

**SULTANATE OF OMAN
MINISTRY OF HEALTH**

ANNUAL STATISTICAL REPORT

1984

Prepared by :—

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Muscat - Oman



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P R E F A C E

The facts as explained in this Statistical Report are the best proof of the great achievements made in providing comprehensive health services which include Curative, Preventive & Promotive services, in this short period of the Blessed Omani Renaissance.

Fourteen years in the life of a nation is an extremely short period of time required for development and progress. However, under the guidance of His Majesty the Sultan in developing the Omani nation and His nationals in the shortest possible time, to reach the level of civilization and development of the advanced countries has conquered all the difficulties in attaining this high standard of Health Services.

We feel honoured to present this illuminating report and statistical records of the achievements of the Ministry of Health at the celebrations of the Glorious Fifteenth Anniversary.

Proper planning of Health Services depends in principal on availability of detailed statistics, their study and analysis, so we are certain that the facts as explained in these statistics will take a very active part in reaching the goals of providing Health Services to all nationals in the quickest way and with the most advanced health technology. This will also ensure for our nation and nationals a high position amongst other nations and peoples of the civilized world.

May God help us to achieve our goals.

DR. MUBARAK BIN SALEH AL-KHADURI
Minister of Health

FOREWORD

This Annual Statistical Report for the year 1984, contains information on health care delivery system, physical facilities, health manpower and finances under Ministry of Health. Health facilities available under Ministry of Defence, Royal Oman Police, Petroleum Development Oman and private sector have also been added.

2. During the year 1984, there has been substantial increase in the number of physical facilities and improvement in health manpower and health budget. Buildings of new dispensaries at Mazara, Liwa, Wadi Shafan and Kumzar besides Malaria units at Ibra & Wadi Bani Ruwaha were completed. The number of medical and para-medical personnel which stood at 4,150 in 1983 increased to 4,856 in 1984. The health budget increased from R.O. 51.23 million in 1983 to R.O. 81.04 million in 1984 showing an increase of over 58%.

3. Reviewing the health situation during 1984, the Sultanate remained free from quarantinable diseases. Public Health measures were intensified to control & prevent other communicable diseases. Expanded Programme of Immunization was further expanded to cover remote areas. Other special programmes viz Tuberculosis Control, Trachoma Control, Malaria Control and Diarrhoeal Diseases Control Programme were accelerated to achieve the targets.

4. In the field of Primary Health Care, a reorientation process is in progress and adjustments are introduced. The role of basic health care as the core mechanism in the drive to achieve Health For All is increasingly recognised and this recognition is reflected in a number of actions viz:

- (i) Promotion of the concept of Primary Health Care and
- (ii) Expanding the functions of the curative units to provide more comprehensive care.

5. In the field of medical education and training, expansion of local training facilities for para-medicals has already been achieved with the establishment of Institute of Health Sciences in Capital Area. Medical College in Sultan Qaboos University is under construction & classes are expected to start in 1986. Education & training abroad of local people is continuing. Finally, it may be stressed that sources of data given in this Report are generally health units with staff having little orientation to importance of data. The data may, therefore lack quality and may not be taken at face value. These data, however, reflect the prevailing health conditions in the country. Any suggestions and comments for improvement of future reports are most welcome.

DR. MURTADHA JAFFAR AL-DAWOOD
Director,
Statistics, Planning & Followup

1. HEALTH CARE DELIVERY SYSTEMS IN OMAN

The Sultanate of Oman occupies most of the south-eastern corner of the Arabian Peninsula and has a coast-line stretching about 1,700 kms from Straits of Hormuz in the north to the frontier with the People's Democratic Republic of Yemen in the south. The Musandam area which is the northern-most point of Oman is separated from the main country by a strip of UAE territory. The country has a total land area of 300,000 sq. kms, all of which are mountains, wadi & deserts except 9,000 sq. kms, coastal plains. The estimated population is 1.5 million with an annual population growth rate of 3.1%.

2. The national income is derived mainly from oil revenue. Recently some industries have also been established together with emphasis on agriculture to diversify the sources of national revenues.

3. The Government provides free health services to almost all residents of the Sultanate. The responsibility of providing such health care rests mainly with the Ministry of Health. The country is committed to the declaration of Alma-ata and to the concept of "Health for all by the year 2000". Increasing emphasis is placed on integration of the health services at various levels.

4. The Ministry of Health is headed by the Minister of Health assisted by the Under Secretary and 11 Directors (Annexure-A).

5. Levels of Health Care

A. The first level of the health care are:-

(1) Dispensaries:-

Offering a simple treatment in an out-patient clinic and headed by a physician. Staff of the dispensaries is also engaged in some preventive activities such as vaccination, school visiting and checking of water samples. The Ministry is in the process of upgrading the dispensary both structural and functional to deliver more comprehensive basic care.

(2) Mini-Health Centres:-

Each centre carry 9-12 beds divided equally between maternity and paediatrics and cater male and female out-patient care. The facilities are also shared with Public Health Unit to provide preventive services.

(3) **Health Centres:-**

Each Centre have 24-30 beds and offer out-patient and inpatient services. These centres provide basic health services, casualty and emergency and deliver preventive services including immunizations, MCH, environmental sanitation and school health services. In addition there is also at the periphery a system of rural health services located in Dhofar region.

B. District and Central Levels

These are served by a chain of hospitals, district hospitals (50-100 beds) and regional hospitals (300-400 beds). These hospitals offer extensive out-patient services, specialised services in general medicine, general surgery, paediatrics and orthopaedics. Al-Nahdha, Khoula and Qaboos hospitals also provide tertiary care.

6. Preventive services at central level are provided by the following units/sections:-

- (1) **MCH centres** providing pre-natal & post-natal services including immunization, health education, child growth etc.
- (2) **Expanded Programme of Immunization (EPI) Unit** carrying out immunization against Measles, Polio, Diphtheria, Pertussis, Tetanus & Tuberculosis among children and Tetanus toxoid among women of child bearing age.
- (3) **National Tuberculosis Control Programme** for treating active cases & BCG vaccination for prevention.
- (4) **Programme for Prevention of Blindness** for treatment of trachoma & other eye diseases causing blindness.
- (5) **Diarrhoeal Diseases Control Programme** for prevention & control of diarrhoeal diseases among children.
- (6) **Malaria Control Programme/Section** for combating Malaria.
- (7) **Bacteriological & Chemical Laboratories** which carry out bacteriological & chemical tests on water & food samples.
- (8) **Environmental Health Section** supervising the environmental health.
- (9) **Quarantine Section** examining vessels, planes, passengers & food stuffs.
- (10) **School Health Section** conducting medical examination & treatment of school children.

- (11) **Health Education Section** carrying out health education through mass media.
- (12) **Oral Hygiene Section** providing preventive services in the field of oral hygiene & dental care.
- (13) **Vector Control Section** for controlling & eradication of insects, rodents etc. by using insecticides.
- (14) **Communicable Disease Section** dealing with the control of communicable diseases.

7. Besides Ministry of health, some other organisations also take care health needs of their employees e.g. Ministry of Defence, Royal Oman Police & Petroleum Development of Oman. Private clinics also exist in different parts of the country to augment the health services.

8 The major development programmes of the Ministry of Health put emphasis on primary and secondary health care. Establishment of new health units and expansion of existing ones are already underway in the current Five Years Plan (1981-85). A 565 bedded Royal Hospital, is under construction in Capital Area.

ORGANISATION CHART OF THE MINISTRY OF HEALTH

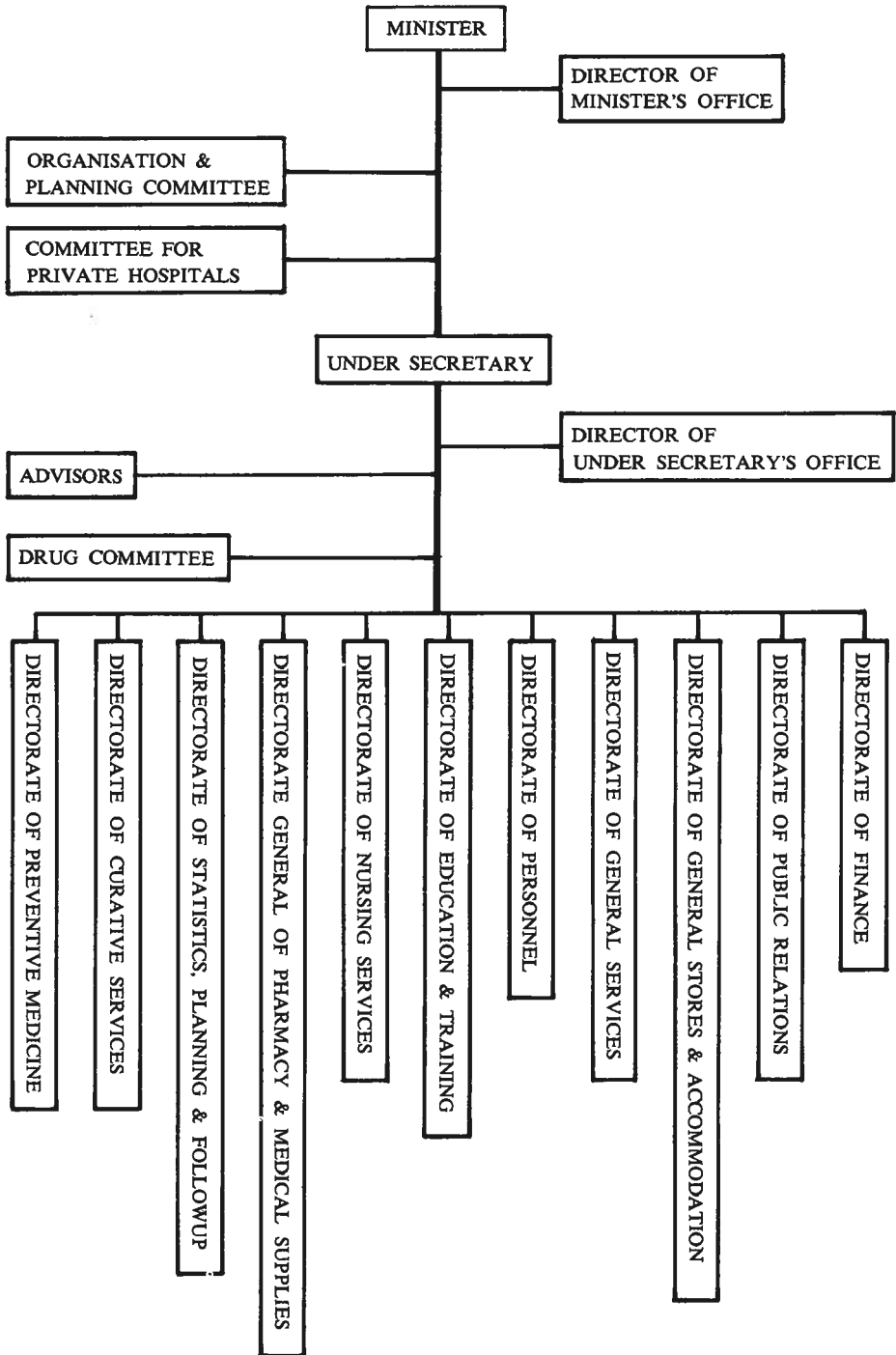


TABLE 1.1

Curative and preventive units by regions — 31.12.1984

| Regions | Hospitals | Health Centres | Mini Health Centres | Mini Maternity Centres | Dispensaries | Public Health Compounds | Public Health Units |
|--------------|-----------|----------------|---------------------|------------------------|--------------|-------------------------|---------------------|
| Capital Area | 6 | — | — | — | 3 | — | 2 |
| Al-Dhahira | 2 | — | 1 | 2 | 5 | 1 | 2 |
| Al-Batinah | 2 | 2 | 2 | 1 | 12 | 1 | 9 |
| Interior | 2 | 1 | 2 | — | 10 | 2 | 4 |
| Eastern | 2 | 6 | 3 | — | 19 | — | 16 |
| Southern | 1 | — | 1 | — | 24 | 1 | 5 |
| Northern | — | 3 | — | 1 | 1 | — | 2 |
| Total | 15 | 12 | 9 | 4 | 74 | 5 | 40 |

TABLE 1.2

Implementation of Health Projects under Second Five Years Plan 1981-1985

| Projects included in Second Five Years Plan | Number of Units or Facilities | Present Position — 31-12-1984 | | |
|---|-------------------------------|-------------------------------|-----------------------------|----------------------|
| | | Projects Completed | Projects Under Construction | Construction Delayed |
| Hospitals | 5 | 1 | 3 | 1 |
| Extension of Hospitals | 6 | 5 | — | 1 |
| Health Centres | 5 | 3 | 1 | 1 |
| Extension of Health Centres | 5 | — | 4 | 1 |
| Mini-Health Centres | 25 | 6 | 14 | 5 |
| Dispensaries | 35 | 19 | 10 | 6 |
| Renal Dialysis Unit | 1 | 1 | — | — |
| Primary Health Care Units | 23 | — | 16 | 7 |
| MCH Centres | 8 | — | 6 | 2 |
| Public Health Compounds | 3 | — | 3 | — |
| Central Public Health Compound (Capital Area) | 1 | — | 1 | — |
| Malaria Control Section | 1 | 1 | — | — |
| Malaria Control Units | 15 | 3 | 7 | 5 |
| Medical Stores | 2 | — | 2 | — |
| Extension of Medical Store | 1 | — | 1 | — |
| Extension of Pharmaceutical Laboratory | 1 | — | 1 | — |
| Health Institute | 1 | 1 | — | — |
| Extension of Headquarter building | 1 | 1 | — | — |
| Accommodation for Khoula Hospital | 1 | 1 | — | — |
| Total | 140 | 42 | 69 | 29 |

2. CURATIVE SERVICES

The Directorate of Curative Services is responsible for administration of curative health units which include a chain of hospitals, health centres, mini-maternity centres, dispensaries, and mobile medical teams. At the end of 1984 there were 15 hospitals, 21 health and mini-health centres, 4 mini-maternity centres, 74 dispensaries and a number of mobile medical teams providing these services. Total number of beds in the Ministry of Health units at the end of 1984 were 2,587.

2. During 1984 the curative units treated 6,519,898 patients in OPD and reported 154,789 discharges including 2,135 deaths. OPD cases were distributed as under:-

| | <u>New cases</u> | <u>Re-attendance</u> | <u>Total</u> |
|----------------|-------------------------|-------------------------|-------------------------|
| Hospitals | 1534206 (37.7%) | 1570635 (64.2%) | 3104841 (47.6%) |
| Health Centres | 1070285 (26.3%) | 504777 (20.6%) | 1575062 (24.2%) |
| Dispensaries | 1467120 (36.0%) | 372875 (15.2%) | 1839995 (28.2%) |
| TOTAL: | 4071611 (100.0%) | 2448287 (100.0%) | 6519898 (100.0%) |

3. Out of 3,104,841 OPD cases reported from hospitals, the proportion for new cases was 49.4% where-as re-attendance cases accounted for 50.6%. Similar percentage for health centres and dispensaries was 68.0% and 79.7% respectively for new cases and 32.0% and 20.3% for re-attendance cases.

4. Out of 154,789 discharges reported during 1984, hospitals accounted for 117,497 (75.9%) and the remaining 37,292 (24.1%) were reported from health centres and mini-health centres. 2,135 deaths included 1,971 (92.3%) from hospitals and 164 (7.7%) from health centres and mini-health centres. Further details are available in the tables.

5. During 1984, following workshops, seminars and symposiums were organised:-

| <u>Workshops/Seminars/Symposiums</u> | <u>Held on</u> |
|--|-----------------------|
| 2 Workshops on urology | 12th Jan & 19th April |
| 2 Orthopaedic workshops | 16th Feb & 12th April |
| 2 Workshops on general surgery | 3rd and 5th May |
| Paediatric workshop | 27th Sept. |
| Workshop on plastic & reconstructive surgery | 1st Nov. |
| Workshop on resuscitation | 6th Dec. |
| Seminar on wound care management | 10th April |
| Symposium on emergency medicine | 8th and 9th March |
| Gastroenterology symposium/college symposium | 14th to 20th Oct. |

TABLE 2.1

Curative Units 1970-1984

| Types of Units | Number in | | | | | |
|------------------------|-----------|------|------|------|------|------|
| | 1970 | 1980 | 1981 | 1982 | 1983 | 1984 |
| Dispensaries | 10 | 50 | 56 | 59 | 68 | 74 |
| Mini-Maternity Centres | — | 5 | 4 | 4 | 4 | 4 |
| Mini-Health Centres | — | 3 | 5 | 7 | 8 | 9 |
| Health Centres | 9 | 11 | 12 | 12 | 12 | 12 |
| District Hospitals | 2 | 11 | 11 | 11 | 11 | 11 |
| Regional Hospitals | — | 3 | 3 | 3 | 3 | 3 |
| Specialized Hospital | — | — | — | — | 1 | 1 |
| Total Beds | 12 | 1784 | 1866 | 2041 | 2133 | 2587 |

CURATIVE UNITS UNDER MINISTRY OF HEALTH 1970-84

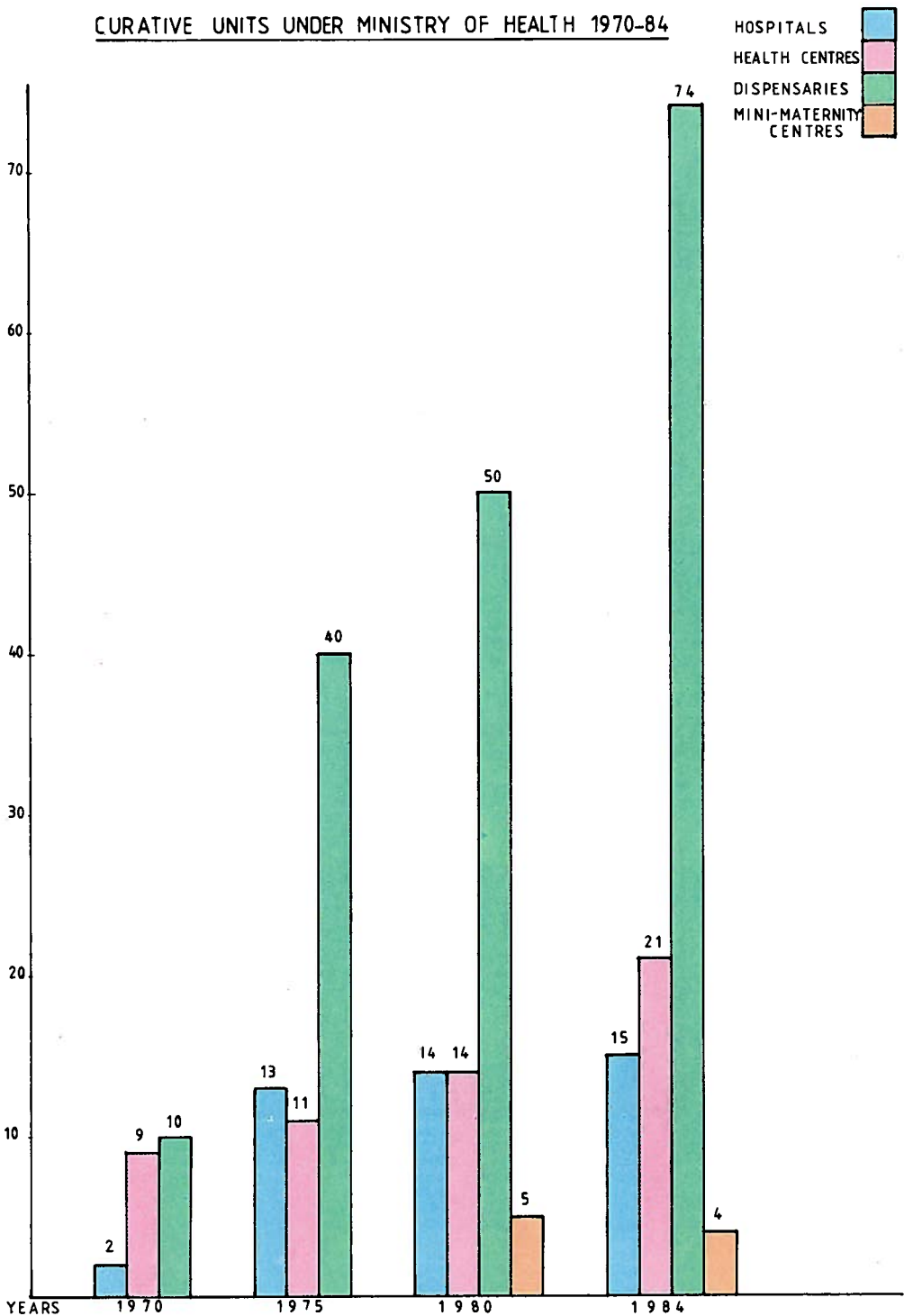


TABLE 2.2

Regional Distribution of Curative Units — 31-12-84

| Regions | Hospitals | | Health Centres | | Mini-Health Centres | | Mini-Maternity Centres | | Dispensaries | Total | |
|--------------|-----------|------|----------------|------|---------------------|------|------------------------|------|--------------|--------|------|
| | Number | Beds | Number | Beds | Number | Beds | Number | Beds | Number | Number | Beds |
| Capital Area | 6 | 989 | — | — | — | — | — | — | 3 | 9 | 989 |
| Al-Dhahira | 2 | 162 | — | — | 1 | — | 2 | 8 | 5 | 10 | 170 |
| Al Batinah | 2 | 222 | 2 | 46 | 2 | 20 | 1 | 4 | 12 | 19 | 292 |
| Interior | 2 | 237 | 1 | 27 | 2 | 16 | — | — | 10 | 15 | 280 |
| Eastern | 2 | 196 | 6 | 209 | 3 | 31 | — | — | 19 | 30 | 436 |
| Southern | 1 | 336 | — | — | 1 | 6 | — | — | 24 | 26 | 342 |
| Northern | — | — | 3 | 74 | — | — | 1 | 4 | 1 | 5 | 78 |
| Total | 15 | 2142 | 12 | 356 | 9 | 73 | 4 | 16 | 74 | 114 | 2587 |

