acute Respiratory Infections	289	359	109	433	599	444	494	681	770	626	509	479	5,792
Asthma	53	45	40	40	54	51	33	27	34	36	39	30	482
Bronchitis	33	52	50	42	36	22	48	62	62	82	61	61	611
Chickenpox	0	1	3	8	3	4	5	4	9	24	7	7	75
Conjunctivitis	33	53	36	39	43	23	19	18	27	34	28	49	402
Dengue	17	7	7	7	12	7	2	29	0	0	2	1	91
Diarrhoea (Child/Adult)	29	27	18	18	36	12	23	13	20	17	17	16	246
Diarrhoea (Infant)	13	5	4	10	5	3	2	4	0	5	0	1	52
Fish Poisoning	31	39	16	14	24	21	14	14	17	19	18	15	242
Food Poisoning	5	8	12	10	5	8	11	14	10	12	11	13	119
Gastro Enteritis	105	68	49	35	59	43	26	69	67	58	96	103	778
Influenza & Viral Illness	252	226	230	213	396	210	200	132	211	147	135	69	2,421
Measles	0	0	0	1	0	0	0	0	0	0	0	0	1
Meningitis	0	0	0	0	0	0	1	1	3	0	0	0	5
Mumps	6	1	3	3	5	3	0	1	0	1	2	0	25
Otitis Media	16	13	14	11	17	6	7	8	14	18	14	20	158
Pneumonia	34	47	31	29	47	45	56	21	31	26	33	22	422
Rheumatic Fever	2	3	4	5	8	9	3	5	1	0	3	3	46
Scabies	14	8	5	12	12	7	2	5	12	6	16	12	111
Skin Sepsis	180	168	205	183	184	156	94	88	81	89	135	237	1,800
Whooping Cough	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table 2.13: Prevalence of Registered NCD Cases by Year
COOK ISLANDS 2004 - 2012**

Years		Hypertension					TOTAL	Resident Population Estimate	%
		Hypertension	Diabetes	& Diabetes	Cancer	Asthma			
2004-2008	Total	1,200	340	709	178	669	3,096		
	Resident	1,063	301	602	140	627	2,733		
	Deceased	137	39	107	38	42	363		
2009	Total	1,284	396	750	207	764	3,401	13,300	22.6
	Residence	1,139	352	641	150	719	3,001		
	Deceased	145	44	109	57	45	400		
2010	Total	1,343	420	768	238	879	3,648	11,900	27.1
	Residence	1,197	374	658	161	834	3,224		
	Deceased	146	46	110	77	45	424		
2011	Total	1,398	436	786	265	988	3,873	14,700	23.3
	Residence	1,250	389	675	173	942	3,429		
	Deceased	148	47	111	92	46	444		
2012	Total	1,496	457	807	313	1,128	4,201	14,300	26.0
	Residence	1,346	410	695	195	1,079	3,725		
	Deceased	150	47	112	118	49	476		

Table 2.14: Incidence of NCD Cases Registered by Year.
COOK ISLANDS

Years		Hypertension					TOTAL	Resident Population Estimate	%
		Hypertension	Diabetes	& Diabetes	Cancer	Asthma			
2004-2008	Total	1,200	340	709	178	669	3,096		
	Resident	1,063	301	602	140	627	2,733		
	Deceased	137	39	107	38	42	363		
2009	Total	84	56	41	29	95	305	13,300	2.0
	Residence	76	51	39	10	92	268		
	Deceased	8	5	2	19	3	37		
	Outer Islands	42	15	18	0	28	103		
2010	Total	59	24	18	31	115	247	11,900	1.9
	Residence	58	22	17	11	115	223		
	Deceased	1	2	1	20	0	24		
	Outer Islands	32	14	7	0	31	84		
2011	Total	55	16	18	27	109	225	14,700	1.4
	Residence	53	15	17	12	108	205		
	Deceased	2	1	1	15	1	20		
	Outer Islands	33	5	10	0	27	75		
2012	Total	98	21	21	48	140	328	14,300	2.1
	Residence	96	21	20	22	137	296		
	Deceased	2	0	1	26	3	32		
	Outer Islands	35	14	11	0	33	93		

