

1. ORGANISATIONAL OBJECTIVES AND FUNCTIONS

The Ministry of Health is responsible for the delivery of preventive and curative health services in the country.

1.2 STRATEGIC DIRECTIONS

The Ministry's **VISION** is **"MAKING A DIFFERENCE"** and **CORE PURPOSE** is,

To respond effectively to the health needs of the Tongan people by providing the appropriate range and level of high quality health services and being accountable for the outcomes of these services.

The Ministry's **CORE VALUES** are,

- Commitment to quality care
- Professionalism and accountability
- Care and compassion
- Commitment to education and training

The Ministry's **DARING GOAL** is,

To be the healthiest nation in the Pacific Rim as judged by international standards and determinants.

1.3 STRATEGIC GOALS

1.3.1 Health Communities and Populations through Improved Services

- Prevent or delay the onset of cardiovascular disease and diabetes, and to reduce complications and improve the quality of life through health promotion and improved management
- Improve mental health services by improving the management of chronic psychiatric patients in the community and decrease the number of re-admissions
- Decrease motor vehicle injuries and emergencies in Tonga and improve the services available to manage them
- Improve the health of the Tongan people by ensuring equitable access to, and rational use of, safe and effective drugs of good quality
- Reduce the incidence of dental decay in Tonga
- Clearly identify existing cancer cases and increase the early detection of cancer in Tonga
- Extend and develop general and specialised health promotion services
- Develop strategies to prevent substance abuse
- Support child and adolescent health and development
- Combat communicable diseases with a focus on the areas of HIV/AIDs, TB, Filariasis
- Develop community health services by gaining community support for the health centres and developing a team approach
- Support services development in the Island hospitals
- Develop clinical services through improved clinical care and staffing

1.3.2 Health Sector Development

- Significantly improve the efficiency and effectiveness of management systems and processes
- Provide the Tonga health system with an efficient and effective financial management system

- Provide the Tongan health system with improved facilities and equipment and to maintain these well
- Strengthen informed decision making within the Ministry of Health through the provision of appropriate information management

1.3.3 Staff Training and Development

- Improve and strengthen workforce management and development
- Continue to organise formal education, and in service training programs for staff
- Prioritise training needs
- Develop workforce planning processes

1.3.4 Service Partnerships

- Work with NGOs, community, other Government departments and donor organisations to implement these priorities

1.4 PROGRAMME OBJECTIVES

Operationally the Ministry mirrors the budget structure to facilitate programme evaluation and consists of four programmes,

1. Leadership, policy advice and programme administration
2. Preventive health services
3. Curative health services
4. Dental health services

1.4.1 Programme 1: Leadership, policy advice and programme administration

Programme Objective and Mission Statement

To provide quality and effective support services to the Ministry and all health districts with regard to strategic and operational planning, workforce planning, administration, human resources management, financial management, transport and communication services.

1.4.2 Programme 2: Preventative health services

Programme Objective and Mission Statement

To help all people in Tonga to achieve the highest attainable level of health as defined by WHO's constitution as "a state of complete physical, mental and social well-being and not merely the absence of infirmity"; by:

- *significantly reducing morbidity and mortality due to infectious diseases*
- *providing environmental health services which result in a healthier community due to improved regulation, monitoring and health promotion activities*
- *assisting all health providers in the promotion of health through their respective areas of care and to empower the public at large in looking after their own health by promoting healthy lifestyles*
- *providing effective services to the health of mothers, children and others through a reproductive health strategic approach extending community health services to the people who need our services most in the community*

1.4.3 Programme 3: Curative health services

Programme Objective and Mission Statement:

To be able to provide the best possible care for patients, to prioritise areas that need change and to use the available resources in the most appropriate and effective way

1.4.4 Programme 4: Dental services

Programme Objective and Mission Statement

To respond effectively to the oral health needs of the people of Tonga by providing preventive and curative oral health programmes, information and services and be responsible for its outcomes.

In implementing its services and activities the Ministry is governed by the following Acts:

- Public Health Act 1992
- Mental Health Act 1992
- Health Practitioners Registration Act 1991
- Health Services Act 1991
- Garbage Act 1945
- Tobacco Act 2001

The following draft legislation were approved by the Legislative Assembly during the year and await His Majesty's consent.

- Health Practitioners Review Bill
- Medical and Dental Bill
- Nurses Bill
- Pharmacy Bill
- Mental Health Bill
- Therapeutic Goods Bill
- Drugs and Poisons (Amendment) Bill

2. HEALTH ADMINISTRATION AND MANAGEMENT

In delivering its services to the public, the Ministry is divided into six functional divisions,

- Administration
- Health Planning and Information
- Public Health
- Medical
- Nursing
- Dental

Divisional heads are responsible to the Director of Health for the implementation of each Division's activities.

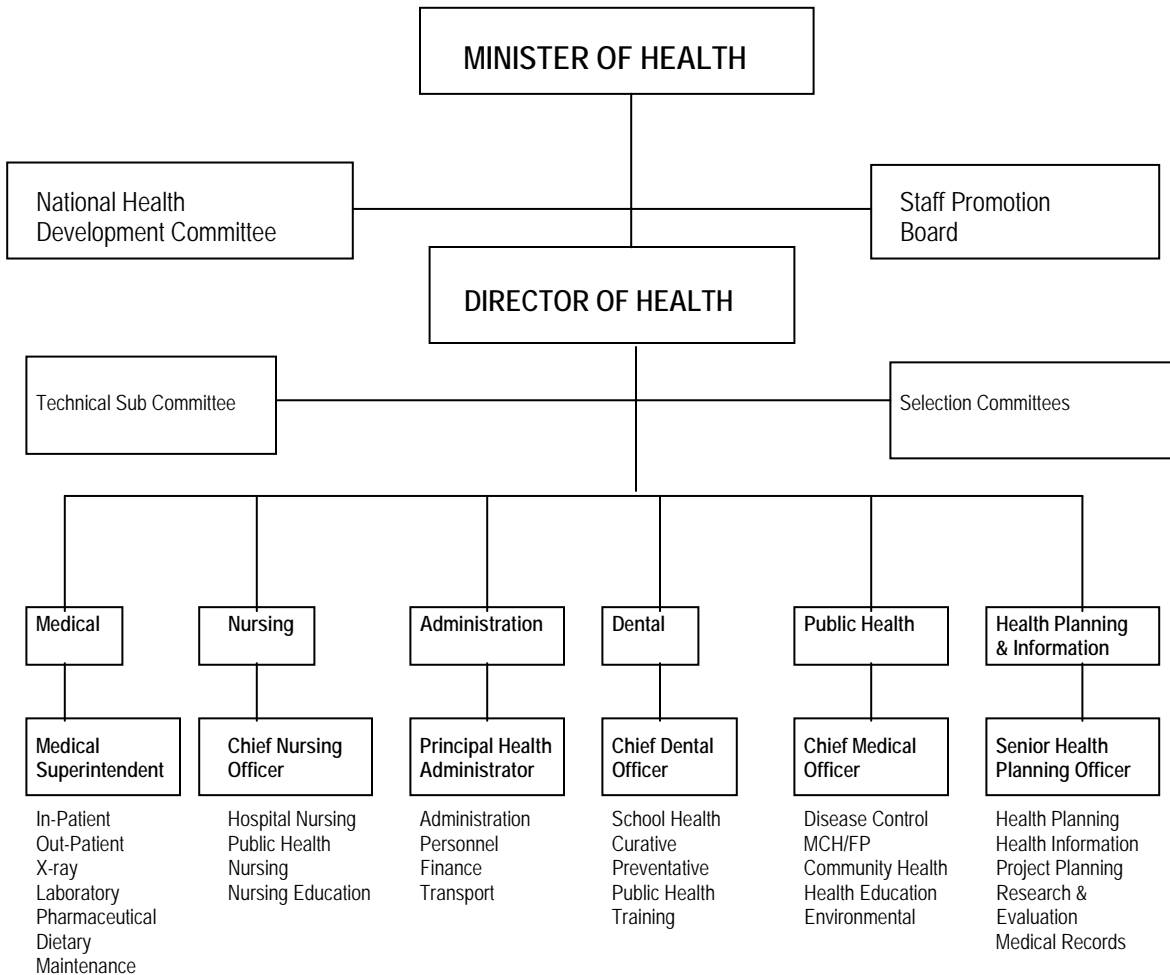
2.1 As of 31 December 2001 the following officers were responsible for the administration and management of the Ministry and its respective Divisions.

2.2 Ministerial Head

Dr. Viliami Tau Tangi
Hon. Minister of Health

2.3	Departmental Head	Dr. Litili 'Ofanoa Director of Health
2.4	Divisional Heads	
	Public Health	Dr. Malakai 'Ake Chief Medical Officer, PH
	Medical	Dr. Taniela Palu Medical Superintendent
	Nursing	Ms. Kafo'atu Luani Chief Nursing Officer
	Dental	Dr. Viliami Sikalu Latu Chief Dental Officer
	Administration	Mr. Tuakoi 'Aho Principal Health Administrator
	Health Planning and Information	Mr. Taniela Sunia Soakai Senior Health Planning Officer

MINISTRY OF HEALTH ORGANIZATION STRUCTURE



2.5 DISTRICT HOSPITALS

As of 31 December 2001 the following officers were responsible for the management of the outer island health districts.

Prince Ngu Hospital,
Vava'u Health District

Dr. Saia Piukala
Acting Chief Medical Officer

Niu'ui Hospital,
Ha'apai Health District

Dr. Reynold 'Ofanoa
Acting Chief Medical Officer

Niu'eiki Hospital,
'Eua Health District

Dr. Sengili Moala
Chief Medical Officer

3. OVERVIEW OF HEALTH INDICATORS

The health situation for Tonga in the last three years is reflected in the following table.

Health Indicators for Tonga, 1999 – 2001

	Indicator	1999	2000	2001
1.	Estimated population ('000)	99.8	100.3	100.7
2.	Annual population growth	0.3	0.3	0.3
3.	Percentage of population less than 14 years	39	39	39
	Percentage of population 65 years and over	5.2	5.2	5.2
4.	Percentage of urban population	36	36	36
5.	Rate of natural increase	17.5	17.9	25.8
6.	Crude Birth Rate	24.1	24.3	26.3
7.	Crude Death Rate	6.6	6.5	5.6
8.	Maternal Mortality Rate (per 100,000)	4.1	2.1	0
9.	Life Expectancy at Birth (combined)			
	Life Expectancy (Male)	70	70	70
	Life Expectancy (Female)	71	71	71
10.	Infant Mortality Rate	14.4	13.1	13.9
11.	Perinatal Mortality Rate (per 1,000 live births)	17.2	16.9	18.5
12.	Total health expenditure ('000)	7954	6844	9545
	Per capita	79	68	95
	As a percentage of total recurrent budget	11.6	8	11
13.	Health Workforce			
	Medical Officers at post	NA	33	35
	Health Officers	30	28	26
	Nursing and Midwifery	332	325	322
14.	Percentage of population with safe water supply	NA	96.2	97
15.	Percentage of household with adequate sanitary facilities	86	93.7	94
16.	Immunisation coverage	93.8	95.2	93.4
17.	Percentage of pregnant women immunised with tetanus toxoid	93.8	94.1	81.1
18.	Percentage of infants attended by trained personnel	93.8	95.2	95.3
19.	Percentage of married couples practicing contraception	32.8	33.9	33.6
20.	Percentage of pregnant women attending ante natal care	98.2	98	98.5
21.	Percentage of deliveries conducted by trained personnel	95.5	92.1	95.3
22.	Total Fertility Rate	3.1	3.3	3.4

NA = Not Available

3.1 Life Expectancy

The projected life expectancy at birth in 2001 for females is 71 and 70 for males.

3.2 Projected Population

The results of the 1996 population census indicate the country's population was 97,784 and the projected population for Tonga for 2001 is 100,673, increasing to 102,907 by 2006.

3.3 Morbidity

The five leading cause of morbidity during the year (Table 31) were,

Medical Condition	No. of Cases	% of Total Noticeable Diseases
Acute respiratory infection	25,717	49 %
Influenza	21,622	41 %
Broncho Pneumonia	1,975	4 %

Diarrhoea (Adult)	1,459	3 %
Diarrhoea (infant)	1,452	3 %
Total for 5 leading causes of Morbidity	52,225	99 %
Total Notifiable Diseases	52,743	100 %

3.4 Mortality

A total of 569 deaths were reported during the year. The five leading causes of death reflect the shifting patterns of mortality in the country from communicable to non-communicable diseases. The leading causes of mortality in 2001 (Table 9 and 30) were;

Medical Condition	No. of Cases	% of Deaths
Disease of circulatory system	170	30 %
Neoplasm	68	12 %
Symptoms, sign and abnormal clinical and laboratory findings not elsewhere specified	40	7 %
Disease of respiratory system	34	6 %
Disease of digestive system	28	5 %
Total for 5 leading causes of Mortality	340	60 %
Total No. of Deaths	569	100%

4. HEALTH RESOURCES

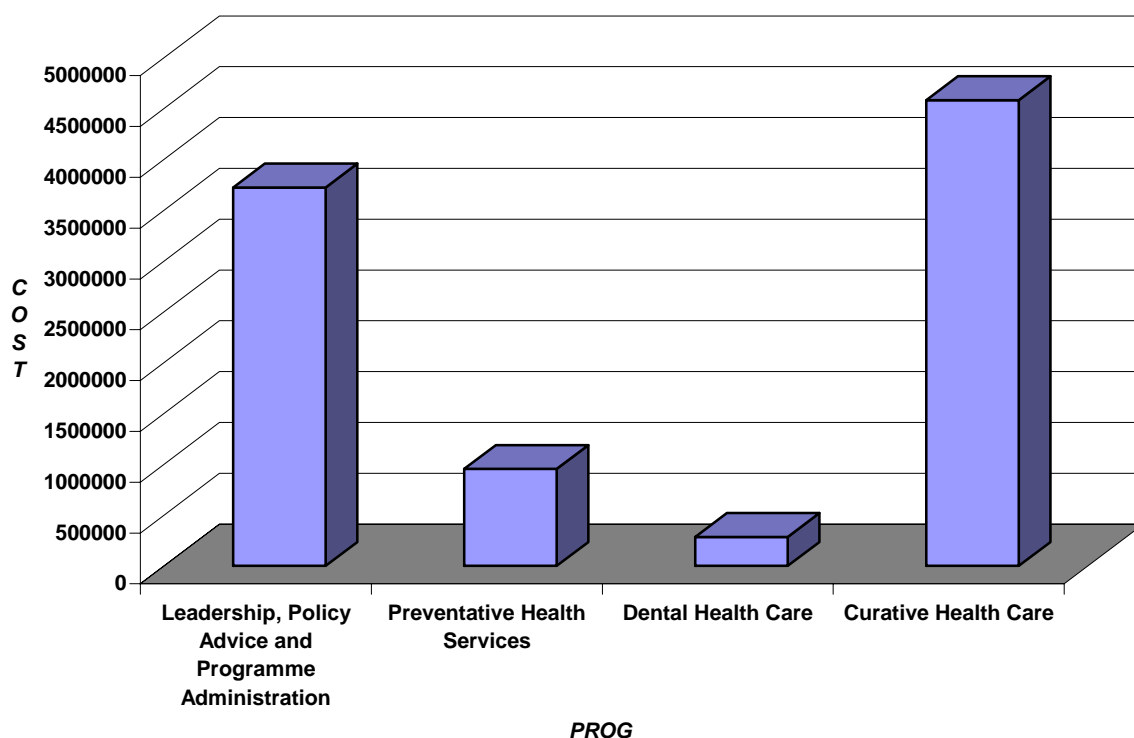
In proposing to Government the annual budget for the Ministry reports under four programme areas,

- Leadership, policy advice and programme administration
- Preventative health services
- Curative health services
- Dental services

4.1 Financial Resources

The total recurrent allocation for the Ministry for the 2001-02 financial year was \$ 9,544,818.00 with an estimated expenditure per head of \$ 95.00. The allocation to health represents 11 percent of government's total budget. Budget details can be found in Tables 2 and 3.

MINISTRY OF HEALTH ESTIMATES 2001/2002



4.2 Human Resources for Health

As of 31 December 2001 the Ministry's staff establishment consists of 938 established posts of which 774 were filled and 164 are vacant.

The Ministry continues to place priority in the development of its various cadres of health personnel, through in-service, local training, overseas attachments and formal programmes at both undergraduate and postgraduate levels.

The Queen Salote School of Nursing continued its production of nurses, through the three-year Basic Nursing training programme. A major development within the School was the approval by government of the upgrading of the nursing programme from Certificate to Diploma level. Affiliation has further been established with the Faculty of Nursing, Auckland University of Technology. The Diploma of Nursing programme is scheduled to commence in January 2002.

The Ministry conducted various local workshops and trainings as part of its ongoing staff development initiative. The Ministry participates in local training under the auspicious of the Civil Service Training and Community Development Training Centres. Medical and dental undergraduates continue to be trained overseas.

4.3 Staff Promotions

In acknowledging academic achievements and outstanding performance the following staff members of the Ministry were promoted during the year.