HOSPITAL BEDS BY REGIONS — 31.12.1984

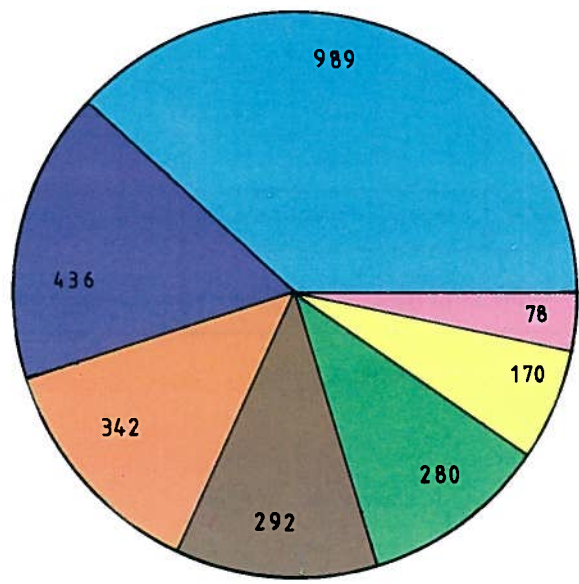
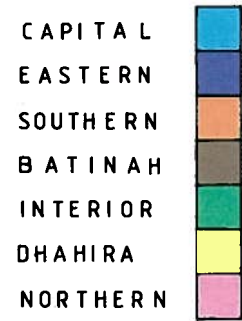


TABLE 2.3

Beds Distribution by Specialities in Hospitals — 31.12.1984

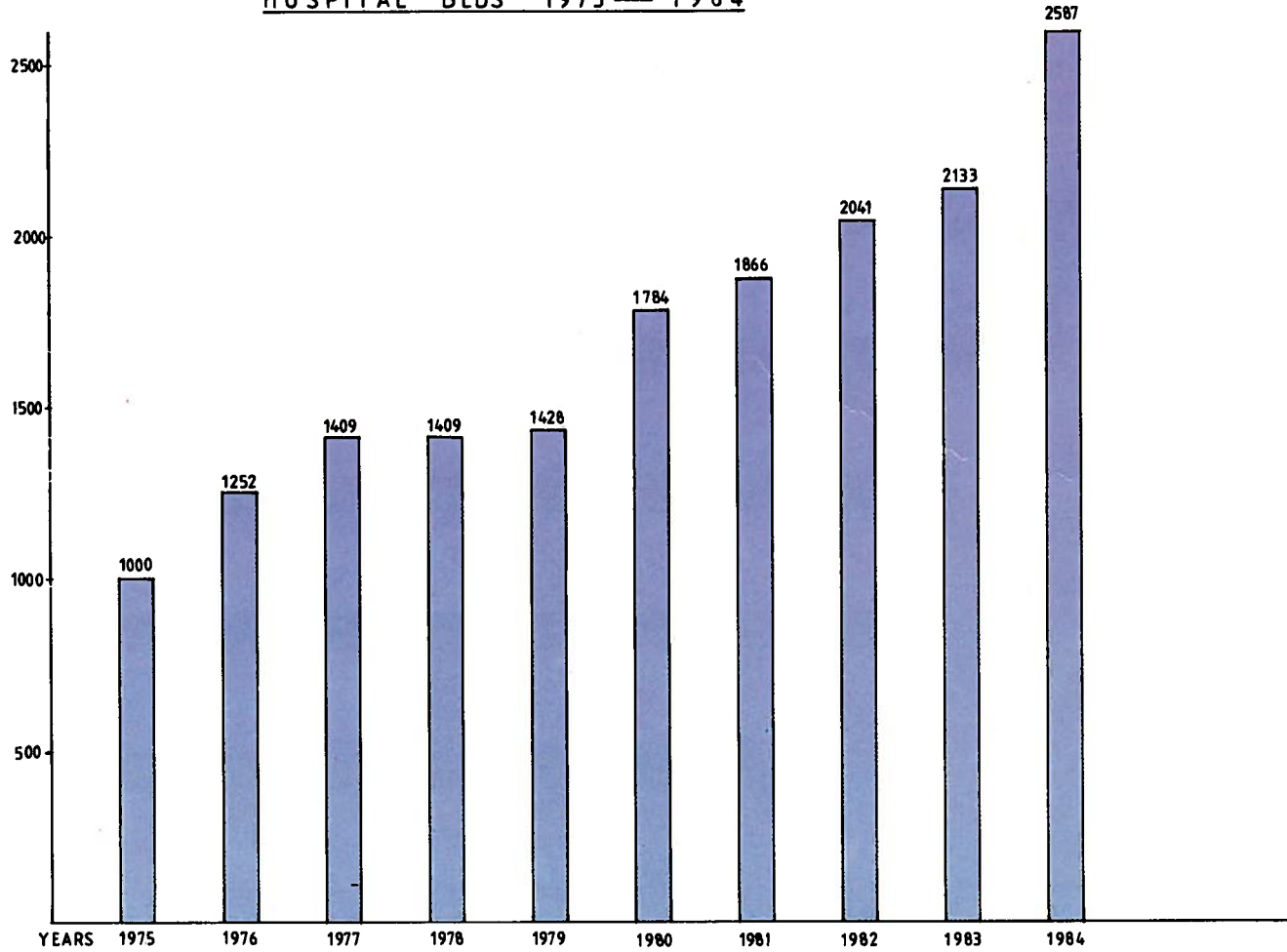
| Hospitals | Beds reserved for | | | | | | | | | | | | | | | Total Beds | | | |
|-----------|-------------------|----------|-----------|-------------|-----|-----|-------------|-------------|------------|--------------|-------|-----------------|----------------|-----|-----------|------------|----------|-------|-------------|
| | Surgery | Medicine | Maternity | Paediatrics | Eye | ENT | Orthopaedic | Dermatology | Psychiatry | Tuberculosis | Burns | Plastic Surgery | Renal Dialysis | ICU | Isolation | Others | Official | Extra | Grand Total |
| | Khoula | 68 | — | 130 | — | — | — | 79 | — | — | — | 8 | 27 | — | 7 | — | 11 | 330 | 52 |
| Al-Nahdha | — | 117 | — | 100 | 41 | 18 | — | 2 | — | — | — | — | 10 | — | — | 2 | 290 | 68 | 358 |
| Ar-Rahma | — | 59 | — | 32 | — | — | — | — | — | 30 | — | — | — | — | 3 | 4 | 128 | 17 | 145 |
| Muscat | Out-patient only | | | | | | | | | | | | | | | | | | |
| Assada | — | — | 16 | — | — | — | — | — | — | — | — | — | — | — | — | — | 16 | 8 | 24 |
| Ibn Sina | — | — | — | — | — | — | — | — | 60 | — | — | — | — | — | — | — | 60 | 20 | 80 |
| Buraimi | 11 | 15 | 8 | 8 | — | — | — | — | — | — | — | — | — | — | — | 8 | 50 | 26 | 76 |
| Tanam | 12 | 15 | 20 | 18 | 3 | — | — | — | — | — | — | — | — | 1 | 1 | 4 | 74 | 12 | 86 |
| Sohar | 26 | 28 | 26 | — | 10 | — | — | — | — | — | 4 | — | — | 2 | — | 4 | 100 | 51 | 151 |
| Sumail | 14 | 14 | 7 | 15 | — | — | — | — | — | — | — | — | — | — | — | — | 50 | 35 | 85 |
| Nizwa | 22 | 18 | 28 | 24 | 6 | — | — | — | — | — | — | — | — | 2 | — | — | 100 | 52 | 152 |
| Rustaq | 8 | 15 | 25 | 11 | 4 | — | — | — | — | — | — | — | — | 2 | 2 | 4 | 71 | — | 71 |
| Sur | 12 | 20 | 21 | 21 | 8 | — | — | — | — | — | — | — | — | — | — | 18 | 100 | 25 | 125 |
| Qaboos | 31 | 85 | 58 | 49 | 12 | 12 | 30 | 9 | 10 | — | — | — | — | 4 | — | — | 300 | 36 | 336 |
| Ibra | 8 | 10 | 8 | 16 | 4 | — | — | — | — | — | — | — | — | 4 | — | — | 50 | 21 | 71 |
| Total | 212 | 396 | 347 | 294 | 88 | 30 | 109 | 11 | 70 | 30 | 12 | 27 | 10 | 22 | 6 | 55 | 1719 | 423 | 2142 |

TABLE 2.4

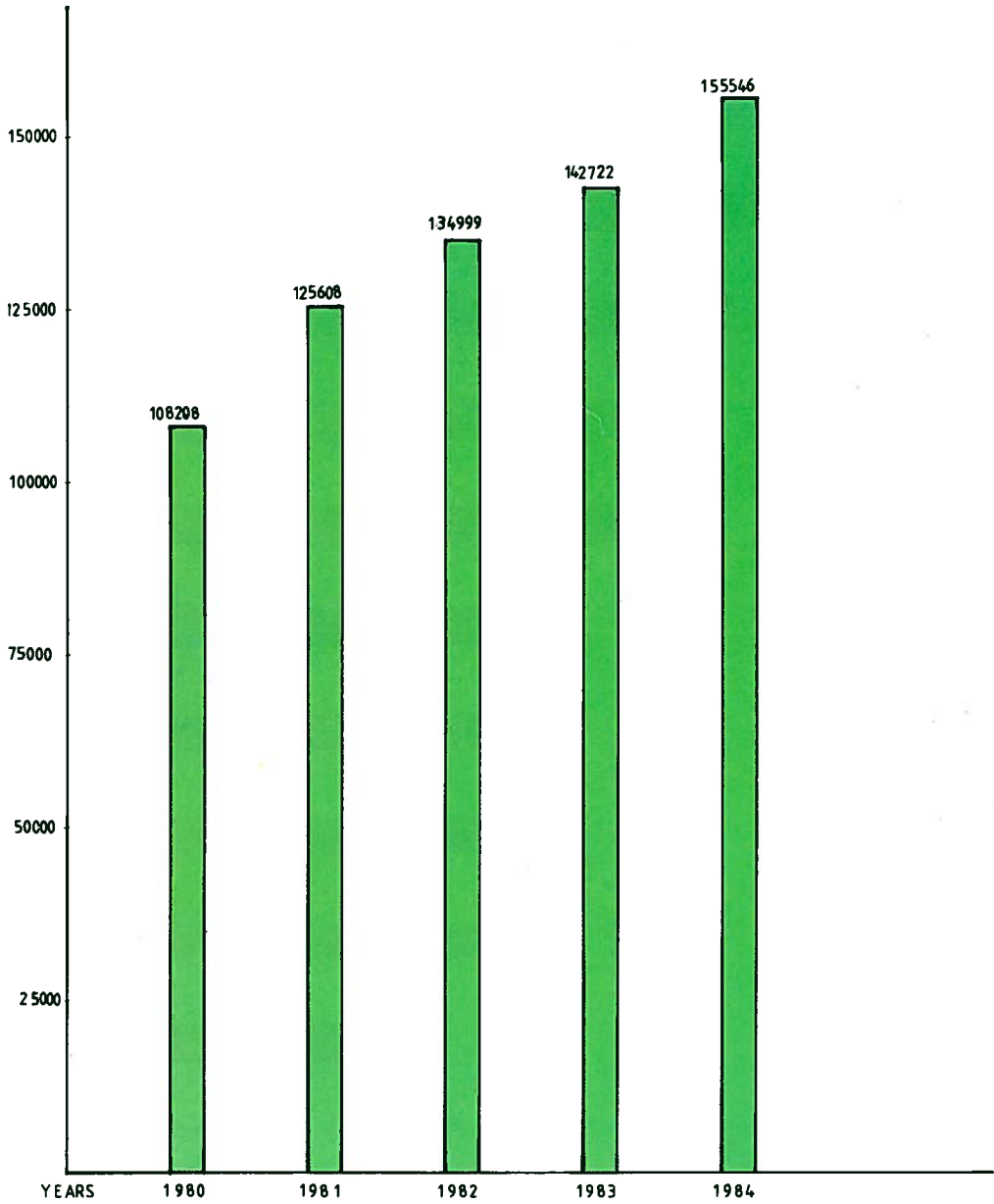
**Beds, Admissions, Discharges, OPD's Attendance
Deliveries and Births 1980-1984**

| Years | Beds | Admissions | Discharges | OPD attendance | | | Deliveries | Births |
|-------|------|------------|------------|----------------|-----------|---------|------------|--------|
| | | | | New | Re-visits | Total | | |
| 1980 | 1784 | 108208 | 104348 | 3123354 | 1626182 | 4749536 | 27328 | 27584 |
| 1981 | 1866 | 125608 | 123062 | 3525854 | 1796262 | 5322116 | 29162 | 29457 |
| 1982 | 2041 | 134999 | 134736 | 3328434 | 2119765 | 5448199 | 31781 | 32080 |
| 1983 | 2133 | 142722 | 143429 | 3616137 | 2319398 | 5935535 | 32615 | 32895 |
| 1984 | 2587 | 155546 | 154789 | 4071611 | 2448287 | 6519898 | 36350 | 36686 |

HOSPITAL BEDS 1975 — 1984



HOSPITAL ADMISSIONS 1980 - 1984



PATIENTS TREATED IN OPD 1980 - 1984

NEW CASES
RE-ATTENDANCE CASES

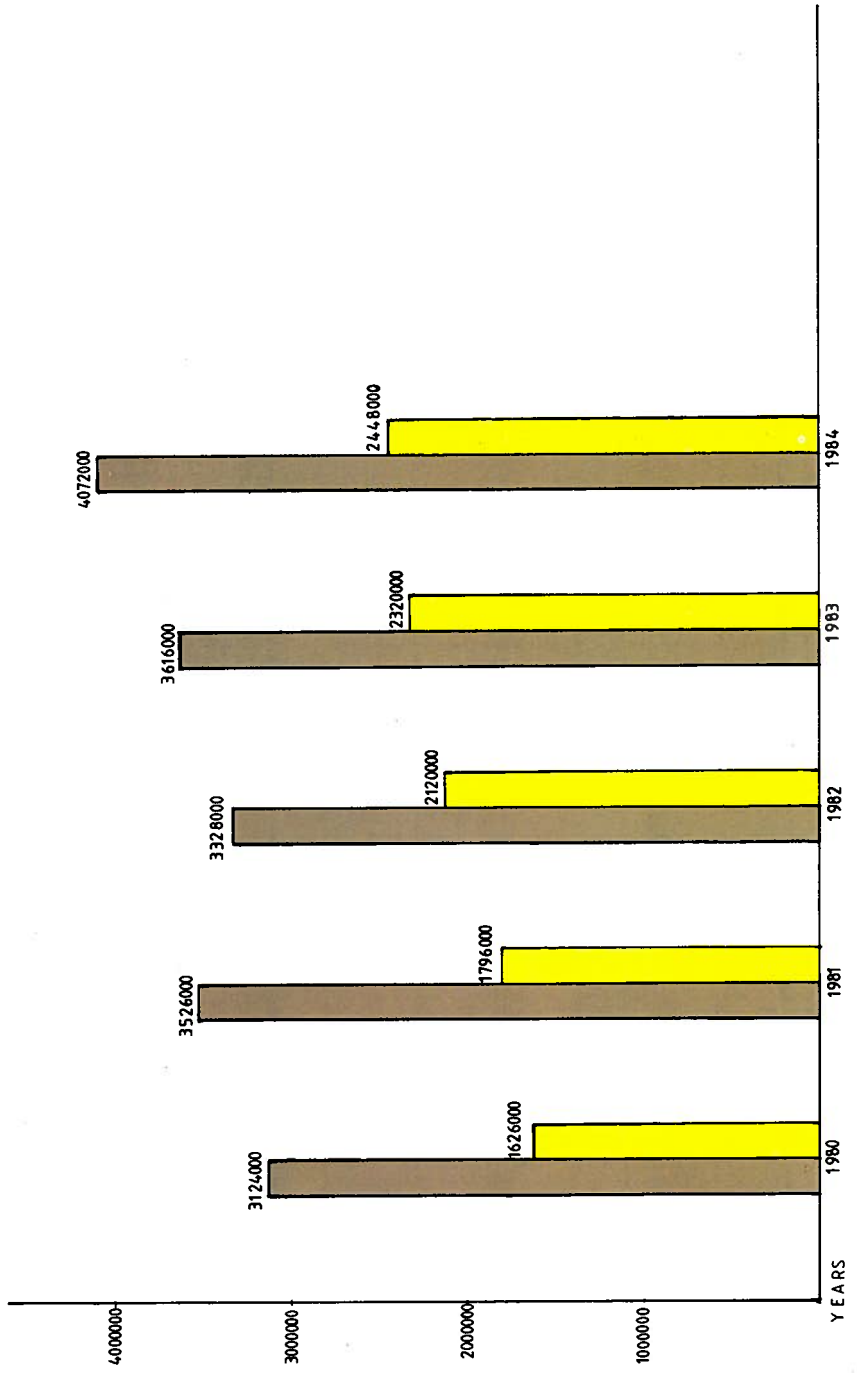


TABLE 2.5

Admissions, Discharges, Bed Occupancy etc. in Hospitals & Health Centres — 1984

| Hospitals/HCs | Beds 31-12-84 | Admissions | | | Discharges | | | Patient days | Bed occupancy (percentage) | Average duration of hospital stay |
|------------------|------------------|------------|--------|-------|------------|--------|-------|-----------------|-------------------------------|--|
| | | Male | Female | Total | Male | Female | Total | | | |
| Hospitals | | | | | | | | | | |
| Khoula | 330 | 7105 | 14153 | 21258 | 7097 | 14198 | 21295 | 126307 | 104.6 | 5.9 |
| Al-Nahdha | 290 | 7376 | 5120 | 12496 | 7139 | 4909 | 12048 | 80062 | 75.4 | 6.6 |
| Ar-Rahma | 128 | 1733 | 1339 | 3072 | 1666 | 1296 | 2962 | 34403 | 73.4 | 11.6 |
| Muscat | — | — | — | — | — | — | — | — | — | — |
| Assada | 16 | — | 1967 | 1967 | 1 | 1963 | 1964 | 5884 | 100.5 | 3.0 |
| Ibn Sina | 60 | 423 | 228 | 651 | 366 | 208 | 574 | 21289 | 96.9 | 37.1 |
| Buraimi | 50 | 1993 | 2284 | 4277 | 1953 | 2227 | 4180 | 20234 | 110.6 | 4.8 |
| Tanam | 74 | 3393 | 5177 | 8570 | 3397 | 5157 | 8554 | 29299 | 108.2 | 3.4 |
| Sohar | 100 | 4811 | 8959 | 13770 | 4819 | 8810 | 13629 | 55078 | 150.5 | 4.0 |
| Sumail | 50 | 2076 | 3505 | 5581 | 2070 | 3520 | 5590 | 24195 | 132.2 | 4.3 |
| Nizwa | 100 | 3713 | 4971 | 8684 | 3726 | 4977 | 8703 | 48941 | 133.7 | 5.6 |
| Rustaq | 71 | 2443 | 6107 | 8550 | 2446 | 6099 | 8545 | 29878 | 115.0 | 3.5 |
| Sur | 100 | 2880 | 5112 | 7992 | 2897 | 5122 | 8019 | 33552 | 91.7 | 4.2 |
| Qaboos | 300 | 7145 | 8408 | 15553 | 7250 | 8421 | 15671 | 106543 | 97.0 | 6.8 |
| Ibra | 50 | 2281 | 3475 | 5756 | 2311 | 3452 | 5763 | 21572 | 117.9 | 3.7 |