Note: ⁽¹⁾ Source of population data is the Statistics Office (MFEM) - June quarter

**Table 2.15: Incidence of NCD Cases Registered
by Region & Island - COOK ISLANDS 2012**

REGION & ISLAND	Hypertension				Total
	Hypertension	Diabetes	& Diabetes	Asthma	
COOK ISLANDS	96	21	20	137	274
RAROTONGA	61	7	9	104	181
SOUTHERN GROUP excluding Rarotonga	30	9	10	32	81
Aitutaki	13	3	5	26	47
Mangaia	2	1	0	5	8
Atiu	3	3	1	0	7
Mauke	11	2	4	1	18
Mitiharo	1	0	0	0	1
NORTHERN GROUP	5	5	1	1	12
Palmerston					0
Pukapuka/Nassau	1	0	0	0	1
Manihiki	4	4	1	1	10
Rakahanga	0	1	0	0	1
Penrhyn					0

**Table 2.16: Incidence of NCD Cases Registered
by Region & Island - COOK ISLANDS 2011**

REGION & ISLAND	Hypertension	Diabetes	Hypertension & Diabetes	Asthma	Total
COOK ISLANDS	53	15	17	108	193
RAROTONGA	22	10	8	81	121
SOUTHERN GROUP excluding Rarotonga	28	5	9	26	68
Aitutaki	11	3	3	12	29
Mangaia	3	2	2	9	16
Atiu	0	0	1	0	1
Mauke	13	0	3	4	20
Mitiaro	1	0	0	1	2
NORTHERN GROUP	3	0	0	1	4
Palmerston					0
Pukapuka/Nassau	1	0	0	0	1
Manihiki	1	0	0	0	1
Rakahanga	1	0	0	1	2
Penrhyn					0

**Table 2.17: Incidence of NCD Cases Registered
by Region & Island - COOK ISLANDS 2010**

REGION & ISLAND	Hypertension	Diabetes	Hypertension & Diabetes	Asthma	Total
COOK ISLANDS	58	22	17	115	212
RAROTONGA	27	10	10	84	131
SOUTHERN GROUP excluding Rarotonga	28	9	6	30	73
Aitutaki	15	5	4	22	46
Mangaia	2	2	1	7	12
Atiu	3	1	0	0	4
Mauke	8	1	1	0	10
Mitiaro	0	0	0	1	1
NORTHERN GROUP	3	3	1	1	8
Palmerston					0
Pukapuka/Nassau					0
Manihiki	2	2	0	1	5
Rakahanga	1	1	1	0	3
Penrhyn					0

**Table 2.18: Incidence of NCD Cases Registered
by Region & Island - COOK ISLANDS 2009**

REGION & ISLAND	Hypertension	Diabetes	Hypertension & Diabetes	Asthma	Total
COOK ISLANDS	76	51	39	92	258
RAROTONGA	39	40	23	67	169
SOUTHERN GROUP excluding Rarotonga	34	8	11	24	77
Aitutaki	9	3	2	12	26
Mangaia	11	0	3	10	24
Atiu	9	2	3	1	15
Mauke	0	2	2	1	5
Mitiaro	5	1	1	0	7
NORTHERN GROUP	3	3	5	1	12
Palmerston					0
Pukapuka/Nassau	3	2	5	0	10
Manihiki					0
Rakahanga					0
Penrhyn	0	1	0	1	2