	Names	Current Post	Promoted To	Effective Date	Cabinet Decision
1	Fele'unga Vaka'uta	Laboratory Technician Grade II	Laboratory Technician Grade I	31/01/01	45 of 31/1/01
2	Malakai 'Ake	Senior Medical Officer	Chief Medical Officer	31/01/01	46 of 31/1/01
3	Toakase Fakakovi	Medical Officer	Medical Officer Special Grade	13/11/00	293 of 28/2/01
4	Meliame Tupou	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
5	Taina Palaki	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
6	Fakamalinga Ve'a	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
7	Mafi 'Ealelei	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
8	Tu'utanga Tovo	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
9	Milei Katoa	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
10	Pasifiki Tu'aefe	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
11	Paea Fifita	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
12	Leaola Tuiaki	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
13	'Onita Tupou	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
14	Satua Pongi	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
15	'Emeline Takai	Staff Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
16	Mohulamu Lavemai	Senior Public Health Nurse	Nurse Midwife	01/12/01	346 of 7/3/01
17	'Etina Fonua Uele	Assistant Pharmacist Trainee	Assistant Pharmacist Grade II	20/04/99	500 of 28/3/01
18	Manase Tongia	Assistant Pharmacist Trainee	Assistant Pharmacist Grade II	20/04/99	500 of 28/3/01
19	Sione Tu'iniua	Assistant Pharmacist Trainee	Assistant Pharmacist Grade II	20/04/99	500 of 28/3/01
20	Catherine Tu'ilape	Assistant Pharmacist Trainee	Assistant Pharmacist Grade II	03/02/98	500 of 28/3/01
21	Ma'u Tu'ineau	Assistant Pharmacist Trainee	Assistant Pharmacist Grade II	03/02/98	500 of 28/3/01
22	Losaline Titiuit	Assistant Pharmacist Trainee	Assistant Pharmacist Grade II	03/02/98	500 of 28/3/01
23	Meleseini Faletau	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
24	Fifita Fa'onevai	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
25	Hulita Fihaki	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
26	Lesila Filise	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
27	Malia Kautai	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
28	Melesia Kaho	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
29	Mele Lo'amanu	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
30	Kulia Puniani	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
31	Mele Toutai	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
32	Seini Toumo'ua	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
33	Mele Tu'itupou	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
34	'Ainise 'Ofanoa	Student Nurse	Staff Nurse	04/03/01	992 of 19/6/01
35	Kilivilina 'Akau'ola	Health Statistics Clerk Grade II	Computer Assistant	01/07/01	993 of 19/6/01
36	Sione Veilofia	Health Statistics Clerk Grade III	Computer Assistant	01/07/01	993 of 19/6/01
37	Sione Talilotu To'ia	Health Officer	Senior Health Officer	01/07/01	994 of 19/6/01
38	Valoa Fifita	Assistant Matron	Matron	03/08/01	1267 of 3/8/01
39	Monika Ketu'u	Senior Medical Recorder	Medical Records Officer	03/08/01	1266 of 3/8/01
40	'Ana Leha'uli	Medical Recorder	Senior Medical Recorder	03/08/01	993 of 19/6/01
41	Mioko Latu Veilofia	Junior Medical Recorder	Medical Recorder	03/08/01	993 of 19/6/01
42	Silivia Teulilo	Clerk Typist Grade III	Computer Assistant	01/07/01	1302 of 7/8/01
43	Lisita Hafoka	Clerk Typist Grade III	Computer Assistant	01/07/01	1302 of 7/8/01
44	Vaimoana P Mafi	Clerk Typist Grade III	Computer Assistant	01/07/01	1302 of 7/8/01
45	Nenase Latu	Dental Chairside Assistant	Dental Therapist	01/07/01	1301 of 7/8/01
46	Lu'isa Tangitau	Dental Chairside Assistant	Dental Therapist	01/07/01	1301 of 7/8/01
47	Meleseini Veituna	Dental Chairside Assistant	Dental Therapist	01/07/01	1301 of 7/8/01
48	Talaifina 'Otani	Dental Chairside Assistant	Dental Therapist	01/07/01	1301 of 7/8/01
49	Nasinu Vaka	Dental Chairside Assistant	Dental Therapist	01/07/01	1301 of 7/8/01
50	Litili 'Ofanoa	Chief Medical Officer	Director of Health	06/09/01	1569 of 6/9/01
51	Mele'ana Ta'ai	Clinical Nurse Tutor	Clinical Nurse Tutor Graduate	01/07/01	1628 of 18/9/01

4.4 Staff Retirement

The Ministry acknowledges the dedicated service provided by the following officers who retired from the service during the year.

	Name	Post	Effective Date	Cabinet Decision
1	Motulalo Taufa	Domestic Supervisor	30/06/01	439 of 2/3/01
2	Sisilia Piukala	Housekeeper	05/06/01	497 of 28/3/01
3	Pofaiva Tongo	Chief Cook	14/05/01	637 of 18/4/01
4	Meleman Penisoni	Nursing Sister	18/09/01	757 of 16/5/01
5	Tevunga Mo'unga	Male Orderly	01/08/01	939 of 14/6/01
6	'Ana Toutui	Laundrymaid	17/05/01	940 of 14/6/01
7	Samiuela Fonua	Chief Medical Officer	18/06/01	997 of 19/6/01
8	Tom Tongotea	Male Orderly	01/12/01	998 of 19/6/01
9	Losalio Pepa	Wardsmaid	30/30/01	999 of 19/6/01
10	'Alifeleti Latu	Groundskeeper	29/03/01	1048 of 27/6/01
11	Pasepa Tupou	Nursing Sister	31/12/01	1633 of 18/9/01
12	Mele Tu'itupou	Senior Nurse Midwife	17/12/01	1634 of 18/9/01
13	Laumeesi Malolo	Director of Health	16/05/01	391 of 17/3/01
14	Lanola Teu	Public Health Sister	01/12/01	1723 of 2/10/01
15	Tevita Moala	Senior Dental Therapist	01/12/01	1897 of 30/10/01

4.5 Staff Appointment

Through its ongoing staff development, training and services requirements the following officers were appointed to the Ministry during the year.

	Name	Post	Effective Date	Cabinet Decision
1	Tony Kerr	Senior Sterile Supply Supervisor	01/01/01	47 of 31/01/01
2	Samiu Kaulave	Sanitation Officer	31/01/01	55 of 31/01/01
3	Jacinta Zita Tonga	Nursing Sister	31/01/01	54 of 31/01/01
4	Kolini Vaea	Medical Officer	08/01/01	108 of 07/02/01
5	Siaki 'Ela Fakauka	Medical Officer	02/01/01	108 of 07/02/01
6	Veisia Matoto	Medical Officer	22/01/01	293 of 28/02/01
7	Lisiate 'Ulufonua	Medical Officer	03/01/01	108 of 07/02/01
8	Telesia Talia'uli	Medical Scientist	12/02/01	349 of 07/03/01
9	Valeliano Vaha'i	Driver	01/07/01	1045 of 27/06/01
10	'Aisea Vaipulu	Sanitation Assistant	01/07/01	1045 of 27/06/01
11	Sione Vailahi	Sanitation Officer	01/07/01	1045 of 27/06/01
12	Langafonua Tapa'atoutai	Sanitation Officer	01/07/01	1045 of 27/06/01
13	Selu Sefesi	Public Facility Attendant	01/07/01	1045 of 27/06/01
14	Viliami Tavalea	Public Facility Attendant	01/07/01	1045 of 27/06/01
15	Malakai Lolo	Public Facility Attendant	01/07/01	1045 of 27/06/01
16	Mosese Fifita	Water Maintenance Officer	01/07/01	1045 of 27/06/01
17	Siliva Lavulo	Water Maintenance Officer	01/07/01	1045 of 27/06/01
18	Toutai Hala'eua	Security Officer	01/07/01	1045 of 27/06/01
19	Sione T Le'ovaka	Security Officer	01/07/01	1045 of 27/06/01
20	Hifo Tapa'atoutai	Kitchen Hand	01/07/01	1045 of 27/06/01
21	Sau Lafitani	Handyman	01/07/01	1045 of 27/06/01

5. INTERNATIONAL COLLABORATION

5.1 The Minister of Health, Hon. Dr. Viliami Tau Tangi attended the following international meetings and conferences during the year,

- Meeting of Ministers of Health for the Pacific Island Countries, 14-15 March, Madang, Papua New Guinea
- Annual Scientific Congress of the Royal Australian College of Surgeons, 6-11 May, Canberra, Australia
- Pre World Health Assembly Meeting of Commonwealth Health Ministers, 13 May, Geneva, Switzerland
- Fifty Fourth World Health Assembly, 14-22 May, Geneva, Switzerland
- United Nations General Assembly Special Session on HIV/AIDS, New York, United States, 25-27 June

- Fifty Second Session of the World Health Organisation Regional Committee Meeting for the Western Pacific, 10-14 September, Brunei Darussalam,
- Telehealth Conference for the Western Pacific Region, 14-16 September, Brunei Darussalam
- Regional Ministerial Meeting on HIV/AIDS and Development, 9-10 October, Melbourne, Australia
- Commonwealth Health Ministers Meeting, 25-29 November, Christchurch, New Zealand

5.2 The Director of Health, Dr. Litili 'Ofanoa attended the following international and regional meetings;

- Filariasis Mass Drug Administration Workshop, 24-28 September, Suva, Fiji
- Workshop on Drinking Water Quality Surveillance and Safety, 29 October to 01 November, Nadi, Fiji

5.3 The Ministry throughout the year continued its collaboration with various international organisations in the following areas;

- The 2000-01 (Biennium) WHO Detailed Programme Budget for Tonga.
- The 1998-2001 Strengthening of Reproductive Health, Family Planning and Sexual Health Programme funded by UNFPA.
- The Medical Treatment Scheme under the New Zealand governments Bilateral Aid Programme with Tonga.
- Twinning Programme with St. John of God Hospital, Ballarat, Victoria, Australia.
- Diabetics Project with Prince of Wales, Hospital, New South Wales, Australia.

5.4 AusAID funded Health Sector Planning and Management Project

Phase I of the Tonga Health Project was successfully completed at the end of February 2001. Both the Ministry and the project team were very proud of the advances made during Phase I with significant achievements being made in visioning and strategic planning; management and communication, financial management, human resource management and pharmacy policy development.

Phase II commenced on June 1st and the first six months have concentrated on consolidating the achievements of the first phase. These achievements will be extended to divisional management (Hospital and Public Health Management) during 2003.

ACHIEVEMENTS DURING THE FIRST 6 MONTHS OF PHASE II

The key activities in the first 6 months of phase II of the project were:

- Financial Management
- Human Resource Management
- Workforce Development and Training
- Health Services and Facilities Planning

In addition, the management reform initiatives in communication and committee restructuring instituted in Phase I were reinforced and the pharmacy component commenced. Key achievements during the first six months of phase II are listed below:

Finance

- Distribution of the 2001/2002 budget allocations to Division and Section Heads including funding for priority items;
- Loading of 2001/2002 budget allocations into the computerised "SUN" Finance and Accounting system;
- Preparation and distribution of monthly financial reports to division and section heads;

- Training of the Senior Accountant to perform various operational tasks previously performed by the Finance and Budget Advisor;
- Initial review of workflows within the section.

Human Resource Management

- Micropay system HR modules identified as meeting the Ministry's needs for the introduction of a computerised HR information system;
- Agreement reached to establish a Micropay network as a pilot exercise with Treasury, Establishment Division and MOH;
- Review completed of the procedures and workflows of the accounts and human resource section to improve efficiency and effectiveness and ensure that the databases are compatible and continually updated.
- Review of the role and responsibilities of the section heads of the Public Health Division completed;
- Annual review of the activities of the Ministry's committees completed.

Workforce Development and Training

- Update of the training needs analysis (developed in phase 1) and use of the schedule to identify priority training needs;
- Review of selection policies and procedures for training opportunities commenced.

Health Services Planning (Service Delineation)

- Determination of service levels for the Ministry of Health
- Documentation of service profiles for each of 24 service areas
- Use of parts of the Service Delineation Document in facilities planning and workforce development activities of the project
- Input from profiles by sections to update training needs analysis and incorporate into corporate planning process

Facilities Master Planning

- Data analysis of population trends, utilisation levels and projected future demand for services;
- Review of current facilities, assessment of their functional state and review of current and needed functional relationships for Vaiola hospital campus;
- Development and documentation of a staged master plan for Vaiola hospital with total estimated costs and costing for each stage.

6. HEALTH DISTRICTS

6.1 'Eua Health District

6.1.1 Management

Dr. Sione Sengili Moala, Chief Medical Officer is responsible for managing Niu'eiki Hospital and the 'Eua health district and is supported clinically by one Health Officer. Dr. Moala was appointed Acting Director of Health requiring his transfer to Vaiola Hospital and Mr. Viliami Funaki, Health Officer took over responsibility for managing Niu'eiki.

Routine clinical activities include daily ward rounds every morning followed by outpatient consultation and antenatal first visit every Tuesday morning. The weekly diabetic and hypertension clinic continues and there has been an increase in the number of new cases.

6.1.2 Nursing

Nursing Sister Mrs. Salote Schaumkel is responsible for managing clinical and public health nursing services in 'Eua and is supported by Senior Midwife Nurse Mrs. Mele Halaliku. Mrs. Schaumkel was transferred to Vaiola Hospital these responsibilities were taken over by Mrs. Talau Takau, Public Health Sister Graduate.

6.1.3 Laboratory

Laboratory Technician Grade II, Mrs. Lalamea Tu'ipulotu is responsible for managing and delivering laboratory services at Niu'eiki. Services available include blood transfusion, random and fasting blood sugar tests.

6.1.4 Dental

Dental Therapist, Mr. Sione Halahala is responsible for managing and delivering dental services in 'Eua. Mr. Halahala replaced Mr. Penisimani Taufu who proceeded on vacation leave. Services include filling, tooth extraction, ante natal dental care and the school dental health programme.

6.1.5 Environmental Health

Public Health Inspector Grade II, Mrs. 'Amelia Vea is responsible for environmental health services and include village, retail and wholesale meat selling premises inspection, garbage and waste disposal and construction inspection.

6.1.6 Administrative Support

Junior Clerk, Mrs. 'Unaloto Sateki is responsible for clerical and financial duties and Miss. Kilistina 'Aholelei, Daily Paid Junior Medical Recorder is responsible for medical records services.

6.1.7 Auxiliary Staff

Niu'eiki Hospital employs the standard complement of non clinical support staff which include, drivers, laundry, catering, domestic and grounds keepers.

6.2 Ha'apai Health District

6.2.1 Management

Health services in the Ha'apai group is provided through 1 hospital (Niu'ui) at Pangai, 2 Health Centres (Ha'afeva and Nomuka) and 5 Maternal Health Clinics. Chief Medical Officer, Dr Samiuela Fonua was responsible for managing health services in Ha'apai until his retirement in June. Medical Officer, Dr Reynold 'Ofanoa was appointed Acting Chief Medical Officer and is supported clinically by 1 medical officer and 1 health officer.

Niu'ui Hospitals objective is to reach each and every individual in the district and improve their health with the limited resources available.

6.2.2 Nursing

Nursing Sister Graduate, Mrs. Mele Vaka was responsible for managing nursing services in Ha'apai until her transfer to Vaiola in March and was replaced by Nursing Sister Mrs. 'Ilisapeti Koloapeau. There are 14 clinical and 7 public health nurses assigned to the Ha'apai district.

6.2.3 Dental

Acting Senior Dental Officer, Dr Tule 'Akau'ola is the sole dental staff at Niu'ui and is responsible for the provision of the dental services at Niu'ui Hospital. Services available include, ante natal dental care, extractions, impaction, endodontic, and composite filling and repair of dentures and 2,275 patients were examined and treated during the year. Five (5) primary schools in Lifuka were visited once every week for fluoride mouth rinse and tooth brushing demonstration and 3 kindergardens were visited daily for the same purpose.

6.2.4 Pharmacy

Assistant Pharmacist Grade, II Mr. Manase Tongia is responsible for the provision of the pharmacy and dispensary services.

Niu'ui Hospital Prescription record for 2001

Month	No Charges	Items	Charged	Items	Cost	Repeat	Ward Items	OPD	Items
Jan	1605	3976	1	3	45	64	287	479	760
Feb	1430	2412				76	254	376	686
Mar	1474	2711	1	2	21	60	390	583	1092
Apr	1421	2542				72	253	318	726
May	1557	2825	2	6	125	67	285	440	860
Jun	1432	2611				76	223	348	748
Jul	1311	2271				86	286	335	776
Aug	1567	2826				65	252	432	729
Sept	1278	2172				72	282	430	712
Oct	1647	3726	2		64	78	284	475	862
Nov	1849	3998	1	2	12	74	369	699	1211
Dec	1830	3979				102	420	528	1127
Total	18401	36049	7	13	267	822	3685	5443	10289

6.2.5 Laboratory

Laboratory Technician Grade II Mr. 'Epitani Vaka is responsible for the provision of laboratory services.

6.2.6 X-Ray

Assistant Radiographer Grade II, Mrs. Pilimilose Langi is responsible for provision of x-ray services which include general chest, abdominal, spines, extremities and skull x-rays and processing of films are performed manually.

Niu'ui Hospital Radiograph Record for 2001

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
CXR, Diseases	25	19	19	7	7	6	3	5	6	6	2	1	106
CXR, Injuries	1	1	3	4				1		5	2		17
CXR, Other	1	2	2	1	2	1		1					10
AXR, Pregnancy	1		2	1	1	2							7
AXR, Diseases	1	1	4	1	2	1		1	3	1			15

Extremities	6	13	19	13	5	8	5	4	6	7	12	3	101
Cervical Spines	1	1	2	4		1				1	1		11
Thoracic Spines							3						
Lumbar Spines	2	4				1		4		5	2		20
Pelvis spines	2	7	2		2	2	1	2		1	1	1	20
SXR	2	3	1	3		1			1	2	2	1	17
TOTAL	42	51	54	34	19	23	12	18	16	28	22	6	325

6.2.7 Environmental Health

Public Health Inspector Grade II Mr. Uatesoni Tu'angalu is responsible for providing environmental health services. Activities include village, town allotment, public facilities and food handler inspections, water supply maintenance and construction inspection.

6.3 Vava'u Health District

6.3.1 Management

Chief Medical Officer, Dr. Litili 'Ofanoa was responsible for managing health services in the Vava'u district prior to his transfer to Vaiola Hospital. Medical Officer, Dr. Saia Piukala was appointed Acting Chief Medical Officer and is supported by a medical officer and two health officers.

The primary responsibility of the Ministry in Vava'u is to improve the people's health through the delivery of services that promote health and prevent ill health.