| Hospitals/HCs | Beds 31-12-84 | Admissions | | | Discharges | | | Patient days | Bed occupancy (percentage) | Average duration of hospital stay |
|-----------------------|------------------|------------|--------|-------|------------|--------|-------|-----------------|----------------------------------|--|
| | | Male | Female | Total | Male | Female | Total | | | |
| Health Centres | | | | | | | | | | |
| Masnah | — | — | — | — | — | — | — | — | — | — |
| Bukha | 16 | 231 | 269 | 500 | 229 | 268 | 497 | 1464 | 25.0 | 2.9 |
| Baya | 24 | 648 | 1311 | 1959 | 611 | 1286 | 1897 | 6792 | 77.3 | 3.6 |
| Khasab | 24 | 1103 | 1186 | 2289 | 1090 | 1195 | 2285 | 9314 | 106.0 | 4.1 |
| Saham | 30 | 2128 | 4857 | 6985 | 2120 | 4875 | 6995 | 16685 | 152.0 | 2.4 |
| Bahla | 24 | 743 | 1793 | 2536 | 740 | 1798 | 2538 | 8285 | 94.3 | 3.3 |
| BBB Ali | 24 | 1811 | 2625 | 4436 | 1817 | 2635 | 4452 | 11774 | 134.0 | 2.6 |
| BBB Hassan | 24 | 1343 | 2056 | 3399 | 1339 | 2069 | 3408 | 10249 | 116.7 | 3.0 |
| Sinaw | 24 | 1743 | 2786 | 4529 | 1744 | 2770 | 4514 | 11562 | 131.6 | 2.6 |
| Quriyat | 35 | 988 | 1796 | 2784 | 991 | 1783 | 2774 | 9670 | 75.5 | 3.5 |
| Masirah | 24 | 882 | 869 | 1751 | 881 | 857 | 1738 | 6591 | 75.0 | 3.8 |
| Wadi Tayeen | 30 | 817 | 1258 | 2075 | 827 | 1244 | 2071 | 8476 | 77.2 | 4.1 |

| Hospitals/ HCs | Beds 31-12-84 | Admissions | | | Discharges | | | Patient days | Bed occupancy (percentage) | Average duration of hospital stay |
|---------------------------|------------------|------------|--------|--------|------------|--------|--------|-----------------|----------------------------------|--|
| | | Male | Female | Total | Male | Female | Total | | | |
| WB Khalid | 6 | — | 142 | 142 | 3 | 141 | 144 | 452 | 20.6 | 3.1 |
| WB Ghaffir | 10 | 212 | 435 | 647 | 213 | 438 | 651 | 1977 | 54.0 | 3.0 |
| Samad alshaan | 13 | 240 | 582 | 822 | 237 | 581 | 818 | 2318 | 48.7 | 2.8 |
| Wadi Sarami | 10 | 156 | 197 | 353 | 154 | 199 | 353 | 791 | 21.6 | 2.2 |
| Izki | 12 | 345 | 684 | 1029 | 343 | 685 | 1028 | 2874 | 65.4 | 2.8 |
| Duqum | 12 | 379 | 446 | 825 | 382 | 442 | 824 | 2454 | 55.9 | 3.0 |
| Wadi Jizzi | — | — | — | — | — | — | — | — | — | — |
| Haima | 4 | 99 | 151 | 250 | 96 | 151 | 247 | 742 | 50.7 | 3.0 |
| Tawi Attair | 6 | 22 | 36 | 58 | 23 | 35 | 58 | 105 | 4.8 | 1.8 |
| Total (Hospitals) | 1719 | 47372 | 70805 | 118177 | 47138 | 70359 | 117497 | 637237 | 101.3 | 5.4 |
| Total (Health Centres) | 352 | 13890 | 23479 | 37369 | 13840 | 23452 | 37292 | 112575 | 87.4 | 3.0 |
| Grand Total | 2071 | 61262 | 94284 | 155546 | 60978 | 93811 | 154789 | 749812 | 98.9 | 4.8 |

TABLE 2.6

Mortality & morbidity by group of diseases — 1984

| Groups of diseases (ICD-8) | | Deaths | | Inpatients | | Out-patients | | | | | |
|----------------------------|---|--------|-------|------------|-------|---------------|-------|--------------|-------|-----------|-------|
| | | | | | | Hospitals/HCs | | Dispensaries | | Total | |
| | | Number | % | Number | % | Number | % | Number | % | Number | % |
| 1. | Infectious & parasitic Diseases | 424 | 19.86 | 28,904 | 18.67 | 410,261 | 15.75 | 296,349 | 20.20 | 706,610 | 17.35 |
| 2. | Neoplasms | 144 | 6.74 | 1,148 | 0.74 | 537 | 0.02 | — | — | 537 | 0.01 |
| 3. | Endocrine, nutritional & metabolic diseases | 56 | 2.62 | 1,776 | 1.15 | 17,081 | 0.66 | 47,614 | 3.25 | 64,695 | 1.59 |
| 4. | Diseases of blood & blood forming organs | 16 | 0.75 | 2,533 | 1.64 | 32,448 | 1.25 | 35,948 | 2.45 | 68,396 | 1.68 |
| 5. | Mental disorders | 2 | 0.09 | 1,225 | 0.79 | 3,774 | 0.14 | — | — | 3,774 | 0.09 |
| 6. | Diseases of nervous system & sense organs | 67 | 3.14 | 4,224 | 2.73 | 267,674 | 10.28 | 146,405 | 9.98 | 414,079 | 10.17 |
| 7. | Diseases of circulatory system | 473 | 22.15 | 6,309 | 4.08 | 19,236 | 0.74 | — | — | 19,236 | 0.47 |
| 8. | Diseases of respiratory system | 184 | 8.62 | 20,110 | 12.99 | 690,523 | 26.51 | 481,517 | 32.82 | 1,172,040 | 28.79 |
| 9. | Diseases of digestive system | 77 | 3.61 | 7,081 | 4.57 | 306,057 | 11.75 | 50,790 | 3.46 | 356,847 | 8.76 |
| 10. | Diseases of genito-urinary system | 44 | 2.06 | 8,930 | 5.77 | 47,815 | 1.84 | — | — | 47,815 | 1.17 |

| Groups of Diseases (ICD-8) | | Deaths | | Inpatients | | Out-patients | | | | | |
|-------------------------------|--|--------|-------|------------|--------|----------------|--------|--------------|--------|-----------|-------|
| | | | | | | Hospitals /HCs | | Dispensaries | | Total | |
| | | Number | % | Number | % | Number | % | Number | % | Number | % |
| 11. | Pregnancy, childbirth & puerperium | 8 | 0.37 | 46,692 | 30.16 | 16,265 | 0.62 | — | — | 16,265 | 0.40 |
| 12. | Diseases of skin & subcutaneous tissue | 4 | 0.19 | 2,733 | 1.77 | 167,047 | 6.41 | 133,913 | 9.13 | 300,960 | 7.39 |
| 13. | Diseases of musculoskeletal system & connective tissue | 1 | 0.05 | 1,868 | 1.21 | 255,861 | 9.82 | — | — | 255,861 | 6.28 |
| 14. | Congenital anomalies | 79 | 3.70 | 548 | 0.35 | 155 | 0.01 | — | — | 155 | — |
| 15. | Perinatal morbidity & mortality | 319 | 14.94 | 963 | 0.62 | — | — | — | — | — | — |
| 16. | Senility & other ill-defined conditions | 40 | 1.87 | 7,239 | 4.68 | 227,258 | 8.73 | 181,547 | 12.37 | 408,805 | 10.04 |
| 17. | External causes-nature of injury | 197 | 9.23 | 12,506 | 8.08 | 142,499 | 5.47 | 93,037 | 6.34 | 235,536 | 5.78 |
| Total | | 2,135 | 99.99 | 154,789 | 100.00 | 2,604,491 | 100.00 | 1,467,120 | 100.00 | 4,071,611 | 99.97 |

— Group of diseases is not included in the OPD classification.

TABLE 2.7

Main causes for hospitalization — 1984

| Diseases (ICD-8) | Number hospitalized | Proportion to the total discharges (%) |
|--|---------------------|--|
| 1. Enteritis & other diarrhoeal diseases | 10,275 | 6.64 |
| 2. Malaria | 9,170 | 5.92 |
| 3. Bronchitis, emphysema & asthma | 5,186 | 3.35 |
| 4. Measles | 3,782 | 2.44 |
| 5. Gastritis & duodenitis | 2,759 | 1.78 |
| 6. Acute bronchitis & bronchiolitis | 2,711 | 1.75 |
| 7. Abdominal pain | 1,609 | 1.04 |
| 8. Essential benign hypertension | 1,602 | 1.03 |
| 9. Acute pharyngitis & acute tonsillitis | 1,498 | 0.97 |
| 10. Threatened abortion | 1,455 | 0.94 |

(Total discharges)= 154,789 .

TABLE 2.8
Deaths in Hospitals and Health Centres by age groups and sex — 1984

| Hospitals/Health Centres | Under 1 year | | 1-14 years | | 15-44 years | | 45 years & above | | Total | | | Neonatal deaths |
|--------------------------|--------------|--------|------------|--------|-------------|--------|------------------|--------|-------|--------|-------|-----------------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Total | |
| <u>Hospitals</u> | | | | | | | | | | | | |
| Khoula | 25 | 20 | 18 | 8 | 43 | 12 | 57 | 27 | 143 | 67 | 210 | 34 |
| Al-Nahdha | 51 | 39 | 31 | 23 | 46 | 30 | 123 | 68 | 251 | 160 | 411 | 13 |
| Ar-Rahma | 9 | 10 | 5 | 6 | 10 | 9 | 47 | 27 | 71 | 52 | 123 | — |
| Assada | 1 | 1 | — | — | — | — | — | — | 1 | 1 | 2 | 2 |
| Ibn Sina | — | — | — | — | — | — | 2 | — | 2 | — | 2 | — |
| Rustaq | 42 | 36 | 6 | 10 | 1 | 5 | 23 | 17 | 72 | 68 | 140 | 50 |
| Sohar | 58 | 52 | 16 | 22 | 12 | 4 | 59 | 33 | 145 | 111 | 256 | 66 |
| Sumail | 14 | 9 | 3 | 2 | 1 | 3 | 21 | 22 | 39 | 36 | 75 | 13 |
| Nizwa | 55 | 49 | 9 | 7 | 10 | 11 | 37 | 20 | 111 | 87 | 198 | 66 |
| Ibra | 31 | 21 | 3 | 1 | 1 | 2 | 9 | 8 | 44 | 32 | 76 | 41 |
| Sur | 54 | 38 | 6 | 7 | 11 | 7 | 33 | 13 | 104 | 65 | 169 | 57 |
| Tanam | 19 | 19 | 8 | 8 | 5 | 3 | 28 | 11 | 60 | 41 | 101 | 28 |
| Buraimi | 4 | 12 | 3 | — | 5 | 1 | 22 | 9 | 34 | 22 | 56 | 7 |
| Qaboos | 31 | 26 | 10 | 10 | 14 | 7 | 31 | 23 | 86 | 66 | 152 | 35 |

| Hospitals/Health Centres | Under 1 year | | 1-14 years | | 15-44 years | | 45 years & above | | Total | | | Neonatal deaths |
|------------------------------|--------------|--------|------------|--------|-------------|--------|------------------|--------|-------|--------|-------|-----------------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Total | |
| <u>Health Centres</u> | | | | | | | | | | | | |
| Baya | — | 5 | — | 1 | — | — | 3 | 2 | 3 | 8 | 11 | 5 |
| Khasab | 2 | — | 1 | — | — | — | 5 | 1 | 8 | 1 | 9 | 2 |
| Saham | 5 | 9 | 5 | 7 | — | — | 6 | 1 | 16 | 17 | 33 | 7 |
| Bahla | 4 | 1 | 2 | — | — | — | 1 | 4 | 7 | 5 | 12 | 3 |
| B.B.B. Ali | 8 | 4 | 2 | 2 | — | 2 | 4 | 1 | 14 | 9 | 23 | 9 |
| B.B.B. Hassan | 5 | 5 | 2 | 2 | — | — | 3 | 1 | 10 | 8 | 18 | 4 |
| Sinaw | 4 | 7 | 2 | 2 | 1 | — | 5 | 4 | 12 | 13 | 25 | 5 |
| Quriyat | 2 | 1 | 1 | — | — | — | 5 | 1 | 8 | 2 | 10 | 2 |
| Masirah | 2 | — | — | — | 1 | — | — | 1 | 3 | 1 | 4 | 2 |
| Wadi Tayeen | 2 | 1 | — | — | — | — | — | 1 | 2 | 2 | 4 | 1 |

| Hospitals/Health Centres | Under 1 year | | 1-14 years | | 15-44 years | | 45 years & above | | Total | | | Neonatal deaths |
|--------------------------|--------------|--------|------------|--------|-------------|--------|------------------|--------|-------|--------|-------|-----------------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Female | Total | |
| W.B. Ghaffir | — | 1 | — | — | — | — | — | — | — | 1 | 1 | 1 |
| W.B. Sarami | 1 | — | — | — | — | — | 2 | — | 3 | — | 3 | 1 |
| Haima | — | 1 | — | — | — | 1 | — | — | — | 2 | 2 | — |
| Izki | 1 | — | — | — | — | — | — | — | 1 | — | 1 | 1 |
| B.B. Khalid | 3 | — | — | — | — | — | — | — | 3 | — | 3 | 3 |
| Samad alshaan | 1 | — | — | — | — | — | — | — | 1 | — | 1 | 1 |
| Duqum | — | 2 | — | — | — | — | — | — | — | 2 | 2 | 2 |
| Tawi Attair | — | 1 | 1 | — | — | — | — | — | 1 | 1 | 2 | — |
| Total (Hospitals) | 394 | 332 | 118 | 104 | 159 | 94 | 492 | 278 | 1163 | 808 | 1971 | 412 |
| Total (Health Centres) | 40 | 38 | 16 | 14 | 2 | 3 | 34 | 17 | 92 | 72 | 164 | 49 |
| Grand Total | 434 | 370 | 134 | 118 | 161 | 97 | 526 | 295 | 1255 | 880 | 2135 | 461 |
| % of deaths | 20.3 | 17.3 | 6.3 | 5.5 | 7.6 | 4.6 | 24.6 | 13.8 | 58.8 | 41.2 | 100.0 | 21.6 |

TABLE 2.9

Main causes of mortality in hospitalized populationFor adults

| Diseases (ICD -8) | Number of deaths | Proportion to the total deaths (%) |
|---|------------------|------------------------------------|
| 1. IHD & other forms of heart diseases | 281 | 26.04 |
| 2. Cerebrovascular diseases | 146 | 13.53 |
| 3. Neoplasms of stomach & other digestive organs | 70 | 6.49 |
| 4. Intracranial injuries (excluding skull fracture) | 69 | 6.39 |
| 5. Respiratory tuberculosis | 35 | 3.24 |
| 6. Burn | 34 | 3.15 |

(Total adult deaths = 1,079)

For children

| | | |
|--|-----|-------|
| 1. Immaturity | 237 | 22.44 |
| 2. Enteritis & other diarrhoeal diseases | 129 | 12.22 |
| 3. Pneumonias | 109 | 10.32 |
| 4. Septicaemia | 91 | 8.62 |
| 5. Congenital diseases | 79 | 7.48 |
| 6. Measles | 76 | 7.20 |

(Total children deaths = 1,056)

TABLE 2.10
Patients seen in Out-Patient Departments — 1984

| Hospitals/HCs/ Dispensaries | New Cases | | | Re-visits | | | Grand Total | | | Daily average of patients treated |
|--------------------------------|-----------|--------|--------|-----------|--------|--------|-------------|--------|--------|--|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Hospitals | | | | | | | | | | |
| Khoula | 58953 | 28227 | 87180 | 54090 | 28316 | 82406 | 113043 | 56543 | 169586 | 463 |
| Al-Nahdha | 139400 | 91943 | 231343 | 80094 | 67310 | 147404 | 219494 | 159253 | 378747 | 1035 |
| Ar-Rahma | 20373 | 23136 | 43509 | 39262 | 56346 | 95608 | 59635 | 79482 | 139117 | 380 |
| Muscat | 53653 | 40959 | 94612 | 6680 | 4485 | 11165 | 60333 | 45444 | 105777 | 289 |
| Assada | 14775 | 27824 | 42599 | 16067 | 24855 | 40922 | 30842 | 52679 | 83521 | 228 |
| Ibn Sina | 963 | 695 | 1658 | 6248 | 4027 | 10275 | 7211 | 4722 | 11933 | 33 |
| Rustaq | 58829 | 58529 | 117358 | 22422 | 28879 | 51301 | 81251 | 87408 | 168659 | 461 |
| Sohar | 144711 | 136225 | 280936 | 35855 | 54183 | 90038 | 180566 | 190408 | 370974 | 1014 |
| Sumail | 17397 | 21523 | 38920 | 59818 | 91551 | 151369 | 77215 | 113074 | 190289 | 520 |
| Nizwa | 72824 | 67446 | 140270 | 27594 | 37807 | 65401 | 100418 | 105253 | 205671 | 562 |
| Ibra | 57434 | 59566 | 117000 | 44712 | 61423 | 106135 | 102146 | 120989 | 223135 | 610 |
| Sur | 19495 | 18397 | 37892 | 79549 | 68891 | 148440 | 99044 | 87288 | 186332 | 509 |
| Tanam | 78829 | 69614 | 148443 | 29469 | 44384 | 73853 | 108298 | 113998 | 222296 | 607 |

| Hospitals/HCs/ Dispensaries | New Cases | | | Re-visits | | | Grand Total | | | Daily average of patients treated |
|--------------------------------|-----------|--------|--------|-----------|--------|--------|-------------|--------|--------|--|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Buraimi | 62190 | 48001 | 110191 | 19877 | 20021 | 39898 | 82067 | 68022 | 150089 | 410 |
| Qaboos | 27788 | 14507 | 42295 | 245869 | 210551 | 456420 | 273657 | 225058 | 498715 | 1363 |
| <u>Health Centres</u> | | | | | | | | | | |
| Bukha | 9509 | 7555 | 17064 | 2703 | 3676 | 6379 | 12212 | 11231 | 23443 | 64 |
| Baya | 15546 | 16523 | 32069 | 14238 | 14482 | 28720 | 29784 | 31005 | 60789 | 166 |
| Khasab | 29942 | 22847 | 52789 | 7714 | 6387 | 14101 | 37656 | 29234 | 66890 | 183 |
| Saham | 61654 | 70673 | 132327 | 12022 | 16974 | 28996 | 73676 | 87647 | 161323 | 441 |
| Masnah | 50939 | 51530 | 102469 | 10792 | 11889 | 22681 | 61731 | 63419 | 125150 | 342 |
| Bahla | 60066 | 63941 | 124007 | 9073 | 13195 | 22268 | 69139 | 77136 | 146275 | 400 |
| B.B.B. Ali | 64766 | 81380 | 146146 | 13164 | 20856 | 34020 | 77930 | 102236 | 180166 | 492 |
| B.B.B. Hassan | 35807 | 31533 | 67340 | 11165 | 22327 | 33492 | 46972 | 53860 | 100832 | 275 |
| Sinaw | 47467 | 44511 | 91978 | 28971 | 38405 | 67376 | 76438 | 82916 | 159354 | 435 |
| Quriyat | 30631 | 32881 | 63512 | 6280 | 11627 | 17907 | 36911 | 44508 | 81419 | 222 |
| Masirah | 9917 | 9516 | 19433 | 24180 | 30104 | 54284 | 34097 | 39620 | 73717 | 201 |

| Hospitals/HCs/ Dispensaries | New Cases | | | Re-visits | | | Grand Total | | | Daily average of patients treated |
|--------------------------------|-----------|---------|---------|-----------|---------|---------|-------------|---------|---------|--|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Wadi Tayeen | 18645 | 29554 | 48199 | 9508 | 12832 | 22340 | 28153 | 42386 | 70539 | 193 |
| W.B. Ghaffir | 9105 | 10883 | 19988 | 17689 | 23275 | 40964 | 26794 | 34158 | 60952 | 167 |
| Wadi Sarami | 4228 | 4022 | 8250 | 1551 | 1488 | 3039 | 5779 | 5510 | 11289 | 31 |
| Haima | 5438 | 1276 | 6714 | 2780 | 1081 | 3861 | 8218 | 2357 | 10575 | 29 |
| Izki | 13866 | 16332 | 30198 | 21033 | 22946 | 43979 | 34899 | 39278 | 74177 | 203 |
| W.B. Khalid | 6107 | 5430 | 11537 | 7687 | 8313 | 16000 | 13794 | 13743 | 27537 | 75 |
| Samad alshaan | 25488 | 30312 | 55800 | 9591 | 11292 | 20883 | 35079 | 41604 | 76683 | 210 |
| Duqum | 4452 | 4160 | 8612 | 4748 | 5130 | 9878 | 9200 | 9290 | 18490 | 51 |
| Wadi Jizzi | 10411 | 7900 | 18311 | 4980 | 5486 | 10466 | 15391 | 13386 | 28777 | 79 |
| Tawi Attair * | 9131 | 4411 | 13542 | 1913 | 1230 | 3143 | 11044 | 5641 | 16685 | 50 |
| Total (Hospitals) | 827614 | 706592 | 1534206 | 767606 | 803029 | 1570635 | 1595220 | 1509621 | 3104841 | 8483 |
| Total (Health Centres) | 523115 | 547170 | 1070285 | 221782 | 282995 | 504777 | 744897 | 830165 | 1575062 | 4303 |
| Total (Hospitals & HCs) | 1350729 | 1253762 | 2604491 | 989388 | 1086024 | 2075412 | 2340117 | 2339786 | 4679903 | 12787 |
| Dispensaries | 1467120 | | | 372875 | | | 1839995 | | | 5027 |
| Grand Total | 4071611 | | | 2448287 | | | 6519898 | | | 17,814 |

