

FIRST DATA SET OF ASIAM**1 Population distribution and density by province in 1990**

| Province | area in sq.km. | population x 1000 | density per sq.km. |
|-----------------|-----------------------|--------------------------|---------------------------|
| 1 | 10,498 | 1,411 | 134 |
| 2 | 4,883 | 868 | 178 |
| 3 | 3,813 | 827 | 217 |
| 4 | 3,818 | 640 | 168 |
| 5 | 46 | 625 | 13,587 |
| 6 | 19,044 | 571 | 30 |
| 7 | 10,897 | 542 | 50 |
| 8 | 12,251 | 475 | 39 |
| 9 | 9,862 | 455 | 46 |
| 10 | 7,016 | 440 | 63 |
| 11 | 2,966 | 395 | 133 |
| 12 | 5,678 | 396 | 65 |
| 13 | 5,520 | 283 | 51 |
| 14 | 12,692 | 238 | 19 |
| 15 | 11,094 | 200 | 18 |
| 16 | 14,350 | 92 | 6 |
| 17 | 69 | 74 | 1,072 |
| 18 | 10,781 | 60 | 6 |
| 19 | 11,209 | 53 | 5 |
| 20 | 11,140 | 43 | 4 |
| 21 | 14,916 | 21 | 1 |
| Total | 181,916 | 8,682 | 48 |

2 Country indicators

| Demographic indicators | |
|---|-----------|
| Population (1994) | 9,951,000 |
| Annual growth (1992-2000) | 3.1% |
| Crude birth rate per 1,000 population (1990) | 41.4 |
| Crude death rate per 1,000 population (1990) | 16.6 |
| Under five mortality per 1,000 (1995) | 177 |
| Life expectancy at birth in years for males (1990) | 47.0 |
| Life expectancy at birth in years for females (1990) | 49.7 |
| Infant mortality rate per 1,000 live births (1990) | 129.7 |
| Total fertility rate in women 15-49 years (1992) | 4.5 |

| Economic indicators | |
|---|-------------------|
| Per capita income 1989 | US\$ 160 |
| Agricultural sector | 90% |
| Industrial sector | 5% |
| Service sector | 5% |
| Import (1990) | US\$ 130 million |
| Export (1990) | US\$ 35.5 million |
| Government expenditure as % of GNP | 14% |
| Government income as % of GNP | 7% |
| Foreign debt (1987) | US\$ 600 million |

3 Health facilities and personnel

| Facilities (1988) | Curative | | Preventive | |
|-------------------|--------------|---------------|--------------|------------|
| | Number | Beds | Centres | Number |
| Central level | 8 | 2,125 | Central | 4 |
| Provincial level | 27 | 4,568 | Epidemiology | 175 |
| District level | 153 | 5,759 | Other | 26 |
| Commune level | 1,341 | 5,565 | Nurseries | 81 |
| Total | 1,529 | 18,017 | Total | 285 |

| Type of personnel | Years of training | Number |
|------------------------|-------------------|---------------|
| Medical doctors | 7 | 705 |
| Dentists | 5 | 36 |
| Dental assistants | 3 | 172 |
| Pharmacists | 4 | 262 |
| Secondary pharmacists | 3 | 68 |
| Pharmacists “mixer” | 1 | 80 |
| Medical assistants | 5 | 1,197 |
| State nurses | - | 1,876 |
| Primary nurses | - | 3,801 |
| State midwives | - | 855 |
| Primary midwives | 1 | 1,776 |
| Laboratory technicians | 3 | 225 |
| Laboratory technicians | 1 | 78 |
| Physiotherapists | 3 | 18 |
| Total | | 11,149 |

4 Prevalence of tuberculous infection in schoolchildren aged 5-9 years, in four provinces in 1970

| Province | % positive reactions | estimated annual risk of infection |
|-----------------|-----------------------------|---|
| 1 | 36.7 | 4.7 |
| 2 | 33.3 | 4.3 |
| 3 | 25.3 | 3.3 |
| 4 | 21.0 | 2.7 |