6.3.1.1 Vision

- The vision for the district is to adapt and implement the Healthy Island model in Vava'u. Among its key features is the principle of enabling individuals, families and communities to prepare them for healthy living and healthy lifestyles in the context of community support with multi-sectional multidisciplinary partnership in which the focus is on healthy versus a disease centered approach.
- To increase the number of Medical Officers to three by 2002.
- Ensure a surgeon is permanently posted to Ngu Hospital by 2007.

6.3.2 Nursing

Nursing Sister Graduate, Mrs. Hevaha Paseka is responsible for the supervision and management of all the nursing staff. The nursing establishment consists of 28 clinical and 6 public health nurses.

6.3.3 Dental

Acting Senior Dental Officer Dr. Susitina Piukala is responsible for the provision of dental services and is supported by a Dental Therapist and a Dental Assistant. Services provided during the year include,

Service	Number
Extraction	3,187
Restoration	2,278
Endodontic Treatment	63
Antibiotic Therapy	502
Scaling & Polishing	53
Impaction	27
Jaws immobilization	4
Excision of oral lesion	3

6.3.4 Laboratory

Mr. Tonga Havili, Laboratory Technician Grade I was responsible for laboratory services until his transfer to Vaiola and was replaced by Laboratory Technician Grade II, Mr. Francis Timani. Services available include blood, urine, stool, sputum, HIV and HbsAg tests and blood transfusion and blood bank donation.

6.3.5 X-ray

Mrs., 'Atomi Palu, X-ray Technician Grade II is responsible for the provision of x-ray services where 883 x-rays were requested during the year.

6.3.6 Pharmacy

Mr. Petelo Manu, Assistant Pharmacist Grade II is responsible for the provision of pharmacy and dispensary services and is supported by a Assistant Pharmacist Grade II.

6.3.7 Environmental Health

Mr. Niu Fakakovi, Public Health Inspector Grade I is responsible for the provision of environmental health services and is supported by a Public Health Inspector Grade II.

6.3.8 Health Education

Miss. Paea Tiueti, Health Education Assistant Grade II is responsible for health education and promotion services and activities.

6.3.9 Medical Records

Miss. Kaliopeta Vainikolo, Medical Recorder, is responsible for medical records services and is supported by Mrs. Melelini So'ia who was transferred to Vaiola Hospital in May for one year training and was replaced by Miss. Lisita Holani, both officers been Junior Medical Recorders.

6.3.10 In delivering its services the following have been identified as milestones,

- A surgical and anaesthetic team (Dr S. Mesol and Dr B. Tu'inukuafe) from Vaiola visited twice and conducted clinics and performed surgery for one week each respectively.
- A 2 member ophthalmology team from Australia and Hawaii visited and conducted clinics and performed surgery.
- The Chief Nursing Officer and Matron conducted in service training for nursing staff.
- Dr Toakase Fakakovi conducted a Control of Diarrhoeal Disease workshop.
- 2 Public Health Nurses and 1 Clinical Nurse returned after completing the Post Basic Midwifery training programme.
- Continuation of good network already established with Vava'u Youth Congress, Non Government Organizations, Church Leaders, Town and District Officers, Secondary Schools in support of the outreach programme.
- Aerobic exercise was conducted by Ai Komori; the Japanese Volunteer once a week for hospital staff.
- Two replacement dental chair lights were donated by Canvasback Mission.
- A US Marine dental team visited during August and provided dental services and donated dental supplies and equipment.

- The visit in November of Principal Dental Officer Dr. 'Amanaki Fakakovikaetau to conduct out patient clinics and perform oral surgery.
- Installation of air condition unit in x-ray donated by Her Royal Highness Princess Salote Mafile'o Pilolevu Tuita.

6.4 Niuatoputapu Health District

6.4.1 Management

Health Officer, Mr. 'Amona Vaka'uta is responsible for managing health services in Niuatoputapu which has a catchment population of 1,279. Mr. Vaka'uta is supported by a Dental Therapist, Staff Nurse, Public Health Nurse and 5 daily paid employees. The district was allocated \$ 19,550.00 for operational purposes generated \$ 4,049.00 in revenue.

The Health Officer is responsible for clinical services, which include patient consultations, home visits and management of in-patients admitted to the Health Centre. Administrative tasks involve preparation of purchase orders and salary vouchers, revenue collection, monitoring of financial expenditure and supervision of daily paid staff. Public health tasks involve school visits, delivery of health promotion, village inspection, boat clearance and retail store inspection.

6.4.2 The Health Centres objectives are,

- Provide improved health services to people of Niuatoputapu
- Maintain full coverage during filariasis campaign
- Provide improved clinical dental health services and school dental health programme.
- Provide improved nursing care to health centre in patients
- Improve community awareness through health promotion and home visits
- To maintain equipment (sterilization autoclave and instrument)
- To complete and maintain EPI campaign
- Promote health promotion and ante care for pregnant mothers

6.4.3 Dental care

Senior Dental Therapist Mr. Lea Pele is responsible for the provision of preventive and curative dental services. In light of the increasing dental caries in children throughout Tonga, the school dental programme is afforded priority. 471 patients were seen which included 315 adults, 4 expectant mothers and 152 children. 154 extractions were performed (94 caries, 55 peridontitis, 5 other), 151 temporary restorations and 81 permanent restorations.

6.4.5 Health Centre Nursing

Staff Nurse, Mrs. Monika 'Uvea is responsible for health centre nursing services and activities. These include patient dressings, health promotion and inpatient management and treatment. Miss. Sofia Nuku was temporary transferred from Nuku'alofa to relieve for Mrs. 'Uvea who proceeded on vacation leave.

6.4.6 Public Health Nursing

Public Health Nurse, Mrs. 'Ana Vaka'uta is responsible for the provision of public health nursing services which include ante natal dental care, deliveries, post natal care, home visits and the EPI programme. 30 cases visited the ante natal clinic whereby 24 deliveries were recorded.

6.4.7 Support staff

Staff are employed on a daily paid basis as a driver, skipper, groundskeeper, laundry maid and clerk. Only the clerk and driver are employed on a full time basis whereas the remaining staff are employed for 2 to 3 days a week.

6.5 Niuafu'ou Health District

6.5.1 Management

Health Officer, Mr 'Asipeli Mafi is responsible for managing health services in Niuafu'ou. 1 Dental Therapist, 1 Public Health Nurse and 2 non clinical support staff support Mr Mafi.

6.5.2 The centre's main objectives are,

- The provision of preventive health services with emphasis on basic health education and promotion at the community level through established structures for all age groups.
- The provision of curative health services with the diagnosis and management of medical problems and the referral of patients requiring advanced treatment and management.
- The collection and statistics on work undertaken.
- The provision of administrative, personnel, financial management services.

6.5.3 Public Health Nursing

The Public Health Nurse is responsible for health for the provision of public health nursing services, which include ante natal, deliveries, post natal, home visits and the EPI Programme.

The table provides a summary of services delivered during the year.

Services	Number
Total population	754
Total consultations	3543
Total admissions	79
Minor surgery	88
Local anaesthetic	66
Referrals	10
Village meetings	21

6.5.4 In providing its services during the year the following were identified as milestones,

- The permanent posting of a Dental Therapist to serve the people of Niuafu'ou.
- Excellent coverage for Filariasis Mass Drug Administration programme.
- Funding secured for solar electrification of Health Centre and refrigeration facilities for vaccine cold chain.

7. PUBLIC HEALTH SERVICES

7.1 Management

Chief Medical Officer, Dr. Malakai 'Ake is responsible for the management of this division. The division consist of six sections, (Communicable Diseases, Non Communicable Diseases, Maternal Child Health and Family Planning, Community Health, Environmental Health and Health Education).

7.2 Communicable Diseases

7.2.1 Senior Medical Officer, Dr Seini Kupu was responsible for the management of the section until July when she took up a Short Term Consultant assignment with WHO. 1 Senior Health Officer, 2 Public Health Assistant Grade I and 3 Public Health Assistant Grade II provide support to the Senior Medical Officer. Mrs. 'Ofa Tukia, Senior Health Officer took over responsibilities for managing the section during Dr. Kupu's assignment. The section was allocated \$4,750.00 to facilitate the implementation of its services and activities.

7.2.2 The functions of the section are,

- Develop and implement strategy, policy and preventative healthcare programmes to reduce the incidence of communicable diseases in Tonga.
- Responsible for the management and treatment of all communicable disease patients admitted to the Infectious ward or undergoing either out-patient or domicilliary treatment.
- Formulate standard protocols for the management of all communicable diseases.
- Responsible for processing medical examinations required for visa applications, employment, shopkeepers and food-handlers, and any other requirements.
- Ensure active participation in matters related to Communicable Diseases.

7.2.3 The sections general objective is,

- To reduce the incidence of communicable diseases in Tonga through the development and implementation of strategy, policy and preventative healthcare programmes.

7.2.4 Twelve (12) cases of **Tuberculosis** (all forms) were reported during the year as opposed to 24 in 2000. One death during treatment was reported.

7.2.5 No new cases of **Leprosy** was reported during the year. However there were four (4) cases under surveillance at the start of the year, one was released, thus leaving only three (3) cases under surveillance.

7.2.6 **Typhoid fever** continues to surface with fourteen (14) cases reported during the year and one (1) **healthy carrier** was identified and treated. The majority of patients were from Tatakamotonga village.

7.2.7 **Sexually Transmitted Infections (STIs)** and **HIV/AIDS** continue to be a potential public health problem in the country. Thirty-three (33) cases of confirmed **gonorrhoea** were reported in Tongatapu during the year and predominantly from the 15-30 age group, and Nuku'alofa district. No new HIV/AIDS cases were reported, however three (3) confirmed cases were alive and one patient subsequently developed AIDS and died during the year

7.2.8 The first of Mass Drugs Administration (MDA) for the elimination of filariasis was conducted nationally on the 25th March. In accordance with the WHO protocol the target population should be covered within 2 months of the campaign commencing.

7.2.9 In implementing its activities during the year following were identified as milestones,

- Completion of the Mass Drug Administration for the elimination of filariasis resulting on 25 March resulting in 95 % coverage for the entire country.
- Completion of 28 day drug treatment of typhoid healthy carriers in Tongatapu using the Directly Observed Treatment Regimen.

- Achieved 93 % (15 cases) cure rate for all positive pulmonary tuberculosis smear cases diagnosed in 2000 following completion of treatment during the 3rd quarter of 2001. This is well above the global target of 85 %.

7.2.10 The Communicable Diseases Control section was most fortunate to receive financial and technical support from several donors which include WHO, Secretariat of the Pacific Community, AusAID, NZODA and Community Health for Tuberculosis Australia (CHATA). The support provided by these bodies is acknowledged with gratitude and contributes significantly to the achievement of the section's objectives.

7.3 Non Communicable Diseases (NCD)

7.3.1 Senior Medical Officer, Dr. Malakai Ake is responsible for managing this section in addition to his CMO responsibilities.

7.3.2 The sections objectives are,

- Reduce incidence of NCD (number of new cases)
- Reduce complication and premature deaths from NCD in collaboration with secondary prevention components of NCD control and prevention.

7.3.3 The control and prevention of NCD at primary prevention level through inter-sectoral collaboration both within and outside the Ministry and is operated at 2 levels.

Primary Prevention

- Mass health protection and promotion. Emphasis is placed in mass health protection and promotion of healthy lifestyles and NCD risk factors at all levels of the community. The objective is to reduce public demand for NCD risk factors, thus reducing risks of suffering from NCD's.
- Structural interventions at policy making level to formulate policies that will create an environment where NCD risk factors are not easily available to the public.

Secondary Prevention

- Emphasis is based on screening for NCD cases, early treatment and follow up of cases and rehabilitation. The Diabetic Centre is responsible for activities carried out at this level.
- There is no tertiary prevention component due to lack of financial and human resources.
- Production and delivery of weekly radio and TV programmes.
- Ongoing production and distribution of health education and promotion materials on healthy lifestyle and NCD pamphlets and billboards.
- In pursuit of the "Reaching Out" initiative the section is part of the multidisciplinary health teams visiting villages. Activities and services include health promotion, environmental health, maternal child health, dental and health information.
- Tracing of diabetic defaulters from Diabetes Centre.
- Organising World Diabetes Day activities.
- Continuous referral of NCD (new and old cases) to Diabetic Centre, Hypertension and Cardiac Clinics.
- Strengthening collaboration with government departments and non-governmental organisations through the National Food and Nutrition Committee on all matters pertaining to nutrition policies.
- Support and active involvement in World Food Day activities.
- Training workshop on cancer prevention and control.

7.4 Environmental Health

7.4.1 Supervising Public Health Inspector Mr. Lelea Tu'itupou manages this section and is assisted by one Public Health Inspector Graduate, two Senior Public Health Inspector, one Public Health Inspector Grade I and 11 Public Health Inspector Grade II.

7.4.2 The section has established and set its goal for 2001as,

- To strengthen and improve environmental health services.
- To reduce the incidence and prevalence of communicable diseases through appropriate environment health services and activities.
- To improve rural water supply development.

7.4.3 The objectives of the section are,

- To ensure the coverage of rural communities access to a continuous supply of safe water is increased.
- To increase households with proper sanitary disposal systems
- To strengthen skills and knowledge of staff
- To enforce Public Health Act.

7.4.4 As such the following units are established to implement the sections responsibilities, Water Supply, Food Sanitation, Vector Control, Garbage Collection and Sewage Disposal, Industrial Health and Building Plan Unit.

7.4.5 The functions of the Units are,

7.4.5.1 Water Supply

- Conduct routine inspection and water disinfection of rural water supply
- Water sampling for bacteriological and chemical analysis
- Audit financial records of village water committees
- Plan and implement new rural water scheme
- Consult with village water committee consumers
- Prepare activities report

7.4.5.2 Vector Control

- Conduct vector survey and investigate vector borne cases
- Conduct household fumigation and destruction of breeding habitats
- Prepare activities report.

7.4.5.3 Village Sanitation

- Conduct individual house inspection
- Consult village women committees
- Inspect public amenities
- Implement and monitor health development projects
- Prepare activities report

7.4.5.4 Garbage Collection and Sewage Disposal

- Manage daily operations of refuse collection services
- Maintain and monitor dump site
- Maintain and monitor dry sludge beds.
- Maintain and monitoring existing public toilets
- Prepare report of the activities

7.4.5.5 Industrial Health

- Carry out routine inspection of industries
- Provide health procedure to workers
- Carry out testing
- Investigate of accident
- Prepare report of the activities

7.4.5.6 Building Plan Inspection

- Inspection of building sites and design a proper waste water drainage system
- Appraise commercial and private building plan specifications sanitary disposal systems
- Prepare report.

7.4.6 In performing its responsibilities during the year the following are noted as milestones,

- Upgrading rural water supplies at Kuolo, Ha'apai and Fofaha in Tongatapu through financial assistance from the Government of Japan.
- Installation of water meters for Fofaha and will improve the monthly collection of fees.
- Control of typhoid outbreak particularly in Tatakamotonga, whereby one healthy carrier was identified, managed and treated.

7.5 Health Education

7.5.1 Acting Health Education Officer, Mrs. Susana Latu is responsible for managing this section and is supported by 6 Health Educators, 2 Technicians and 1 Artist Illustrator. In extending its services, a Health Education Assistant Miss. Paea Tiueti has been permanently posted to Ngu Hospital.

Two staff members (Mr. M. 'Ofanoa, Health Education Officer, Miss. K. Vaipulu, Computer Assistant) continue to be on overseas leave without pay.

7.5.2 The sections objective for the year involves,

- The promotion of healthy life-styles amongst the different age groups in Tonga in order to bring about desirable health practices amongst individual and communities.

7.5.3 The section continued to adopt WHO's global theme "**Health for all Begins at Home**" as the main focus of activities for the year. This theme coincides with the Ministry's initiative of "**Reaching Out**". The theme stresses the role health workers; individuals, families and communities have in promoting healthy lifestyle.

7.5.4 The section planned a comprehensive mass media approach utilising (radio, television and community outreach programmes) as a means of communicating and disseminating information, to empower individuals and communities with reasonable knowledge, skills and practices in order take greater responsibilities for their individual health.

7.5.5 The following activities and services were undertaken in pursuit of the section objectives.

7.5.5.1 Radio Health Programmes

- The section continued to plan and coordinate the Ministry's radio health programmes. 344 radio health programmes were produced and aired during the year. 2 local businesses and WHO sponsored 132 of these programmes. The following table provides further details.

No	Discipline	No. of Programmes	%
1	Communicable disease	34	10
2	Health Education	42	12
3	Environmental Health	28	8
4	Dental Health	18	5
5	MCH/FP	12	3
6	Out Patient	11	3
7	Psychiatric Ward	11	3
8	Paediatric	10	3
9	Obstetric Ward	10	3
10	Diabetic Ward	10	3
11	ENT	5	2
12	Eye Clinic	5	2
13	Medical Ward	4	1
14	Surgical Ward	3	0.9
15	Dispensary	3	0.9
16	Blood Bank	3	0.9
17	Out Patient Clinic	2	0.6
18	Administration	1	0.3
19	Vete Holdings	52	15
20	Dr. Supileo Foliaki Foundation	28	8
21	Tasilisi 'a Natingikeili	52	15
	Total	344	100

7.5.5.2 Radio Spots Announcements

- 10 new radio spots were produced to promote different priority health issues which included the World Health Day, World No Tobacco Day, launch of the Tobacco Act, launch of the Filariasis Mass Drug Administration and World AIDS Day.

7.5.5.3 Television Programme

- 75 Television Programmes were produced and televised during the year on different health issues and the following table provides further details.

Theme	Number of Programmes	%
Non communicable diseases	52	61
Health for All Begins at Home	12	14
Filariasis	5	5
Diabetes	2	2
Mental health	1	1
Say No to Tobacco	1	1
Immunisation	1	1
Nutrition	1	1
TOTAL	75	100

7.5.5.4 Community Approach

- Various community outreach programmes were conducted to reflect the section goals and objectives and were implemented and coordinated with other sections community based activities.