* Started in February 1984

TABLE 2.11

Main causes for contact with health facilities — 1984Hospitals/Health Centres

| Diseases (ICD-8) | Cases | Proportion to the total cases (%) |
|--|---------|-----------------------------------|
| 1. Acute respiratory infection | 353,989 | 13.59 |
| 2. Enteritis & other diarrhoeal diseases | 190,672 | 7.32 |
| 3. Inflammatory diseases of eye | 125,869 | 4.83 |
| 4. Malaria | 123,340 | 4.74 |
| 5. Diseases of teeth & supporting structures | 117,556 | 4.51 |
| 6. Bronchitis, emphysema & asthma | 96,196 | 3.69 |
| 7. Hypertrophy of tonsils & adenoids | 95,579 | 3.67 |
| 8. Infections of skin & subcutaneous tissue | 84,129 | 3.23 |
| 9. Gastritis & duodenitis | 77,273 | 2.97 |
| 10. Laceration & open wound | 46,092 | 1.77 |

[Total new OPD cases (Hospitals/HCs) = 2,604,491]

Dispensaries

| | | |
|--|---------|------|
| 1. Acute gastro-enteritis & diarrhoea | 138,867 | 9.47 |
| 2. Diseases of skin & subcutaneous tissue | 133,913 | 9.13 |
| 3. Malaria | 101,979 | 6.95 |
| 4. Conjunctivitis | 100,092 | 6.82 |
| 5. Epigastric pain | 89,763 | 6.12 |
| 6. Acute tonsillitis | 81,570 | 5.56 |
| 7. Injuries | 79,126 | 5.39 |
| 8. Diseases of teeth & supporting structures | 50,587 | 3.45 |
| 9. Nutritional deficiencies | 47,614 | 3.25 |
| 10. Discharging ear | 43,689 | 2.98 |

[Total new cases (dispensaries) = 1,467,120]

TABLE 2.12

Number of reported cases of infectious diseases — 1984

| Diseases | *Cases treated by curative units | Cases treated by public health units | Total cases |
|--|----------------------------------|--------------------------------------|-------------|
| Typhoid fever | 126 | — | 126 |
| Para-typhoid & salmonella infections | 4 | — | 4 |
| Bacillary dysentery & amoebiasis | 10394 | — | 10394 |
| Enteritis and other diarrhoeal diseases | 329539 | 5 | 329544 |
| Tuberculosis of respiratory system | 820 | 128 | 948 |
| Other tuberculosis | 775 | — | 775 |
| Brucellosis | 228 | — | 228 |
| Leprosy | 9 | — | 9 |
| Diphtheria | 9 | — | 9 |
| Whooping cough | 816 | 14 | 830 |
| Meningitis | 281 | — | 281 |
| Tetanus | 51 | — | 51 |
| Acute poliomyelitis | 30 | — | 30 |
| Late effects of acute poliomyelitis | 50 | — | 50 |
| Measles | 8782 | 870 | 9652 |
| Infectious hepatitis | 2604 | 423 | 3027 |
| Trachoma — active | 10067 | 5 | 10072 |
| — late effects | 6867 | — | 6867 |
| Chicken-pox | 12310 | 3009 | 15319 |
| Mumps | 15376 | 1413 | 16789 |
| Viral encephalitis | 72 | — | 72 |
| Malaria | 225319 | — | 225319 |
| Venereal diseases | 3106 | — | 3106 |
| Helminthiasis and other infective and parasitic diseases | 18270 | 11 | 18281 |
| Avitaminoses & other nutritional deficiency | 58971 | — | 58971 |
| Anaemias | 67225 | — | 67225 |
| Influenza | 50369 | — | 50369 |
| Viral pneumonia | 1248 | — | 1248 |
| Other pneumonia | 6430 | — | 6430 |

* The number of cases as registered in OPD's except for typhoid, paratyphoid, brucellosis, diphtheria, tetanus, acute poliomyelitis, late effects of poliomyelitis, meningitis, viral encephalitis, and leprosy, the cases of which are hospitalized cases.

MEASLES AND WHOOPING COUGH CASES 1980-1984

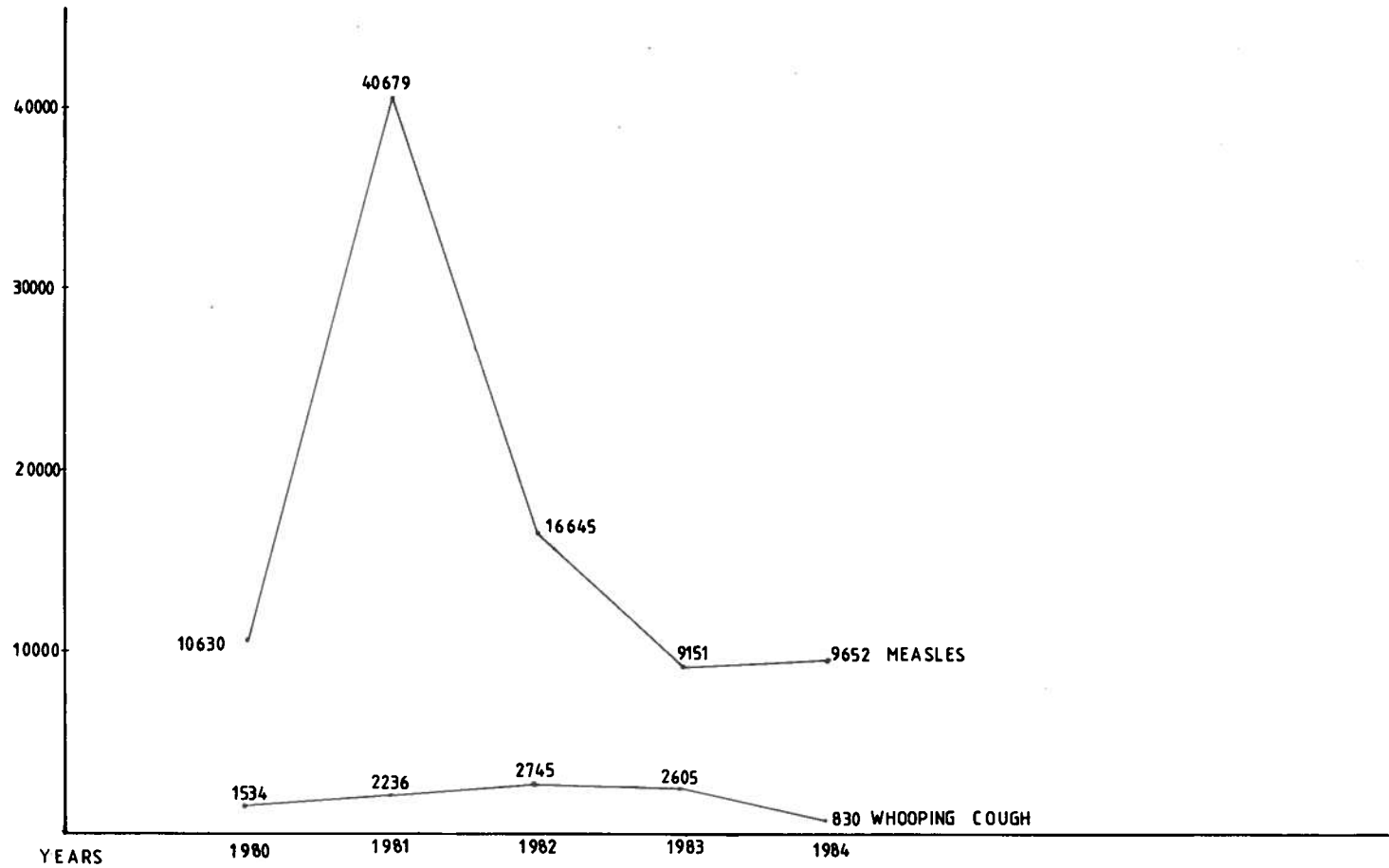


TABLE 2.13

Number of Deliveries & Births — 1984

| Hospitals/ HCs | Deliveries | | | | | | | Births | | | | | | | |
|-------------------|----------------|-----------|---------|--------|-------|---------------------------|----------------|-------------|-----------|--------|-------|------------|----------------|--------------------|-------------------|
| | In health unit | | | | | Born before arrival | Grand Total | Live births | | | | Still born | Grand Total | % of Still born | % of Premature |
| | Normal | Caesarian | Forceps | Others | Total | | | Normal | Premature | Others | Total | | | | |
| Hospitals | | | | | | | | | | | | | | | |
| Khoula | 6902 | 550 | 48 | 185 | 7685 | 632 | 8317 | 7816 | 389 | 30 | 8235 | 151 | 8386 | 1.8 | 4.7 |
| Assada | 1071 | — | 13 | 112 | 1196 | 144 | 1340 | 1314 | 20 | 1 | 1335 | 15 | 1350 | 1.1 | 1.5 |
| Buraimi | 468 | 15 | — | 23 | 506 | 31 | 537 | 523 | 12 | 1 | 536 | 5 | 541 | 0.9 | 2.2 |
| Tanam | 1530 | 43 | — | 70 | 1643 | 221 | 1864 | 1781 | 54 | 7 | 1842 | 40 | 1882 | 2.1 | 2.9 |
| Sohar | 2819 | 41 | 47 | 209 | 3116 | 659 | 3775 | 3599 | 144 | 5 | 3748 | 66 | 3814 | 1.7 | 3.8 |
| Sumail | 1024 | 16 | 9 | 121 | 1170 | 94 | 1264 | 1089 | 25 | 148 | 1262 | 13 | 1275 | 1.0 | 2.0 |
| Nizwa | 1218 | 159 | 6 | 54 | 1437 | 66 | 1503 | 1311 | 76 | 104 | 1491 | 29 | 1520 | 1.9 | 5.1 |
| Rustaq | 2766 | 19 | 9 | 77 | 2871 | 425 | 3296 | 3190 | 73 | 6 | 3269 | 61 | 3330 | 1.8 | 2.2 |
| Sur | 1708 | 49 | 22 | 150 | 1929 | 203 | 2132 | 2068 | 48 | 2 | 2118 | 32 | 2150 | 1.5 | 2.3 |
| Qaboos | 1997 | 126 | 30 | 159 | 2312 | 39 | 2351 | 2229 | 91 | 21 | 2341 | 36 | 2377 | 1.5 | 3.9 |
| Ibra | 928 | 22 | 1 | 38 | 989 | 191 | 1180 | 1041 | 134 | 3 | 1178 | 17 | 1195 | 1.4 | 11.4 |

| Hospitals/ HCs | Deliveries | | | | | | | Births | | | | | | | |
|-----------------------|----------------|-----------|---------|--------|-------|---------------------------|----------------|-------------|-----------|--------|-------|------------|----------------|--------------------|-------------------|
| | In health unit | | | | | Born before arrival | Grand Total | Live births | | | | Still born | Grand Total | % of Still born | % of Premature |
| | Normal | Caesarian | Forceps | Others | Total | | | Normal | Premature | Others | Total | | | | |
| Health Centres | | | | | | | | | | | | | | | |
| Bukha ✓ | 61 | — | — | — | 61 | 3 | 64 | 60 | — | 5 | 65 | — | 65 | — | — |
| Baya ✓ | 296 | 1 | 2 | 21 | 320 | 13 | 333 | 321 | 7 | 2 | 330 | 4 | 334 | 1.2 | 2.1 |
| Khasab ✓ | 257 | 2 | 2 | 36 | 297 | 9 | 306 | 291 | 10 | 5 | 306 | 3 | 309 | 1.0 | 3.3 |
| Saham ✓ | 2179 | 1 | 3 | 196 | 2379 | 346 | 2725 | 2669 | 41 | 10 | 2720 | 22 | 2742 | 0.8 | 1.5 |
| Bahla ✓ | 865 | — | 1 | 17 | 883 | 65 | 948 | 888 | 49 | 5 | 942 | 10 | 952 | 1.1 | 5.2 |
| B.B.B. Ali ✓ | 491 | — | — | 37 | 528 | 103 | 631 | 616 | 14 | — | 630 | 9 | 639 | 1.4 | 2.2 |
| B.B.B. Hassan ✓ | 537 | — | — | 7 | 544 | 94 | 638 | 622 | 12 | 5 | 639 | 4 | 643 | 0.6 | 1.9 |
| Sinaw ✓ | 653 | — | — | 43 | 696 | 172 | 868 | 857 | 11 | 3 | 871 | 9 | 880 | 1.0 | 1.3 |
| Quriyat ✓ | 507 | — | 2 | 11 | 520 | 218 | 738 | 716 | 18 | 5 | 739 | 7 | 746 | 0.9 | 2.4 |
| Masirah ✓ | 106 | — | 1 | 9 | 116 | 14 | 130 | 125 | 4 | — | 129 | 2 | 131 | 1.5 | 3.1 |
| Wadi Tayeen ✓ | 191 | — | — | 5 | 196 | 67 | 263 | 225 | 32 | 4 | 261 | 5 | 266 | 1.9 | 12.3 |
| W.B. Khalid ✓ | 98 | — | — | 1 | 99 | 32 | 131 | 128 | 3 | 1 | 132 | 1 | 133 | 0.8 | 2.3 |

| Hospitals/ HCs | Deliveries | | | | | | | Births | | | | | | | |
|-----------------------------------|----------------|-------------|------------|-------------|--------------|---------------------------|----------------|--------------|-------------|------------|--------------|------------|----------------|--------------------|-------------------|
| | In health unit | | | | | Born before arrival | Grand Total | Live births | | | | Still born | Grand Total | % of Still born | % of Premature |
| | Normal | Caesarian | Forceps | Others | Total | | | Normal | Premature | Others | Total | | | | |
| W.B. Ghaffir | 178 | — | — | — | 178 | 36 | 214 | 192 | 21 | — | 213 | 3 | 216 | 1.4 | 9.9 |
| Samad Alshaan | 210 | — | — | 2 | 212 | 76 | 288 | 277 | 14 | 1 | 292 | — | 292 | — | 4.8 |
| Wadi Sarami | 43 | — | — | 1 | 44 | 1 | 45 | 43 | 1 | 1 | 45 | — | 45 | — | 2.2 |
| Haima | 20 | — | — | — | 20 | — | 20 | 19 | 1 | — | 20 | — | 20 | — | 5.0 |
| Izki | 338 | — | — | — | 338 | 23 | 361 | 325 | 4 | 32 | 361 | 2 | 363 | 0.6 | 1.1 |
| Duqum | 46 | — | — | — | 46 | 26 | 72 | 70 | 2 | — | 72 | 2 | 74 | 2.7 | 2.8 |
| Tawi Attair | 16 | — | — | — | 16 | — | 16 | 15 | — | — | 15 | 1 | 16 | 6.3 | — |
| Total (Hospitals) | 22431 | 1040 | 185 | 1198 | 24854 | 2705 | 27559 | 25961 | 1066 | 328 | 27355 | 465 | 27820 | 1.7 | 3.9 |
| Total (Health Centres) | 7092 | 4 | 11 | 386 | 7493 | 1298 | 8791 | 8459 | 244 | 79 | 8782 | 84 | 8866 | 0.9 | 2.8 |
| Grand Total | 29523 | 1044 | 196 | 1584 | 32347 | 4003 | 36350 | 34420 | 1310 | 407 | 36137 | 549 | 36686 | 1.5 | 3.6 |

DELIVERIES IN CURATIVE AND PREVENTIVE UNITS - 1984

HOSPITALS
HEALTH CENTRES
PUBLIC HEALTH UNITS

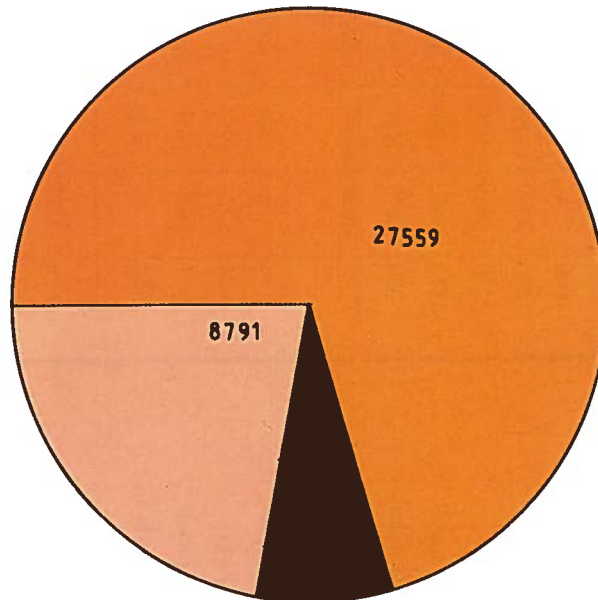


TABLE 2.14

Activities of Gynaecology Departments in Hospitals and Health Centres — 1984

| Hospitals/HCs | Ante-natal visits | | | Post-natal visits | | | Number and type of complications of pregnancy | | |
|-----------------------|-------------------|-----------|-------|-------------------|-----------|-------|---|-----------|----------|
| | New | Re-visits | Total | New | Re-visits | Total | Toxaemia | Eclampsia | Abortion |
| Hospitals | | | | | | | | | |
| Khoula | 5643 | 29605 | 35248 | 5103 | 14036 | 19139 | 226 | 7 | 1376 |
| Assada | 3971 | 3860 | 7831 | 2937 | — | 2937 | 75 | — | 203 |
| Rustaq | 3406 | 9580 | 12986 | 56 | — | 56 | 77 | 6 | 316 |
| Sohar | 4238 | — | 4238 | — | — | — | 62 | 4 | 361 |
| Sumail | 1441 | 6264 | 7705 | 199 | 176 | 375 | 28 | 2 | 141 |
| Nizwa | 1699 | — | 1699 | 3023 | 27644 | 30667 | 29 | 2 | 318 |
| Ibra | 1716 | 3339 | 5055 | 758 | 1532 | 2290 | 9 | — | 142 |
| Sur | 2230 | 6369 | 8599 | — | — | — | 7 | 1 | 216 |
| Tanam | 1570 | 4450 | 6020 | 502 | — | 502 | 8 | — | 222 |
| Buraimi | 339 | 1279 | 1618 | — | — | — | 8 | — | 128 |
| Qaboos | 2765 | 22020 | 24785 | 1458 | 5427 | 6885 | 270 | 2 | 306 |
| Health Centres | | | | | | | | | |
| Bukha | 96 | 272 | 368 | 20 | 11 | 31 | — | — | 7 |
| Baya | 626 | 1226 | 1852 | — | — | — | 3 | — | 33 |
| Khasab | 443 | 1433 | 1876 | 123 | 45 | 168 | 1 | — | 10 |
| Saham | 258 | — | 258 | 265 | — | 265 | 2 | — | 154 |
| Bahla | — | — | — | — | — | — | 3 | — | 110 |
| B.B.B. Ali | — | 3716 | 3716 | — | — | — | 4 | — | 132 |
| B.B.B. Hassan | — | — | — | — | — | — | — | 3 | 57 |
| Sinaw | 1195 | 3142 | 4337 | — | — | — | 15 | — | 92 |
| Quriyat | 869 | 2387 | 3256 | — | — | — | 7 | 2 | 125 |
| Masirah | 155 | 703 | 858 | 50 | 141 | 191 | 2 | — | 10 |
| Wadi Tayeen | 321 | 1493 | 1814 | — | — | — | — | — | 17 |
| W.B. Ghaffir | 207 | 702 | 909 | 26 | 23 | 49 | — | — | 25 |
| Wadi Sarami | — | — | — | — | — | — | — | — | 7 |
| Izki | 59 | 19 | 78 | 58 | 23 | 81 | — | — | 3 |

| Hospitals/HCs | Ante-natal visits | | | Post-natal visits | | | Number and type of complications of pregnancy | | |
|------------------------|-------------------|-----------|--------|-------------------|-----------|-------|---|-----------|----------|
| | New | Re-visits | Total | New | Re-visits | Total | Toxaemia | Eclampsia | Abortion |
| Duqum | 87 | 45 | 132 | 3 | — | 3 | — | — | 8 |
| Haima | 18 | 3 | 21 | 6 | — | 6 | — | — | 3 |
| W.B. Khalid | 159 | 503 | 662 | 42 | 23 | 65 | 4 | — | 4 |
| Samad Alshaan | 478 | 1404 | 1882 | — | — | — | 5 | — | 17 |
| Tawi Attair | 11 | 17 | 28 | 1 | — | 1 | — | — | — |
| Total (Hospitals) | 29018 | 86766 | 115784 | 14036 | 48815 | 62851 | 799 | 24 | 3729 |
| Total (Health Centres) | 4982 | 17065 | 22047 | 594 | 266 | 860 | 46 | 5 | 814 |
| Grand Total | 34000 | 103831 | 137831 | 14630 | 49081 | 63711 | 845 | 29 | 4543 |

