


COOK ISLANDS



MINISTRY OF HEALTH

TE MARAE ORA

ANNUAL STATISTICAL TABLES

		Rakahanga 	Penrhyn 
 Pukapuka  Nassau	Suvarrow 	Manihiki 	
COOK ISLANDS			
	Palmerston 	Aitutaki 	Manuae 
		Takutea 	Mitiaro 
	Rarotonga 	Atiu 	Mauke 
		Mangaia 	

HEALTH STATISTICAL TABLES
2008 - 2010

MEDICAL RECORDS UNIT
Rarotonga Hospital

It should be noted that information contained in this bulletin are provisional and subject to change.

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PREFACE

The Medical Records office continues to provide key statistical information on the health status of the Cook Islands for the years of 2008, 2009 and 2010. 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.

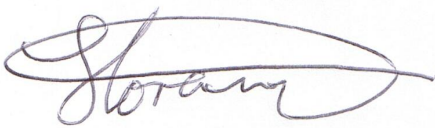
This is the results' of several years of dedication invested by all those involved, including the Outer Islands, in the compiling of once again this useful document. For the first time information contained in this report are mostly extracted from the Ministries electronic database MedTech32.

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 Hospital Health Services.



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Mr Tearoa M.C. Iorangi
MANAGER MEDICAL RECORDS

2. HEALTH FACILITIES

TABLE 2.1: Health Facilities Available by Region & Island
COOK ISLANDS 2010

REGION & ISLAND	Census Districts	Hospital Beds	Out-patient Clinics	Dental Clinics	Health Centres	Child Welfare Clinics	Private Medical Clinics	Private Dental Clinics
COOK ISLANDS	44	127	9	5	6	50	5	3
RAROTONGA	12	70	2	1	0	27	5	3
SOUTHERN GROUP	20	49	4	4	1	15	0	0
excl. Rarotonga								
Aitutaki	4	28	1	1	0	8	0	0
Mangaia	6	6	1	1	0	6	0	0
Atiu	5	9	1	0	0	1	0	0
Mauke	3	6	1	1	0	0	0	0
Mitiaro	2	0	0	1	1	0	0	0
NORTHERN GROUP	12	8	3	0	5	8	0	0
Palmerston	1	0	0	0	1	0	0	0
Pukapuka	3	4	1	0	0	3	0	0
Nassau	1	0	0	0	1	0	0	0
Manihiki	2	2	1	0	1	2	0	0
Rakahanga	3	0	0	0	1	1	0	0
Penrhyn	2	2	1	0	1	2	0	0

3. VITAL STATISTICS

**TABLE 3.1: Number and Rate of Births, Deaths, Infant Deaths, Maternal Deaths and Foetal Deaths
COOK ISLANDS 1985 - 2010**

YEAR	Live Births		Deaths		Deaths under 1 yr		Maternal Deaths		Foetal Deaths	
	Number	Crude Rate	Number	Crude Rate	Number	Rate	Number	Rate	Number	Rate
1985	433	24.3	130	7.3	13	30.0	0	0	1	2.3
1986	420	24.0	98	5.6	7	16.7	0	0	4	9.4
1987	428	24.5	116	6.5	16	37.4	0	0	2	4.7
1988	425	24.3	93	5.3	3	7.0	0	0	4	9.5
1989	453	25.9	101	5.6	12	26.4	1	2	6	13.1
1990	465	26.6	127	6.9	12	25.8	0	0	2	4.3
1991	479	25.7	140	7.5	15	31.3	0	0	7	14.4
1992	529	30.2	114	6.5	5	9.5	1	2	4	7.5
1993	507	29.3	105	6.1	6	11.8	0	0	5	9.7
1994	568	30.9	114	6.2	3	5.3	0	0	4	7.1
1995	514	27.9	115	6.3	2	4.0	1	2	2	4.0
1996	510	27.1	105	5.6	12	23.5	0	0	4	7.8
1997	412	23.5	134	7.7	14	34.0	0	0	7	17.0
1998	389	23.3	111	6.6	7	18.0	0	0	3	7.7
1999	361	23.1	96	6.2	6	16.6	0	0	4	11.1
2000	309	20.6	127	8.5	6	19.4	0	0	4	12.9
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	20.6	65	4.6	2	6.8	0	0	3	10.2
2009	280	21.2	84	6.4	2	7.1	0	0	1	3.6
2010	289	24.7	78	6.7	1	3.4	0	0	2	6.9

Note: 1 - Rate calculating for 1985 were based on 1981 census, while 1986 to 1990 were based on 1986 census and 1991 census.