Village	Number of Attendees
Ha'alalo	42
Malapo	63
Veitongo	132
Ha'asini	61
Haveluliku	31
Lavengatonga	36
Fatumu	18
Niutoua	43
Afa	64
Manuka	24
Navutoka	32
Talafo'ou	19
Nukuleka	31
Hoi	47
Holonga	26
Nakolo	33
Tatakamotonga	48
LDS Tu'atakilangi	52
Matangiake	30
Fasi moe Afi	40
Tokomololo	30
'Isileli	80
Kolomotu'a	100
Total	1015

7.5.5.5 Aerobic Exercise

- 148 aerobic exercise sessions were organised and implemented as depicted in the following table.

Village	Number of Sessions
Veitongo	30
Ha'avakatolo	27
Fua'amotu	25
Kolofo'ou	24
FWC Halafo'ou	19
Anglican Church, Nuku'alofa	23
Total	148

7.5.5.6 Walk for Health

- The section in collaboration with the Central Planning Department continued to take the lead role in organising and implementing the monthly Walk for Health in Tongatapu with the support of Chief Medical Officer, PH and WHO Country Liaison Officer.

Village	Number of Attendees	Gender	
		Female	Male
Malapo	47	35	12
Houma	26	19	7
Kolovai	58	50	8
Nuku'alofa	43	32	11
Nukunuku	55	42	13
Fua'amotu	37	32	5
Ha'asini	34	25	9

Haveluliku	31	24	7
Lavengatonga	39	30	9
Fatumu	21	16	5
Niutoua	42	36	6
Afa	38	30	8
Navutoka	44	39	5
Talafo'ou	23	16	7
Nukuleka	24	18	6
Total	562	444	118

7.5.5.7 IEC (Information, Education, Communication) Materials

- The development of IEC materials is a major activity of the section. The following IEC material was developed during the year.

Item	Theme	Quantity
POSTERS	Obesity	900
	Social effects of alcohol	450
	Anti Smoking	450
	Dangers of Diabetes	450
	Balanced Diet	450
	Ill effects of alcohol	450
	Exercise	450
PAMPHLETS	High blood pressure	200
	Knowing Diabetes	200
	Heart Disease	200
	Anti Smoking	50
	Filariasis	1000
	Diahoerra	2000
SIGN BOARDS	Anti Smoking	100
BILLBOARDS	Anti Smoking	20
STICKERS	Anti Smoking	2500
	Total	9870

7.5.5.8 Commemorative Days

- The section continued to support the following commemorative days by organising and implementing various activities highlighting its theme and objective.

Date	Theme
27 February	▪ Leprosy Day
25 March	▪ World Tuberculosis Day
	▪ Filariasis Mass Drug Administration
07 April	▪ World Health Day
31 May	▪ World No Tobacco Day
03 September	▪ Launch of Tobacco Act
14 November	▪ World Diabetes Day
26 November to 02 December	▪ World AIDS Day and launch of Strategic Plan on HIV/AIDS for Tonga

7.5.6 As part of the ongoing staff development health education staff participated in the following local and regional workshops and training.

- Sub Regional Workshop on Post Harvest Fisheries, 10-12 April, Apia, Samoa sponsored by Canadian Development Fund.

- Workshop on Cardiovascular Disease, Eua, 10-12 July, Vava'u 17-19 July, Ha'apai, 24-26 July, Hahake district, Tongatapu, 27-29 August, Hihifo district, Tongatapu, 12-14 September
- Workshop for Teachers on Healthy lifestyle Health Promotion School, 21-24 August funded by WHO.
- Strategic Planning Workshop, 3 October, Nuku'alofa and funded by AusAID.
- Adolescent/Reproductive Health Workshop organised by Tonga Family Health Association, Nuku'alofa.
- Workshop on Survey Data on Alcohol/Tobacco amongst Secondary School students conducted in 1999, Nuku'alofa and coordinated by Central Planning Department
- One-day workshop on Overweight led by WHO Consultant Dr. Gary Egger in Nuku'alofa and sponsored by WHO.
- First Aid Workshop, 21 May to 01 June, Nuku'alofa coordinated by the Tonga Red Cross.
- Script Writing Workshop, 16-29 May, Nuku'alofa organized by the QSSN and sponsored by WHO.
- Workshop on Tuberculosis, 23- 29 May, Nuku'alofa funded by WHO.
- Adobe Page Maker and Adobe PhotoShop, 24- 29 September, Nuku'alofa organized by Women's Development Unit and sponsored by SPC.
- In-service Training on Reproductive Health, Nuku'alofa sponsored by Tonga Family Health Association.
- Promotion of Healthy lifestyles for Peer Groups Workshop, 20-21 September, Nuku'alofa and funded by WHO.
- Training of Sia'atoutai Theological College Women on family health related topics and issues.

7.5.7 The following staff undertook formal training overseas during the year,

- Mr. 'Eva Mafi, commenced 12 months postgraduate training leading to a Graduate Diploma in Health Promotion at Deakin University, Melbourne, Australia and was sponsored by WHO.
- Miss. Mele Tu'ivai, participated in a 7 month training programme at the Community Education and Training Centre, Suva, Fiji leading to a Certificate in Community Work, 20 March to 20 October 20.
- Miss. Naomi Fakauka departed for Japan on 02 August to undergo training in the Japanese Language (Intermediate and Advance Level) funded by JICA.

7.5.8 In implementing its services the following were identified as significant milestones accomplished during the year,

- The assignment of Dr. Viliami Puloka, to manage the Health Education/Promotion section following special leave to accompany his spouse Dr. Aivi Puloka while on training in the United Kingdom. Dr. Puloka possesses a BA and MPH (Health Education) as well as a MBBS. His appointment will significantly improve the services provided by the section.
- Miss. Namoe Sau, resumed duty following successfully completing a Master Public Health from Deakin University, Melbourne, Australia which was funded by AusAID.
- Procurement of essential equipment which included television and video set, photocopier machine and 2 tape recorders.
- Initiation of weekly exercise session for staff every Friday afternoon organised and led by the section.
- Establishment of a mobile Health Education/Promotion team visiting villages on Tongatapu promoting healthy lifestyle and living. The team consists of health information, dental, public health nursing, health officer and health education staff.

7.6 Community Health

7.6.1 Training Coordinator, Mr Vaipulu Manuopangai is responsible for managing this section and is supported by 23 Health Officers.

7.6.2 Health services are made available to the public through health centers strategically located in rural communities. There are 7 on Tongatapu, 2 in Ha'apai (Nomuka and Ha'afeva), 3 in Vava'u (Ta'anea, Tefisi and Falevai) and one each in Niuafo'ou and Niuatoputapu respectively.

7.6.3 The section's objectives are,

- To extend and improve health services at the community level.
- To strengthen community involvement and community participation in the decision making regarding community health programmes.
- To increase equity to health care through a balanced distribution of services to all island groups and rural areas.

7.6.4 The sections functions are,

- Promote community participation by working with people and helping them to rely as much as possible on their own efforts and resources to meet their health needs.
- Improve data collection and reporting system from the health centres.
- Educate and promote healthy life style in the community.
- Coordinate, plan and implement school health programmes.
- Upgrade staff skills and knowledge.
- Improve referral system between health centres and hospitals.
- Coordinate refresher courses and in-service training for health officers.
- Training and supervision of village health worker for isolated island in Ha'apai and Vava'u.

7.6.5 The Health Centre's functions are,

- Provide 24 hour outpatient at health centres
- Refer patients to centers with more specialized medical and nursing services
- Provide follow up of selected cases referred from hospitals.

Family Health

- Provide supervised child care, immunization, family planning, antenatal care and selection of patients needing admission for hospital care.

Dental Care

- Provide or assist with the provision of dental services.

Disease Control

- Control communicable and non communicable disease through case finding, default tracing and treatment.
- Immunization against tetanus, measles, whooping cough, polio and diptheria.
- Promote programmes for nutritional improvement through villages schools and liaison with other agencies.
- Promote suitable water supplies, method of waste disposal, housing and vector control.

Community involvement

- Work with communities to promote participation and contribution to the management of rural health centre.

Evaluation

- Report regularly on health status of the population and activities carried out within the service.

7.6.6 The section was allocated with \$60,000 for the renovation of the 14 health centres around Tonga. This is a significant milestone and complements the Ministry's objective of making services readily available at the community level. The funds were used to renovate health centres, staff quarters and maternal child health clinics.

Health Centre Visits (Tongatapu)

	<u>J</u>	<u>F</u>	<u>M</u>	<u>A</u>	<u>M</u>	<u>J</u>	<u>J</u>	<u>A</u>	<u>S</u>	<u>O</u>	<u>N</u>	<u>D</u>	<u>Total</u>	<u>Average</u>
Kolonga	635	712	574	620	605	718	704	672	723	732	792	576	8081	673
Mu'a	748	585	1354	887	715	773	804	1001	740	824	745	843	992	832
Fua'amotu	434	677	701	408	273	298	156	317	319	421	NA	NA	4004	400
Vaini	445	642	458	419	171	368	386	288	287	324	345	127	4250	355
Houma	365	289	299	212	247	105	130	162	147	116	151	180	2383	198
Nukunuku	225	305	344	356	274	257	271	328	211	257	114	NA	2942	267
Kolovai	482	517	520	456	386	342	549	956	775	698	366	385	6433	536

Health Centre Visits (Outer Islands)

	<u>J</u>	<u>F</u>	<u>M</u>	<u>A</u>	<u>M</u>	<u>J</u>	<u>J</u>	<u>A</u>	<u>S</u>	<u>O</u>	<u>N</u>	<u>D</u>	<u>Total</u>	<u>Average</u>
<u>Vava'u</u>														
Tefisi	330	38	316	455	421	NA	NA	NA	NA	NA	NA	NA	1860	272
Ta'anea	184	199	229	138	119	NA	NA	NA	NA	NA	NA	NA	869	173
<u>Ha'apai</u>														
Nomuka	541	516	214	167	269	202	154	154	102	104	132	136	2691	224
Ha'afeva	501	679	566	387	330	257	436	348	520	461	469	NA	4954	450
<u>NTT</u>	138	121	141	132	122	144	197	143	138	42	39	93	1450	120
<u>Niuafo'ou</u>	415	329	402	321	362	NA	419	574	360	48	463	428	4560	414

Health Centres Referrals to Vaiola Hospital (Tongatapu)

	<u>J</u>	<u>F</u>	<u>M</u>	<u>A</u>	<u>M</u>	<u>J</u>	<u>J</u>	<u>A</u>	<u>S</u>	<u>O</u>	<u>N</u>	<u>D</u>	<u>Total</u>	<u>Average</u>
Kolonga	1	1	3	2	3	2	2	2	3	3	2	3	27	2.3
Mu'a	5	8	7	2	7	3	2	12	7	12	8	4	76	6.3
Fua'amotu	11	11	8	5	8	7	2	5	6	6	NA	NA	69	6.9
Vaini	3	4	6	17	0	1	3	1	4	3	2	0	47	3.9
Houma	2	0	2	0	0	0	0	0	0	0	0	0	4	0.3
Nukunuku	0	1	3	2	0	0	1	2	1	3	3	2	18	1.5
Kolovai	5	6	13	5	6	3	0	2	3	3	2	3	61	5.1

7.6.7 The section identified the following as milestones during the year.

- The establishment of District Health Committees at Nukunuku and Houma district to monitor development needs in respective health centres.
- Health officers reside at Mu'a, Houma, Nukunuku and Kolonga to ensure the public's accessibility to primary health care outside normal working hours. This initiative will be extended to the remaining health centres on Tongatapu (Vaini, Fua'amotu and Kolovai).
- The installation of a concrete fence for Kolonga health centre. Acknowledgement is extended to the "Kalapu 'a e Matu'a" under the excellent leadership of Reverend Kalisi Fonua, Pakofe and the community for its construction. Gratitude is also extended to Hon. Nuku for the supply of materials free of charge.

- The health officer's quarter at Houma health centre was renovated and a new fence for the compound was constructed. Financial support from Houma residents residing in the United States and the Ministry enabled this work.
- Fund raising activities have been initiated in Nukunuku, Vaini and Fua'amotu to pursue similar work for the health centres.

7.7 Maternal Child Health and Family Planning

7.7.1 Senior Medical Officer, Dr. Sunia Foliaki manages this section and is supported by 36 Public Health Nurses and 1 un-established Clerk Typist. Details of the section's services and activities can be found in Table 20,21,24-26. The section was allocated \$ 9,900.00 for implementation of its services.

7.7.2 The section's functions are,

- Implementation of the Government of Tonga's UNFPA funded Reproductive Health/Family Planning- Sexual Health Project (TON/98/PO1).
- Implementation of the National Expanded Programme on Immunization
- Child health focusing on the under 5 age group.
- Implement and complement all other Public Health activities as directed by the Chief Medical Officer.

7.7.3 The section's objectives are,

- To have improved access to integrated quality RH/FP-SH programmes and services through,
 - Upgrading of all RH/FP-SH clinics in the periphery
 - Improved working skills and knowledge of the project personnel and RH/FP-SH staff.
 - Improved RH/FP-SH awareness in the community
- To have improved the RH/FP-SH the services for adolescents through,
 - The establishment of RH/FP-SH programmes and services for adolescents at Nuku'alofa RH/FP-SH clinic and two other selected centres.
- To have improved the research component of the RH/FP-SH information system.

7.7.4 In providing its services the following were accomplished during the year,

- The UNFPA funded project will end in 2002. While the implementation has not been "up to date" funds are available as per initial proposal and available for later utilisation by the Ministry. It signifies the continuous partnership between the Ministry, WHO and UNFPA on Reproductive Health
- The continuing emergence of non-governmental organisations such as Tonga Family Health to take up Reproductive Health as an agenda is a vision long endeared by regional and international agencies for non-governmental organisations and communities to be responsible for their health and not merely the Ministry of Health.

8. MEDICAL SERVICES

8.1 Management

Medical Superintendent, Dr. Taniela Palu is responsible for the administration and management of Vaiola Hospital and is supported by Hospital Administrator, Mr. Viliami Moale. Vaiola Hospital is divided along the traditional medical disciplines by wards and specialties and supported by clinical and non-clinical services.

Vaiola Hospital Ward Occupancy Rate for 2001

Ward	Occupancy Rate	No. of Beds
ICU	6 %	2
Paediatrics	49 %	31
Surgical	65 %	41
Obstetrics	66 %	28
Obstetrics (nursery)	57 %	6
Medical	50 %	40
Isolation	0 %	22
Psychiatry	34 %	29
TOTAL		199

8.2 Paediatric Ward

8.2.1 Medical Officer Special Grade, Dr Toakase Fakakovi is responsible for managing this ward and is supported by 1 medical officer, 21 nursing and 1 non clinical support staff.

8.2.2 The wards main functions are,

- to provide the best possible health services to ensure optimal physical, social and economical development and good health status for all children aged 0-14 in Tonga and includes,
 - Provide acute care for acutely ill children.
 - Provide continuous care for all children with chronic illnesses.
 - Special care for babies with special needs.
 - Support and care for disabled children.
 - Refer children who require overseas treatment.
 - Provide health education for staff, parents and the public with regard to the care of children.
 - Provide support and advice to other hospitals and health centers in Tonga.
 - Collaborate with (public health and obstetric and organisations) directly involve with children.
 - Continuous improve and upgrade health services for the children of Tonga.

8.2.3 The wards main objectives are,

- Improve and upgrade patient management and staff performance.
- Upgrade and maintain ward equipment and facilities.
- Ensure and maintain best infection control.
- Reduce overall inpatients case fatalities by 10 %.
- Reduce inpatient mortality from common illnesses by 10 %.
- Develop protocols for management and treatment of common paediatric and neonatal illnesses.
- Establish and register Vaiola Hospital as a **Baby Friendly Hospital**.

8.2.4 The ward was allocated \$5,000.00 for the purchase of non-clinical supplies and equipment.

8.2.5 Provided below is a summary of the wards activities during the year.

Paediatrics

- Total admission to the paediatric ward for 2001 was 1,327 in which 66 % were medical conditions, 27 % surgical, 5 % dental and 2 % were ENT admissions. An increase in the number of surgical admissions during July and November was attributed to the Orthopedic and Plastic Surgery teams visits to the country.
- The majority of children admitted were male (59 %) and infants from 5 weeks to 1 year.

- The most common cause of admission to the paediatric ward was acute respiratory infection (ARI) representing 30 % of the total admission.
- Bronchiolitis (45 %) was the most common cause of respiratory infection followed by pneumonia (30 %) and asthma with 19 %.
- Acute gastroenteritis represented 10 % of admissions.

Admission to Paediatric Ward for 2001 by Discipline

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL	%
Medical	61	92	88	47	91	98	80	69	94	78	43	38	879	66
Surgical	28	25	24	25	37	16	36	18	24	36	52	31	352	27
Dental	14	4	5	6	4	2	5	4	0	8	5	8	65	5
ENT	3	2	5	1	3	2	3	0	0	4	2	3	28	2
Eye	0	0	1	0	0	0	1	0	0	0	0	1	3	
TOTAL	106	123	123	79	135	118	125	91	118	126	102	81	1327	100

Leading causes of admission for 2001

	J	F	M	A	M	J	J	A	S	O	N	D	TOTAL	%
Pertusis	1	0	1	0	1	1	0	1	0	0	0	0	5	0.4
Acute Gastroenteritis	7	6	2	3	4	4	9	15	41	28	10	8	137	10
ARI	25	27	28	24	67	61	47	29	26	27	13	17	391	29
Invasive Infection	7	15	15	4	2	8	10	11	8	2	4	3	89	7
CVD	2	2	1	1	0	2	0	0	1	2	1	0	12	0.9
TOTAL	42	50	47	28	74	76	66	56	76	59	28	28	624	

- There were 13 case fatalities reported for paediatric patients during the year. Eleven (84 %) of the case fatalities were infants less than one year old, of these, 3 patients were neonates. Just under half (46 %) died of septicemia, and 30 % were terminal cases.
- The case fatality rate among paediatric inpatients at Vaiola Hospital for 2001 was 9.8 per 1000.