TABLE 2.15

Operations performed in Curative Units — 1984

| Hospitals/HCs/ Dispensaries | Minor operations done in | | | Major Operations done | Grand Total |
|--------------------------------|----------------------------|-----------------------|-------|-----------------------------|----------------|
| | Out-Patient Departments | Operation Theatres | Total | | |
| Hospitals | | | | | |
| Khoula | 5393 | 7429 | 12822 | 3854 | 16676 |
| Al-Nahdha | 3456 | 1807 | 5263 | 1657 | 6920 |
| Ar-Rahma | 218 | — | 218 | — | 218 |
| Muscat | 942 | — | 942 | — | 942 |
| Assada | 145 | — | 145 | — | 145 |
| Buraimi | 410 | 1238 | 1648 | 278 | 1926 |
| Tanam | 3709 | 571 | 4280 | 245 | 4525 |
| Sohar | 1966 | 3314 | 5280 | 473 | 5753 |
| Sumail | — | 7946 | 7946 | 137 | 8083 |
| Nizwa | 1449 | 4154 | 5603 | 784 | 6387 |
| Ibra | 6 | 2196 | 2202 | 122 | 2324 |
| Sur | 2287 | 1364 | 3651 | 308 | 3959 |
| Qaboos | 2021 | 4661 | 6682 | 3831 | 10513 |
| Rustaq | 578 | 1931 | 2509 | 105 | 2614 |
| Health Centres | | | | | |
| Bukha | 106 | — | 106 | 2 | 108 |
| Baya | 303 | 582 | 885 | 18 | 903 |
| Khasab | 5 | 640 | 645 | 127 | 772 |
| Saham | 1247 | 107 | 1354 | — | 1354 |
| Masnah | 590 | — | 590 | — | 590 |
| Bahla | 1250 | 7 | 1257 | — | 1257 |
| B.B.B. Ali | 842 | — | 842 | — | 842 |
| B.B.B. Hassan | 408 | 9 | 417 | — | 417 |
| Sinaw | 712 | 2 | 714 | — | 714 |
| Quriyat | 418 | — | 418 | — | 418 |
| Masirah | 314 | 226 | 540 | 7 | 547 |

| Hospitals/HCs/ Dispensaries | Minor operations done in | | | Major Operations done | Grand Total |
|--------------------------------|----------------------------|-----------------------|-------|-----------------------------|----------------|
| | Out-Patient Departments | Operation Theatres | Total | | |
| Wadi Tayeen | 365 | — | 365 | — | 365 |
| W.B. Ghaffir | 97 | — | 97 | — | 97 |
| Wadi Sarami | 98 | — | 98 | — | 98 |
| Haima | 46 | — | 46 | — | 46 |
| Izki | 438 | — | 438 | — | 438 |
| W.B. Khalid | 74 | — | 74 | — | 74 |
| Samad Alshaan | 228 | — | 228 | — | 228 |
| Duqum | 145 | — | 145 | — | 145 |
| Wadi Jizzi | 141 | — | 141 | — | 141 |
| Tawi Attair | 47 | — | 47 | — | 47 |
| Total (Hospitals) | 22580 | 36611 | 59191 | 11794 | 70985 |
| Total (Health Centres) | 7874 | 1573 | 9447 | 154 | 9601 |
| Dispensaries | 5029 | — | 5029 | — | 5029 |
| Grand Total | 35483 | 38184 | 73667 | 11948 | 85615 |

TABLE 2.16

X-rays carried out in Curative Units — 1984

| Hospitals/HCs | Number of patients x-rayed | | | X-rayed sites | | | | |
|------------------|----------------------------|-----------|-------|---------------|---------|-------------|--------|-------|
| | New | Old cases | Total | Chest | Abdomen | Extremities | Others | Total |
| Hospitals | | | | | | | | |
| Khoula | 30066 | 15824 | 45890 | 9892 | 6427 | 29576 | 14162 | 60057 |
| Al Nahdha | 23403 | 5650 | 29053 | 18900 | 3201 | 2293 | 8665 | 33059 |
| Ar-Rahma | 7837 | 4608 | 12445 | 10684 | 660 | 708 | 1417 | 13469 |
| Muscat | 359 | 10 | 369 | 139 | 46 | 160 | 47 | 392 |
| Ibn Sina | 1267 | 119 | 1386 | 666 | 29 | 89 | 823 | 1607 |
| Rustaq | 8229 | 1233 | 9462 | 6522 | 1223 | 1449 | 950 | 10144 |
| Sohar | 11762 | 3457 | 15219 | 8351 | 2222 | 3864 | 2557 | 16994 |
| Sumail | 3849 | 1585 | 5434 | 3198 | 669 | 1147 | 948 | 5962 |
| Nizwa | 7735 | 2672 | 10407 | 6118 | 1298 | 1961 | 2341 | 11718 |
| Ibra | 4596 | 699 | 5295 | 2781 | 1097 | 1021 | 1007 | 5906 |
| Sur | 4235 | 1855 | 6090 | 3344 | 1088 | 1331 | 1047 | 6810 |
| Tanam | 7561 | 2583 | 10144 | 5851 | 1185 | 1785 | 1344 | 10165 |
| Buraimi | 5522 | 934 | 6456 | 3894 | 823 | 1277 | 1427 | 7421 |
| Qaboos | 15573 | 8543 | 24116 | 10553 | 4021 | 6014 | 10624 | 31212 |

| Hospitals/HCs | Number of patients x-rayed | | | X-rayed sites | | | | |
|-------------------------------|----------------------------|--------------|---------------|---------------|--------------|--------------|--------------|---------------|
| | New | Old cases | Total | Chest | Abdomen | Extremities | Others | Total |
| Health Centres | | | | | | | | |
| Bukha | 1618 | 108 | 1726 | 959 | 245 | 469 | 365 | 2038 |
| Baya | 627 | 111 | 738 | 479 | 78 | 166 | 69 | 792 |
| Saham | 5248 | 547 | 5795 | 3804 | 681 | 1316 | 1214 | 7015 |
| Bahla | 3090 | 763 | 3853 | 2726 | 497 | 628 | 422 | 4273 |
| B.B.B. Ali | 2478 | 751 | 3229 | 2090 | 402 | 544 | 347 | 3383 |
| B.B.B. Hassan | 2167 | 378 | 2545 | 1652 | 315 | 903 | 437 | 3307 |
| Sinaw | 2980 | 926 | 3906 | 2478 | 528 | 732 | 412 | 4150 |
| Quriyat | 2965 | 425 | 3390 | 1826 | 435 | 891 | 1209 | 4361 |
| Masirah | 1546 | 497 | 2043 | 1157 | 232 | 465 | 289 | 2143 |
| Wadi Tayeen | 745 | 69 | 814 | 598 | 86 | 97 | 73 | 854 |
| Total (Hospitals) | 131994 | 49772 | 181766 | 90893 | 23989 | 52675 | 47359 | 214916 |
| Total (Health Centres) | 23464 | 4575 | 28039 | 17769 | 3499 | 6211 | 4837 | 32316 |
| Grand Total | 155458 | 54347 | 209805 | 108662 | 27488 | 58886 | 52196 | 247232 |

TABLE 2.17

Types of Laboratory Investigations by Curative Units — 1984

| Hospitals/HCs | Haematology | Bio-Chemistry | Semen analysis | Bacteriology & Serology | Urine | Stool | Body fluids | Blood-groupings | Others | Grand Total |
|------------------|-------------|---------------|----------------|-------------------------|-------|-------|-------------|-----------------|--------|-------------|
| Hospitals | | | | | | | | | | |
| Khoula | 128348 | 47421 | 797 | 27879 | 49333 | 2348 | 61 | 19999 | 8107 | 284293 |
| Al-Nahdha | 164122 | 125142 | 159 | 38392 | 20876 | 11803 | — | 6794 | 12378 | 379666 |
| Ar-Rahma | 65562 | 31858 | 57 | 7411 | 15375 | 6282 | 252 | 11626 | 1224 | 139647 |
| Muscat | 5569 | 272 | 18 | 375 | 2363 | 846 | 2 | 79 | 7 | 9531 |
| Assada | 25300 | 597 | — | 4583 | 16101 | 301 | 150 | 3333 | — | 50365 |
| Ibn Sina | 4007 | 320 | 2 | 285 | 1211 | 190 | — | 161 | 185 | 6361 |
| Rustaq | 37264 | 2829 | 65 | 3053 | 13199 | 4031 | 53 | 6835 | 252 | 67581 |
| Sohar | 57313 | 6661 | 134 | 9094 | 21976 | 8112 | 109 | 12745 | 511 | 116655 |
| Sumail | 27744 | 3357 | 39 | 2367 | 7781 | 3985 | 52 | 3848 | 456 | 49629 |
| Nizwa | 48911 | 7814 | 154 | 3394 | 16108 | 5858 | 162 | 10148 | 161 | 92710 |
| Ibra | 50646 | 2599 | 49 | 2312 | 7906 | 2490 | 41 | 6752 | 114 | 72909 |
| Sur | 45835 | 4511 | 95 | 3451 | 13593 | 3629 | 32 | 5311 | 220 | 76677 |
| Tanam | 60564 | 4657 | 65 | 3349 | 14626 | 6959 | 98 | 8733 | 215 | 99266 |
| Buraimi | 27572 | 2623 | 71 | 3528 | 12293 | 5081 | 1 | 6012 | 8 | 57189 |
| Qaboos | 82374 | 28286 | 249 | 17863 | 34142 | 12938 | 81 | 10641 | 1598 | 188172 |

| Hospitals/HCs | Haematology | Bio-Chemistry | Semen analysis | Bacteriology & Serology | Urine | Stool | Body fluids | Blood-groupings | Others | Grand Total |
|------------------------------|-------------|---------------|----------------|-------------------------|-------|-------|-------------|-----------------|--------|-------------|
| <u>Health Centres</u> | | | | | | | | | | |
| Bukha | 2654 | 101 | 1 | 168 | 1148 | 527 | — | 378 | 1 | 4978 |
| Baya | 6182 | 582 | 12 | 694 | 3093 | 431 | — | 604 | 8 | 11606 |
| Khasab | 8631 | 624 | 18 | 842 | 3902 | 1465 | 3 | 1366 | 23 | 16874 |
| Saham | 20769 | 687 | 18 | 2985 | 7433 | 2602 | 6 | 2868 | — | 37368 |
| Bahla | 19547 | 1104 | 14 | 1943 | 6953 | 3039 | — | 3738 | 298 | 36636 |
| B.B.B. Ali | 23951 | 489 | 16 | 1151 | 6999 | 3257 | — | 3902 | 48 | 39813 |
| B.B.B. Hassan | 24451 | 1433 | 14 | 1658 | 5838 | 3186 | 3 | 3182 | 31 | 39796 |
| Sinaw | 21566 | 2343 | 12 | 1752 | 11958 | 2335 | — | 1750 | 393 | 42109 |
| Quriyat | 17665 | 485 | 7 | 995 | 4776 | 2424 | — | 1432 | 127 | 27911 |
| Masirah | 6641 | 264 | 11 | 636 | 2940 | 1393 | 1 | 610 | 18 | 12514 |
| Wadi Tayeen | 16421 | 116 | 1 | 460 | 2221 | 1575 | — | 390 | 16 | 21200 |
| W.B Ghaffir | 6255 | 80 | — | 279 | 791 | 274 | — | 566 | — | 8245 |
| Wadi Sarami | 2690 | 37 | — | 108 | 484 | 86 | — | 152 | 2 | 3559 |
| Haima | 20 | — | — | — | 15 | — | — | — | — | 35 |

| Hospitals/HCs | Haematology | Bio- Chemistry | Semen analysis | Bacteriology & Serology | Urine | Stool | Body fluids | Blood- groupings | Others | Grand Total |
|-----------------------------------|----------------|-------------------|-------------------|----------------------------|---------------|---------------|----------------|---------------------|--------------|----------------|
| Izki | 8776 | — | — | 84 | 2993 | 1553 | — | 1146 | — | 14552 |
| W.B. Khalid | 3885 | 4 | — | 32 | 518 | 177 | — | 283 | — | 4899 |
| Samad Alshaan | 4523 | — | — | 227 | 1741 | 460 | — | 640 | — | 7591 |
| Duqum | 2931 | 29 | — | 125 | 685 | 348 | — | 68 | 5 | 4191 |
| Wadi Jizzi | 3358 | 13 | 4 | 93 | 505 | 182 | — | 60 | 10 | 4225 |
| Total (Hospitals) | 831131 | 268947 | 1954 | 127336 | 246883 | 74853 | 1094 | 113017 | 25436 | 1690651 |
| Total (Health Centres) | 200916 | 8391 | 128 | 14232 | 64993 | 25314 | 13 | 23135 | 980 | 338102 |
| Grand Total | 1032047 | 277338 | 2082 | 141568 | 311876 | 100167 | 1107 | 136152 | 26416 | 2028753 |

TABLE 2.18
Dental Activities by Health Units — 1984

| Health Units | Type of treatment | | | Grand Total |
|--------------------------------|-------------------|----------|------------------|-------------|
| | Extractions | Fillings | Other treatments | |
| <u>Hospitals</u> | | | | |
| Al-Nahdha | 15151 | 2546 | 19270 | 36967 |
| Muscat | 413 | — | — | 413 |
| Rustaq | 3469 | 107 | 753 | 4329 |
| Sohar | 8110 | 199 | 1665 | 9974 |
| Sumail | 2428 | — | — | 2428 |
| Nizwa | 8515 | 1283 | 2387 | 12185 |
| Ibra | 6366 | — | — | 6366 |
| Sur | 3544 | 302 | 9 | 3855 |
| Tanam | 3679 | 178 | 565 | 4422 |
| Buraimi | 3153 | 972 | 1600 | 5725 |
| Qaboos | 4811 | 4129 | 6139 | 15079 |
| <u>Health Centres</u> | | | | |
| Bukha | 96 | — | — | 96 |
| Baya | 179 | — | — | 179 |
| Khasab | 1197 | — | — | 1197 |
| Saham | 3904 | 19 | 243 | 4166 |
| B.B.B. Ali | 133 | — | — | 133 |
| B.B.B. Hassan | 133 | — | — | 133 |
| Sinaw | 2521 | 5 | 31 | 2557 |
| Quriyat | 2629 | 1072 | 587 | 4288 |
| Wadi Tayeen | 22 | — | — | 22 |
| W.B. Khalid | 67 | — | — | 67 |
| Samad Alshaan | 137 | — | — | 137 |
| Total (Hospitals) | 59639 | 9716 | 32388 | 101743 |
| Total (Health Centres) | 11018 | 1096 | 861 | 12975 |
| Public Health Compounds | 1681 | 1470 | 819 | 3970 |
| Oral Hygiene Section (Darseit) | 1927 | 1056 | 1204 | 4187 |
| Grand Total | 74265 | 13338 | 35272 | 122875 |

2.1 TREATMENT ABROAD

The Ministry of Health send abroad every year a number of patients for treatment. The patients who can not be treated locally are sent abroad on Government expenses. Treatment Abroad Committee composed of specialists determines the merit of each case to be treated abroad.

(ii) 660 patients were sent abroad during 1984 for treatment of various diseases in 9 countries. Details are available in the tables.

TABLE 2.1.1

Patient Treated Abroad by Countries 1980 - 1984

| Years | Countries | | | | | | Total |
|-------|-----------|------|--------|--------|-------|-----------------|-------|
| | India | U.K. | Kuwait | Jordan | Egypt | Other countries | |
| 1980 | 128 | 100 | 31 | 23 | — | — | 282 |
| 1981 | 186 | 123 | 44 | 22 | — | 3 | 378 |
| 1982 | 215 | 171 | 48 | 22 | 17 | 2 | 475 |
| 1983 | 234 | 202 | 78 | 47 | 27 | 7 | 595 |
| 1984 | 224 | 262 | 96 | 42 | 29 | 7 | 660 |

TABLE 2.1.2

Number of Patients Treated Abroad by Diseases — 1984

| Diseases | Countries where treated | | | | | Total |
|-------------------------------|-------------------------|------------|-----------|-----------|-----------|------------|
| | U.K. | India | Kuwait | Jordan | Egypt | |
| Neoplasms | 10 | 47 | 52 | — | — | 109 |
| Heart diseases | 78 | 1 | 4 | 34 | — | 117 |
| Eye diseases | 37 | 25 | — | — | 3 | 65 |
| Neurology | 19 | 71 | 13 | 6 | 8 | 117 |
| Orthopaedics | 16 | 28 | — | — | 3 | 47 |
| Diseases of urinary system | 30 | 7 | 7 | — | — | 44 |
| Diseases of the blood | 12 | 5 | 8 | — | 1 | 26 |
| Intestinal diseases & surgery | 35 | 23 | 5 | — | 3 | 66 |
| ENT cases | 4 | — | — | — | 1 | 5 |
| Diseases of the liver | 2 | 2 | — | — | — | 4 |
| Chest infections | 5 | 2 | 1 | — | — | 8 |
| Skin diseases | 2 | 1 | 1 | — | — | 4 |
| Thyroidectomies | 2 | 2 | 4 | — | 1 | 9 |
| Oral surgery | 1 | 3 | — | — | 1 | 5 |
| Endocrine diseases | 3 | — | 1 | — | — | 4 |
| Plastic surgery | 1 | — | — | — | — | 1 |
| Psychiatric diseases | — | 1 | — | — | 3 | 4 |
| Investigations & checkups | 5 | 6 | — | 2 | 5 | 18 |
| Other diseases — not known | — | — | — | — | — | 7* |
| Total | 262 | 224 | 96 | 42 | 29 | 660 |

* 3 were sent to USA, 2 to West Germany and 1 each to Pakistan and Singapore

TABLE 2.1.3

Number of Patients Treated Abroad by Countries — 1984

| Countries | Number of patients treated | Patients died | Percent died |
|------------------|-----------------------------------|----------------------|---------------------|
| India | 224 | 22 | 9.8 |
| U.K. | 262 | 7 | 2.7 |
| Kuwait | 96 | 2 | 2.1 |
| Jordan | 42 | 3 | 7.1 |
| Egypt | 29 | — | — |
| USA | 3 | — | — |
| Germany | 2 | — | — |
| Pakistan | 1 | — | — |
| Singapore | 1 | — | — |
| Total | 660 | 34 | 5.2 |

3. PREVENTIVE SERVICES

The Directorate of Preventive Medicine administers the delivery of public health services. These services include ante-natal and post-natal care, school health services, environmental health, public health laboratories, health education, quarantine measures etc. Vertical programmes e.g. Expanded Programme of Immunization, Tuberculosis Control Programme, Programme for Prevention of Blindness, Diarrhoeal Diseases Control Programme, and Malaria Control Programme are also under the control of Directorate of Preventive Medicine.

(ii) At the end of 1984 there were 5 public health compounds, 40 public health units, 36 malaria units, 33 vector control units, 7 quarantine units, 2 MCH centres, 2 environmental health units plus Bacteriological Laboratory, Chemical Laboratory, units of Communicable Diseases Control, Health Education, School Health and Oral Hygiene. No public health facility existed in 1970.

