

# HEALTH STATISTICS

## Vital Statistics

| Health Index  | 1988 | 1999               | 2000 | 2001 | 2002 | 2003 | 2004 <sup>▲</sup> |
|---|------|--------------------|------|------|------|------|-------------------|
| Crude Birth Rate<br>(per 1,000 population)          |      |                    |      |      |      |      |                   |
| - Urban   | 28.6 | 24.5               | 24.2 | 23.9 | 21.2 | 19.9 | 19.1              |
| - Rural   | 30.5 | 27.1               | 26.4 | 26.3 | 24.6 | 22.4 | 22.0              |
| Crude Death Rate<br>(per 1,000 population)          |      |                    |      |      |      |      |                   |
| - Urban   | 8.9  | 6.0                | 6.3  | 6.2  | 6.1  | 5.6  | 5.5               |
| - Rural   | 9.9  | 7.8                | 7.3  | 7.1  | 7.0  | 6.5  | 6.4               |
| Infant Mortality Rate<br>(per 1,000 live births)    |      |                    |      |      |      |      |                   |
| - Urban   | 47.0 | 55.1 <sup>▲</sup>  | 48.5 | 48.3 | 48.4 | 45.3 | 45.2              |
| - Rural   | 49.8 | 62.5 <sup>▲</sup>  | 50.2 | 50.1 | 50.7 | 47.1 | 47.0              |
| U5 Mortality Rate<br>(per 1,000 live births)        |      |                    |      |      |      |      |                   |
| - Union   | -    | 77.77 <sup>▲</sup> | -    | -    | -    | -    | -                 |
| - Urban   | 72.9 | 65.12 <sup>▲</sup> | 73.5 | 73.1 | 72.6 | 72.2 | 70.1              |
| - Rural   | -    | 85.16 <sup>▲</sup> | -    | -    | 73.5 | 73.2 | 71.4              |
| Maternal Mortality Ratio<br>(per 1,000 live births) |      |                    |      |      |      |      |                   |
| - Urban   | 1.0  | 1.8 <sup>▲</sup>   | 1.1  | 1.0  | 1.1  | 1.0  | 1.0               |
| - Rural   | 1.9  | 2.8 <sup>▲</sup>   | 1.9  | 1.8  | 1.9  | 1.5  | 1.5               |
| Population Growth Rate                              | 1.96 | 2.02               | 2.02 | 2.02 | 2.02 | 2.02 | 2.02              |
| Average Life Expectancy                             |      |                    |      |      |      |      |                   |
| - Urban (Male)                                      | 59.0 | 61.0               | 61.1 | 61.5 | 61.8 | 62.1 | 62.4              |
| (Female)  | 63.2 | 65.1               | 65.1 | 65.6 | 66.0 | 66.2 | 66.5              |
| - Rural (Male)                                      | 56.2 | 60.3               | 60.4 | 60.8 | 61.3 | 61.5 | 61.8              |
| (Female)  | 60.4 | 62.7               | 62.8 | 63.3 | 63.8 | 64.0 | 64.5              |

Source: Statistical Year Book, CSO, 2004

- ▲ Planning Department, Ministry of National Planning and Economic Development
- ▲ National Mortality Survey, 1999

## Health Manpower Development

| Health Manpower                    | 1988-89 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 <sup>▲</sup> |
|------------------------------------|---------|---------|---------|---------|---------|----------------------|
| Total No. of Doctors               | 12268   | 16570   | 17081   | 17564   | 18584   | 20501                |
| - Public                           | 4377    | 6180    | 6331    | 6473    | 6941    | 7250                 |
| - Co-operative & Private           | 7891    | 10390   | 10750   | 11091   | 11643   | 13251                |
| Dental Surgeon                     | 857     | 1227    | 1285    | 1365    | 1594    | 1732                 |
| - Public                           | 328     | 517     | 543     | 580     | 625     | 707                  |
| - Co-operative & Private           | 529     | 710     | 742     | 785     | 969     | 1025                 |
| Nurses                             | 8349    | 15502   | 16382   | 18123   | 19776   | 21075                |
| Dental Nurses                      | 96      | 109     | 123     | 159     | 162     | 165                  |
| Health Assistants                  | 1238    | 1728    | 1739    | 1771    | 1771    | 1778                 |
| Lady Health Visitors               | 1557    | 2559    | 2679    | 2796    | 3025    | 3137                 |
| Midwives                           | 8121    | 14097   | 15130   | 16201   | 16745   | 17703                |
| Health Supervisor (1)              | 487     | 529     | 529     | 529     | 529     | 529                  |
| Health Supervisor (2)              | 674     | 1144    | 1199    | 1339    | 1359    | 1394                 |
| Traditional Medicine Practitioners | 279     | 563     | 649     | 819     | 819     | 812                  |