Case Fatality among Paediatric Admissions for 2001

Month	Number of Deaths	Gender/Age	Condition	Duration of Stay
Jan	1	M / 11months	Septicaemia	5 Hours
Feb	2	F / 2 months F / 1 year	Septicaemia Staph Septicaemia	5 ½ Hours 5 Hours
March	0	0	0	0
April	2	M / 6 days F / 3 months	Septicaemia ? Cardiomyopathy Inoperable CHD	17 days, died in ICU 2 ½ Hours
May	1	M / 5 months	Post op.	2 days, 7 hours postoperative
June	0	0	0	0
July	1	M / 4 months	GI bleed / Biliary Atresia	5 days
August	1	F / 12 years	Herpetic/Encephalitis	4 days
Sept	1	F / 1 day	Hypoxic Ischaemic Encephalopathy / Home Delivery	12 hours
Oct	0	0	0	0
Nov	3	M / 7 months F / 1 year M / 4 months	?? Septicaemia Strep Septicaemia / Intractable Epilepsy Inoperable Intra-abdominal tumors	Died on arrival 18 Hours 2 days
Dec	1	M / 2 years	Inoperable abdominal tumors	8 days
Total	13			

Special Care Nursery (SCN)

- The total admission to the Special Care Nursery was 229 for 2001 and 53 % of admissions were male.

Admissions to SCN by Gender for 2001

	J	F	M	A	M	J	J	A	S	O	N	D	Tot	%
Female	9	8	6	9	10	10	9	8	8	9	6	10	107	47
Male	9	8	14	7	11	8	15	12	14	9	6	14	127	53
Total	18	16	20	16	21	18	24	20	22	18	12	24	229	100

- The leading cause of admission to the SCN was neonatal jaundice (31 %) with 75 % being attributed to ABO incompatibility which resulted in 6 exchange transfusions.
- Prematurity (19 %) was the second leading cause admission to the SCN. Premature baby's ranges from gestational age of 26 to 36 weeks and with a birth weight of as little as 795 grams. The youngest premature baby to survive was 29 weeks gestation and the smallest was 1200 grams. Fortunately, 93 % of all premature babies this year were in 29 weeks gestation or more with 50 % being 35 to 36 weeks. The smallest premature baby to survive was 980 grams however no baby with a gestation of less than 29 weeks has survived.

Causes of Admissions to SCN for 2001

DIAGNOSIS	J	F	M	A	M	J	J	A	S	O	N	D	TOT	%
Birth Asphyxia	0	0	0	1	1	0	1	0	2	2	0	0	7	3
Congenital Abnormalities	1	2	4	1	0	0	1	1	1	0	0	1	12	5
Hypoglycemia (transient)	0	1	0	1	2	0	1	0	0	0	0	0	5	2
Low Birth Weight <2500g	3	1	2	1	3	3	3	1	3	3	0	2	25	11
Neonatal Jaundice	5	2	5	7	10	6	4	5	8	5	3	12	72	31
Neonatal Fever	0	0	0	2	2	0	4	2	5	4	2	1	22	10
Neonatal Sepsis	1	0	2	2	0	1	2	3	1	1	1	0	14	6
Observation	0	1	4	0	2	1	1	3	2	1	1	1	17	8
Prematurity (<37 weeks)	3	9	2	0	0	6	6	5	0	1	5	6	43	19
TTN	5	0	1	1	1	1	1	0	0	1	0	1	12	5
TOTAL	18	16	20	16	21	17	24	20	22	18	12	24	229	100

- There were 12 (5 %) babies with congenital abnormalities in which 5 had GIT abnormalities and 4 had congenital heart problems.
- There were 11 deaths among babies admitted to the SCN with 4 (36 %) deaths due to extreme prematurity and severe hyaline membrane disease and another 4 (36 %) were due to congenital abnormalities. The other 3 deaths (27 %) were due to septicaemia.
- **The case fatality rate for the Special Care Nursery for 2001 was 48 per 1000.**

8.2.6 The ward identified the following as milestones during the year.

- The case fatality rate for paediatric inpatients declined from 12 per 1000 in 2000 to 9.8 per 1000 in 2001, more than 10% decrease.
- The case fatality rate for the Special Care Nursery babies declined from 54 in 2000 to 48 per 1000 in 2001. It is no doubt that the progress observed in the SCN is attributed to the 2 week neonatal training carried out by Nursing Consultant Jean Bertram.

- Pulse Oximeter was purchased for the SCN and was funded by the Tonga Rugby League.
- The Orthopedic and Plastic Surgery Team visit enabled operations on children with talipes and cleft palates.
- An ARI workshop for Tongatapu and three CDD workshops for Tongatapu, Ha'apai and Vava'u were successfully implemented.

8.3 Surgical Ward

8.3.1 Senior Medical Officer, Dr Samson Mesol and Medical Officer, Dr Paula Vivili are responsible for managing the ward and are supported by 20 nursing and 3 non clinical support staff.

8.3.2 The ward's goal is to provide the population of Tonga with safe, efficient and globally acceptable standard of surgical services within the means of available staff and resources.

8.3.3 The wards objectives are,

Service:

- To continue to provide the people of Tonga with safe, efficient and acceptable surgical services.
- To continue to train more interns as they do their three monthly rotation.
- To continue to train student nurses.
- To conduct regular surgical visits to outer islands especially Vava'u.

Facilities:

- Install sinks in shared rooms in ward.
- Install curtains in shared rooms.
- Purchase office equipment.

8.3.4 880 patients were admitted during the year of which 10 % (95) were diabetic sepsis patients.

8.3.5 There were 10 deaths recorded of which 30 % (3) were from diabetic sepsis. 50 % (5) of the deaths were cancer related. One was a result of motor vehicle accident with severe head injury.

8.3.6 In providing its services the following were accomplished during the year,

- The continued availability of the Hon. Minister of Health Dr Viliami Tangi to provide surgical services in addition to his ministerial responsibilities.
- The ward acknowledges the services of Dr. Charles Butcher who visited in April and October.
- The ward received assistance from the following individuals and teams which visited Vaiola during the year,
 - Interplast, Australia.
 - Dr. Reynolds, Urologist from the United States.
 - American foot team, led by Dr. B. Reese and donations of medical supplies and orthopaedic equipment.
 - Club foot team, organised by the late Dr. Ian Straton, Orthopaedic Surgeon
 - General Surgeons Dr. Gordon Arthur and Dr. Chan from Melbourne, Australia
 - Dr. James Malouf, Orthopaedic Surgeon from the United States.
- Two (2) weeks of no diabetic septic foot on the ward in at least five (5) years was reported.
- Dr Faka'osi Pifeleti, Medical Officer resumed duty in December 2001 upon completing a Masters of Medicine (Surgery) from the Fiji School of Medicine.
- Two surgical visits to Vava'u in May and October whereby 48 surgical procedures were performed including a first ever laminectomy in Vava'u during the October visit.

8.4 Medical Ward

8.4.1 Medical Superintendent, Dr T. Palu is responsible for managing this ward and is supported by 2 medical officers and a complement of nursing staff.

8.4.2 The ward's core functions are,

- Provide a high standard of diagnosis, investigation and treatment of all inpatients.
- Ensure continuity of care at the special clinics where this is required.
- Advise and provide health education to the patients, families and relatives on future care and treatments.
- Develop the capacity and capability of the section in providing a high standard of patient care.
- Ensure treatment outcomes are risk free and the patient continues to enjoy living on discharge from the hospital.
- Provide consultations and advice to inpatients in the other disciplines when required.

8.4.3 The ward's objectives are,

- Provide a high standard of patient care, which is safe, effective and efficient.
- Provide a patient-orientated service.
- Strengthen and promote continuous staff (medical and nursing) education and training especially in medical emergencies, CPR and critical patients care
- Significantly reduce the morbidity and mortality from non communicable diseases particularly Ischaemic heart disease and diabetes mellitus,
- To be constructive and proactive in the future development of the service.

8.4.4 1,301 patients were admitted to the ward during the year and 72 deaths were recorded. 15 cases of malignant cancer were admitted, treated and managed. The following tables depict the leading causes of admission to the ward.

Diabetes Mellitus		
Age	Male	Female
<30	0	2
30 - 39	3	5
40 - 49	10	10
50 - 59	14	26
60 - 69	11	36
70 - 79	14	28
>79	2	4
TOTAL	54	111

Hypertension		
Age	Female	Male
<30	2	0
30 - 39	2	0
40 - 49	4	5
50 - 59	9	10
60 - 69	10	22
70 - 79	10	14
>79	10	2
TOTAL	47	53

Ischaemic Heart Disease		
Age	Male	Female
30 - 39	11	0
40 - 49	7	2
50 - 59	6	10

60 – 69	4	5
70 - 79	8	9
TOTAL	36	26

Cardiovascular Accident		
Age	Male	Female
<50	1	3
50 – 59	5	4
60 – 69	6	1
70 – 79	6	14
>79	1	4
TOTAL	19	26

8.4.5 In provided it services the following were accomplished during the year.

- Dr. Barry Bruns, Locum Medical Specialist worked in Vaiola 05 July to 17 August through the visiting Medical Specialist provisions of the NZODA annual allocation.
- The Medical Superintendent attended the 2nd International Cardiology Congress of South Pacific in Tahiti in May resulted in Tonga's representation in the South Pacific Islands Working Party for Rheumatic Fever and Rheumatic Heart Disease Prevention and Control.

8.5 Obstetrics and Gynaecology

8.5.1 Senior Medical Officer, Dr Semisi Latu is responsible for managing this ward and is supported by 2 medical officers and 18 nursing staff.

8.5.2 The wards objectives are,

- To maintain high standard of patient management
- To strengthen personnel management
- To upgrade technical support available including equipment and instruments.
- To provide appropriate training for medical and nursing staff in order to maintain a high level of knowledge and skills.

8.5.2 The wards functions are,

- To conduct and supervise the antenatal clinic
- To conduct and supervise the gynaecological clinic
- To provide family planning services, including contraception and infertility services
- To provide obstetric care to patients admitted in pregnancy, labour and puerperium
- To provide service to all patients admitted with gynaecological problems

8.5.3 In providing its services the following were accomplished during the year,

- In service training of staff continues to be conducted.
- The ward welcomed back Dr. 'Aivi Puloka, Medical Officer following 5 years Fellowship training in the United Kingdom.
- Introduction of routine scanning between 16-20 weeks gestation.
- Transferal of antenatal clinic to Obstetric Ward from the Public Health Division.
- The ultrasound and Doppler machine have been repaired which significantly improve patient treatment and management.

8.6 Anaesthesia and Intensive Care Unit

8.6.1 Anaesthetist Specialist, Dr. Bernard Tu'inukuafe is responsible for managing these services and is supported by 2 medical officer's and a senior health officer. The section was allocated \$28,000.00 for the purchase of equipment and supplies.

8.6.2 The section's objectives are,

- To ensure a continuous level of high standard anaesthetic services.
- To assist as much as possible in intensive care management.
- Be involved in the continuing education and training of ICU and anaesthetic staff.
- Maintain a high level of equipment, drugs and facilities

8.6.3 The sections core functions are,

- To provide a safe and high standard of anaesthetic services to patients undergoing operative procedures.
- To assist with the intensive care management of critically ill patients.
- To provide pre-anaesthetic and postoperative assessment and care of patients.
- To assist with the resuscitation and transport of critically ill patients.

8.6.4 In providing its services the following were accomplished during the year,

- Medical Officer Dr. 'Alani Tangitau continues his studies leading to a Master of Medicine (Anaesthesia) at the Fiji School of Medicine.
- An adult male patient with severe tetanus was successfully treated and ventilated at the ICU for 6 ½ weeks.
- WHO provided funding for the procurement of 2 new anaesthetic machines for Vaiola Hospital valued at US \$ 90,000.
- The Vaiola Hospital Board of Visitors purchased and donated a ventilator for the ICU valued at NZ \$ 38,000.

8.7 Mental Health

8.7.1 Senior Medical Officer, Dr Mapa Puloka is responsible for managing psychiatric services and is supported by 9 nursing and 12 support staff. The ward was allocated \$ 61,297.00 for the purchase of supplies and equipment.

8.7.2 The sections objectives are,

- Strengthen human resource management.
- To provide 24 hours transport for patients care.
- To upgrade staff competencies by further studies abroad and in-service training.
- To upgrade the existing security section for improved patient management.
- To upgrade medical equipment and office equipment for patient care.
- Amendment or replacement of the existing Mental Health Act 1992.

8.7.3 The functions of the psychiatric unit are,

- To treat and contain acute psychiatric cases and emergencies.
- To treat and rehabilitate chronic psychiatric cases.
- To provide psychiatric care to patients who have suffered institutionalisation and to continue the process of de-institutionalisation.
- To treat and contain forensic psychiatric cases according to the provision of the Mental Health Act 1992.

- To follow-up outpatient cases and to continue Psycho-Social Rehabilitation (PSR).
- To implement an "Open Door Policy" for drop in (revolving door patients) cases with psychiatric problem and respite care.
- To ensure active participation in matters related to Mental Health.

8.7.4 Provided below is a summary of the wards activities during the year.

5 Leading causes of Revolving Door Patient Admissions

Condition	Rank	2001
Schizophrenia	2	30
Bipolar Mood Disorder	1	35
Dementia	5	3
Other Mental Disorder due to Brain damage and dysfunction and to physical disease	3	6
Mental Retardation	5	3
Adjustment disorder	4	4
TOTAL RDP Admissions		93

5 Leading causes Psychiatric Ward Admissions

Condition	Rank	2001
Schizophrenia	1	22
Bipolar Mood Disorder	2	19
Acute and transient psychotic disorder	5	4
Other Non-Organic Psychosis	5	4
Dementia	5	4
Other Mental Disorder due to Brain damage and dysfunction and to physical disease	4	5
Mental and behavioural Disorder due to Psychoactive substance use	5	4
Adjustment disorder	3	8
Manic Episode	5	4
Total Formal Admissions		97
Number of new admissions for 2001		31
Number of re-admissions for 2001		66

8.7.5 In providing its services the following were accomplished during the year,

- Staff Nurse, Miss. Pakapaka Malolo completed a 3 months attachment in mental health (theoretical sessions and practical attachment in community psychiatric rehabilitation) in Auckland, New Zealand.
- Completion of the 3rd stage of Therapeutic Counselling training attended by health personnel and NGOs members. The training was conducted by Miss. Bronwyn Jones and funded by NZODA through its In Country Training programme.
- Celebration of the World Health Day on 7th April in which Mental Health was the theme for the year. This was marked by a parade at Mala'e Pangai in which His Majesty King Taufa'ahau Tupou IV was the Guest of Honour.
- The Mental Health Bill 2001 was passed by the Legislative Assembly and awaits His Majesty's consent in Council.

8.8 Ophthalmology

8.8.1 Senior Medical Officer, Dr Afu Taumoepeau is responsible for managing this specialty service and is supported by a Senior Health Officer and Staff Nurse.

8.8.2 The clinic's objectives are,

- To decrease eye problems within Tonga.
- To provide safe, efficient and effective ophthalmology services to the public.

8.8.3 The Clinics functions are,

- The clinic's primary function is treating and managing patients with ophthalmology problems. Most cases are treated as out patients, whereas major cases such as perforated eye injury and rare cases like glaucoma require hospitalisations.
- Conduct radio health promotion programmes.

8.8.4 4,852 consultations were made to the clinic and the five leading causes were,

Service/Condition	Number
Routine tests	810
Other services	809
Review	672
Diabetic check	430
Conjunctivitis	423

8.8.5 82 major and 42 minor operations were performed by the clinic.

8.8.6 Staff Nurse Mrs. Meleane 'Eke participated in a 10 week ophthalmology training programme in Lae, Papua New Guinea and can now identify and treat routine cases presented to the Clinic.

8.9 ENT Clinic

8.9.1 Senior Medical Officer, Dr Lei Saafi is responsible for managing this specialty service and is supported by a Medical Officer and a Staff Nurse.

8.9.2 The clinic's objectives are,

- To provide safe, adequate, efficient and effective ENT services to all patients seeking treatment
- To extend coverage to the outer island health districts

8.9.3 The clinic's primary functions are,

- Conduct outpatient clinics on Tuesdays, Wednesdays, Thursdays and Fridays.
- Provide inpatient care for patients.
- Perform ENT operations every Monday and provide post operative care for patients.

8.9.4 3,268 consultations were made to the clinic and the five leading causes of complaints were,

Condition	Number
Wax impaction	556
Otitis media (chronic suppurative)	490
Otitis media (all kinds)	315
Otitis media (serious or glue)	270
Sinusitis	118
Eczema	118

8.9.5 141 ENT operations were performed with 73 major and 68 minor cases.

8.9.6 In providing its services the following were accomplished during the year,

- Successful major nasal reconstruction and total nasal reconstruction operation for two patients.
- Successful total laryngectomy and permanent tracheostomy operation for a patient.
- Successful enbloc excision of parotid tumor and radical neck dissection operation for a patient.

8.10 Emergency and General Outpatients

8.10.1 Senior Medical Officer, Dr 'Akanesi Makakaufaki is responsible for managing this section and is supported by 4 medical officers, 2 health officers, 15 nursing staff and 6 non clinical support staff. The section was allocated \$ 32,447.00 for medical supplies and \$ 5,000.00 for non-clinical supplies.

8.10.2 The section's objectives are,

- To improve the quality of services for patients seeking Emergency and Outpatient care.
- Undertake renovations to improve delivery of services.
- To acquire a fully equipped ambulance.
- To upgrade the communication system and secure a dedicated emergency line.
- To recruit and train designated ambulance drivers to provide 24-hour coverage for the ambulance.
- To provide on going first aid education for the community.
- To provide on going training for staff.

8.10.3 The section has two core functions,

- Provide In-hospital Emergency and Outpatient Services.
- Provide Pre-hospital Emergency Ambulance Services.