2 - Rates are per 1,000 of the population.

3 - Total Birth does not include Stillbirth.

4 - Crude birth rate and crude death rate are calculated per thousand Resident population as of 1992

**TABLE 3.2: Live Births and Percentage Distribution by Region & Island and Year
COOK ISLANDS 2006 - 2010**

REGION & ISLAND	2006		2007		2008		2009		2010	
	Number	%	Number	%	Number	%	Number	%	Number	%
COOK ISLANDS	304	100.0	320	100.0	293	100.0	280	100.0	289	100.0
RAROTONGA	247	81.3	273	85.3	254	86.7	248	88.6	255	88.2
SOUTHERN GROUP excluding Rarotonga	45	14.8	32	10.0	36	12.3	27	9.6	26	9.0
Aitutaki	35	11.5	26	8.1	31	10.6	21	7.5	22	7.6
Mangaia	9	3.0	3	0.9	4	1.4	2	0.7	2	0.7
Atiu	0	0.0	3	0.9	1	0.3	4	1.4	2	0.7
Mauke	1	0.3	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	12	3.9	15	4.7	3	1.0	5	1.8	8	2.8
Palmerston	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Pukapuka/Nassau	11	3.6	13	4.1	3	1.0	5	1.8	8	2.8
Manihiki	1	0.3	1	0.3	0	0.0	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	1	0.3	0	0.0	0	0.0	0	0.0

4. BIRTH

**TABLE 4.1: 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 4.2: 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	281	1	52	71	67	46	37	7	0
RAROTONGA	249	1	41	66	59 ^a	42 ^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								
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 4.3: 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 4.4: Mothers Given Birth and Fertility Rates by Age Groupings
COOK ISLANDS 2001 - 2010**

Age Group	Female Resident Population		Number of Mothers									
	2001	2006	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
15-19	656	631	39	42	43	39	45	43	37	35	54	37
20-24	491	542	80	71	77	91	80	86	97	82	72	85
25-29	524	473	66	82	63	73	62	58	72	72	67	55
30-34	541	554	74	47	53	54	54	60	68	60	45	57
35-39	524	552	34	35	41	38	40	44	26	33	37	38
40-44	449	542	11	13	17	14	15	17	21	14	7	19
Total	3,185	3,294	304	290	294	309	296	308	321	296	282	291
Age-Specific Fertility Rate (per 1'000 Women)												
15-19			59	64	66	59	69	68	59	55	86	59
20-24			163	145	157	185	163	159	179	151	133	157
25-29			126	156	120	139	118	123	152	152	142	116
30-34			137	87	98	100	100	108	123	108	81	103
35-39			65	67	78	73	76	80	47	60	67	69
40-44			24	29	38	31	33	31	39	26	13	35
General Fertility Rate (GFR per 1'000 Women)			95	91	92	97	93	94	97	90	86	88
Total Fertility Rate			2.9	2.7	2.8	2.9	2.8	2.8	3.0	2.8	2.6	2.7

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 whose age is < 15 are included in the 15-19 age groups,
those whose age is > 44 are included in the 40-44 age groups.