▲ Provisional actual

## Health Facilities Development

| Health Facilities                           | 1988-89 | 2002-03 | 2003-04 | 2004-05 | 2005-06 | 2006-07 <sup>▲</sup> |
|---|---------|---------|---------|---------|---------|----------------------|
| Government Hospitals                        | 631     | 780     | 790     | 824     | 826     | 832                  |
| Total No. of Hospital Beds                  | 25309   | 32770   | 33683   | 34654   | 34920   | 35544                |
| No. of Primary and Secondary Health Centers | 64      | 84      | 84      | 86      | 86      | 86                   |
| No. of Maternal and Child Health Centers    | 348     | 348     | 348     | 348     | 348     | 348                  |
| No. of Rural Health Centers                 | 1337    | 1413    | 1424    | 1456    | 1456    | 1463                 |
| No. of School Health Teams                  | 80      | 80      | 80      | 80      | 80      | 80                   |
| No. of Traditional Medicine Hospitals       | 2       | 12      | 14      | 14      | 14      | 14                   |
| No. of Traditional Medicine Clinics         | 99      | 213     | 237     | 237     | 237     | 237                  |

## Government Health Expenditure

|                                       | 1988-1989    | 2005-2006      | 2006-2007 <sup>▲</sup> |
|---------------------------------------|--------------|----------------|------------------------|
| Health Expenditure (Million Kyats)    |              |                |                        |
| - Current                             | 347.1        | 15376.3        | 14361.8                |
| - Capital                             | 117.0        | 8035.5         | 9816.8                 |
| <b>Total</b>                          | <b>464.1</b> | <b>23411.8</b> | <b>24178.6</b>         |
| Per Capita Health Expenditure (Kyats) | 11.8         | 422.6          | 427.8                  |

▲ Provisional actual

## Leading Causes of Morbidity (2005)

| Sr. No. | Causes   | Percent |
|---------|--|---------|
| 1.      | Other injuries of specified, unspecified and multiple body regions | 10.6    |
| 2.      | Single spontaneous delivery  | 9.8     |
| 3.      | Diarrhoea and gastroenteritis of presumed infectious origin        | 7.8     |
| 4.      | Malaria  | 7.1     |
| 5.      | Other complications of pregnancy and delivery                      | 6.3     |
| 6.      | Other pregnancies with abortive outcome                            | 4.4     |
| 7.      | Other arthropod-borne viral fevers and viral haemorrhagic fevers   | 4.2     |
| 8.      | Other diseases of the respiratory system                           | 3.7     |
| 9.      | Other viral diseases   | 3.0     |
| 10.     | Respiratory tuberculosis   | 2.6     |
| 11.     | Toxic effects of substances chiefly non-medicinal as to source     | 2.3     |
| 12.     | Cataract and other disorders of lens                               | 2.2     |
| 13.     | Gastritis and duodenitis   | 2.1     |
| 14.     | Other conditions originating in the perinatal period               | 2.1     |
| 15.     | Pneumonia  | 1.9     |
|         | All other causes   | 29.8    |
|         | Total  | 100.0   |