8.10.4 Pre-Hospital Emergency Ambulance Services

- The purpose of this service is to respond promptly to medical emergencies, provide specialised medical skills to maintain life and to reduce injuries at the scene prior to transporting to a health care facility as appropriate.
- The performance indicators used to assess the efficiency and effectiveness of this service are:
 - Dispatch time: time between the receipt of the call to the ambulance leaving the station.
 - Response time: time between the receipt of the call to arriving at the scene.
- A review of our dispatch and response time shows there is still plenty of scope for improvement in our performance.

8.10.5 In-Hospital Emergency and Outpatient

- This service involves the triage of patients seeking care and is managed according to their triaged categories (1 to 5) as used by the International Triage Scale. Category 1 represents life threatening conditions requiring immediate attention and category 5 represents non-urgent problems that can wait a few hours before being seen.
- Performance indicators for our performance in these areas are:
 - Patient waiting time before been attended.
 - Compliance with the International Triage Scale Guidelines.

8.10.6 The table summarises the six main services provided by the department.

Services	Number
Consultation	60,606
Admissions	4,030

Minor Operations	1,020
Dressings	13,782
Emergencies	793
Nebuliser	4,855

- The statistics indicate a marked decrease in the number of consultations and admissions, which constitute the main bulk of the workload, however there was an increase in the number of emergencies, dressings and minor operations performed. The table reflects the trends for the last six years.

Year	Consultations	Admissions	Dressing	Nebulisation	Minor Operations	Emergencies
2001	60,606	4,030	13,782	4,855	1,020	793
2000	71,049	4,445	13,029	4,065	1,044	731
1999	62,789	4,144	41,674	3,789	1,127	415
1998	67,636	4,188	43,992	6,128	744	396
1997	61,992	3,586	31,092	5,255	600	381
1996	61,853	3,095	29,667	4,798	627	503

8.10.7 In providing its services the following were identified as milestones,

- Dr. Makakaufaki and a Consultant conducted a nationwide training in Basic First Aid during May and June. Participants were from the Ministry of Health, other government departments and the general community. The training was the first of its kind to be implemented by the Ministry and was a success. The Consultants visit was made possible through NZODA's In Country Training initiative.
- Dr. Makakaufaki was appointed a member of the National Traffic Safety Committee responsible for drafting policies related to traffic safety with the objective of reducing morbidity and mortality from road traffic accidents.
- The Renovation of the Triage station and patient bay was completed. This was fully funded by the Nuku'alofa Rotary Club and officially commissioned by the Minister of Health.
- New equipment has been purchased and is now used by the department. These are, baby-weighing scale, wall unit of diagnostic set, an oximeter monitor and ECG machine (10 channels).
- The Ambulance Bay was constructed in conjunction with the Ministry's Garage and was funded by the Ministry of Health.

CLINICAL SUPPORT SERVICES

8.11 National Centre for Diabetes and Cardiovascular Diseases

811.1 Medical Superintendent Dr Taniela Palu is responsible for managing the Centre and is supported by 2 Nutritionists and 3 Nursing Staff. The section was allocated 5000 for non-clinical supplies.

8.11.2 The Centre's principle objective is,

- To prevent or delay the onset of and complications from cardiovascular diseases and diabetes, and to improve their management, leading to longer and more productive lives through
 - The establishment of national policies for the integrated prevention and control of cardiovascular disease and diabetes
 - Development and implementation of integrated strategies for the prevention of cardiovascular disease and diabetes, with emphasis on primary prevention and promotion of healthy lifestyles
 - Increased community-based early detection and control of cardiovascular disease and diabetes

- Strengthening of the management of cardiovascular diseases and diabetes and their complications (tertiary prevention)
- The establishment and strengthening of appropriate epidemiological surveillance and monitoring for cardiovascular disease and diabetes and their risk factors.
- Strengthen the development of human resources and research for the prevention and control of cardiovascular disease and diabetes.
- Maintain and strengthen the working partnership with the Australian Centre for Diabetes Strategies at the Prince of Wales Hospital.

8.11.3 The Centre's functions are,

- Provide advise on diabetic treatment to other hospitals and health centersProvide education and training for health workers on diabetes and associated NCD
- Work closely with the Public Health Division on prevention strategy relating to diabetes and NCD risk factors intervention and management
- Advise the Hon. Minister of Health and Director of Health of the National Plan for the Prevention and Control of diabetes mellitus and Cardiovascular Diseases
- Provide advice to other Ministries on issues relating to diabetes and cardiovascular disease through the National Food and Nutrition Committee, Ministry of Education, Women's Association and NGO
- Work closely with the Australian Strategies for Diabetes Prince of Wales Diabetes Centre in AustraliaServe as a referral center for diabetes and cardiovascular diseases.

Service	Number
Total Diabetic Patient Register	1808
Male patients	708
Female patients	1062
Diabetic patient deaths	34
Below the knee amputations	5
Fore foot amputations	3
Toe amputations	2

Diabetic Centre Monthly Activities for 2001

Month	Follow Up	Refill/ Rebook	Screening	New Cases	Dental Cases	HbA1c	Dressing	Total Attendance
January	497	283	34	15	59	0	361	1249
February	576	182	24	12	30	0	348	1172
March	826	185	58	21	43	0	357	1490
April	617	174	28	10	28	2	288	1147
May	684	250	34	11	29	4	301	1313
June	607	199	24	8	39	0	202	1079
July	614	284	33	15	47	1	246	1240
August	649	298	43	15	61	67	326	1459
September	625	232	40	17	50	136	265	1365
October	685	227	33	15	40	45	259	1304
November	618	188	44	7	28	66	196	1147
December	607	133	18	8	25	5	353	1149
Total	7605	2635	413	154	479	326	3502	15114

Monthly Diabetic Wound Dressing for 2001

Month	No of Dressings	New Cases	Admissions from Diabetic Centre	Total Admissions to Surgical Ward
Jan	30	18	1	11
Feb	29	16	1	12
Mar	29	27	4	12
April	21	7	2	4
May	27	7	0	4
June	26	12	3	5
July	29	9	2	4
August	24	5	0	9
September	26	6	1	2
October	28	19	2	15
November	24	7	1	6
December	20	5	1	12
Total	312	93	18	96

8.11.4 In providing its services the following were identified as milestones,

- Conducted First Annual Strategic Planning Workshop on 27 and 28 November for the AusAID funded Tonga Diabetes and Cardiovascular Disease Control Programme.
- The 3 year program focuses on increasing Tonga's capacity to prevent and manage diabetes and cardiovascular diseases through improving organisational, management and operational structures and approaches.
- Two workshops for on the Care of Diabetic Patients for medical staff were conducted in Tongatapu and 'Eua which were conducted funded by AusAID and WHO respectively. The training in 'Eua was followed by public screening for diabetes and hypertension.
- The Hospital Board of Visitors donated a portable DCA analyzer ensuring tests can be conducted during visits to the outer islands.
- A television and video set were donated by the Chinese Embassy and British High Commission for patient education.
- Development of Diabetes Database Register by the Australian Youth Ambassador for storage of patient information.
- Two staff from the Centre attended the Australia Annual Diabetes Conference in September, Queensland, Australia.
- Duty visits to Ngu and Niu'ui Hospitals by Physician In-charge and 1 Nutritionist.

8.12 Nutrition

8.12.1 Nutritionist, Miss. Elisiva Na'ati is responsible for managing the section and is supported by Nutritionist, Miss. Soana Muimuiheata.

8.12.2 The section's functions are,

- Provide special care for all inpatients and outpatients with diet related problems
- Provide advise on nutrition related matters to the public
- Provide education and training for all health workers on nutrition related matters
- Work closely with the Public Health Division on health promotion activities
- Provide advice to other Ministries on nutrition matters through the National Food and Nutrition Committee, Ministry of Education and non governmental organizations
- Liaise with any other parties regarding nutrition related matters

8.12.3 The section's objectives are,

- To develop and implement integrated strategies for the prevention of non-communicable diseases with emphasis on health promotion and healthy lifestyles.
- To increase community awareness of risk factors and to decrease the incidence of non-communicable diseases
- To strengthen patient education to outpatients and inpatients
- To enhance and maintain nutritional status of patients

8.12.4 The following services were delivered during the year.

Service	Number
Consultations (Outpatients)	
Diabetic clinic	181
Consultations	6,500
Consultations (Inpatients)	
Diabetic/hypertensive/hypercholesterolemics	38
Tube feed	10
Malnutrition	3
Dental cases	8
GDM	12

8.12.5 A Diet Clinic operates on Tuesdays and Thursdays and follow up of diabetic patients is performed daily and inpatients are seen as referred. Staff provide lectures for the Basic Nursing Programme and Nutrition courses offered by the Community Development and Training Centre of the Ministry of Education.

8.12.6 The following were identified as milestones during the year,

- The analysis of National Nutrition Survey conducted in 1998 and 2000 was completed.
- Coordinate and facilitated workshops on Management of Obesity for doctors and the community.
- Conducted workshops in 'Eua and Tongatapu on the Nutritional Care of Diabetics.

8.13 Laboratory

8.13.1 Dr Siale 'Akau'ola, Senior Medical Officer is responsible for managing this section and is supported by 26 technical, 2 clerical and 4 support staff. \$ 75,000 was allocated to the laboratory to fund its various activities and is been increased by \$ 12,000.00 from the previous financial year.

8.13.2 The sections mission statement is;

- The laboratory services seeks to satisfy its customers through the provision of high quality, cost-effective services in all areas, and the standard of such services, to comply with or exceed all widely accepted ethical and professional principles as embodied in any accreditation criteria, that may, at some time, apply in Tonga.

8.13.3 The section's objectives are,

- To comply with the laws and statutes of the Kingdom of Tonga.
- To hold current accreditation when available. To use comprehensive Quality Control checking and authorization systems to ensure validity of results and services.
- To ensure timely results, information and products which meet the customer's requirements.
- To create and maintain a working environment which is safe and conducive to maintaining the interest and motivation of the staff.

- To use every problem identified as an opportunity for improvement.

8.13.4 Provided below is a summary of services provided by the Laboratory services during the year.

- The total number of tests performed (176,192) is higher compared to the 1997-1999 periods. This increase occurred in spite of many laboratory staff going on prolonged special/study leave and retirements and reflects that there is increased workload placed on the remaining laboratory staff.
- The number of tests referred overseas is slowly decreasing as compared to previous years and can be attributed to limited budget allocated, doctors foregoing sophisticated laboratory tests or a direct result of laboratory efforts to save money by reducing unnecessary overseas referral of specimens. 636 tests were sent abroad in 2001 at a cost of more than \$10,000.00.
- It is encouraging to note of the 2,046 HIV tests performed no positive results were returned.
- A similar reduction with regards to Hepatitis B positive cases with an 8 % reduction in comparison with previous years. This reduction can be attributed to factors, the use of questionnaires to screen lower risk blood donors and a positive effect of the Hepatitis B vaccination programme.
- 18 positive sputum for Tuberculosis was recorded out of 364 tested.

8.13.5 In providing its services the following have been identified as milestones,

- A WHO funded Workshop on Blood Safety was conducted in December and was attended by all laboratory staff throughout Tonga.
- The workshop resulted in the formulation of a Strategic Plan for Blood Transfusion and a booklet entitled "Clinical Use of Blood and Blood Products" was drafted for distribution in 2002.
- The draft of the "Laboratory User's Handbook" is nearing completion for distribution to customers in 2002.
- The laboratory service continues to develop its Quality System and Manuals should be reviewed and audit by the Pacific Paramedical Training Centre in New Zealand before its use in 2002.
- The laboratory section received the following awards during the year, Vaiola Hospital Infection Control prize, Tonga Health Project award on Excellence in Management Improvement and best Aerobics Team during the Ceremony to mark the World Diabetic Day.
- Agreement has been reached between the Ministry's of Health and Police for privatisation of medico legal laboratory tests requirements.
- Dr. Siale 'Akau'ola, was recruited by WHO as a Short Term Consultant in Parasitology in Tahiti, Solomon Islands, Vanuatu, Fiji, Niue, Tuvalu, Federated States of Micronesia and the Marshall Islands.
- The laboratory was involved in an Intestinal Helminthes Survey conducted by WHO; as part of their Healthy Island Initiative.
- A team of Consultants from CHATA in Australia visited the laboratory as part of efforts to improve the WHO and SPC Tuberculosis Control Program in the Pacific.

8.13.6 Staff attended the following local and overseas training during the year.

- Mr. Sitanilei Hoko, Laboratory Technician Grade I was awarded a WHO scholarship to undertake training towards a Bachelor in Medical Laboratory Science at Massey University, in New Zealand.
- Mrs. Ane Ika, Principal Microbiologist attended a WHO Training Course on Health Research and Methodology at Nadi, Fiji, 30 June to 14 July 2001.
- Miss. Telesia Talia'uli, Medical Scientist, attended a WHO, EQAS workshop in Melbourne, Australia from 9 Oct. – 18 Oct. 2001.
- The training course for the 5 Assistant Laboratory Technicians commenced in February and will be completed by March 2002 and is funded by WHO.
- Dr. Siale 'Akau'ola, attended a one week workshop on Blood Transfusion in Shanghai, China coordinated by the International Blood Transfusion Society and funded by WHO.

8.14 Radiology

8.14.1 Dr 'Etika 'Akau'ola, Senior Medical Officer is responsible for managing this section and is supported by 1 Medical Officer, 14 technical, 1 clerical and 1 support staff. The section was allocated \$35,000.00 for implementation of its services.

8.14.2 The section's primary function is to provide radiological diagnostic services to clinicians and the public.

8.14.3 The section's objectives are,

- To provide staff knowledge and skills.
- To provide good quality films and ultrasound reports to medical officers.

8.14.4 In providing its services the following are noted as milestones,

- Dr 'Edgar 'Akau'ola completed a 1 year programme in radiology training at Otago University in New Zealand.
- Mr. 'Ofa Ketu'u, Assistant Radiographer Grade I completed a 3 month radiology attachment in Japan. Mr Teputepu Laiseni, Radiographer completed a 1-month at St. John of God Hospital, Ballarat, Victoria, Australia.
- The 2-year Assistant Radiographer Training Programme was completed with 3 graduates.

8.15 Pharmacy

8.15.1 Principal Pharmacist, Mrs. Melenaite Mahe is responsible for managing this section and is supported by 27 established staff and 1 daily paid employee. \$ 1,361,384.00 was allocated to the section during for financial year whereby \$ 900,000.00 was allocated for the purchase of pharmaceutical drugs and \$ 206,193.00 was allocated for medical supplies.

8.15.2 The section's objective is to,

- Ensure good quality, effective, and safe essential drugs and medical supplies are available all the time to the people of Tonga and they are used rationally.

8.15.3 The sections principal functions are to,

- Ensure proper selection of drugs and medical supplies through the Drugs and Medical Supplies Committee
- Procure those selected, store and distribute according to the need of the Ministry of Health.

8.15.4 The Drugs and Medical Supplies Committee continued to meet to discuss issues related to drugs and medical supplies and the National Drug Policy were amongst those matters discussed as well as supply problems.

- The section produced 13,978 litres and 363 kilograms of oral, dermatological and extemporaneous preparations at a cost of \$ 40,120.00. 60 % of these preparations were distributed to hospitals and 12 % to health centres.

Production Output for 2001

Item	Batches	Total	Cost
Oral preparations	229	12027 litres	\$31,244.06

Dermatological preparations	118	a)1888 litres b)360 kg	\$7,494.92
Extemporaneous Preparations	385	a)62.53 litres b)2.3 kg	\$1,380.50
Total	732	a)13977.53 litres b)362.3 kg	\$40,119.48

8.15.5 Vaiola Hospital Pharmacy

- Vaiola Hospital Pharmacy is staffed by Pharmacists and is open to the public from 8:30 a.m. to 12:00 p.m. seven days a week.
- Vaiola Hospital Pharmacy is responsible for ensuring that drugs are supplied in accordance the Ministry's regulations.
- Vaiola Hospital Pharmacy performs outpatient and inpatient dispensing and Vaiola Hospital is allocated two ordering days a week to replenish stock.
- Staff participate in monthly visits to Mu'a and Kolovai Health Centres and dispense level 3 drugs that are not in stock at the Health Centre.

Prescription Record for Vaiola Pharmacy for the Year 2001

Month	AM shift				OPD		PM shift			
	Prescription	Items	Repeat	Ward	Prescription	Items	Prescription	Items	Repeat	Ward
Jan	6021	5854	401	784	652	1015	3821	6614	124	399
Feb	7817	10716	412	831	826	1530	5267	9423	44	353
Mar	5953	11588	515	733	843	1141	4586	7972	99	432
Apr	5146	7651	355	813	1328	3700	3929	5408	129	385
May	5777	8331	469	787	409	718	4195	3058	287	366
Jun	5179	7841	426	678	784	1461	3565	6125	182	424
July	6559	10055	461	821	607	924	3974	5473	139	354
Aug	5991	10276	525	1037	658	1368	4317	7331	137	388
Sept	5995	10031	522	654	614	1165	3935	8005	127	322
Oct	5778	9935	1281	871	560	1032	4117	7050	639	350
Nov	5064	9201	774	857	660	984	3559	5890	221	318
Dec	4688	7987	583	563	748	1301	3064	5273	400	338
Total	69748	113086	6727	13323	8689	16319	48129	82622	2568	4459

The table above indicates 55 % prescriptions were dispensed during normal working hours, 38 % during the afternoon shift and 6.8% were dispensed by Nurses during the night shift. The afternoon shift showed a slight increase in the number of patients whilst the morning indicated a decrease and reflects the publics knowledge the service is available.

8.15.6 Ngu Hospital Pharmacy

Two Assistant Pharmacist Grade II are assigned to Ngu Hospital and the Pharmacy opens from Monday to Friday from 8:30 a.m. to 12:30 p.m. and from 8:30 a.m. to 12:30 p.m. on Saturday.

8.15.6.1 Ngu Hospital Pharmacy objectives are to,

- Provide pharmaceutical services to the people of Vava'u
- Provide services to health centres and deliver health education during clinic days as well radio programmes.