**Table 2.19: Incidence of Cancer cases by Site, Sex and Age Groupings
COOK ISLANDS 2012**

SITE	MALE							Total	% Distribution
	0-14	15-24	25-34	35-44	45-54	55-64	65+		
ALL SITES	0	0	0	0	2	3	7	12	100.0
Malignant neoplasms of lip, oral cavity and pharynx	0	0	0	0	0	1	0	1	8.3
Malignant neoplasm of liver & intrahepatic bile ducts	0	0	0	0	1	0	2	3	25.0
Malignant neoplasm of trachea, bronchus and lung	0	0	0	0	1	1	1	3	25.0
Malignant neoplasms of prostate	0	0	0	0	0	1	2	3	25.0
Other malignant neoplasms of urinary tract	0	0	0	0	0	0	2	2	16.7
	FEMALE								
ALL SITES	0	0	0	2	1	2	5	10	100.0
Malignant neoplasm of liver & intrahepatic bile ducts	0	0	0	0	0	1	1	2	20.0
Malignant neoplasm of trachea, bronchus and lung	0	0	0	0	0	1	0	1	10.0
Malignant neoplasm of breast	0	0	0	1	1	0	0	2	20.0
Malignant neoplasm of cervix uteri	0	0	0	0	0	0	1	1	10.0
Malignant neoplasms of other and unspecified parts of uterus	0	0	0	1	0	0	2	3	30.0
Malignant neoplasms of thyroid and other endocrine glands	0	0	0	0	0	0	1	1	10.0

**Table 2.20: Incidence of Cancer cases by Site, Sex and Age Groupings
COOK ISLANDS 2011**

SITE	MALE							Total	Distribution
	0-14	15-24	25-34	35-44	45-54	55-64	65+		
ALL SITES	0	0	0	0	1	2	0	3	100.0
Malignant neoplasm of liver & intrahepatic bile ducts	0	0	0	0	1	0	0	1	33.3
Malignant neoplasm of trachea, bronchus and lung	0	0	0	0	0	1	0	1	33.3
Malignant neoplasms of bladder	0	0	0	0	0	1	0	1	33.3
SITE	FEMALE							Total	Distribution
	0-14	15-24	25-34	35-44	45-54	55-64	65+		
ALL SITES	0	0	1	1	4	2	1	9	100.0
Other malignant neoplasms of digestive organs	0	0	0	0	1	0	0	1	11.1
Other malignant neoplasms of respiratory and intrathoracic organs	0	0	0	0	0	0	1	1	11.1
Malignant neoplasm of breast	0	0	0	1	0	0	0	1	11.1
Malignant neoplasm of cervix uteri	0	0	1	0	3	0	0	4	44.4
Malignant neoplasms of other and unspecified parts of uterus	0	0	0	0	0	1	0	1	11.1
Other malignant neoplasms of female genital organs	0	0	0	0	0	1	0	1	11.1

**Table 2.21: Incidence of Cancer cases by Site, Sex and Age Groupings
COOK ISLANDS 2010**

SITE	MALE							Total	% Distribution
	0-14	15-24	25-34	35-44	45-54	55-64	65+		
ALL SITES	0	0	0	0	0	1	0	1	100.0
Leukaemia	0	0	0	0	0	1	0	1	100.0
SITE	FEMALE							Total	% Distribution
	0-14	15-24	25-34	35-44	45-54	55-64	65+		
ALL SITES	1	0	1	1	5	2	0	10	100.0
Malignant neoplasms of lip, oral cavity and pharynx	1	0	0	0	0	0	0	1	10.0
Malignant neoplasm of breast	0	0	0	0	2	1	0	3	30.0
Malignant neoplasms of other and unspecified parts of uterus	0	0	0	0	1	0	0	1	10.0
Malignant neoplasms of ovary	0	0	1	0	0	0	0	1	10.0
Malignant neoplasms of throid and other endocrine glands	0	0	0	0	1	0	0	1	10.0
Multiple myeloma and malignant plasma cell neoplasms	0	0	0	0	0	1	0	1	10.0
Benign neoplasms	0	0	0	1	1	0	0	2	20.0