TABLE 3.1

Expansion of Public Health Services 1975 - 1984

| Public Health Facilities | Number in | | | | | |
|--------------------------|-----------|------|------|------|------|------|
| | 1975 | 1980 | 1981 | 1982 | 1983 | 1984 |
| Public Health Compounds | 4 | 5 | 5 | 5 | 5 | 5 |
| Public Health Units | 6 | 13 | 24 | 32 | 28 | 40 |
| Malaria Units | — | 16 | 16 | 28 | 35 | 36 |
| MCH Centres | — | 2 | 2 | 2 | 2 | 2 |
| Quarantine Units | 6 | 7 | 7 | 7 | 7 | 7 |
| Vector Control Units | 6 | 13 | 13 | 30 | 30 | 33 |

Note: No public health facility existed in 1970

PREVENTIVE MEDICINE UNITS 1975-1984

PUBLIC HEALTH COMPOUNDS
PUBLIC HEALTH UNITS AND
HEALTH OFFICE
QUARANTINE UNITS
M. C. H. CENTRES



— 54 —

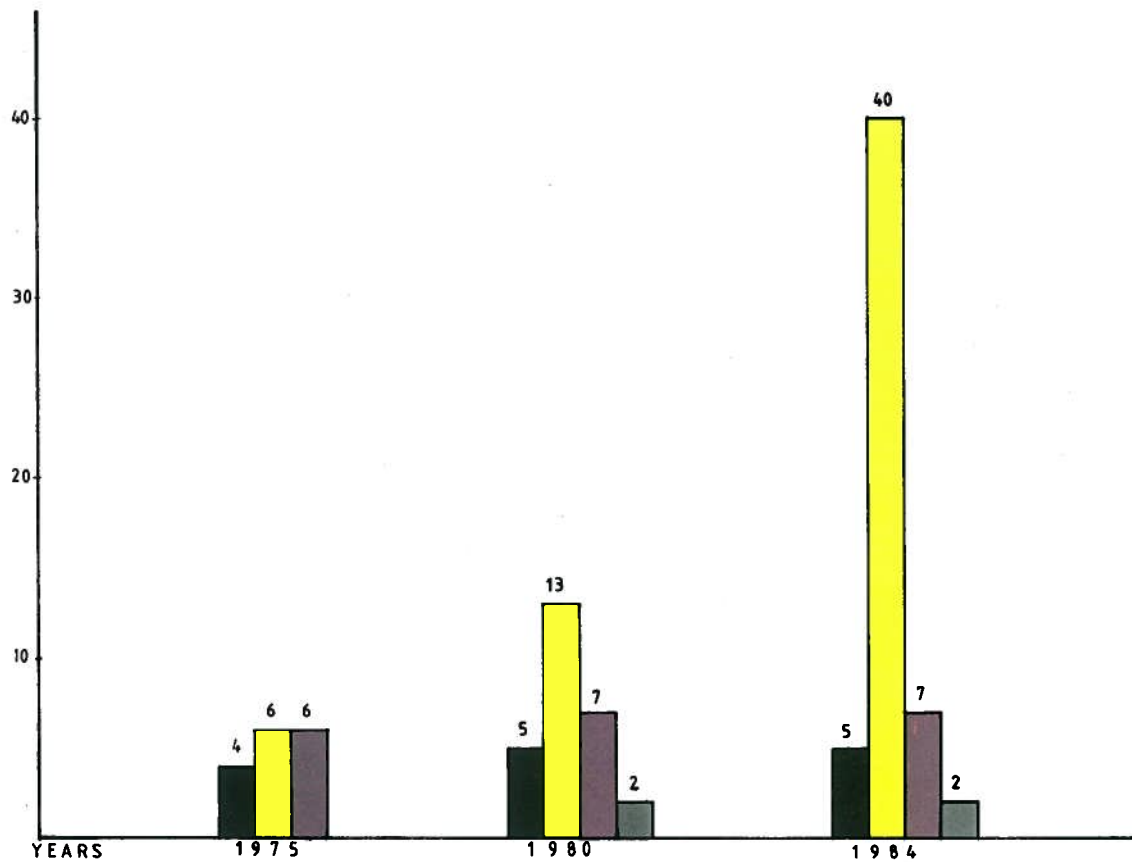


TABLE 3.2

Regional Distribution of Public Health Facilities — 31.12.1984

| Regions | Public Health Compounds | Public Health Units | Quarantine units | | | Vector Control Units | Malaria Control Units | Environmental Health Units | MCH Units |
|--------------|-------------------------|---------------------|------------------|----------|----------|----------------------|-----------------------|----------------------------|-----------|
| | | | Air-Ports | Ports | Borders | | | | |
| Capital Area | — | 2 | 1 | 2 | — | 3 | — | 1 | 2 |
| Northern | — | 2 | — | — | — | 1 | 1 | — | — |
| Al-Dhahira | 1 | 2 | — | — | — | 3 | 4 | — | — |
| Al-Batinah | 1 | 9 | — | — | 2 | 8 | 9 | 1 | — |
| Interior | 2 | 4 | — | — | — | 6 | 6 | — | — |
| Eastern | — | 16 | — | — | — | 11 | 15 | — | — |
| Southern | 1 | 5 | 1 | 1 | — | 1 | 1 | — | — |
| Total | 5 | 40 | 2 | 3 | 2 | 33 | 36 | 2 | 2 |

TABLE 3.3

MCH Activities — 1984

| Public Health Facilities | Pregnancies supervised at health facilities | Pregnancies supervised by home-visits | Home deliveries attended |
|---------------------------------|--|--|-------------------------------------|
| Public Health Compounds | 35158 | 540 | 1235 |
| Public Health Units | 28897 | 830 | 1618 |
| MCH Centres | 6127 | 79 | 86 |
| Total | 70182 | 1449 | 2939 |

TABLE 3.4

Number of Births, Deaths and Health Certificates issued (Preventive Medicine Units) — 1984

| Public Health Facilities | Birth Certificates | Age-estimation Certificates | Death Certificates | Health Certificates for food handlers | International Vaccination Certificates | Other Health Certificates | Grand Total |
|-------------------------------|--------------------|--------------------------------|--------------------|--|--|------------------------------|---------------|
| Communicable Diseases Section | — | 3211 | 201 | 7294 | 20853 | 2703 | 34262 |
| MCH Centres | 700 | — | — | — | — | — | 700 |
| Public Health Compounds | 12596 | 10004 | 38 | 5300 | 16406 | — | 44344 |
| Public Health Units | 20952 | 15576 | 21 | 4763 | 11851 | 157 | 53320 |
| Total | 34248 | 28791 | 260 | 17357 | 49110 | 2860 | 132626 |

(iii) **Other public health activities**

(1) **School Health Services**

These services being provided by Public Health Compounds/Units include medical examination of students, treatment of common diseases and vaccination against communicable diseases. During 1984, 6,763 schools were visited and 53,705 students were treated for various diseases. 115,802 vaccinations were carried out against communicable diseases. 93,952 blood slides were examined for Malaria out of which 8,301 or 8.8% were found positive.

(2) **Environmental Health Activities**

These activities cover provision of safe water supply & improving sanitary conditions. Restaurants, food stores/markets, slaughter houses etc are inspected periodically. Environmental Health Section in the Capital Area made 2,161 such visits during 1984.

(3) **Bacteriological & Chemical Laboratories**

The main functions of the laboratories are analysis of water & food samples, samples of other liquids besides food handlers examination. During 1984 Bacteriological Laboratory analysed 1,314 water samples, 483 samples of other liquids and 914 food samples. 11,884 food handlers were examined. Chemical Laboratory analysed 3,503 water samples and 2,366 food samples. 519 water tankers were disinfected.

(4) **Health Education Activities**

This service is rendered by Public Health Units through lectures, visual aids and mass media (Radio, T.V. & Press). It covers hygiene and sanitation and education concerning prevailing health problems & methods of preventing & controlling such health hazards.

(5) **Quarantine Activities**

These activities are carried out at ports, airports and border checkposts. The activities include examination of planes & ships with staff, passengers & imported food cargo. During 1984, 6,135 planes and 1,850 ships with 118,366 crew members and 412,190 passengers were checked. 20,717 release certificates for imported food stuffs were issued. 986 cholera inoculations & 55 yellow fever vaccinations were carried out and 34 passengers were quarantined.

3.1 Expanded Programme of Immunization (EPI)

The objective of EPI Programme is to reduce the morbidity & mortality due to six childhood diseases preventable by vaccination i.e. Measles, Polio, Diphtheria, Pertussis, Tetanus & Tuberculosis. To control Neonatal Tetanus, all women of child bearing age (12-49 years) are administered two doses of Tetanus Toxoid. The target of EPI is to achieve a 50% coverage for fully immunized children under one year of age by end of 1984, 70% by 1985 and over 90% by 1989.

2. The strategies adapted are fixed immunization centres i.e. curative & preventive units; out-reach teams operated from Public Health Units, Rural Health Services, Salalah & EPI Central Office and Mobile teams operating from EPI Central Office for nomadic population. 100 fixed units and 34 out-reach EPI units were functioning during 1984. Besides Ministry of Health, other health services offer immunization to the staff and their families. These include Department of Medical Services of the Diwan of Royal Court Affairs, Royal Oman Police, Sultan of Oman's Armed Forces & Oman Research Department.

3. Immunization figures for children under 6 years for the years from 1981 to 1984 are detailed below:-

| | <u>1981</u> | <u>1982</u> | <u>1983</u> | <u>1984</u> |
|--------------|-------------|-------------|-------------|-------------|
| <u>DPT</u> | | | | |
| 1st dose | 40315 | 73498 | 63622 | 64112 |
| 2nd dose | 22958 | 32429 | 56622 | 56092 |
| 3rd dose | 19023 | 22935 | 39308 | 53244 |
| <u>Polio</u> | | | | |
| 1st dose | 43315 | 77849 | 63599 | 64260 |
| 2nd dose | 24781 | 35175 | 56754 | 56220 |
| 3rd dose | 19923 | 24523 | 39857 | 53298 |
| BCG | 35400 | 67266 | 62385 | 52627 |
| Measles | 12518 | 70473 | 53338 | 65406 |

4. Drop-out rate for DPT/Polio (relationship between 3rd dose & 1st dose) for children under 6 years has considerably dropped over the years as detailed below:-

| <u>Year</u> | <u>1st dose</u> | <u>3rd dose</u> | <u>Dropout-rate %</u> |
|-------------|-----------------|-----------------|-----------------------|
| 1981 | 40315 | 19023 | 53 |
| 1982 | 73498 | 22935 | 69 |
| 1983 | 63622 | 39308 | 38 |
| 1984 | 64112 | 53244 | 17 |

5. Immunization by age-groups carried out during 1984 are given below:-

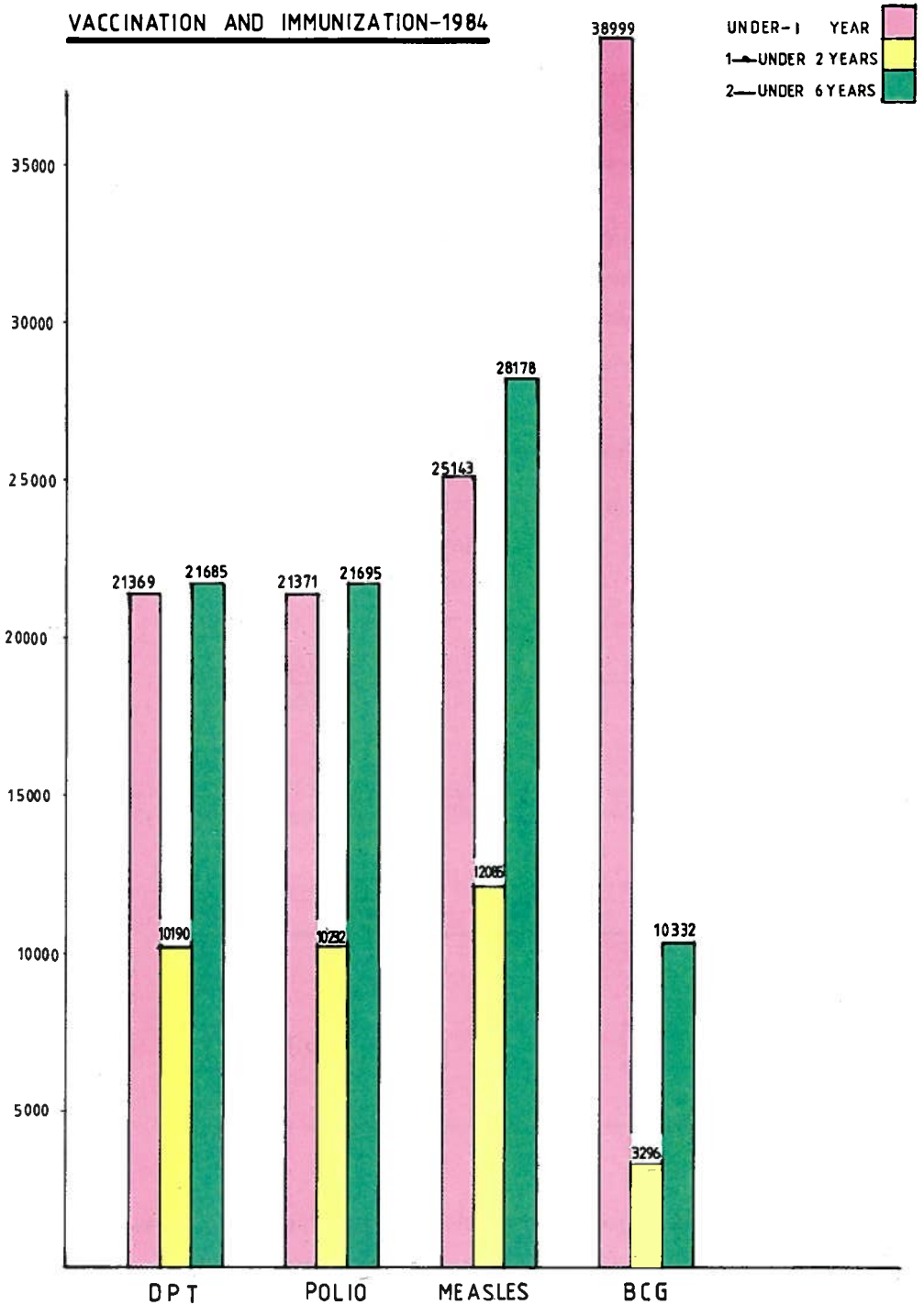
| Age-groups | Estimated population | target | DPT | Polio | BCG | Measles |
|--------------------------|----------------------|----------|-------|-------|-------|---------|
| Under 1 year | 53000 | 1st dose | 38718 | 38779 | 38999 | 25143 |
| | | 2nd dose | 27946 | 28021 | | |
| | | 3rd dose | 21369 | 21371 | | |
| 1 - 5 years | 212000 | 1st dose | 25394 | 25481 | 13628 | 40263 |
| | | 2nd dose | 28146 | 28199 | | |
| | | 3rd dose | 31875 | 31927 | | |
| | | Booster | 29002 | 29047 | | |
| Total (Under 6 years) | 265000 | 1st dose | 64112 | 64260 | 52627 | 65406 |
| | | 2nd dose | 56092 | 56220 | | |
| | | 3rd dose | 53244 | 53298 | | |
| | | Booster | 29002 | 29047 | | |

6. Two doses of Tetanus Toxoid are given to all child-bearing age women. The statistics for 1983 & 1984 are as under:-

| <u>Year</u> | <u>Dose</u> | <u>Pregnant women</u> | <u>Other women</u> | <u>Total</u> |
|-------------|-------------|-----------------------|--------------------|--------------|
| 1983 | I | 10255 | 21278 | 31533 |
| | II | 5423 | 10549 | 15972 |
| 1984 | I | 25732 | 78703 | 104435 |
| | II | 15114 | 15716 | 30830 |

7. A training course in EPI for the peripheral health workers and supervisors was organised in August 1984 in collaboration with UNICEF. During October 1984 a training course for interviewers of EPI/Control of Diarrhoeal Diseases survey was conducted in collaboration with WHO/UNICEF.

VACCINATION AND IMMUNIZATION-1984



3.2 National Tuberculosis Control Programme

The two main activities of the Programme are chemotherapy for treating active cases and BCG vaccination for prevention. Following are the diagnostic activities for the year 1984:-

| | |
|---|--------|
| Number of sputum examined - - - - - | 13,978 |
| Number of new sputum positive cases - - - - - | 241 |
| Number of X'rays taken - - - - - | 85,422 |
| Cases radiologically suggestive of Pulmonary Tuberculosis - - - - - | 767 |
| Number of extra-pulmonary cases (mainly Lymphadenitis) - - - - - | 82 |
| New cases put on treatment - - - - - | 843 |

(ii) Region-wise distribution of 843 new cases registered during 1984 is as under:-

| <u>Regions</u> | <u>Cases</u> | <u>Proportion</u> |
|----------------------------------|--------------|-------------------|
| Capital Area | 229 | 27.2 |
| Batinah, Western Hajar & Buraimi | 271 | 32.1 |
| Sharqia, Jallaan & Sur | 105 | 12.5 |
| Interior & Dhahira | 93 | 11.0 |
| Musandam & Masirah | 27 | 3.2 |
| Southern Region | 118 | 14.0 |
| <u>Total</u> | <u>843</u> | <u>100.0</u> |

(iii) Tuberculin tests were carried out by Chest Clinics at Ar-Rahma, Qaboos & Sohar hospitals besides by other institutions. A total of 3,521 tests were done during 1984 as detailed below:

| <u>Age-groups (years)</u> | <u>Tests done</u> | <u>Tests read</u> | <u>Positive</u> | |
|---------------------------|-------------------|-------------------|-----------------|-------------------|
| | | | <u>Number</u> | <u>Proportion</u> |
| 0 - 5 | 1,215 | 991 | 79 | 8.0 |
| 6- 15 | 755 | 626 | 101 | 16.1 |
| 16 - 25 | 370 | 309 | 132 | 42.7 |
| 26 - 40 | 570 | 480 | 250 | 52.1 |
| 41 & over | 611 | 500 | 181 | 36.2 |
| <u>Total</u> | <u>3,521</u> | <u>2,906</u> | <u>743</u> | <u>25.6</u> |

(iv) BCG vaccination as a part of Expanded Programme of Immunization was continued during 1984. Moreover 22,411 vaccination were carried out in various schools.

3.3. PROGRAMME FOR PREVENTION OF BLINDNESS

The Programme for Prevention of Blindness was mooted in Oman in 1976 when assistance of World Health Organisation was requested to control the incidence of trachoma — the main cause of blindness. As per WHO recommendations, the Programme was started with the treatment of trachoma in the schools. During 1980-81 the total school population was treated but since 1982 the treatment is limited to new entrants in primary class-I. This trachoma treatment programme resulted in the decline in the incidence of the disease in schools from 80% in 1976 to 7% in 1983. Glaucoma, Cataract, Corneal ulcers & Trauma are other causes of blindness.

2. During 1984 in addition to treatment programme, other activities of the Prevention of Blindness Programme were introduced in the schools. The schools will be covered under community programme for which training of school health visitors started during the latter part of 1984. Six school health visitors trained so-far have started implementation of the programme in schools in Nizwa, Sohar, Saham, Sumail, Bahla, Sur & Samad. In the second stage of the programme, the activities are focussed on the community which is the reservoir of infection. Five training courses are already over since 1982 and the trainees are deployed in the community programme. The Programme has been planned to screen the total population of the country. To start with a pilot project has been established in four areas — Nizwa, Hamrah, Rostaq & Masnah and each area has a Prevention of Blindness Unit.

3. Under the treatment programme of new entrants in primary class-I, 33,847 students were treated in 430 schools during 1984. Screening and Case Finding Programme in schools introduced in November 1984 which covered 14,579 children in 46 schools revealed 6,738 trachoma cases — 4,692 mild, 1,497 moderate & severe & 549 thick lid. Under Community Programme 33,173 persons were screened in 175 villages with a population of 46,315. The screening revealed the following cases:-

| | | |
|----------------------------|-----------|--------|
| Trachoma mild | - - - - - | 12,474 |
| Trachoma moderate & severe | - - - - - | 3,165 |
| Thick lid | - - - - - | 6,279 |
| Trichiasis/Entropion | - - - - - | 1,721 |
| Conjunctivitis | - - - - - | 2,055 |
| Cataract | - - - - - | 891 |
| Glaucoma | - - - - - | 558 |
| Corneal ulcers & scars | - - - - - | 1,358 |

4. Besides treatment of cases following operations were carried out:-

| | | |
|--------------|-----------|-----|
| Entropion | - - - - - | 284 |
| Electrolysis | - - - - - | 338 |
| Pterygium | - - - - - | 9 |
| Epilations | - - - - - | 7 |
| Others | - - - - - | 6 |

5. The programme of Health Education was introduced in schools during last quarter of 1984. The Programme was carried out by UN Volunteer & Senior Sanitary Inspector in 17 schools.

3.4 MALARIA CONTROL PROGRAMME

The Malaria Control Programme was initiated in Sultanate of Oman in 1975 as a priority programme. It has since been applied progressively to cover the whole of Sultanate by establishing Malaria Control and Vector Control units. The incidence of the disease has been reduced as a result of Expanded Malaria Control operations. A Malaria Control Training Centre has also been established to train the health workers needed for the Programme.

(ii) During 1984, 198,585 blood slides were examined by hospitals/health centres yielding 19,511 malaria positive cases. The positivity rate was 9.8%. The Malaria Central Laboratory examined 29,794 slides yielding 2,221 positive cases with 7.5% positivity rate.