Source: Annual Hospital Statistics Report, 2005

## Leading Causes of Mortality (2005)

| Sr. No. | Causes  | Percent |
|---------|---|---------|
| 1.      | Malaria   | 10.1    |
| 2.      | Respiratory tuberculosis  | 5.4     |
| 3.      | Other injuries of specified, unspecified and multiple body regions                                  | 4.4     |
| 4.      | Other diseases of the respiratory system  | 4.4     |
| 5.      | Septicaemia   | 4.0     |
| 6.      | Heart failure   | 3.6     |
| 7.      | Other diseases of liver   | 3.5     |
| 8.      | Stroke, not specified as haemorrhage or infarction  | 3.4     |
| 9.      | Other viral diseases  | 3.2     |
| 10.     | Toxic effects of substances chiefly non-medicinal as to source                                      | 2.8     |
| 11.     | Pneumonia   | 2.7     |
| 12.     | Slow fetal growth, fetal malnutrition and disorders related to short gestation and low birth weight | 2.2     |
| 13.     | Diarrhoea and gastroenteritis of presumed infectious origin   | 2.1     |
| 14.     | Other heart diseases  | 2.1     |
| 15.     | Intrauterine hypoxia and birth asphyxia   | 2.0     |
|         | All other causes  | 44.2    |
|         | Total   | 100.0   |

Source: Annual Hospital Statistics Report, 2005

## Post Graduate Training under Department of Medical Science

| Sr. No. | Training                            | Training Period |
|---------|-------------------------------------|-----------------|
| 1.      | <b>Doctorate Courses</b>            |                 |
|         | <b>(A) Dr. Med. Sc</b>              | 3 years         |
|         | (1) General Medicine                |                 |
|         | (2) General Surgery                 |                 |
|         | (3) Obstetrics & Gynaecology        |                 |
|         | (4) Paediatrics                     |                 |
|         | (5) Orthopaedics                    |                 |
|         | (6) Cardiology                      |                 |
|         | (7) Cardiac Surgery                 |                 |
|         | (8) Respiratory Medicine            |                 |
|         | (9) Thoracic Surgery                |                 |
|         | (10) Neuromedicine                  |                 |
|         | (11) Neurosurgery                   |                 |
|         | (12) Nephrology                     |                 |
|         | (13) Urology                        |                 |
|         | (14) Gastroenterology               |                 |
|         | (15) Hepatology                     |                 |
|         | (16) Clinical Haematology           |                 |
|         | (17) Paediatric Surgery             |                 |
|         | (18) Neonatology                    |                 |
|         | (19) Hand Surgery                   |                 |
|         | (20) Gynaecological Oncology        |                 |
|         | (21) Reproductive Health            |                 |
|         | (22) Anaesthesiology                |                 |
|         | (23) Radiology                      |                 |
|         | (24) Ophthalmology                  |                 |
|         | (25) Otorhinolaryngology            |                 |
|         | (26) Oral and Maxilo-facial Surgery |                 |
|         | (27) Medical Jurisprudence          |                 |
|         | (28) Rehabilitation Medicine        |                 |
|         | <b>(B) Dr. D. Sc</b>                | 3 years         |
|         | (29) Oral Medicine                  |                 |
|         | (30) Prosthodontics                 |                 |
|         | <b>(C) Ph. D</b>                    | 3 years         |
|         | (1) Anatomy                         |                 |
|         | (2) Physiology                      |                 |
|         | (3) Biochemistry                    |                 |
|         | (4) Microbiology                    |                 |
|         | (5) Pathology                       |                 |
|         | (6) Pharmacology                    |                 |
|         | (7) Public Health                   |                 |