**Table 2.22: Incidence of Cancer cases by Site, Sex and Age Groupings
COOK ISLANDS 2009**

SITE	MALE								% Distribution
	0-14	15-24	25-34	35-44	45-54	55-64	65 +	Total	
ALL SITES	0	0	0	1	0	0	2	3	100.0
Malignant neoplasms of prostate	0	0	0	0	0	0	1	1	33.3
Other malignant neoplasms of urinary tract	0	0	0	1	0	0	0	1	33.3
Malignant neoplasms of throid and other endocrine glands	0	0	0	0	0	0	1	1	33.3
	FEMALE								
ALL SITES	0	0	1	3	2	0	1	7	100.0
Malignant neoplasm of breast	0	0	0	1	0	0	1	2	28.6
Malignant neoplasm of cervix uteri	0	0	0	0	1	0	0	1	14.3
Malignant neoplasms of ovary	0	0	0	1	0	0	0	1	14.3
Other malignant neoplasms of female genital organs	0	0	0	1	0	0	0	1	14.3
Malignant neoplasms of bladder	0	0	1	0	0	0	0	1	14.3
Malignant neoplasms of throid and other endocrine glands	0	0	0	0	1	0	0	1	14.3

**Table 2.23: Incidence of Cancer cases by Site, Sex and Age Groupings
RAROTONGA 2008**

SITE	MALE								% Distribution
	0-14	15-24	25-34	35-44	45-54	55-64	65 +	Total	
ALL SITES	0	0	0	1	2	1	7	11	100.0
Malignant neoplasms of lip, oral cavity and pharynx	0	0	0	0	1	0	0	1	9.1
Malignant neoplasm of colon, rectum and anus	0	0	0	0	0	1	0	1	9.1
Malignant neoplasm of liver & intrahepatic bile ducts	0	0	0	0	0	0	1	1	9.1
Malignant neoplasm of trachea, bronchus and lung	0	0	0	0	1	0	1	2	18.2
Malignant neoplasms of prostate	0	0	0	0	0	0	4	4	36.4
Leukaemia	0	0	0	1	0	0	1	2	18.2
	FEMALE								
ALL SITES	0	0	0	1	3	1	5	10	100.0
Malignant neoplasms of lip, oral cavity and pharynx	0	0	0	1	0	0	0	1	10.0
Malignant neoplasm of breast	0	0	0	0	0	0	3	3	30.0
Malignant neoplasm of cervix uteri	0	0	0	0	0	1	0	1	10.0
Malignant neoplasms of eye/meninges/brain/other parts of central nervous system	0	0	0	0	2	0	0	2	20.0
Malignant neoplasms of throid and other endocrine glands	0	0	0	0	1	0	0	1	10.0
Leukaemia	0	0	0	0	0	0	2	2	20.0

**TABLE 2.24: Admissions due to Transport Accidents
RAROTONGA 2006 - 2012**

Type of Accident	2006	2007	2008	2009	2010	2011	2012
Transport Accidents	108	86	50	52	46	60	43
Alcohol Related Accidents	54	42	32	30	26	32	27
Percentage Alcohol Related	50.0	48.8	64.0	57.7	56.5	53.3	62.8
Alcohol Related Deaths	1	3	4	2	2	4	2
Non-Alcohol Related Deaths	1	2	0	0	0	0	2

**TABLE 2.25: Alcohol Related Transport Accidents by
Age Groupings and Year
RAROTONGA 2006 - 2012**

Age Group	2006	2007	2008	2009	2010	2011	2012
0 - 14	0	1	1	0	2	0	7
15 - 24	29	21	19	15	12	16	6
25 - 34	10	12	5	7	5	7	5
35 - 44	9	5	3	6	5	4	9
45 - 54	6	2	3	1	1	3	0
55 +	0	1	1	1	1	2	0
Total	54	42	32	30	26	32	27

TABLE 2.26: Deaths by Region & Island, Year and Sex.

COOK ISLANDS 2008 - 2012

REGION & ISLAND	2008			2009			2010			2011			2012		
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female
COOK ISLANDS	65	41	24	84	48	36	97	63	34	108	57	51	113	69	44
RAROTONGA	51	34	17	62	34	28	67	45	22	71	36	35	84	53	31
SOUTHERN GROUP excluding Rarotonga	10	6	4	15	11	4	25	15	10	27	17	10	26	15	11
Aitutaki	5	3	2	9	6	3	8	5	3	13	8	5	10	7	3
Mangaia	4	2	2	3	3	0	10	5	5	3	1	2	9	5	4
Atiu	1	1	0	1	1	0	1	1	0	3	3	0	2	1	1
Mauke	0	0	0	2	1	1	4	3	1	4	3	1	3	1	2
Mitiaro	0	0	0	0	0	0	2	1	1	4	2	2	2	1	1
NORTHERN GROUP	4	1	3	7	3	4	5	3	2	10	4	6	3	1	2
Palmerston	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	2	0	2	7	3	4	3	3	0	3	1	2	2	0	2
Manihiki	1	0	1	0	0	0	2	0	2	3	1	2	1	1	0
Rakahanga	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
Penrhyn	1	1	0	0	0	0	0	0	0	3	1	2	0	0	0