8.15.6.2 The officers do not only limit their activities to inpatient and outpatient dispensing but are also involved in health education, home visits and participate in community based clinics. Their involvement ensures

drug information is disseminated to the public particularly its rational use. Home visits ensure patients are provided with accurate as well as ensuring compliance.

Ngu Hospital Prescription Record for 2001

Month	No Charge	Items	Ward items	Charged	Items	Costs	OPD	Items	Total	Items
Jan	2918	4811	599				1893	3921	4811	8732
Feb	2690	4189	568	2	4	57	1829	3921	4521	8114
Mar	2831	4748	553	3	5	70	1924	3788	4758	8580
Apr	1525	3584	520				1622	3644	3147	7228
May	2197	4213	537				1295	3185	3492	7398
June	2895	5121	604	2	5	94	2036	4044	4933	9170
July	2456	4296	526	1	1	30	1779	3818	4236	8115
Aug	3183	5822	627				2257	4902	5440	10724
Sept	2325	3945	461	5	16	316	1806	3519	4136	7480
Oct	2225	4013	397	2	3	80	1498	2812	3725	6828
Nov	2113	3309	516	3	6	105	1698	3193	3814	6508
Dec	1502	2856	362	1	3	50	1243	2290	2746	5149
Total	28860	50946	6270	19	43	802	20880	27012	49759	94026

8.15.7 Niu'ui Hospital Pharmacy

- A single Assistant Pharmacist Grade II is responsible for the operation of the Niu'ui Hospital Pharmacy.

Niu'ui Pharmacy Prescription Record for 2001

Month	No Charges	Items	Charged	Items	Costs	Repeat	Wards	OPD	Items
Jan	1605	3976	1	3	45	64	287	479	760
Feb	1430	2412				76	254	376	686
Mar	1474	2711	1	2	21	60	390	583	1092
Apr	1421	2542				72	353	318	726
May	1557	2825	2	6	125	67	285	440	860
June	1432	2611				76	223	348	748
July	1311	22712				86	286	335	776
Aug	1567	2826				65	252	432	729
Sept	1278	2172				72	282	430	712
Oct	1647	3726	2		64	78	284	475	826
Nov	1849	3998	1	2	12	74	369	699	1211
Dec	1830	3979				102	420	528	1127
TOTAL	18401	36049	7	13	267	822	3685	5161	10253

8.15.8 Niu'eiki Hospital Pharmacy

- A single Assistant Pharmacist Grade II is responsible for pharmaceutical services at Niu'eiki Hospital. Nurses dispense after hours and weekends.

Niu'eiki Hospital Prescription Record for 2001

Month	Normal hours	After hours	Clinics
Jan	936	532	93
Feb	1611	516	187
Mar	1879	525	302
April	1951	408	92
May	1654	417	112
June	1368	305	82
July	1756	412	175

Aug	2021	491	119
Sept	2351	515	94
Oct	1748	568	76
Nov	852	600	95
Dec	364	622	56
Total	18491	5911	1483

8.15.9 Central Pharmacy and Medical Store Dispensing

- Level 4 drugs are dispensed from the Central Pharmacy to ensure close monitoring. A summary of the main items dispensed were,

Item	Number
Prescription	10,212
Items dispensed	14,082
Salbutamol inhalers	2,691
Beclomethasone inhalers	745
Isophane insulin vials	281
Soluble insulin vials	43
Mix insulin	834
Repeat prescriptions	2,179

8.15.10 In providing its services the following are noted as milestones,

- Principal Pharmacist, Mrs. Melenaite Mahe completed a Postgraduate Diploma in Pharmacy from the University of Otago.
- Mrs. Leva'itai 'Otutaha and Miss. Losaline Titiuti both Assistant Pharmacist Grade II commenced their 3 year Diploma of Pharmacy programme at the Fiji School of Medicine.
- Mr. Sosaia Pifeleti, Pharmacist Graduate attended a Drugs Therapeutics Workshop in Malaysia sponsored by WHO.
- WHO Consultant Mr. Truls Erickson visited Tonga to assist the pharmacy with the Essential Drug List.
- It is with regret to record the loss of a fellow employee Mr. Nioso 'Aholelei, Assistant Pharmacist Grade II who passed away on 8th June after a short illness. Mr. 'Aholelei joined the service on the 16th of June, 1981 and has been assigned to various hospitals throughout the country. Mr. 'Aholelei was a dedicated staff member and contributed immensely to the pharmacy's services and will be dearly missed by colleagues.

Physiotherapy

8.16.1 A single Physiotherapist, Ms. Lesieli Funaki manages this section. The section was allocated \$ 5,000.00 for administrative equipment, stationery and a small amount of treatment materials from overseas.

8.16.2 The section's objectives are,

- To maintain current level of service to hospital inpatients and outpatients.
- Provide services to sporting teams as a representative of the Ministry.

8.16.3 The primary function of the section is to,

- Assess, plan, schedule and implement the appropriate physiotherapeutic treatment for both in-patients and outpatients. Treatment is aimed at optimising the clients physical functional level. The clientele includes orthopaedic, cardiothoracic, medical, neurological and paediatric cases.

- Education of both patient and their family members is a major part of the patient's physiotherapy management, to ensure self treatment and management of the condition is carried after discharged or out patient treatment.

8.16.4 The number of patients seen in the past year is represented in the below table (please see Appendix A attached for the month by month breakdown of figures). Note that the number of patients seen differs from the number of treatment sessions given due to multiple treatments required for some patient conditions.

Year	Total No. of Patients Treated	Total No. of Treatment Sessions
2001	644 502 out patients 142 in patients	1368

8.16.5 Of the total number (644) of patients seen, 372 clients were first time attendants to the clinic. Each patient received approximately two or three treatment sessions, with variation depending on severity of condition.

8.16.6 The majority of in-patients treated were neurological cases such as cardiovascular accidents, cardiothoracic conditions, orthopaedics and paediatrics. The outpatient data indicates the majority of cases treated were musculoskeletal in nature, such as sporting and back injuries, paediatric cases of talipes.

8.16.7 The following activities were accomplished during the year.

- The Orthopaedic Surgical team visited in the latter half of the year, treating talipes cases.
- As the only Physiotherapist for following events were attended, South Pacific Mini Games, Norfolk island in November Under 16's Soccer National Talent Identification Championships, Sydney in October The Oceania qualifying rounds for the World Cup Soccer Tournament, Sydney in April
- Sports medicine workshops, Auckland in March, May and June
- Support of local sports activities for the Tonga Amateur Sports Association, sports medicine segment for MBF Rugby Television Programme and the National Rugby Boot Camp.

NON CLINICAL SUPPORT SERVICES

Hospital Administrator, Mr. Viliami Moale is responsible for the supervision on non-clinical support services at Vaiola and includes Hospital Security, Laundry, Seamstress, Hospital Grounds Maintenance, Domestic and Telephone Communications.

8.17 Hospital Security

8.17.1 The section consists of 4 staff and its objective is to maintain peace and order throughout Vaiola Hospital 24 hours a day 7 days a week.

8.17.2 In providing its services during the year the following were accomplished,

- The section's responsibilities were expanded to include the 2 hourly thermostat and temperature of the coolers in the mortuary.
- A significant milestone is the provision of uniforms and identification badges for all staff of the section.

8.18 Laundry

- The section consists of 3 Laundrymen and 7 Laundrymaids with the Laundry Supervisory posts being vacant.
- The sections objective is to ensure all laundry requirements for Vaiola Hospital and Health Centres are carried out in an efficient and cost effective manner. Thus its primary responsibility is the washing, ironing and labeling of all hospital linen.

8.19 Seamstress

- This section employs a Seamstress Supervisor and 3 Seamstress and its functions and objectives are to provide all sewing requirements of the Ministry and covers Vaiola Hospital and the 7 health centers on Tongatapu, Niu'ui and Niu'eiki Hospital. The section was most fortunate to acquire a industry sewing machine.

8.20 Hospital Grounds Maintenance

- The section employs 5 Groundsmen and its principle function is to ensure the cleanliness of Vaiola Hospital and the 7 Health Centre grounds on Tongatapu.

8.21 Domestic

- The section is responsible for the cleanliness of all wards and offices at Vaiola Hospital to maintain an environment which is clean and hygienic for patients and staff. The section employs 12 Wardsmaids and 8 Orderlies.
- In providing its services during the year the following were accomplished,
 - All staff were provided with new uniforms which has significantly improved staff morale.
 - The introduction of shift work has enabled staff to spend more time with families.
 - Equipment and consumables were replaced thus improving performance.

8.22 Telephone Communications

- The Senior Telephone Operator is supported by 4 Telephone Operators. The sections primary responsibility is to facilitate efficient and effective local and international telephone communications on a 24-hour basis.

8.23 Maintenance

8.23.1 Hospital Engineer, Mr Tu'ifua Taumoefolau is responsible for managing this section and is supported by 19 staff. The section was allocated \$177000.00 for the implementation of its services.

8.23.2 The section's objectives are,

- To improve preventive maintenance of facilities and equipment
- To improve efficiency of steam system
- To submit proposal for improved workshop working conditions
- To implement planned maintenance for all facilities and equipment
- To stock most vital spares
- Improve maintenance request system
- Submit proposal for continued in country training.

8.23.3 The section's functions are,

- Sourcing and procurement of equipment and spare parts from overseas
- Commission and decommission equipment
- Provide engineering maintenance for equipment and facilities
- Perform minor alterations to facilities
- Prepare proposals for improvement of equipment and facilities

8.23.4 The Vaiola Hospital Oxygen Plant produced 1700 large cylinders (G Size, 8300 litres) during the year indicating a marked increase in production levels and reflects the increasing demand for oxygen. As a result, a project proposal is been developed for the construction of a larger plant to cope with the increasing demand.

Year	Number of large oxygen cylinders produced	Number of large oxygen cylinders purchased	Total Number of large oxygen cylinders supplied
1997	534	NA	NA
1998	920	NA	NA
1999	1325	NA	NA
2000	1272	52	1324
2001	1700	42	1742

8.23.5 The Vaiola Hospital Steam Boiler used a total of 98,393 litres of diesel. The increase from previous years is due to the aging of the steam system and therefore becoming increasingly inefficient.

Year	Boiler fuel (Diesel) consumption, litre
1999	94559
2000	67696
2001	98393

8.23.6 In providing its services the following were identified as milestones during the year.

- The section commenced recording the mains water consumption of Vaiola Hospital. Between seek 33 and 46 the average water consumption per week was 1.16 megalitres, which resulted in an average water bill of \$ 5,197 per month.
- A preventive plumbing maintenance programme was implemented in week 47 and the average water consumption decreased by 22 % from 1.16 megalitres to 0.90 megalitres per week and represents a reduction of water bill to an average of \$ 4,032.00 per month.
- This reduction in water consumption was largely due to repairs to damaged and old underground piping and at the same time attention to repairing of leaking taps and toilets is carried out.
- Establishment of an emergency stock of oxygen cylinders, which is stored in the northern end of the corridor of Paediatric Ward. When oxygen is urgently needed the emergency stock can be utilized instead of a vehicle having to pickup the Oxygen Plant Operator for supply of more oxygen.
- A service trolley for the biomedical unit has been completed which comprise of tools, spares parts and service manuals. The trolley greatly improves the efficiency of providing planned maintenance on equipment in the hospital.
- In July Miss. Jennifer Richards commenced six months work as a Technical Clerk with the section through the Australian Youth Ambassador programme. Her primary responsibility is to compile a comprehensive register of both medical and hospital equipment and be part of a computerized equipment preventive maintenance program that would contribute to improved equipment management and maintenance.
- In August STA Terry Regan visited both Ngu and Vaiola Hospital. Terry and Feleti Eke installed the new replacement X-ray tube and the X-ray is now operational. Terry also attended to other equipment problems at Ngu and Vaiola.

- The maintenance staff contributed to building the garage in the following areas,
 - Ccabling of electrical supply from the Nurse's Home
 - Installing of gutters and laying rain water pipes to toilet tankIncreasing the height of the gates
 - *Sewage Pond.* The sewage plant compound fence was replaced and pond has been repaired.
 - *Mortuary cooler.* The control unit for cooler No. 1 has been replaced and is now operational.
- Security officers are responsible for monitoring these temperatures every 2 hours to ensure the proper operation of the coolers.

9. NURSING SERVICES

9.1 Management

9.1.1 Chief Nursing Officer Ms. Kafo'atu Luani is responsible for the efficient and effective management of the nursing division.

9.1.2 The division's goal is to contribute to the health of the nation through the provision of the best possible nursing care services.

9.1.3 The division is made up of three sections,

1. Hospital Nursing
2. The Queen Salote School of Nursing
3. Public Health Nursing

9.2 Vaiola Hospital Nursing

9.2.1 Matron, Mrs. Valoa Fifita is responsible for the management and administration of this section and is supported by 3 Senior Nursing Sisters and 160 nursing staff.

9.2.2 The section's objectives are,

- Provide quality nursing care to inpatients outpatients and clinic patients.
- Strengthen infection control within the hospital
- Strengthen quality control
- Strengthen staff development
- Familiarise staff with program budgetingComputerize nursing information

9.2.3 The section's functions are,

- Raise standard of hospital nursing services
- Update staff skills and knowledge by giving regular in-service education
- Upgrade nursing instrument, equipment and hospital linens
- Conduct post basic nursing programmesReview hospital nursing procedures and policies

9.2.4 \$ 15,000.00 was allocated to the section and was utilised for the purchase of uniforms for nursing and domestic staff and linen requirements for hospitals, health centres and MCH/FP clinics.

9.2.5 Nurses continue to pursue local training, formal courses and attachments abroad,

- In-service education for all nursing staff, Sisters weekly meetings and monthly ward meetings.
- Four staff nurses are pursuing studies leading to the award of a Bachelor of Nursing degree.

- Sister S. Soakai attended the Australian Diabetes Education programme in Australia.
 - Staff Nurse M. Eke attended the Primary Eye Care training at Papua New Guinea for 10 weeks.
- 9.2.6 15 nursing staff proceeded on vacation leave, 9 were on study leave, 5 were on special leave, 5 were on pension and 9 resigned during 2001.
- 9.2.7 The continuing migration of nurses abroad poses potential problems with regard to the delivery of quality nursing care services to hospital in-patients.
- 9.2.8 The section acknowledges the continued assistance by the following organisations and individuals, To Her Majesty Queen Halaevalu Mata'aho and Church leaders for donation of food stuff for in-patients. Vaiola Hospital Board of Visitors continues their financially help and support to the Hospital.

9.3 Queen Salote School of Nursing

9.3.1 Mrs. Lata Malu, Principal, Queen Salote School of Nursing is responsible for the management and administration of the School and is supported by 7 nursing education staff.

9.3.2 The Schools objectives are,

- To upgrade all QSSN staff to degree level in preparation of implementation of the Diploma of Nursing programme.
- To upgrade physical facilities at QSSN to sufficiently accommodate offices for tutors, extra classrooms, a science laboratory, nursing science, laboratory, library, staff common room with rest room facilities.
- To direct and evaluate nurses distance education programme.
- To incorporate all nursing training under the direction of the QSSN and to increase teaching staff appropriately.
- To negotiate and procure a vehicle for the schools and student requirements.
- To upgrade and equip the hospital wards as support service for student learning. To develop and maintain clinical preceptorship

9.3.3 The Schools functions are,

- To recruit and prepare suitable nursing candidates each year for effective care delivery to the population of Tonga by,
 - Developing the full potential of the nursing student to enable her/him to apply the knowledge and skills in exercising her/his independent, dependent and interdependent roles and functions in varied work settings.
 - Initiating a programme that will develop articulate faculties, inquiring minds, attitudes and competence of mastery level necessary for nursing practice.
 - Directing education to utilize physical, medical and social sciences and humanities as foundations for learning the art and sciences of nursing.
 - Developing appropriate instructional strategies to cope with individual differences of the learner for different skills and at varied time and settings.
 - Aiming student evaluation at developing the student's full potentials as nurse practitioners.
 - Providing continuous process of curriculum development/review, based on assessment of its effectiveness and efficiency in developing students for the practice of nursing in Tonga.
 - Work in collaboration with nursing sections in the ministry to develop and implement acceptable nursing standards of practice for registered nurses in the Kingdom of Tonga.

- To provide educational support for hospital ward staff and community health nurses through collaboration of nursing sections to conduct distance education, in-service training and post-basic courses.

9.3.4 The School was allocated \$1,500.00 for implementation of its various activities during the year. The School purchased computer equipment and accessories through financial assistance from WHO.

9.3.5 The School conducted, facilitated or attended the following meetings and workshops.

- Workshop on Distance Education by Radio. 16-29 May. Coordinated by the School and WHO Consultant Professor Perlita Manalili. Participants represented hospital nursing, public health nursing, health education, mental health, dentistry, Ministries of Education, Agriculture and Family Health Association.
- In-Service Training Programme for Clinical Nurses, Vaiola Hospital 24-28 September.
- Clinical Nurses Workshop on nursing students Policies and Procedures 9-12 April and 17-18 April.
- The workshop objectives were to review Nursing Policies and Procedures, Preceptorship Practice and Review Drug Policy. Participants were drawn from the three nursing sections and resource persons were drawn from medical staff and others involved in teaching.
- Sr. 'A. Kavaefiafi, Senior Clinical Tutor Sister attended the,
 - PSI Women's Committee Sub-Regional Advisory Committee meeting 19-23 March, Rarotonga
 - ARI workshop, 8-10 May
 - Service Delineation workshop, 19-21 June
 - Distance Education by Radio, 16-22 May
 - Visit to Vava'u on Distance Education 31 May with WHO Consultant Professor Manalili
 - Distance Education Evaluation Visit to Vava'u, 21-23 August.
- Sr. L. Malu, Principal attended the,
 - National Mental Health Policy Workshop, 12-14 September
 - Service Delineation Workshop, 19-21 June
 - Supervisory Visit to Ha'apai :12-16 November
 - 13th Commonwealth Health Ministers Meeting, Christchurch, New Zealand: 25-29 November
- Sr. T. Cama, Senior Tutor Sister attended the,
 - In-country Training Care of Diabetic: 26-29 February
 - Japanese Field Survey 8-17 August
 - Distance Education by Radio: 16-22 May
- Sr. K. Ramsay Tutor Sister attended the
 - Distance Education by Radio: 16-22 May
 - Drug Policy Workshop, 30 October-1 November
- Sr. M. Kemoe'anga attended the TB Workshop: 23-25 May
- Mrs. F. Palelei Senior Staff Nurse attended the In-Country Training Care of Diabetic, 22-23 May
- School staff conducted in-Service Education for outer islands Nurses
 - Ngu Hospital, Vava'u, 3-8 September
 - Niu'ui Ha'apai, 11-14 September

9.3.6 Her Majesty Queen Halaevalu Mata'aho graciously consented to be guest of honour at the graduation ceremony of the 1998 Class which was held on 03 May. 12 of the 13 students graduated.