TABLE 3.4.1**Malaria Control Activities 1982 - 1984**

| Activities | 1982 | 1983 | 1984 |
|----------------------------------|-----------|-----------|------------|
| Villages covered | 257 | 245 | 503 |
| Total population of villages | 78,799 | 132,218 | 204,545 |
| Population covered | 55,747 | 106,753 | 170,797 |
| Percentage of population covered | 70.7 | 80.7 | 83.5 |
| Total number of houses | 20,304 | 29,216 | 43,770 |
| Houses sprayed | 14,322 | 22,660 | 36,150 |
| Percentage of houses sprayed | 70.5 | 77.6 | 82.6 |
| Area sprayed (sq.m) | 4,132,521 | 7,789,963 | 12,267,260 |
| DDT used (kgs) | 9,847 | 20,088 | 32,755 |

TABLE 3.4.2

Blood Slides Examined for Malaria in Hospitals and Health Centres — 1984

| Hospitals/ Health Centres | Blood-slides examined | Blood-slides found positive | Positivity rate (%) | Type of malaria parasite found | | | |
|------------------------------|--------------------------|--------------------------------|------------------------|--------------------------------|-------|----------|---------------|
| | | | | Falciparium | Vivax | Malariae | More than one |
| Hospitals | | | | | | | |
| Khoula | 3349 | 145 | 4.3 | 125 | 20 | — | — |
| Al-Nahdha | 27,367 | 1685 | 6.2 | 1315 | 370 | — | — |
| Ar-Rahma | 13,745 | 490 | 3.6 | 375 | 115 | — | — |
| Muscat | 1796 | 79 | 4.4 | 60 | 19 | — | — |
| Assada | 3060 | 53 | 1.7 | 52 | 1 | — | — |
| Ibn Sina | 691 | 3 | 0.4 | 1 | 2 | — | — |
| Ibra | 12,893 | 3064 | 23.8 | 2762 | 302 | — | — |
| Sur | 7941 | 451 | 5.7 | 348 | 103 | — | — |
| Sohar | 6684 | 311 | 4.7 | 233 | 76 | — | 2 |
| Rustaq | 9721 | 718 | 7.4 | 675 | 43 | — | — |
| Buraimi | 6741 | 502 | 7.4 | 425 | 48 | 29 | — |
| Tanam | 12,294 | 1320 | 10.7 | 1278 | 42 | — | — |
| Nizwa | 10,537 | 824 | 7.8 | 705 | 119 | — | — |
| Sumail | 8310 | 1188 | 14.3 | 1167 | 21 | — | — |
| Qaboos | 4309 | 15 | 0.3 | — | 15 | — | — |
| Health Centres | | | | | | | |
| B.B.B. Ali | 6784 | 560 | 8.3 | 316 | 243 | — | 1 |
| B.B.B. Hassan | 9662 | 1277 | 13.2 | 1067 | 206 | — | 4 |
| Sinaw | 6959 | 1178 | 16.9 | 676 | 502 | — | — |
| Masirah | 1205 | 69 | 5.7 | 4 | 65 | — | — |
| Wadi Tayeen | 6422 | 1175 | 18.3 | 1173 | 2 | — | — |
| Quriyat | 4887 | 343 | 7.0 | 328 | 15 | — | — |
| Saham | 7031 | 196 | 2.8 | 158 | 38 | — | — |
| Bahla | 5975 | 944 | 15.8 | 938 | 5 | 1 | — |

| Hospitals/ Health Centres | Blood-slides examined | Blood-slides found positive | Positivity rate (%) | Type of malaria parasite found | | | |
|------------------------------|--------------------------|--------------------------------|------------------------|--------------------------------|-------|----------|---------------|
| | | | | Falciparum | Vivax | Malariae | More than one |
| Bukha | 589 | 14 | 2.4 | 3 | 11 | — | — |
| Baya | 2571 | 212 | 8.2 | 55 | 157 | — | — |
| Khasab | 2185 | 176 | 8.1 | 137 | 36 | — | 3 |
| W.B. Khalid | 2217 | 58 | 2.6 | 58 | — | — | — |
| W.B. Ghaffir | 2792 | 615 | 22.0 | 606 | 9 | — | — |
| Samad Alshaan | 2455 | 567 | 23.1 | 547 | 20 | — | — |
| Wadi Sarami | 872 | 209 | 24.0 | 209 | — | — | — |
| Izki | 4518 | 623 | 13.8 | 581 | 42 | — | — |
| Duqum | 981 | 129 | 13.1 | 18 | 111 | — | — |
| Haima | 23 | 12 | 52.2 | 6 | 6 | — | — |
| Wadi Jizzi | 1019 | 306 | 30.0 | 300 | 6 | — | — |
| Grand Total | 198,585 | 19,511 | 9.8 | 16,701 | 2,770 | 30 | 10 |

TABLE 3.4.3

**Blood Slides Examined and Malaria Parasite Positivity Rate in Central Laboratory,
Malaria Eradication Department — 1984**

| Regions | Blood-slides examined | Blood-slides found positive | Positivity rate (%) | Type of malaria parasite found | | |
|------------------|-----------------------|-----------------------------|---------------------|--------------------------------|-----------|----------|
| | | | | Falciparum | Vivax | Malariae |
| Capital Area | 3540 | 193 | 5.5 | 193 | — | — |
| Al-Batinah | 3324 | 135 | 4.1 | 133 | 2 | — |
| Interior | 5265 | 570 | 10.8 | 565 | 5 | — |
| Eastern | 6055 | 496 | 8.2 | 482 | 14 | — |
| Al-Dhahira | 3176 | 320 | 10.1 | 317 | 3 | — |
| Jalaan and Sur | 3144 | 244 | 7.8 | 236 | 8 | — |
| Southern | 1319 | — | — | — | — | — |
| Al-Jau & Buraimi | 1026 | 59 | 5.8 | 43 | 16 | — |
| Western Hajar | 1637 | 130 | 7.9 | 126 | 4 | — |
| Eastern Hajar | 1308 | 74 | 5.7 | 74 | — | — |
| Total | 29,794 | 2221 | 7.5 | 2169 | 52 | — |

3.5 THE NATIONAL CONTROL OF DIARRHOEAL DISEASES PROJECT (NCDD)

Diarrhoeal diseases is one of the major problems confronting the health administration in Oman. In a population of 1.5 million around 300,000 diarrhoea cases are reported annually in OPD clinics most of which are children. 10,000 of these children are admitted in hospitals. During the diarrhoea season in summer 20 to 40% admitted children suffer with diarrhoea. Diarrhoea accounts for 3,000 deaths annually among children under 5 years which are 25% of total deaths in children.

2. The committee on NCDD formulated objectives for NCDD programme in September 1984 resulting in the appointment of a Manager for the project. The targets of the project are:-

- (i) Use of anti-diarrhoeal drugs would be totally eliminated by the end of 1985.
- (ii) I.V. management will be reduced to 5% (for severe dehydration cases only) by the end of 1986.
- (iii) Atleast 25% of health facilities will manage mild to moderate dehydration in OPD by the end of 1986. Thereafter the annual increase will be 25%.
- (iv) To reduce diarrhoeal mortality by 50% by the end of 1989.

3. To start with a national survey to determine diarrhoeal morbidity & mortality was conducted in October 1984 with the assistance of WHO and UNICEF. The survey also included information regarding breast feeding, weaning foods, infant & child-hood mortality. The survey data is being analysed.

4. During November 1984, a supervisory skill course was held to train doctors & nurses from curative & preventive departments in diarrhoeal disease control. These trainees in turn train their staff in the regions. Moreover medical orderlies living in the villages and some drivers of Ministry of Health have also been trained. School teachers in some areas are being trained to teach children about Oral Rehydration Therapy (ORT). In due course all schools will be covered. Health workers under Ministry of Social Affairs working in rural areas have also been trained.

4. MEDICAL EDUCATION AND TRAINING

The Medical Education and Training is the responsibility of Directorate of Education and Training. The functions of this Directorate include:-

- (i) Local training of para-medicals at Institute of Health Science.
- (ii) Local training of non-medical staff.
- (iii) Post-graduate training of doctors and nurses abroad.
- (iv) Foreign training of para-medicals and non-medical staff.

2. During 1984, 52 nurses qualified from Institute of Health Sciences. The total enrollment at the Institute was 69 in General Nursing, 71 in Assistant Nursing and 28 in Medical Lab. Technician Course.

3. 45 medical and para-medical personnel and 8 non-medical personnel were sent abroad for studies/training during 1984. 33 para-medical and 102 non-medical personnel were trained locally during the same period.

TABLE 4.1**Output of Nurses from Arrhama Nursing School/Institute of Health Sciences**

| Years | Number of students qualified | | |
|-------|------------------------------|--------|-------|
| | Male | Female | Total |
| 1972 | 5 | — | 5 |
| 1973 | 5 | 2 | 7 |
| 1975 | 7 | 8 | 15 |
| 1976 | 4 | 2 | 6 |
| 1977 | 2 | 7 | 9 |
| 1979 | 6 | 11 | 17 |
| 1980 | 1 | 8 | 9 |
| 1981 | 2 | 13 | 15 |
| 1982 | 3 | 14 | 17 |
| 1983 | 5 | 21 | 26 |
| 1984 | 13 | 39 | 52 |
| Total | 53 | 125 | 178 |

TABLE 4.2

Enrollment at Institute of Health Sciences — 1984

| Courses | Number of students enrolled | | |
|--------------------------------------|-----------------------------|------------|------------|
| | Male | Female | Total |
| <u>General Nursing</u> | | | |
| 1st year | 6 | 7 | 13 |
| 2nd year | 10 | 10 | 20 |
| Final year | 12 | 24 | 36 |
| <u>Assistant Nursing</u> | | | |
| 1st year | 13 | 25 | 38 |
| Final year | 12 | 21 | 33 |
| <u>Medical Lab Technician</u> | | | |
| 1st year | 7 | 6 | 13 |
| 2nd year | 2 | 5 | 7 |
| Final year | 3 | 5 | 8 |
| Total | 65 | 103 | 168 |

TABLE 4.3

Medical/Para-medical and Non-medical Staff Trained 1980 - 1984

| Years | Locally Trained | | Sent Abroad | |
|-------|-------------------------|-------------|-------------------------|-------------|
| | Medical and Paramedical | Non-medical | Medical and Paramedical | Non-medical |
| 1980 | 24 | 15 | 23 | 2 |
| 1981 | 64 | 43 | 30 | 2 |
| 1982 | — | 52 | 40 | 4 |
| 1983 | 60 | 54 | 34 | 9 |
| 1984 | 33 | 102 | 45 | 8 |

5. MEDICAL AND HEALTH PERSONNEL

At the end of 1984, Ministry of Health employed 7,788 persons — 4,856 medical and para-medicals and 2,932 non-medicals. The number of Omani workers was 4,252 which was 54.6% of the total staff. Though at present the percentage of Omani medical and para-medical workers available in health services is 41.2 but this proportion is progressing gradually. The opening of medical school in Sultan Qaboos University next year and expansion of training facilities in Institute of Health Sciences would result in replacing many expatriates.

TABLE 5.1

Medical and Health Personnel Employed Under Ministry of Health 1970 - 1984

| Categories | Number in | | | | | | | | | | | | | | | |
|------------------------------------|-----------|-------------|-------------|-------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1970 | 1980 | | | 1981 | | | 1982 | | | 1983 | | | 1984 | | |
| | | Omanis | Expatriates | Total | Omanis | Expatriates | Total | Omanis | Expatriates | Total | Omanis | Expatriates | Total | Omanis | Expatriates | Total |
| Health Administrators/ Advisors | — | 5 | 1 | 6 | 5 | 1 | 6 | 5 | 1 | 6 | 5 | 1 | 6 | 5 | 2 | 7 |
| Consultants | — | 1 | 4 | 5 | 1 | 9 | 10 | 1 | 9 | 10 | 2 | 9 | 11 | 2 | 14 | 16 |
| Specialists | — | 2 | 52 | 54 | 5 | 57 | 62 | 9 | 67 | 76 | 9 | 78 | 87 | 10 | 80 | 90 |
| Junior Specialists | — | 4 | 38 | 42 | 5 | 44 | 49 | 4 | 46 | 50 | 4 | 50 | 54 | 1 | 56 | 57 |
| Medical Officers | 13 | 23 | 164 | 187 | 24 | 197 | 221 | 26 | 217 | 243 | 30 | 277 | 307 | 30 | 372 | 402 |
| Dentists | — | 4 | 9 | 13 | 4 | 9 | 13 | 5 | 9 | 14 | 6 | 16 | 22 | 7 | 16 | 23 |
| Pharmacists | — | 3 | 6 | 9 | 4 | 9 | 13 | 2 | 13 | 15 | 2 | 14 | 16 | 2 | 16 | 18 |
| Nurses | 2 | 86 | 771 | 857 | 117 | 908 | 1025 | 134 | 1030 | 1164 | 158 | 1228 | 1386 | 206 | 1547 | 1753 |
| Other para-medical staff | 35 | 1083 | 401 | 1484 | Not available | | 1773 | 1459 | 520 | 1979 | 1592 | 669 | 2261 | 1736 | 754 | 2490 |
| Total | 50 | 1211 | 1446 | 2657 | Not available | | 3172 | 1645 | 1912 | 3557 | 1808 | 2342 | 4150 | 1999 | 2857 | 4856 |

PHYSICIANS AND NURSING PERSONNEL 1980 - 1984

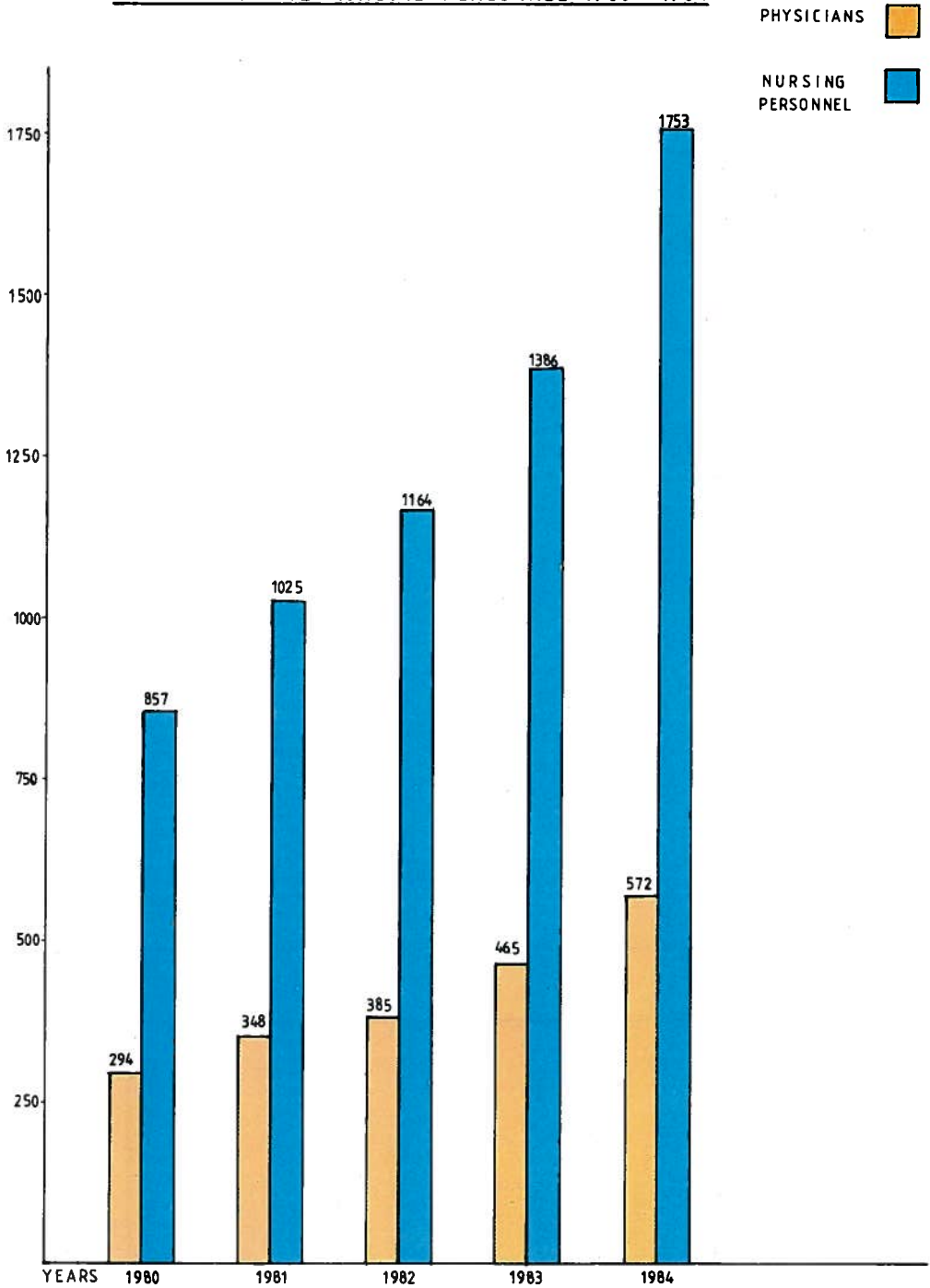


TABLE 5.2

Medical and Non-medical Staff Employed Under Ministry of Health — 31.12.1984

| Categories | Omanis | | | Non-Omanis | | | Total | | | Percentage of Omanis |
|--|-------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| Medical and para-medicals | 1303 | 696 | 1999 | 1031 | 1826 | 2857 | 2334 | 2522 | 4856 | 41.2 |
| Administrative staff | 378 | 54 | 432 | 239 | 70 | 309 | 617 | 124 | 741 | 58.3 |
| Professional/Technical Staff (non-medical) | 763 | 47 | 810 | 296 | 9 | 305 | 1059 | 56 | 1115 | 72.6 |
| Farrashs & others | 820 | 191 | 1011 | 65 | — | 65 | 885 | 191 | 1076 | 94.0 |
| Total | 3264 | 988 | 4252 | 1631 | 1905 | 3536 | 4895 | 2893 | 7788 | 54.6 |
| Percentage of total staff | 41.9 | 12.7 | 54.6 | 20.9 | 24.5 | 45.4 | 62.9 | 37.1 | 100.0 | — |

TABLE 5.3

Medical and Para-medical Staff Employed Under Ministry of Health — 31.12.1984

| Categories | Omanis | | | Non-Omanis | | | Total | | | Percentage of Omanis |
|---------------------------------------|--------|--------|-------|------------|--------|-------|-------|--------|-------|----------------------|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| <u>A—Doctors</u> | 37 | 11 | 48 | 371 | 153 | 524 | 408 | 164 | 572 | 8.4 |
| (i) Administrative Doctors | 5 | — | 5 | — | — | — | 5 | — | 5 | 100.0 |
| (ii) Advisors (H. Affairs & Planning) | — | — | — | 2 | — | 2 | 2 | — | 2 | — |
| (iii) Consultants | 2 | — | 2 | 12 | 2 | 14 | 14 | 2 | 16 | 12.5 |
| (iv) Sr. Specialists & Specialists | 6 | 4 | 10 | 56 | 24 | 80 | 62 | 28 | 90 | 11.1 |
| (v) Jr. Specialists | 1 | — | 1 | 42 | 14 | 56 | 43 | 14 | 57 | 1.8 |
| (vi) Physicians | 23 | 7 | 30 | 259 | 113 | 372 | 282 | 120 | 402 | 7.5 |
| <u>B—Dentists</u> | 2 | 5 | 7 | 12 | 4 | 16 | 14 | 9 | 23 | 30.4 |
| <u>C—Pharmacists</u> | 2 | — | 2 | 10 | 6 | 16 | 12 | 6 | 18 | 11.1 |
| <u>D—Nursing staff</u> | 87 | 119 | 206 | 102 | 1445 | 1547 | 189 | 1564 | 1753 | 11.8 |

| Categories | Omanis | | | Non-Omanis | | | Total | | | Percentage of Omanis |
|---|--------|--------|-------|------------|--------|-------|-------|--------|-------|----------------------|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| <u>E—Other Para-medical Staff</u> | 1175 | 561 | 1736 | 536 | 218 | 754 | 1711 | 779 | 2490 | 69.7 |
| (i) Chemists & Asstt. Chemists | 1 | 1 | 2 | 2 | 1 | 3 | 3 | 2 | 5 | 40.0 |
| (ii) Asstt. Pharmacists | 5 | — | 5 | 30 | 7 | 37 | 35 | 7 | 42 | 11.9 |
| (iii) Dispensers | 9 | — | 9 | 47 | 6 | 53 | 56 | 6 | 62 | 14.5 |
| (iv) School Health Visitors | — | — | — | — | 42 | 42 | — | 42 | 42 | Nil |
| (v) Midwives | — | 1 | 1 | — | 53 | 53 | — | 54 | 54 | 1.9 |
| (vi) Health Assistants | 15 | — | 15 | 91 | 2 | 93 | 106 | 2 | 108 | 13.9 |
| (vii) Medical Assistants | 1 | — | 1 | 25 | 1 | 26 | 26 | 1 | 27 | 3.7 |
| (viii) Sanitary Inspectors/ Supervisors | 44 | — | 44 | 85 | 2 | 87 | 129 | 2 | 131 | 33.6 |
| (ix) Sanitary Assistants | 224 | 12 | 236 | 4 | — | 4 | 228 | 12 | 240 | 98.3 |
| (x) Microbiologists/ Laboratory Technicians | 18 | 3 | 21 | 111 | 55 | 166 | 129 | 58 | 187 | 11.2 |

| Categories | Omanis | | | Non-Omanis | | | Total | | | Percentage of Omanis |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|----------------------|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | |
| (xi) X-rays Technicians | — | — | — | 27 | 1 | 28 | 27 | 1 | 28 | — |
| (xii) Radiographers | 9 | — | 9 | 32 | — | 32 | 41 | — | 41 | 22.0 |
| (xiii) Dental Technicians | 2 | — | 2 | 6 | 1 | 7 | 8 | 1 | 9 | 22.2 |
| (xiv) Physiotherapists/ Occupational Therapists | — | 1 | 1 | 9 | 7 | 16 | 9 | 8 | 17 | 5.9 |
| (xv) Medical Orderlies | 825 | 540 | 1365 | 36 | 25 | 61 | 861 | 565 | 1426 | 95.7 |
| (xvi) Others | 22 | 3 | 25 | 31 | 15 | 46 | 53 | 18 | 71 | 35.2 |
| Total | 1303 | 696 | 1999 | 1031 | 1826 | 2857 | 2334 | 2522 | 4856 | 41.2 |
| Percentage of total staff | 26.8 | 14.3 | 41.2 | 21.2 | 37.6 | 58.8 | 48.1 | 51.9 | 100.0 | — |