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

TABLE 2.27: Death by Cause, Age Groupings and Sex – COOK ISLANDS 2012

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
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
Septicaemia	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
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
Malignant neoplasm of liver and intrahepatic bile ducts	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0
Malignant neoplasm of bronchus and lung	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	0	0	0
Malignant neoplasm of breast	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
Malignant neoplasm of prostate	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	1	0
Other	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	1	1	2	2	0
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
Diabetes Mellitus	7	6	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	2	2	2	3	0	0	1
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
Hypertension Disease	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	0	1	0
Ischaemic heart diseases	4	4	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2	0	0	1	0	2	0	0
Heart failure	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2	0	1
Cerebrovascular Disease	6	7	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	0	2	5	0	1	
Other	7	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	1	2	1
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
Pneumonia	6	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	2	0	2	2	0	1
Other	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0
Diseases of the genitourinary system	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Certain conditions originating in the perinatal period	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symptoms, signs & abnormal clinical & laboratory findings, n.e.c.	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	3
Injury, poisoning & 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
Injuries to the head	3	1	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0
Other	3	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0
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
Transport accidents	4	1	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	1	0	1	0	0	0
Falls	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Intentional self-harm	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 2.28: Death by Cause, Age Groupings and Sex - COOK ISLANDS 2011

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	
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	0	2
Septicaemia	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	2
Other	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Neoplasms	9	6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	3	2	4	3	0	0	0
Malignant neoplasm of liver and intrahepatic bile ducts	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0
Malignant neoplasm of pancreas	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Malignant neoplasm of bronchus and lung	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
Malignant neoplasm of breast	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0
Malignant neoplasm of prostate	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0
Secondary malignant neoplasm of liver	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Other	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Diseases of the blood and bloodforming organs	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	3
Diabetes Mellitus	3	18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	1	3	1	8	1	3	3
Other	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Diseases of the nervous system	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
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	3
Hypertension Disease	11	5	0	0	0	0	0	0	0	0	0	0	1	0	2	0	1	0	2	3	4	0	1	2	2
Ischaemic heart diseases	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0
Heart failure	9	2	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1	0	3	0	3	1	1
Cerebrovascular Disease	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Other	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0
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	1
Pneumonia	4	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	3	0	0	0	0
Other	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	1
Diseases of the digestive system	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Diseases of the genitourinary system	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Certain conditions originating in the perinatal period	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symptoms, signs, abnormal clinical & laboratory findings, n.e.c	2	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Injury/poisoning & certain other consequence 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	0
Injuries to the head	4	2	0	0	0	0	0	1	2	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0
Other	5	1	0	0	0	0	0	0	1	1	1	0	0	0	1	0	1	0	0	0	0	0	1	0	0
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	0
Transport accidents	3	1	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
Falls	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Accidental drowning and submersion	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Intentional self-harm	2	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 2.29: Death by Cause, Age Groupings and Sex COOK ISLANDS 2010