9.3.7 19 students of the 1999 Class sat their final examinations from 3-7 December.

Student Nurse Roll

Class	1/1/2001	31/12/2001	Graduated	New Recruits	Resignation	Dismissed	Terminated
1998	13	1 repeater	12	13			

1999	20	18		20	2		
2000	20	19		20			1
TOTAL	53	38	12	53	2		1

9.3.8 In providing its services during the year the following have been identified as milestones,

- Computerize nursing education information.
- Government has approved the Diploma of Nursing programme for commencement in January 2002. Auckland University of Technology has approved affiliation with the School in implementing the Diploma of Nursing.
- Clinical Nurse Tutor Graduate M. Ta'ai successfully obtained a Bachelor of Nursing from Wellington Polytech.
- Sr. 'A. Halatanu continues her studies leading to a Bachelor of Nursing (Midwifery) in New Zealand and is expected to resume duty in March 2002.
- Sr. 'A. Afuha'amango continues her postgraduate studies in Australia and is expected to resume duty in February 2002.
- The Principal, QSSN has been appointed a permanent member of the National Health Development Committee and Technical Sub-Committee.
- The Principal was a member of the delegation from Tonga to the 13th Commonwealth Health Ministers Meeting, Christchurch, N.Z.

9.4 Public Health Nursing

9.4.1 Ms. Pisila Sovaleni is responsible for the management and supervision of the Public Health Nursing section and is supported by Mrs. S. Paasi, Senior Public Health Sister and 42 Public Health Nursing staff. As of 31 December 10 public health nursing positions were vacant.

9.4.2 The section's objectives are,

- To provide effective community services to mother, children and others through Reproductive Health/FP approach.
- To continue post basic training courses for Public Health Nursing staff
- To provide appropriate training for staff
- To improve the collection and analysis of Statistical data relating to MCH/FP/reproductive Health.

9.4.3 The section's functions are,

- Implement the UNFPA funded Reproductive Health/Family Planning/Adolescent Sexual Health project.
- Plan and implement of Expanded Programme of Immunisation.
- Implement safe motherhood, antenatal, postnatal services.
- Implement 'child' health clinics
- Participate in other public health activities such as the Filariasis Mass Drug Administration, radio programmes and community meetings.

9.4.4 In pursuing its objectives the following strategies are planned and implemented,

- Provision of antenatal, postnatal, immunization for mother and child, family planning information and services.
- Conduct weekly staff meetings.
- Collection and analysis of data.

- In-service training for staff on Reproductive Health/Family Planning/Adolescent Sexual Health, Expand Programme of Immunisation, and Data Analysis.
- Plan and implement post basic midwifery training programme.
- Conduct annual review of MCH/FP data to continue for all districts.

9.4.5 The achievements of the section are,

- Public Health Nursing staff continue to pursue training as follows, Nurse Practitioner (1), Bachelor of Nursing (Midwifery) (1), Reproductive Health (5)
- In-service training MCH/FP
- Supervisor visits to the outer islands
- Community workshop on family planning and reproductive health for married couples and youths.
- Maintain high immunisation, antenatal and postnatal coverage.
- Continuous collections and analysis of statistics.
- Improve rates of exclusive breast feeding.
- Increase staff establishment through the transfer of 4 staff nurses to Public Health Nursing

9.4.6 Public Health Nursing staff attended the meetings and training abroad,

- P. Sovaleni, Supervising Public Health Sister attended the PSI Workshop in Sydney in May and follow up in the Cook Islands in October.
- 'I. Fahamokioa, Public Health Nurse attended Reproductive Health Training Course 3 months in Fiji.
- S. Paasi, Senior Public Health Sister attended Reproductive/Adolescent Sexual Health Workshop in August in Fiji.
- N. Akau'ola, Public Health Sister proceeded on a 6 month WHO Fellowship on MCH/Primary Health Care in Australia.

10. DENTAL SERVICES

10.1 Management

Chief Dental Officer, Dr. Viliami. Telefoni Latu for planning, managing, implementing and monitoring the delivery of preventive and curative dental services and ensuring they are of an acceptable standard and quality. The division's establishment consists of 55 staff of which 41 posts were filled with 14 vacancies. 24 staff provide direct patient care and the remaining 17 are support staff.

10.2 Dental services are divided into 2 main functions curative dental care and dental public health and the division was allocated \$55,000.00 for the procurement of dental supplies and equipment.

10.3 Dental services are made available to the public through dental outpatient and inpatient services at Vaiola, Ngu, Niu'ui, Niu'eiki Hospitals and Health Centres in Niuatoputapu and Niuafu'ou.

10.4 The division functions are,

- Provide curative and preventive dental care for the people of Tonga.
- Ensure the public has access to the best possible care.
- Ensure effective and efficient dental health services in hospital and community settings.
- Ensure continuing education and training for the staff.

10.5 The division's main objectives are,

- Reduce the incidence of dental caries and other oral health problems to ensure Tonga can become the healthy oral country in the region.
- To ensure the public Tongan has access to the best possible care to achieve optional oral health.
- Provide best available treatment to people seeking dental care with available resources.

10.6 The division placed emphasis in the following activities during the year.

- Provide advice and instruction in oral health
- Actively support and promote preventive oral health activities
- Encourage and support continuing education of dental staff
- Emphasis educating the public on self care and health lifestyle
- Revitalise the school dental programme and through the “Bright Smile Bright Future” programme.

10.7 The table depicts a summary of services provided throughout the country during the year.

Treatment	Number
Major surgery	65
Minor surgery	302
Total attendance	50,604
Patients seen	45,041
Permanent fillings	5,637
Temporary restoration	10,619
Endodontic treatment	1,119
Tooth extracted	20,594
X-rays taken	982
Oral hygiene instruction	6,735
Toothbrush demonstration	46
Scaling	470
Polishing	220
Gingival treatment	64
Antibiotic treatment	3,739
Prosthetic work	133
Full upper denture	95
Full lower denture	95
Repair	312
Relining	27
Easing of denture	71
Orthodontic treatment	27

10.8 The dental school programme continues and 5 primary schools on Tongatapu were visited 3 times each during the year. Services included routine check up, tooth brushing demonstration, oral hygiene instruction and dietary advice. A total of 1,364 children were involved in this programme.

10.9 Colgate Palmolive (Fiji) continued to support the dental school programme with the provision of toothbrushes and toothpaste. The South Pacific Medical Mission and Nihon University of Japan also supported the dental school programme with supplies and technical expertise for schools on Tongatapu and Ha’apai. The supplies and expertise provided by these bodies are acknowledged with gratitude.

10.10 A monthly dental awareness television programme was introduced during the year. The division acknowledges with gratitude the financial assistance provided by Mr.Mohammed Rasak of Motor Parts Services for the support provided to enable the telecast of the programme.

11. ADMINISTRATION SERVICES

11.1 Management

Principal Health Administrator, Mr. Tu'akoi 'Ahio is responsible for managing this division.

11.1.1 The Divisions objectives are to ensure the provision of efficient and cost effective administrative, human resources management, financial management, transport and communications services to the Ministry, outer island health districts and members of the public.

11.1.2 The division's functions are,

- Provide Secretarial services for Vaiola Hospital and the Ministry.
- Perform all human resource and personnel management requirements of the Ministry.
- Provide salary and financial management requirements for the Ministry.
- Provide all transport and communication services for Vaiola Hospital and the Ministry.

11.2 Administrative and Corporate Services

The Principal Health Administrator is responsible for these services and is supported by 4 staff.

11.2.2 The service's objectives are,

- To establish clear lines of communication with sections and divisions
- To establish formal protocols for all office procedure
- To establish a mechanism to monitor and coordinate untimely actions or submissions
- To seek the possibility of allocating sufficient office space for the Administration Division
- To seek the separation of the Ministry from hospital services; and
- To establish a quarterly inventory stock control mechanism for all capital, office equipment and furniture

11.3 Personnel and Human Resource Management

11.3.1 The Principal Health Administrator is responsible for these services and is supported by 3 staff.

11.3.2 The service's objectives are,

- To revise and develop job descriptions for all staff within the Ministry
- To develop a mechanism to monitor and evaluate staff performance and productivity level
- To enhance staff commitment, through innovation and creativity
- To develop policy and procedures to monitor and control staff attendance and overtime work
- To improve staff moral through better reward package and clear career development
- To develop internal policies on occupational health and other work related issues
- To improve the personnel information system of the Ministry
- To develop a workforce management plan for the Ministry
- To develop training packages to improve skills and efficiency of the staff members

11.4 Financial Management

11.4.1 Senior Accountant, Mr. Tevita Veikoso is responsible for managing this section and is supported by 12 staff.

11.4.2 The section's objectives are,

- To improve the financial management system
- To improve financial recording and reporting
- To identify and establish a computerized financial information system for the Ministry
- To improve revenue collection
- To involve all program managers on budget preparation
- To improve the procedures and the regularity of reconciliation with Treasury

11.5 Transport Services

11.5.1 Transport Supervisor, Mr. Tu'itavake Lavaki is responsible for managing this section and is supported by 15 drivers.

11.5.2 The section's objectives are,

- To improve management of transportation services
- To improve the quality of transport system for emergency needs
- To install VHF communication in all vehicles
- To replace old vehicles
- To construct a garage for Ministry of Health transport on Tongatapu

11.6 In delivering its services, the Division achieved the following during the year,

- Administration office protocol currently drafted for approval prior to distribution
- Job description revision nearing completion for the Ministry
- Performance appraisal under design through the Human Resource Development Committee
- Internal policies on attendance and leave management have been approved by National Health Development Committee
- Staff career pathways are being developed
- Computerisation of services through SunSysytems
- Revenue collection average \$ 10,000 per month as projected
- Monthly reconciliation with Treasury maintained
- Emergency training had been undertaken for all drivers
- WHO provided 2 vehicles for immunization programmes in 'Eua and Ha'apai
- New garage constructed and office for the Transport Supervisor and staff

11.7 The following staff are pursuing formal training abroad,

- Health Administrator, Mr. Felise Tonga Finau a commenced a Master of Business Administration at the University of the South Pacific.
- Accounting Officer Diplomate, Miss. Sesimani Taulanga is in her final year of pursuing her Bachelor of Arts degree (Accounting and Administration) at the University of the South Pacific.

12. HEALTH PLANNING AND INFORMATION SERVICES

12.1 Management

12.1.1 Senior Health Planning Officer, Mr. Taniela Sunia Soakai is responsible for managing this Division. The Division consists of the Health Planning, Health Information, Medical Records, Project Planning and Research and Evaluation Sections. The Research and Evaluation section is yet to be established.

12.1.2 The division's objective is to provide efficient and effective, health planning, health information, project planning and medical records services to its customers within and from outside the Ministry locally, regionally and internationally.

12.2 Health Planning

12.2.1 This section is headed by the Senior Health Planning Officer and is assisted by a Computer Operator Grade III.

12.2.2 The sections objectives are,

- Improve donor aid coordination
- Strengthen health planning functions and capabilities
- Establish and maintain co-ordination of division and sectional plans
- Strengthen workforce planning capabilities and functions

12.2.3 The section's functions are,

- In consultation with programme managers responsible for the development, implementation and monitoring of the Ministry's Strategic planning process.
- Development, implementation and monitoring of the 2000-2001 WHO Programme Budget for Tonga.
- Liaise with donor agencies in regard to development projects and activities.
- Provide secretariat functions to the National Health Development Committee.
- Compile the Hon. Minister of Health's Annual Report.
- Prepare, implement and monitor the Ministry's Development Estimates.
- Liaise with St. John of God Hospital, Ballarat, in matters pertaining to the Twinning Programme.

12.3 Health Information

12.3.1. Health Statistics Officer, Mrs Suliana Vi was responsible for managing this section and supported by 3 staff. In August Mrs. Vi was promoted and transferred laterally within the civil service. The section was allocated \$2,000.00 and was utilized for the purchase of office supplies and maintenance of computers.

12.3.2 The sections objectives are,

Objectives	Achievements/Status of Implementation
To establish a Health Information Policy	Mission Report of WHO Consultant. Dr. O. Mendoza was received in January containing Draft Health Information Policy, as a result of work undertaken in October 2000.
To improve the accuracy of health information, compilation and analysis	The conducted health information training for staff at the Ngu, Niu'ui and Niu'eiki Hospital. These hospitals should now be able to computerise data and conduct basic data analysis.
To extend information dissemination to village levels.	The information dissemination continued to village levels which included Fatumu, Navutoka, Kolonga, Manuka, Ha'asini, Lavengatonga, Haveluliku, Afa, Talafu'ou, Hoi, Holonga, Malapo and Vaini.
To update staff skills and knowledge of computing and statistic	One Computer Assistant was able to attend a computer training in EPIINFO 6 Software, Apia, Samoa.
To improve management of information technology within the Ministry.	All purchase of computer equipment is processed by the section and updating of the Ministry's computer inventory is an ongoing process
To compile the Statistical Tables for the report of the Hon. Minister of Health.	Ongoing efforts are undertaken to ensure statistical tables for the Annual Report are completed.

12.3.3 The section functions are,

- Computerise district hospital discharge data
- Computerise Health Centre weekly and monthly reports
- Computerise Hospital/Health Centre weekly/monthly reports
- Disseminate health information local, regional and international
- Prepare statistical tables for the Annual Report of the Hon. Minister of Health
- Prepare Secretariat of the Pacific Community monthly reports
- Computerise births and deaths certificate
- Liaise with Justice and Statistics Department in matters pertaining to births and deaths registration

12.3.4 During the year the staff participated and conducted the following training.

- Mr. S. Veilofia, Computer Assistant attended the Public Health Surveillance and EPI Information 6 Workshop, Apia, Samoa sponsored by the Secretariat of the Pacific Community.
- Miss. N. Paongo, Computer Operator Grade I proceeded on a 3 month WHO Fellowship in Health Information Management, at the University of New South Wales and Sydney University, Australia.
- Mrs. F. 'Akau'ola and Mr. S. Veilofia, Computer Assistants conducted health information and computer training at Prince Ngu, Niu'ui and Niu'eiki Hospital during the annual outer island duty visits.

12.3.5 Five computers were procured by the AusAID funded Tonga Health Project for the Ministry, 3 were assigned to the Health Information section and one each for Ngu and Niu'ui Hospitals.

12.4 Project Planning

12.4.1 A single Assistant Health Project Officer, Mrs Patinia Patelisio staffs the section.

12.4.2 The section's objectives are,

- Increase the number of projects approved and implemented
- Improve staff knowledge and skills by further training
- Improve capability for formulation of projects

12.4.3 The section's functions are,

- In collaboration with programme managers develop, implement and monitor health projects.
- Liaise with project donors.

12.4.4 Provided below are the status of projects developed and processed for funding.

Name of Project	Cost	Status
Steam Lines, Vaiola	14,000.00	CPD identifying donor
Senior Staff Quarter, Niu'ui	59,922.00	Processed to NZODA
Refuse Collector, Vava'u	56,344.00	Processed to EU
3 Rainwater Tanks, Ha'afeva Clinic	8,501.00	Processed to AusAID
Staff Quarters, Ngu	484,905.00	Processed to EU
Dispensary Extension, 'Eua	10,000.00	Processed to NZODA
VHF Communication	39,660.00	CPD identifying donor
2 Hydraulic Compactor	49,600.00	CPD identifying donor
Junior Staff Quarter (Lab Technician, Niu'ui) I	49,672.00	Processed to AusAID
Health Centre Autoclaves	9,440.00	CPD identifying donor
Solar Electrification (Niu'a's)	78,677.00	Processed to NZODA
Community Health Centre Upgrading Program	94,430	CPD identifying donor
Refuse Collector	56,344.00	CPD identifying donor
Dispensary Extension, 'Eua	10,000.00	CPD identifying donor

Incinerator for Vaiola Hospital	135,000.00	CPD identifying donor
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12.4.5 The Assistant Health Project Officer proceeded on a 3 months fellowship in Project Planning and Economic analysis at in the University of New South Wales, Sydney, Australia.

12.5 Medical Records

12.5.1 Senior Medical Records Officer in Charge, Mrs. Monika Ketu'u is responsible for managing this section and is supported by seven staff.

12.5.2 The section's objectives are,

- Secure proper secondary storage to accommodate inactive medical records for future reference, research and educational purposes.
- To continue in the training and development of the Medical Records Section staff.
- To cull inactive medical records to allow storage space for the active medical records.
- To be able to retrieve medical records for its various use efficiently and timely.

12.5.3 The section's functions are,

- Ensure that all outpatients needs is attended to by the medical records section.
- Ensure that all admission, transfer, and separation procedures are completed and in order.
- Attend to all requests regarding patients' medical records from the health care professions.
- Ensure that inpatient and outpatient statistics are accurate and timely in its reporting.

13. ACKNOWLEDGEMENT

I wish to acknowledge my appreciation to all members of staff for their loyalty, co-operation and hard work during the year, without which much of what is contained in this report would not have been achieved.

I am also indebted to Hon. Ministers of the Crown, Heads of Government Departments, Donor partners and agencies, local non government organizations and individuals with which whom the Ministry was associated with for the partnership and valuable support throughout 2001.