Congenital malformations, deformations & chromosomal abnormalities	0	0																	
Symptoms, signs & abnormal clinical & laboratory findings, n.e.c.	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Injury, poisoning and certain other consequences of external causes	5	0	0	0	1	0	0	0	2	0	0	0	1	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
Other	3	0	0	0	1	0	0	0	1	0	0	0	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
Transport accidents	2	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
Falls	0	0	0	0	0	0	0	0	0	0	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
Intentional self-harm	2	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0
Effects of foreign body entering through natural orifice	0	0																	

**TABLE 5.2: 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	48	36	1	1	0	0	0	0	1	1	2	0	6	1	3	5	4	3	11	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
Respiratory tuberculosis	0	0																				
Septicaemia	1	1																	1	1		
Other	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															1					
Malignant neoplasm of bronchus and lung	2	0											1						1			
Malignant neoplasm of breast	1	4												1						1	1	2
Malignant neoplasm of prostate	2	0																			2	
Secondary malignant neoplasm of lung	0	1																		1		
Secondary malignant neoplasm of liver	1	1																	1	1		
Other	4	2												2	1				1		2	
Diseases of the blood and bloodforming organs	1	0																	1			
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															1		3		4	
Other	1	0											1									

Accidental drowning and submersion	0	0									
Accidental poisoning by and exposure to noxious substances	0	0									
Intentional self-harm	1	1				1	1				

7. MALIGNANT NEOPLASM

**TABLE 7.1: Prevalence of cancer cases registered by year and gender
COOK ISLANDS 1993 - 2010**

Year	SEX		Both
	Male	Female	
1993	6	11	17
1994	6	8	14
1995	11	9	20
1996	7	6	13
1997	13	6	19
1998	6	7	13
1999	8	8	16
2000	12	19	31
2001	11	15	26
2002	10	7	17
2003	18	5	23
2004	11	8	19
2005	7	8	15
2006	7	11	18
2007	11	14	25
2008	11	10	21
2009	3	7	10
2010	1	11	12
Total	229	270	499

8. NON COMMUNICABLE DISEASE

**TABLE 8.1: Prevalence of NCD Cases Registered by Year.
COOK ISLANDS 1980 - 2010**

		(1) Total Resident Population Estimate	Hypertension		Diabetes		Hypertension & Diabetes		TOTAL	%
			Hypertension	%	Diabetes	%	& Diabetes	%		
2001	COOK ISLANDS	14,000	1,598	11.4	377	2.7	331	2.4	2,306	16.5
	Rarotonga		1,061		223		143		1,427	
	Outer Islands		537		154		188		879	
2002	COOK ISLANDS	14,800	1,651	11.2	417	2.8	351	2.4	2,419	16.3
	Rarotonga		1,076		234		155		1,465	
	Outer Islands		575		183		196		954	
2003	COOK ISLANDS	13,900	1,745	12.6	469	3.4	399	2.9	2,613	18.8
	Rarotonga		1,151		269		190		1,610	
	Outer Islands		594		200		209		1,003	
2004	COOK ISLANDS	13,500	1,811	13.4	509	3.8	423	3.1	2,743	20.3
	Rarotonga		1,188		287		207		1,682	
	Outer Islands		623		222		216		1,061	
2005	COOK ISLANDS	13,700	1,900	13.9	547	4.0	454	3.3	2,901	21.2
	Rarotonga		1,220		299		214		1,733	
	Outer Islands		680		248		240		1,168	
2006	COOK ISLANDS	14,800	1,930	13.0	568	3.8	471	3.2	2,969	20.1
	Rarotonga		1,244		310		226		1,780	
	Outer Islands		686		258		245		1,189	
2007	COOK ISLANDS	14,700	1,985	13.5	590	4.0	497	3.4	3,072	20.9
	Rarotonga		1,286		328		247		1,861	
	Outer Islands		699		262		250		1,211	
2008	COOK ISLANDS	14,200	2,063	14.5	635	4.5	522	3.7	3,220	22.7
	Rarotonga		1,340		360		260		1,960	
	Outer Islands		723		275		262		1,260	
2009	COOK ISLANDS	13,200	2,172	16.5	704	5.3	546	4.1	3,422	25.9
	Rarotonga		1,407		403		276		2,086	
	Outer Islands		765		301		270		1,336	
2010	COOK ISLANDS	11,700	2,281	19.5	773	6.6	570	4.9	3,624	31.0
	Rarotonga		1,474		446		292		2,212	
	Outer Islands		807		327		278		1,412	