5 Results of tuberculosis sampling surveys

| Year | Province | Survey population | number of smear-positive cases | smear-positive cases per 1,000 population |
|----------------|-----------------|--------------------------|---------------------------------------|--|
| 1981 | 1 | 1,506 | 6 | 4.0 |
| 1981 | 2 | 2,596 | 12 | 4.6 |
| 1982 | 2 | 3,160 | 7 | 2.2 |
| 1988 | 2 | 3,369 | 10 | 3.0 |
| 1982 | 3 | 3,534 | 19 | 5.4 |
| 1988/89 | 3 | 4,575 | 23 | 5.0 |
| 1983 | 4 | 4,161 | 23 | 5.5 |
| 1983 | 4 | 6,700 | 23 | 3.8 |
| 1984 | 4 | 2,790 | 17 | 6.1 |
| 1984 | 4 | 4,165 | 25 | 5.5 |
| 1988/89 | 4 | 6,408 | 54 | 8.4 |
| 1985 | 5 | 3,508 | 18 | 5.1 |
| 1988/89 | 5 | 3,120 | 25 | 8.0 |
| 1985 | 6 | 4,578 | 34 | 7.4 |
| 1988/89 | 7 | 5,324 | 16 | 3.0 |
| 1988/89 | 8 | 5,500 | 20 | 3.6 |
| 1988/89 | 9 | 6,404 | 42 | 6.6 |
| total | | 71,398 | 374 | 5.2 |

6 Tuberculosis cases reported from 1980 to 1991

| Year | Number of suspects | number of new smear-positive cases | number of cases, all forms, started on treatment |
|-------------|---------------------------|---|---|
| 1980 | 6,337 | 571 | 2,576 |
| 1981 | 7,115 | 630 | 1,980 |
| 1982 | 26,973 | 5,801 | 8,158 |
| 1983 | 38,313 | 5,316 | 7,572 |
| 1984 | 34,627 | 5,507 | 10,241 |
| 1985 | 33,213 | 5,235 | 10,145 |
| 1986 | 43,855 | 8,715 | 10,325 |
| 1987 | 43,044 | 7,173 | 9,106 |
| 1988 | 40,522 | 8,246 | 10,691 |
| 1998 | 26,895 | 5,842 | 7,906 |
| 1990 | 22,453 | 5,132 | 6,501 |
| 1991 | 38,868 | 8,507 | 10,903 |

7 Numbers and rates per 100,000 of new smear-positive cases and cases all forms reported in 1991 by province

| Province | Number of new smear-positive cases | Rate of new smear-positive cases per 100,000 population | Number of cases, all forms, of tuberculosis | Rate of cases, all forms, of tuberculosis, per 100,000 population |
|-----------------|---|--|--|--|
| 1 | 163 | 220 | 185 | 250 |
| 2 | 1,455 | 181 | 2,211 | 276 |
| 3 | 504 | 178 | 567 | 200 |
| 4 | 968 | 151 | 1,093 | 171 |
| 5 | 566 | 143 | 678 | 172 |
| 6 | 606 | 138 | 663 | 151 |
| 7 | 281 | 118 | 406 | 171 |
| 8 | 397 | 108 | 678 | 184 |
| 9 | 877 | 101 | 1,061 | 122 |
| 10 | 535 | 99 | 663 | 122 |
| 11 | 639 | 77 | 790 | 96 |
| 12 | 274 | 58 | 302 | 64 |
| 13 | 280 | 49 | 562 | 98 |
| 14 | 205 | 45 | 713 | 156 |
| 15 | 19 | 44 | 27 | 63 |
| 16 | 54 | 27 | 67 | 34 |
| 17 | 280 | 20 | 370 | 26 |
| total | 8,103 | 91 | 11,036 | 123 |