Underlying Cause of Death	All Age		< 1		1-4		5-14		15-24		25-34		35-44		45-54		55-64		65-74		> 74	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ALL CAUSES	63	34	0	1	1	0	0	0	3	0	1	0	2	2	7	4	7	3	23	6	19	18
Certain infectious and parasitic diseases	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
Septicaemia	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
Neoplasms	13	7	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	6	2	4	1
Malignant neoplasm of bronchus and lung	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	2	0
Malignant neoplasm of breast	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
Malignant neoplasm of prostate	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Secondary malignant neoplasm of lung	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Secondary malignant neoplasm of liver	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
Other	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0
Endocrine, nutritional and metabolic diseases	14	6	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	8	1	3	5
Diabetes Mellitus	14	6	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	8	1	3	5
Diseases of the circulatory system	24	14	0	0	0	0	0	0	0	0	1	0	0	1	3	1	3	0	7	2	10	10
Hypertension Disease	13	5	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	0	4	0	6	4
Ischaemic heart diseases	3	6	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	2	0	3
Heart failure	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3
Cerebrovascular Disease	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Other	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	2	0
Diseases of the respiratory system	3	4	0	1	0	0	0	0	1	0	0	0	0	1	0	0	1	0	1	1	0	1
Pneumonia	2	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0
Other	1	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1
Diseases of the digestive system	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Diseases of the genitourinary system	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Symptoms, signs & abnormal clinical & laboratory findings, n.e.c.	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Injury/poisoning & certain other consequences of external causes	5	0	0	0	1	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0
Injuries to the head	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
Other	3	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
External causes of mortality	5	0	0	0	1	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0
Transport accidents	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
Accidental drowning and submersion	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Intentional self-harm	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0

TABLE 2.30: Death by Cause, Age Groupings and Sex COOK ISLANDS 2009

Underlying Cause of Death	All Age		< 1		1-4		5-14		15-24		25-34		35-44		45-54		55-64		65-74		> 74	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ALL CAUSES	46	35	0	0	0	0	0	0	0	1	2	0	6	1	3	5	4	3	12	15	19	10
Certain infectious and parasitic diseases	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Septicaemia	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Neoplasms	10	9	0	0	0	0	0	0	0	0	0	0	1	0	0	3	1	1	3	3	5	2
Malignant neoplasm of liver and intrahepatic bile ducts	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Malignant neoplasm of bronchus and lung	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
Malignant neoplasm of breast	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	2
Malignant neoplasm of prostate	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Secondary malignant neoplasm of lung	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Secondary malignant neoplasm of liver	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Other	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	2	0
Diseases of the blood and bloodforming organs	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Endocrine, nutritional and metabolic diseases	6	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	3	4	0
Diabetes Mellitus	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	4	0
Other	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Diseases of the circulatory system	14	16	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	2	6	7	5	6
Hypertension Disease	4	11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	5	1	5
Ischaemic heart diseases	2	3	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	1
Heart failure	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0
Cerebrovascular Disease	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	2	0
Diseases of the respiratory system	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
Pneumonia	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1
Diseases of the digestive system	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	0
Symptoms, signs & abnormal clinical & laboratory findings, n.e.c.	3	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
Injury/poisoning & certain other consequences of external causes	6	1	0	0	0	0	0	0	0	1	1	0	3	0	1	0	0	0	0	0	1	0
Injuries to the head	2	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0
Other	4	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0
External causes of mortality	6	1	0	0	0	0	0	0	0	1	1	0	3	0	1	0	0	0	0	0	1	0
Transport accidents	2	1	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0
Intentional self-harm	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
Effects of foreign body entering through natural orifice	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

TABLE 2.31: Death by Cause, Age Groupings and Sex COOK ISLANDS 2008

Underlying Cause of Death	All Age		< 1		1-4		5-14		15-24		25-34		35-44		45-54		55-64		65-74		> 74	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
ALL CAUSES	41	24	2	0	0	0	0	0	2	2	2	1	6	3	2	1	3	1	10	4	14	12
Certain infectious and parasitic diseases	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Septicaemia	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Neoplasms	8	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	5	1	2	1
Malignant neoplasm of bronchus and lung	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Malignant neoplasm of breast	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Malignant neoplasm of prostate	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Secondary malignant neoplasm of lung	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Secondary malignant neoplasm of liver	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0
Other	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1
Endocrine, nutritional and metabolic diseases	2	4	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	3
Diabetes Mellitus	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3
Other	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Diseases of the nervous system	4	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
Diseases of the circulatory system	14	9	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	1	5	2	6	5
Hypertension Disease	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	5	4
Ischaemic heart diseases	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0
Heart failure	2	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1
Cerebrovascular Disease	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Other	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Diseases of the respiratory system	4	1	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	2	0
Pneumonia	3	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0
Other	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Diseases of the digestive system	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Certain conditions originating in the perinatal period	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Symptoms, signs & abnormal clinical & laboratory findings, n.e.c.	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Injury/poisoning & certain other consequences of external causes	3	4	0	0	0	0	0	0	1	2	1	1	0	1	0	0	1	0	0	0	0	0
Injuries to the head	1	3	0	0	0	0	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0
Other	2	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0
External causes of mortality	3	3	0	0	0	0	0	0	1	2	1	0	0	1	0	0	1	0	0	0	0	0
Transport accidents	2	2	0	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0
Intentional self-harm	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0