**TABLE 8.2: Incidence of NCD Cases Registered by Year.
COOK ISLANDS 2001 - 2010**

		(1) Total Resident Population Estimate	Hypertension							
			Hypertension	%	Diabetes	%	& Diabetes	%	TOTAL	%
2001	COOK ISLANDS	14,000	38	0.3	22	0.2	15	0.1	75	0.5
	Rarotonga		24		7		8		39	
	Outer Islands		14		15		7		36	
2002	COOK ISLANDS	14,800	53	0.4	40	0.3	20	0.1	113	0.8
	Rarotonga		15		11		12		38	
	Outer Islands		38		29		8		75	
2003	COOK ISLANDS	13,900	94	0.7	52	0.4	35	0.3	181	1.3
	Rarotonga		75		35		22		132	
	Outer Islands		19		17		13		49	
2004	COOK ISLANDS	13,500	66	0.5	40	0.3	24	0.2	130	1.0
	Rarotonga		37		18		17		72	
	Outer Islands		29		22		7		58	
2005	COOK ISLANDS	13,700	89	0.6	38	0.3	31	0.2	158	1.2
	Rarotonga		32		12		7		51	
	Outer Islands		57		26		24		107	
2006	COOK ISLANDS	14,800	30	0.2	21	0.1	17	0.1	68	0.5
	Rarotonga		24		11		12		47	
	Outer Islands		6		10		5		21	
2007	COOK ISLANDS	14,700	55	0.4	22	0.1	26	0.2	103	0.7
	Rarotonga		42		18		21		81	
	Outer Islands		13		4		5		22	
2008	COOK ISLANDS	14,200	78	0.5	45	0.3	25	0.2	148	1.0
	Rarotonga		54		32		13		99	
	Outer Islands		24		13		12		49	
2009	COOK ISLANDS	13,200	96	0.7	67	0.5	24	0.2	187	1.4
	Rarotonga		75		43		13		131	
	Outer Islands		21		24		11		56	
2010	COOK ISLANDS	11,700	109	0.9	69	0.6	24	0.2	202	1.7
	Rarotonga		67		43		16		126	
	Outer Islands		42		26		8		76	

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

9. CIQUATERA POISONING (Fish Poisoning)

**TABLE 9.1: Fish Poisoning (Ciguatera) cases seen and reported by Month
COOK ISLANDS**

Year	MONTH												TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1991	4	6	3	7	16	16	17	4	4	9	5	7	98
1992	19	15	5	8	6	5	4	27	26	15	13	5	148
1993	4	1	6	6	8	3	2	9	4	7	2	3	55
1994	13	16	7	7	7	10	14	20	11	64	36	11	216
1995	51	63	52	31	28	16	32	34	23	35	39	16	420
1996	45	48	37	29	30	29	19	17	16	15	16	4	305
1997	18	21	28	6	5	2	13	13	4	12	10	3	135
1998	11	38	34	19	27	10	6	14	13	19	10	14	215
1999	14	29	11	16	12	6	12	13	14	12	13	4	156
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

**TABLE 9.2: Ciguatera (Fish Poisoning) cases by year and Gender
COOK ISLANDS 1995 - 2010**

Year	Total Cases Seen	Patients Admitted in Rarotonga Hospital		
		Male	Female	Total
1995	281	14	15	29
1996	304	25	14	39
1997	161	27	20	47
1998	215	23	34	57
1999	209	35	18	53
2000	162	18	6	24
2001	173	21	19	40
2002	169	24	16	40
2003	227	23	17	40
2004	469	33	15	48
2005	421	39	24	63
2006	258	28	15	43
2007	245	20	17	37
2008	223	15	20	35
2009	129	22	13	35
2010	78	23	9	32
Total	4,143	422	294	716