8 Characteristics of new patients in 1991

| | Provinces | | Capital City | |
|----------------------------------|------------------|----------|---------------------|----------|
| | Number | % | Number | % |
| Total | 8,697 | 100 | 2,175 | 100 |
| Site of disease | | | | |
| Pulmonary, smear-positive | 7,052 | 81.1 | 1,783 | 81.9 |
| Pulmonary, smear-negative | 1,254 | 14.4 | 185 | 8.5 |
| Extra-pulmonary | 391 | 4.5 | 207 | 9.5 |
| Gender | | | | |
| Male | 5,141 | 59.1 | 1,279 | 58.8 |
| Female | 3,556 | 40.9 | 896 | 41.2 |
| Age (smear-positive only) | | | | |
| 0-14 | 39 | 0.6 | 11 | 0.6 |
| 15-34 | 2,418 | 34.3 | 391 | 21.9 |
| 35-54 | 3,862 | 54.8 | 741 | 41.5 |
| >54 | 733 | 10.4 | 640 | 35.9 |

9 Results of treatment of 622 new smear-positive cases started on first line treatment in 1991 in 11 centres in Asiam

| 3SHZ/9S ₂ H ₂ | | Cured | | Treatment Completed | | Died | | Failure | | Out of Control | | Transferred | |
|-------------------------------------|------------|------------|-----------|---------------------|----------|-----------|----------|----------|----------|----------------|-----------|-------------|-----------|
| Centre | Number | N | % | N | % | N | % | N | % | N | % | N | % |
| I | 33 | 11 | 33 | 4 | 11 | 3 | 9 | - | - | 15 | 45 | - | - |
| II | 69 | 34 | 50 | 8 | 12 | 1 | 1 | - | - | 20 | 29 | 6 | 9 |
| III | 24 | 22 | 92 | - | - | - | - | - | - | 2 | 8 | - | - |
| IV | 30 | 22 | 73 | - | - | 4 | 13 | - | - | 2 | 7 | 2 | 7 |
| V | 25 | 3 | 12 | 12 | 48 | 1 | 4 | - | - | 9 | 36 | - | - |
| VI | 77 | 33 | 43 | 3 | 4 | 3 | 4 | 1 | 1 | 27 | 35 | 10 | 13 |
| VII | 28 | 15 | 54 | 3 | 11 | 1 | 4 | - | - | 8 | 29 | 1 | 4 |
| VIII | 31 | 15 | 48 | 5 | 16 | - | - | - | - | 11 | 35 | - | - |
| IX | 54 | 5 | 9 | 5 | 9 | 2 | 4 | 2 | 4 | 39 | 72 | 1 | 2 |
| X | 132 | 71 | 54 | 6 | 5 | 7 | 5 | 1 | 1 | 8 | 6 | 39 | 30 |
| Subtotal | 503 | 231 | 46 | 46 | 9 | 22 | 4 | 4 | 1 | 141 | 28 | 59 | 12 |
| NTC | 119 | 17 | 14 | 3 | 3 | 2 | 2 | 1 | 1 | 55 | 46 | 41 | 34 |
| Total | 622 | 248 | 40 | 49 | 8 | 24 | 4 | 5 | 1 | 196 | 32 | 100 | 16 |

10 Functional and total number of anti-tuberculosis centers by province in 1992

| Province | Functional | Total | Coverage in % |
|-----------------|-------------------|--------------|----------------------|
| 1 | 12 | 12 | 100 |
| 2 | 14 | 14 | 100 |
| 3 | 10 | 10 | 100 |
| 4 | 8 | 8 | 100 |
| 5 | 6 | 8 | 75 |
| 6 | 7 | 7 | 100 |
| 7 | 4 | 8 | 50 |
| 8 | 4 | 5 | 80 |
| 9 | 1 | 2 | 50 |
| 10 | 4 | 14 | 29 |
| 11 | 5 | 7 | 71 |
| 12 | 5 | 8 | 63 |
| 13 | 1 | 17 | 6 |
| 14 | 1 | 7 | 14 |
| 15 | 1 | 6 | 17 |
| 16 | 1 | 5 | 20 |
| 17 | 1 | 7 | 14 |
| 18 | 1 | 9 | 11 |
| 19 | 1 | 5 | 20 |
| 20 | 1 | 7 | 14 |
| 21 | 1 | 1 | 100 |
| 22 | 4 | 4 | 100 |
| Total | 93 | 171 | 53 |