**TABLE 2.32: Selected common causes of Death by Year and Rate
COOK ISLANDS 2009 - 2012**

Cause of Death	2009		2010		2011		2012	
	Number of death	Rate per 100,000	Number of death	Rate per 100,000	Number of death	Rate per 100,000	Number of death	Rate per 100,000
Diseases of the Circulatory System	30	225.6	38	319.3	34	231.3	43	300.7
Hypertension	15	112.8	18	151.3	16	108.8	5	35.0
Ischaemic heart disease	5	37.6	9	75.6	3	20.4	8	55.9
Cerebrovascular Disease	6	45.1	1	8.4	1	6.8	13	90.9
Heart Failure	4	30.1	5	42.0	11	74.8	7	49.0
Other	0	0.0	5	42.0	3	20.4	10	69.9
Neoplasms	19	142.9	20	168.1	15	102.0	26	181.8
Liver and intrahepatic bile ducts	3	22.6	0	0.0	3	20.4	3	21.0
Trachea, Bronchus & Lungs	3	22.6	6	50.4	2	13.6	4	28.0
Prostate	2	15.0	2	16.8	4	27.2	5	35.0
Female								
Breast	5	37.6	2	16.8	3	20.4	2	14.0
Other	6	45.1	10	84.0	3	20.4	12	83.9
Diseases of the Respiratory System	5	37.6	7	58.8	9	61.2	12	83.9
Pneumonia	5	37.6	4	33.6	4	27.2	9	62.9
Bronchitis, Emphysema & Asthma	0	0.0	1	8.4	3	20.4	2	14.0
Other	0	0.0	2	16.8	2	13.6	1	7.0
Endocrine, Nutritional & Metabolic Diseases & Immunity Disorders	9	67.7	20	168.1	23	156.5	13	90.9
Diabetes Mellitus	8	60.2	20	168.1	21	142.9	13	90.9
Other	1	7.5	0	0.0	2	13.6	0	0.0
Symptoms, Signs & Ill-Defined Conditions	5	37.6	2	16.8	3	20.4	6	42.0
Certain Infectious and Parasitic Diseases	2	15.0	3	25.2	5	34.0	2	14.0
Septicaemia	2	15.0	3	25.2	4	27.2	2	14.0
Other	0	0.0	0	0.0	1	6.8	0	0.0
Injury, poisoning & certain other consequences of external causes	7	52.6	5	42.0	12	81.6	8	55.9
Injuries to the head	3	22.6	2	16.8	6	40.8	4	28.0
Other	4	30.1	3	25.2	6	40.8	4	28.0
Diseases of the Nervous System	0	0.0	0	0.0	1	6.8	0	0.0
Diseases of the Digestive System	4	30.1	1	8.4	1	6.8	0	0.0
Ulcer of Stomach and Duodenum	1	7.5	0	0.0	0	0.0	0	0.0
Chronic Liver disease and Cirrhosis	2	15.0	1	8.4	1	6.8	0	0.0
Other	1	7.5	0	0.0	0	0.0	0	0.0
Certain Conditions Originating in the Perinatal Period	2	15.0	0	0.0	2	13.6	2	14.0
Diseases of the Genitourinary System	0	0.0	1	8.4	2	13.6	1	7.0
EXTERNAL CAUSES OF INJURY AND POISONING	7	52.6	5	42.0	10	68.0	8	55.9
Transport accidents	3	22.6	2	16.8	4	27.2	5	35.0
Intentional self-harm	3	22.6	2	16.8	3	20.4	2	14.0
Accidental drowning and submersion	0	0.0	1	8.4	1	6.8	0	0.0
Other	1	7.5	0	0.0	2	13.6	1	7.0