TABLE 5.4

Consultants and Specialists Employed Under Ministry of Health — 31.12.1984

| Fields of speciality | Consultants | Senior Specialists | Specialists | Junior Specialists | Total |
|------------------------|-------------|--------------------|-------------|--------------------|------------|
| General Surgery | 3 | 4 | 6 | 9 | 22 |
| Orthopaedics | 1 | 4 | 2 | 2 | 9 |
| Plastic Surgery | 1 | — | — | — | 1 |
| Medicine | 3 | 7 | 6 | 6 | 22 |
| Paediatrics | 2 | 4 | 7 | 8 | 21 |
| Gynaecology/Obstetrics | 1 | 3 | 10 | 4 | 18 |
| Dermatology | — | 2 | 1 | 1 | 4 |
| ENT | 1 | 1 | 1 | 2 | 5 |
| Ophthalmology | — | 2 | 6 | 5 | 13 |
| Urology | — | 1 | — | 1 | 2 |
| Nephrology | 1 | — | — | 1 | 2 |
| Psychiatry | 1 | — | 2 | 2 | 5 |
| Neurology | 1 | — | — | — | 1 |
| Radiology | — | 4 | — | 3 | 7 |
| Anaesthesia | 1 | 4 | 4 | 8 | 17 |
| Pathology | — | 1 | 4 | — | 5 |
| Public Health | — | 2 | 2 | 5 | 9 |
| Total | 16 | 39 | 51 | 57 | 163 |

TABLE 5.5

Total Medical/Health Personnel — 31.12.1984

| Categories | Number employed under | | | Total | Percentage of employees under Ministry of Health |
|-------------------|-----------------------|--------------------------------|-------------------------|-------|--|
| | Ministry of Health | Other governmental departments | P.D.O. & Private sector | | |
| Doctors | 572 | 84 | 293 | 949 | 60.3 |
| Dentists | 23 | 12 | 28 | 63 | 36.5 |
| Pharmacists | 18 | 15 | 115 | 148 | 12.2 |
| Nursing Personnel | 1753 | 91 | 260 | 2104 | 83.3 |

TABLE 5.6

Doctors & bed population ratios in certain countries

| Countries | Year | Number of doctors | Doctors per 10,000 population | Number of beds | Population per bed |
|--------------|------|-------------------|-------------------------------|----------------|--------------------|
| Oman | 1984 | 949 | 6.33 | 2960 | 507 |
| Bahrain | 1980 | 363 | 9.97 | 1107 | 329 |
| UAE | 1981 | 1491 | 19.57 | 3260 | 234 |
| Qatar | 1981 | 186 | 7.50 | 733 | 338 |
| Kuwait | 1980 | 2335 | 17.17 | 5699 | 238 |
| Saudi Arabia | 1981 | 3576 | 3.84 | 14,451 | 645 |
| Egypt | 1981 | 53,342 | 12.27 | 86,898 | 500 |
| Tunesia | 1980 | 1728 | 2.72 | 13,571 | 469 |
| Iraq | 1981 | 7634 | 5.64 | 25,443 | 532 |
| Iran | 1981 | 15,182 | 3.86 | 61,443 | 640 |
| Jordan | 1981 | 1966 | 5.84 | 2735 | 1230 |
| South Yemen | 1980 | 258 | 1.31 | 2900 | 679 |
| North Yemen | 1981 | 896 | 1.51 | 3232 | 1838 |
| Morocco | 1981 | 1153 | 0.56 | 24,342 | 848 |
| Syria | 1981 | 4165 | 4.47 | 10,308 | 904 |
| Libya | 1981 | 4690 | 15.15 | 15,375 | 201 |
| Bangladesh | 1981 | 10,065 | 1.12 | 19,727 | 4545 |
| India | 1981 | 268,712 | 3.93 | 540,768 | 1265 |
| Pakistan | 1981 | 26,668 | 3.15 | 48,441 | 1746 |
| Turkey | 1981 | 28,411 | 6.13 | 97,765 | 474 |
| USA | 1980 | 414,916 | 18.23 | 1,333,360 | 171 |
| Austria | 1981 | 17,028 | 22.67 | 84,310 | 89 |
| Greece | 1981 | 24,724 | 25.47 | 59,914 | 162 |
| Sweden | 1980 | 18,300 | 22.02 | 123,074 | 68 |

Source: Annual World Statistics - 1983

6. HEALTH CARE PROVIDED BY OTHER DEPARTMENTS/ORGANISATIONS

Besides Ministry of Health, Ministry of Defence, Royal Oman Police and Petroleum Development Oman maintain many hospitals and clinics where curative and preventive care is provided to their employees and dependents. 366 private clinics and 90 pharmacies are also available throughout the country contributing significantly towards better health for the people of Oman.

TABLE 6.1

Health facilities under other Departments/Organisations — 31.12.1984

| Facilities | Forces Medical Services | Royal Oman Police | Petroleum Development Oman | Total |
|---------------------------------|-------------------------------|-------------------------|----------------------------------|-------|
| <u>Hospitals</u> | | | | |
| Number | 2 | 1 | 1 | 4 |
| Beds | 110 | 50 | 22 | 182 |
| <u>Dispensaries</u> | | | | |
| Number | 27 | 2 | 7 | 36 |
| Beds | 167 | 10 | 14 | 191 |
| <u>Beds reserved for</u> | | | | |
| Surgery | 59 | 10 | — | 69 |
| Medicine | 51 | 12 | 17 | 80 |
| Gyn. & Obs. | — | 10 | 5 | 15 |
| Paediatrics | — | 10 | — | 10 |
| Isolation | 16 | — | — | 16 |
| Unspecified | 151 | 18 | 14 | 183 |
| Total beds | 277 | 60 | 36 | 373 |

TABLE 6.2

Medical and Para-medical Personnel Employed Under Other Departments/Organisations-31.12.1984

| Categories | Forces Medical Services | | | Royal Oman Police | | | Petroleum Development Oman | | | Total | | |
|---|-------------------------|--------|-------|-------------------|--------|-------|----------------------------|--------|-------|-------|--------|-------|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Specialists | 3 | — | 3 | 4 | — | 4 | — | — | — | 7 | — | 7 |
| Medical Officers | 69 | 3 | 72 | 4 | 1 | 5 | 8 | — | 8 | 81 | 4 | 85 |
| Dentists | 11 | — | 11 | 1 | — | 1 | — | — | — | 12 | — | 12 |
| Staff Nurses/Asstt. Nurses/ Public Health Nurses | 14 | 53 | 67 | 10 | 14 | 24 | 21 | — | 21 | 45 | 67 | 112 |
| Midwives | — | — | — | — | 20 | 20 | — | 8 | 8 | — | 28 | 28 |
| Health Assistants | — | — | — | — | — | — | 7 | — | 7 | 7 | — | 7 |
| Sanitary Inspectors | 7 | — | 7 | — | — | — | 3 | — | 3 | 10 | — | 10 |
| Sanitary Assistants | 7 | — | 7 | — | — | — | 3 | — | 3 | 10 | — | 10 |
| Laboratory Technicians/ Asstt. Lab. Technicians | 21 | 1 | 22 | 3 | 1 | 4 | 2 | 1 | 3 | 26 | 3 | 29 |
| Radiographers | 4 | 1 | 5 | — | 2 | 2 | — | — | — | 4 | 3 | 7 |
| X-rays Technicians/ Asstt. X-rays Technicians | 9 | — | 9 | 2 | — | 2 | — | 1 | 1 | 11 | 1 | 12 |
| Dental Technicians/ Asstt. Dental Technicians | 23 | 1 | 24 | 2 | — | 2 | — | — | — | 25 | 1 | 26 |

| Categories | Forces Medical Services | | | Royal Oman Police | | | Petroleum Development Oman | | | Total | | |
|-----------------------|-------------------------|--------|-------|-------------------|--------|-------|----------------------------|--------|-------|-------|--------|-------|
| | Male | Female | Total | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| Physiotherapists | 2 | 1 | 3 | — | 1 | 1 | — | 1 | 1 | 2 | 3 | 5 |
| Pharmacists | 11 | — | 11 | 4 | — | 4 | 1 | — | 1 | 16 | — | 16 |
| Assistant Pharmacists | 1 | — | 1 | — | — | — | 2 | — | 2 | 3 | — | 3 |
| Medical Orderlies | 579 | 3 | 582 | 30 | 7 | 37 | 10 | — | 10 | 619 | 10 | 629 |
| Others* | 22 | — | 22 | — | — | — | — | — | — | 22 | — | 22 |
| Grand Total | 783 | 63 | 846 | 60 | 46 | 106 | 57 | 11 | 68 | 900 | 120 | 1020 |

* ECG Technician —1, Refractionist —1, Dental Hygienists—9, Operation Theatre Technicians—6, and Operation Theatre Assistants—5.

TABLE 6.3**Hospital Statistics for Other Departments/Organisations — 1984**

| Activities | Forces Medical Services | Royal Oman Police Hospital | Petroleum Development Oman | Total |
|-------------------------|-------------------------|----------------------------|----------------------------|--------|
| Admissions | 6613 | 2371 | 342 | 9326 |
| Discharges | 6531 | 2360 | 316 | 9207 |
| Deaths | 70 | 9 | 3 | 82 |
| Patients treated in OPD | 302602 | 55781 | 48031 | 406414 |
| Major Operations done | 98 | 183 | — | 281 |
| Minor Operations | 1318 | 480 | 31 | 1829 |

TABLE 6.4

Number of Clinics and Medical Personnel in Private Sector by Regions — 31.12.1984

| Regions | Number of clinics | Number of Pharmacies | Number of medical personnel available | | | | |
|---------------------------------|-------------------|----------------------|---------------------------------------|-----------|-------------------|-------------|---------------------|
| | | | Doctors | Dentists | Nursing personnel | Pharmacists | Other para-medicals |
| Capital Area | 85 | 41 | 85 | 15 | 52 | 64 | 50 |
| Al-Batinah | 107 | 17 | 84 | 6 | 55 | 17 | 4 |
| Interior | 28 | 7 | 23 | 3 | 17 | 7 | 2 |
| Eastern | 42 | 5 | 28 | 1 | 18 | 5 | — |
| Al-Dhahira | 22 | 8 | 21 | 1 | 12 | 9 | 2 |
| Northern | — | 1 | — | — | — | 1 | — |
| Southern | 17 | 11 | 16 | 2 | 13 | 11 | 10 |
| Total | 301 | 90 | 257 | 28 | 167 | 114 | 68 |
| Employed with private companies | 65 | — | 28 | — | 72 | — | — |
| Grand Total | 366 | 90 | 285 | 28 | 239 | 114 | 68 |

Note:- Other para-medical personnel consist of 26 Assistant Pharmacists, 3 Dispensers, 30 Laboratory Technicians, 2 Radiology Technicians, 6 Dental Technicians and 1 Bacteriologist.

TABLE 6.5

Health Activities of Private Clinics — 1984

| Types of activity | Capital Area | Batinah & Western Hajar | Interior | Eastern & Eastern Hajar | Al-Dhahira | Southern | Total |
|---|--------------|-------------------------|----------|-------------------------|------------|----------|---------|
| Patients seen | 183,378 | 256,019 | 51,989 | 105,402 | 37,006 | 30,106 | 663,900 |
| Laboratory tests done | 14,759 | 4,631 | 6 | 222 | 1,591 | 1,765 | 22,974 |
| Minor operations carried out | 590 | 623 | 177 | 208 | 161 | 224 | 1,983 |
| Immunisation done | 16 | 185 | — | 62 | 205 | 427 | 895 |
| Patients referred to Hospitals and Health Centres | 1,741 | 2,287 | 442 | 967 | 854 | 281 | 6,572 |
| Health certificates issued | 2,767 | 2,694 | 721 | 1,194 | 196 | 1,067 | 8,639 |

7. FINANCES

For 1984, the Government budget for civil purpose was R.O. 1,018 million. The allocation for Ministry of Health was R.O. 81 million which accounts for 7.96% of the total Government budget. The details of Ministry of Health budget are:-

(a) Recurring expenditure (R.O. Million)

| | |
|-------------------------------|--------------|
| (i) Salaries | 26.52 |
| (ii) <u>Other expenditure</u> | <u>19.11</u> |
| Total Recurring | 45.63 |

(b) Development Expenditure 35.41

| | |
|-------------|-------|
| Grand Total | 81.04 |
|-------------|-------|

2. Recurring expenditure accounted for 56.3% of the Ministry's allocation while the share of development expenditure was 43.7%. Salaries accounted for 58.1% of the total recurring expenditure.

TABLE 7.1

Budget — Ministry of Health 1971 - 1984

(in Million O.R.)

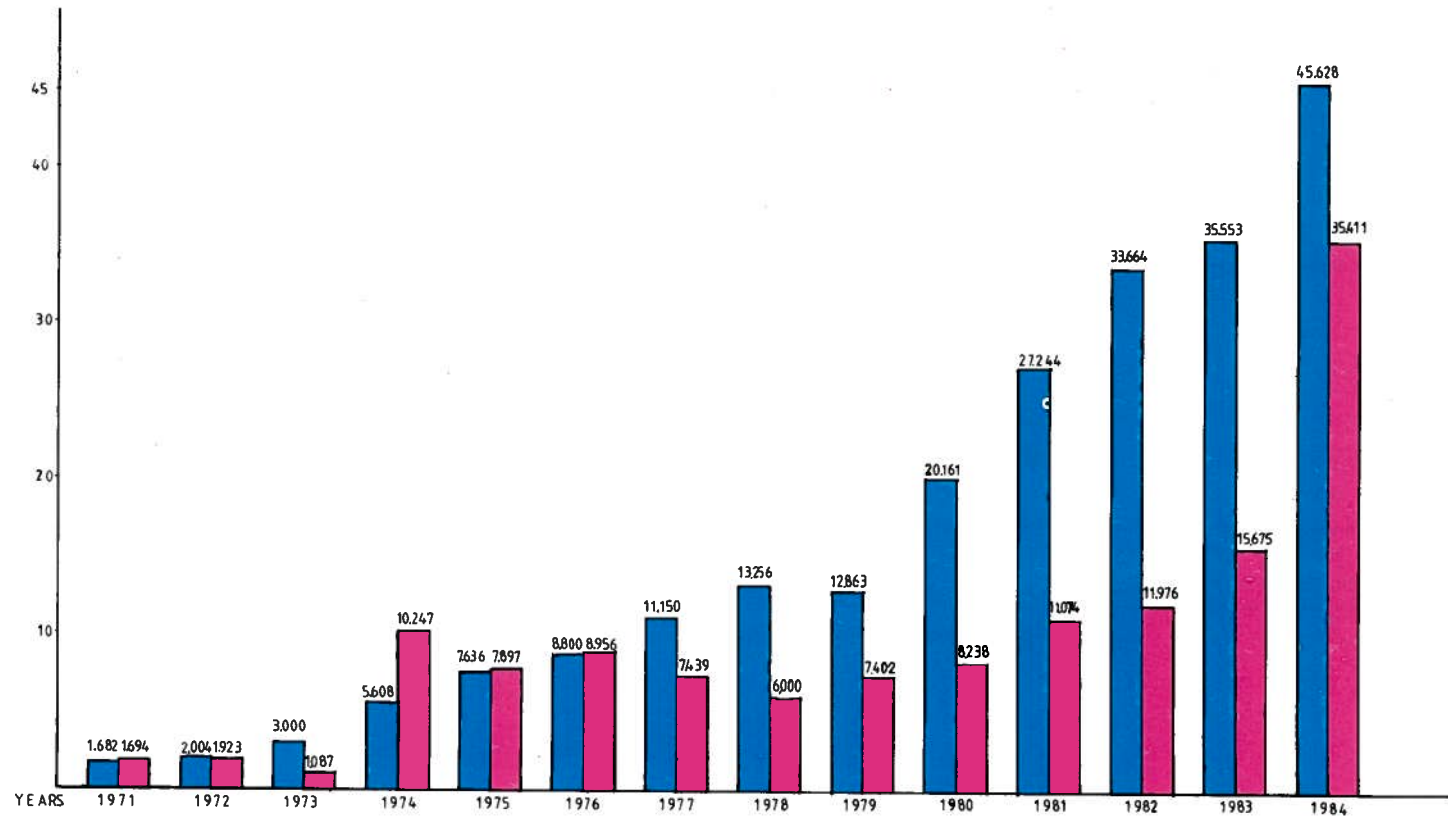
| Years | Ministry of Health Budget | | |
|-------|---------------------------|-------------------------|--------|
| | Recurring Expenditure | Development Expenditure | Total |
| 1971 | 1.682 | 1.694 | 3.376 |
| 1972 | 2.004 | 1.923 | 3.927 |
| 1973 | 3.000 | 1.087 | 4.087 |
| 1974 | 5.608 | 10.247 | 15.855 |
| 1975 | 7.636 | 7.897 | 15.533 |
| 1976 | 8.800 | 8.956 | 17.756 |
| 1977 | 11.150 | 7.439 | 18.589 |
| 1978 | 13.256 | 6.000 | 19.256 |
| 1979 | 12.863 | 7.402 | 20.265 |
| 1980 | 20.161 | 8.238 | 28.399 |
| 1981 | 27.244 | 11.074 | 38.318 |
| 1982 | 33.664 | 11.976 | 45.640 |
| 1983 | 35.553 | 15.675 | 51.228 |
| 1984 | 45.628 | 35.411 | 81.039 |

BUDGET-MINISTRY OF HEALTH 1971 - 1984

RECURRING EXPENDITURE
DEVELOPMENT EXPENDITURE



R.O. (IN MILLION)



Location of Curative and Preventive Units by Regions — 31.12.1984

| Regions | Hospitals | Health Centres | Mini-Health Centres | Mini-Maternity Centres | Dispensaries | Public Health Compounds | Public Health Units |
|--------------|---|---|--|------------------------|---|-------------------------|--|
| Capital Area | Khoula Al-Nahdha Ar-Rahma Muscat Assada Ibn Sina | — | — | — | Seeb Al-Khodh Seh Dhabi | — | Seeb Seh Dhabi |
| Eastern | Ibra Sur | B.B.B. Ali B.B.B. Hassan Sinaw Masirah Wadi Tayeen Quriyat | Wadi Bani Khalid Samad Alshaan Duqum | — | Kamil Wafi Aiga Al-Dareez Mintrib Tiwi Mudhaibi | — | Wadi Tayeen Duqum Qumaila B.B.B. Hassan B.B.B. Ali Mudhayrib Tiwi Wadi Bani Khalid Masirah |

Annexure-B

| Regions | Hospitals | Health Centres | Mini-Health Centres | Mini-Maternity Centres | Dispensaries | Public Health Compounds | Public Health Units |
|---------|-----------------|-----------------|----------------------------------|------------------------|---|-------------------------|---|
| | | | | | Mudhayrib Ruwais Al-Hajj Al-Dhahir Qumaila Ras al-Had Al-Suwaih Al-Ashkara Dagmar Mazara Siya Hailghaf | | Samad Alshaan Kamil Sur Quriyat Siya Al-Ashkara Mazara |
| Batinah | Sohar Rustaq | Saham Masnah | Wadi Bani Ghaffir Wadi Sarami | Haibi | Suwaiq Birka Abu Baqra Shinas Khabura | Saham | Sohar Rustaq Al-Hoqein Wadi Sarami Wadi Bani Ghaffir Wadi Sahtan |

Annexure-B

| Regions | Hospitals | Health Centres | Mini-Health Centres | Mini-Maternity Centres | Dispensaries | Public Health Compounds | Public Health Units |
|------------|------------------|----------------|---------------------|------------------------|---|-------------------------|--|
| | | | | | Afi Al-Hoqein Wadi Sahtan Awabi Nakhal Liwa Wadi Shafan | | Wadi Shafan Birka Liwa |
| Al-Dhahira | Buraimi Tanam | — | Wadi Jizzi | Yankul Mahdha | Dhank Ibri Hajeermat Al-Mamoora Muqinat | Buraimi | Dhank Tanam (Head office) |
| Interior | Nizwa Sumail | Bahla | Izki Haima | — | Saiq Fanja Al-Hamra Manah Adam | Nizwa Sumail | Bahla Al-Hamra Izki Wadi Mehram |

Annexure-B

| Regions | Hospitals | Health Centres | Mini-Health Centres | Mini-Maternity Centres | Dispensaries | Public Health Compounds | Public Health Units |
|-------------------|-----------|----------------|---------------------|------------------------|---|-------------------------|--|
| | | | | | Al-Ghafat Barkat Al Mouz Wadi Mehram Wadi Bani Ruwaha Mamur | | |
| Southern (Dhofar) | Qaboos | — | Tawi Attair | — | Sheleem Taqah Mirbat Sudh Thumrait Mudhai Dhalqut Hasik Rakhyut Kuria-Muria Al-Kahal Sharbitat Ashuwaimiyah | Salalah | Sudh Qeiron Heiriti Tawi Attair Jib Jat Madinat al Haq |

ANNEXURE - B

| Regions | Hospitals | Health Centres | Mini-Health Centres | Mini-Maternity Centres | Dispensaries | Public Health Compounds | Public Health Units |
|----------|-----------|-------------------------|---------------------|------------------------|--|-------------------------|---------------------|
| | | | | | Umbushaq Liqbi Makinat-Shahan Port Raysut Khadrafi Haighaf Qeiron Heiriti Jib Jat Ghadow Soghara Shahab Assaib | | |
| Northern | — | Bukha Baya Khasab | — | Madha | Lima | — | Khasab Lima |
| Total | 15 | 12 | 9 | 4 | 74 | 5 | 40 |

Note: There are two MCH Centres in Muttrah & Darseit, both in Capital Area