10. DENGUE FEVER

**TABLE 10.1: Dengue fever cases by Island and year of occurrence
COOK ISLANDS**

	Years of Occurance												
	1991	1995	1996	1997	2001	2002	2003	2004	2006	2007	2008	2009	2010
COOK ISLANDS	1,451	779	2	1,652	21	2,256	1	4	468	1,224	91	1335	1
RAROTONGA	641	583	2	1,075	21	2,059	1	4	389	1,158	89	1335	1
SOUTHERN GROUP	608	17	0	59	0	72	0	0	78	63	2	0	0
excl. Rarotonga													
Aitutaki	462	3	0	20	0	65	0	0	73	25	0	0	0
Mangaia	97	2	0	9	0	0	0	0	3	11	2	0	0
Atiu	0	0	0	3	0	3	0	0	0	0	0	0	0
Mauke	49	12	0	27	0	3	0	0	1	2	0	0	0
Mitiaro	0	0	0	0	0	1	0	0	1	25	0	0	0
NORTHERN GROUP	202	179	0	518	0	125	0	0	1	3	0	0	0
Palmerston	0	0	0	0	0	0	0	0	0	0	0	0	0
Pukapuka/Nassau	0	177	0	2	0	5	0	0	0	0	0	0	0
Manihiki	103	0	0	29	0	39	0	0	1	0	0	0	0
Rakahanga	99	0	0	0	0	23	0	0	0	0	0	0	0
Penrhyn	0	2	0	487	0	58	0	0	0	3	0	0	0

**TABLE 10.2: Reported Dengue fever cases by month
RAROTONGA**

Month	1997	2002	2006	2007	2008	2009
January	26	55	0	232	17	1
February	181	671	0	369	6	4
March	322	619	0	251	7	8
April	429	436	0	55	7	611
May	115	168	1	32	12	613
June	2	67	1	10	7	86
July	0	21	3	7	2	8
August	0	18	0	2	28	2
September	0	4	6	18	0	0
October	0	0	187	111	0	1
November	0	0	114	51	2	1
December	0	0	77	20	1	0
Total	1,075	2,059	389	1,158	89	1,335

11. MOTOR VEHICLE TRANSPORT ACCIDENTS

TABLE 11.1: Patients Admitted due to Transport Accidents.

RAROTONGA 2000 - 2010

Type of Accident	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Transport Accidents	81	138	189	128	91	104	108	86	50	52	46
Alcohol Related Accidents	20	41	42	39	35	37	54	42	32	30	26
Percentage Alcohol Related	24.7	29.7	22.2	30.5	38.5	35.6	50.0	48.8	64.0	57.7	56.5
Alcohol Related Deaths	1	2	2	1	3	1	1	3	4	2	2
Non Alcohol Related Deaths	0	0	0	2	2	2	1	2	0	0	0

TABLE 11.2: Cases of Alcohol Related Transport Accidents by age groupings and year

RAROTONGA 2000 - 2010

Age Group	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
0 – 14	0	1	1	0	0	0	0	1	1	0	2
15 – 24	12	16	28	17	17	19	29	21	19	15	12
25 – 34	6	12	4	13	10	7	10	12	5	7	5
35 – 44	2	9	6	5	6	4	9	5	3	6	5
45 – 54	0	2	3	3	2	6	6	2	3	1	1
55 +	0	1	0	1	0	1	0	1	1	1	1
Total	20	41	42	39	35	37	54	42	32	30	26

TABLE 11.3: Transport Accidents by Sub Category.

RAROTONGA 2002 - 2010

ICD10	Sub Category	2002	2003	2004	2005	2006	2007	2008	2009	2010
V01-V09	Pedestrian injured in transport accident	6	1	0	2	4	2	0	1	1
V10-V19	Pedal cyclist injured in transport accident	0	0	1	1	0	0	0	0	0

V20-V29	Motorcycle rider injured in transport accident	148	104	77	95	95	74	44	41	41
V30-V39	Occupant of three-wheeled motor vehicle injured in transport accident									
V40-V49	Car occupant injured in transport accident	4	1	0	0	1	0	3	5	0
V50-V59	Occupant of pick-up truck or van injured in transport accident	4	0	3	0	0	0	3	5	3
V60-V69	Occupant of heavy transport vehicle injured in transport accident	0	0	0	0	0	0	0	0	1
V70-V79	Bus occupant injured in transport accident									0
V80-V89	Other land transport accidents	25	22	7	5	6	2	0	0	0
V90-V94	Water transport accidents	1	0	3	1	2	0	0	0	0
V95-V99	Other and unspecified transport accidents	1	0	0	0	0	1	0	0	0