Note: Rates are calculated per 100,000 resident population

Source for population data is Statistics Cook Islands Quarterly Statistical Bulletin

**Table 3.1: Number of Patients referred Overseas and Rarotonga
COOK ISLANDS**

Period	Overseas	Island										
		TOTAL	Aitutaki	Mangaia	Atiu	Mauke	Mitiaro	Palmer- ston	Pukapuka /Nassau	Manihiki	Raka- hanga	Penrhyn
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
QUARTER												
2006	Mar	39	43	10	4	5	3	0	18	3	0	0
	Jun	37	39	17	8	7	0	2	0	1	3	1
	Sep	48	64	22	8	16	1	2	0	3	9	3
	Dec	30	41	15	7	8	5	2	0	4	0	0
2007	Mar	45	29	8	11	3	4	2	0	1	0	0
	Jun	34	73	18	8	9	22	3	0	8	5	0
	Sep	56	52	17	2	9	11	7	0	2	4	0
	Dec	47	26	10	1	4	2	3	3	1	0	2
2008	Mar	44	24	11	7	0	0	2	0	1	1	2
	Jun	56	92	32	20	5	4	3	1	10	3	14
	Sep	29	28	8	6	7	0	0	0	4	3	0
	Dec	38	21	6	4	1	1	1	0	6	0	2
2009	Mar	43	46	14	5	7	4	0	0	6	6	4
	Jun	30	65	16	11	5	9	7	2	11	4	0
	Sep	35	40	17	6	5	4	1	1	0	1	5
	Dec	29	46	14	8	12	5	3	0	4	0	0
2010	Mar	39	62	19	10	4	7	7	3	5	1	5
	Jun	41	94	38	20	11	5	7	0	4	4	4
	Sep	44	49	14	9	7	3	3	0	8	0	5
	Dec	34	84	27	23	5	2	10	5	5	3	2
2011	Mar	35	51	12	6	6	5	5	4	2	1	5
	Jun	25	81	24	19	5	6	5	4	5	6	4
	Sep	44	56	20	9	5	4	2	1	10	2	2
	Dec	46	40	14	7	4	3	1	0	0	4	6
2012	Mar	44	34	13	5	2	1	3	0	3	4	3
	Jun	45	133	67	23	11	8	4	3	6	4	6
	Sep	47	70	24	7	4	5	5	2	9	6	8
	Dec	36	43	28	2	2	2	8	0	0	1	0

**TABLE 3.2: CURRENT USERS - Women on Family Planning Contraceptives by Year.
COOK ISLANDS 2006 - 2012**

Contraceptive Type	YEAR						
	2006	2007	2008	2009	2010	2011	2012
All Methods	1,271	1,289	1,263	1,237	1,290	1,146	1,130
Prevalence Rate (%)	33.9	34.4	33.7	33.0	34.4	31.4	30.9
Oral Contraceptive (Pills)	562	681	581	575	588	514	436
Intra Uterine Device	9	17	15	9	12	40	59
Depo Provera (Injections)	592	487	571	565	576	494	487
Norplant	20	31	24	29	35	70	86
Condom	72	30	38	34	42	18	15
Others	16	43	34	25	37	10	47

**TABLE 3.3: NEW ACCEPTORS - Women on Family Planning Contraceptives by Year.
COOK ISLANDS 2006 - 2012**

Contraceptive Type	YEAR						
	2006	2007	2008	2009	2010	2011	2012
All Methods	267	188	211	172	214	172	187
Oral Contraceptive (Pills)	91	85	71	73	75	65	69
Intra Uterine Device	4	4	10	4	6	2	4
Depo Provera (Injections)	99	53	59	46	56	50	55
Norplant	18	10	13	9	15	8	12
Condom	41	17	29	18	29	22	26
Others	14	19	29	22	33	25	21