| Sr. No.   | Training  | Training Period |
|-----------|---|-----------------|
| <b>2.</b> | <b>Master Courses</b>                             |                 |
| (A)       | <b>Master of Medical Science (M.Med.Sc)</b>       |                 |
| (1)       | Anatomy   | 2 Years         |
| (2)       | Physiology  | 2 Years         |
| (3)       | Biochemistry                                      | 2 Years         |
| (4)       | Pharmacology                                      | 2 Years         |
| (5)       | Public Health                                     | 1 Year          |
| (6)       | Internal Medicine                                 | 3 years         |
| (7)       | Surgery   | 3 years         |
| (8)       | Obstetrics & Gynaecology                          | 3 years         |
| (9)       | Paediatrics                                       | 3 years         |
| (10)      | Orthopaedics                                      | 2 years         |
| (11)      | Ophthalmology                                     | 2 years         |
| (12)      | Otorhinolaryngology                               | 2 years         |
| (13)      | Pathology   | 2 years         |
| (14)      | Microbiology                                      | 2 years         |
| (15)      | Anaesthesiology                                   | 2 years         |
| (16)      | Diagnostic Radiology                              | 2 years         |
| (17)      | Rehabilitation Medicine                           | 2 years         |
| (18)      | Medical Jurisprudence                             | 2 years         |
| (19)      | Mental Health                                     | 2 years         |
| (20)      | Dermatology                                       | 2 years         |
| (21)      | Radiation Oncology                                | 2 years         |
| (22)      | Medical Oncology                                  | 2 years         |
| (23)      | Nuclear Medicine                                  | 1 year          |
| (B)       | <b>Master of Dental Science (M.D.Sc)</b>          |                 |
| (24)      | Dental Science                                    | 2 years         |
| (C)       | <b>Master of Nursing Science (M.N.Sc)</b>         |                 |
| (25)      | Nursing Science                                   | 2 years         |
| (D)       | <b>Master of Pharmacy (M. Pharm)</b>              |                 |
| (26)      | Pharmacy  | 2 years         |
| (E)       | <b>Master of Medical Technology (M. Med.Tech)</b> |                 |
| (27)      | Medical Laboratory Technology                     | 2 years         |
| (28)      | Physiotherapy                                     | 2 years         |
| (29)      | Medical Imaging Technology                        | 2 years         |
| <b>3.</b> | <b>Diploma Courses (Dip. Med. Sc)</b>             |                 |
| (1)       | Tuberculosis and Chest Diseases                   | 1 year          |
| (2)       | Sexually Transmitted Diseases                     | 1 year          |
| (3)       | Hospital Administration                           | 6 months        |
| (4)       | Medical Education                                 | 9 months        |
| (5)       | Family Medicine                                   | 1 year          |
| (6)       | General Dental Practice                           | 1 year          |

## Universities and Training Schools under Department of Medical Science

| Sr. No. | University/ Training Schools               | Degree/ Diploma/ Certificate Conferred   |
|---------|--|--|
| 1.      | University of Medicine (1), Yangon         | M.B., B.S., Dip. Med.Sc., M.Med.Sc., Ph.D, Dr. Med. Sc.  |
| 2.      | University of Medicine, Mandalay           | M.B., B.S., Dip. Med.Sc., M.Med.Sc., Ph.D, Dr. Med.Sc.   |
| 3.      | University of Medicine (2), Yangon         | M.B., B.S., Dip. Med.Sc., M.Med.Sc., Ph.D, Dr. Med.Sc.   |
| 4.      | University of Medicine, Magway             | M.B.,B.S.  |
| 5.      | University of Dental Medicine, Yangon      | B.D.S., Dip.D.Sc., M.D.Sc., Dr. D.Sc., D.DT.(Diploma in Dental Technology)   |
| 6.      | University of Dental Medicine, Mandalay    | B.D.S.   |
| 7.      | University of Nursing, Yangon              | B.N.Sc., M.N.Sc., Diploma Speciality Nursing (Dental, EENT, Mental Health, Paediatrics, Critical Care, Orthopaedics) |
| 8.      | University of Nursing, Mandalay            | B.N.Sc., M.N.Sc.   |
| 9.      | University of Medical Technology, Yangon   | B.Med.Tech., M.Med.Tech.   |
| 10.     | University of Medical Technology, Mandalay | B.Med.Tech.  |
| 11.     | University of Community Health, Magway     | B.Comm.H.  |
| 12.     | University of Pharmacy, Yangon             | B.Pharm., M.Pharm.   |
| 13.     | University of Pharmacy, Mandalay           | B.Pharm.   |
| 14.     | Nursing Training Schools                   | Diploma  |
| 15.     | Midwifery Training Schools                 | Certificate  |
| 16.     | Lady Health Visitor Training School        | Certificate  |
| 17.     | Nursing Field Training School              | -  |
| 18.     | Domiciliary Midwifery Training School      | -  |