12. PATIENT REFERRALS

Table 12.1 Patients referral indices

Period	Overseas	Patients referred to Rarotonga hospital										
		TOTAL	Aitutaki	Mangaia	Atiu	Mauke	Mitiaro	Palmerston	Pukapuka /Nassau	Manihiki	Rakahanga	Penrhyn
YEAR												
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	143	106	28	19	8	10	15	3	12	9	0	2
2008	165	165	57	37	13	5	6	1	21	7	0	18
2009	137	213	69	33	30	20	11	3	26	12	0	9
2010	119	194	70	39	22	15	17	2	13	4	2	10

13. FAMILY PLANNING

**TABLE 13.1: CURRENT USERS - Women on Family Planning Contraceptives by Year.
COOK ISLANDS 1999 - 2010**

Contraceptive Type	YEAR											
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
All Methods	1,359	1,291	1,331	1,389	1,301	1,345	1,270	1,271	1,289	1,263	1,237	1,290
Oral Contraceptive (Pills)	578	550	614	591	614	682	573	562	681	581	575	588
Intra Uterine Device	21	28	16	20	11	8	3	9	17	15	9	12
Depo Provera (Injections)	598	509	599	621	616	608	640	592	487	571	565	576
Norplant	45	30	22	34	13	12	12	20	31	24	29	35
Condom		45	43	34	20	14	21	72	30	38	34	42
Others	117	129	37	89	27	21	21	16	43	34	25	37

**TABLE 13.2: NEW ACCEPTORS - Women on Family Planning Contraceptives by Year.
COOK ISLANDS 1999 - 2010**

Contraceptive Type	YEAR											
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
All Methods	223	219	171	223	163	188	198	267	188	211	172	214
Oral Contraceptive (Pills)	69	67	51	69	56	75	79	91	85	71	73	75
Intra Uterine Device	7	8	9	7	5	2	0	4	4	10	4	6
Depo Provera (Injections)	84	86	65	77	51	63	86	99	53	59	46	56
Norplant	11	15	7	18	12	6	11	18	10	13	9	15
Condom		6	10	24	12	4	8	41	17	29	18	29
Others	52	37	29	28	27	38	14	14	19	29	22	33

**TABLE 13.3: CURRENT USERS - Women on Family Planning Contraceptives by Year.
RAROTONGA 1999 - 2010**

Contraceptive Type	YEAR											
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
All Methods	928	910	1,085	1,005	1,071	1,087	1,050	1,023	1,085	1,079	1,076	1,093
Oral Contraceptive (Pills)	448	471	552	478	514	579	504	481	600	510	515	522
Intra Uterine Device	12	4	16	11	5	2	1	3	10	10	6	9

Depo Provera (Injections)	412	380	464	442	492	465	500	455	390	484	494	486
Norplant	16	15	12	15	13	6	11	14	20	12	10	11
Condom	7	10	12	29	20	14	13	58	25	35	29	32
Others	33	30	29	30	27	21	21	12	40	28	22	33

**TABLE 13.4: NEW ACCEPTORS - Women on Family Planning Contraceptives by Year.
RAROTONGA 1999 - 2010**

Contraceptive Type	YEAR											
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
All Methods	132	117	116	163	119	102	98	167	136	184	150	157
Oral Contraceptive (Pills)	40	35	39	52	42	35	38	60	68	66	62	61
Intra Uterine Device	5	3	7	7	4	2	0	3	4	10	4	4
Depo Provera (Injections)	39	31	30	5	24	19	35	40	34	48	40	32
Norplant	11	13	7	13	12	6	11	14	4	12	4	7
Condom	4	5	4	18	10	3	0	38	8	20	18	25
Others	33	30	29	28	27	37	14	12	18	28	22	28