# Chapter: 5
## Result Table – Chest symptomatic patients

### Table 5.1.1
### Prevalence of chest symptomatic patients

| Sr. No. | Districts | Adult Population | Chest symptomatic | |
| --- | --- | --- | --- | --- |
| | | | Number | % |
| 1 | Anand | 22583 | 126 | 0.55 |
| 2 | Mehsana | 19148 | 110 | 0.57 |
| | Total | ·41731 | 236⁻ | 0.56 |

### Table 5.1.2
Table showing availability of chest symptomatic patients and interviewed out of available by surveys team.

| Sr. No. | Districts | Total no. of chest symptomatic | No. of chest symptomatic Pt. present at the time of interview | No. of chest symptomatic Pt. interview |
| --- | --- | --- | --- | --- |
| 1 | Anand | 126 | 125 (99.2%) | 125 (100%) |
| 2 | Mehsana | 110 | 104 (94.5%) | 103 (99.0%) |
| | Total | 236 | 229 (97.0%) | 228 (99 6%) |

**Table 5.1.3**

**Sex distribution of chest symptomatic patients interviewed**

| Sr. No. | Sex | No. of chest symptomatic patients | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Female | 39 (31.2%) | 39 (37.9%) | 78 (34.2%) |
| 2 | Male | 86 (68.8%) | 64 (62.1%) | 150 (65.8%) |
| | Total | 125 (100%) | 103 (100%) | 238 (100%) |

$X^2 = 1.11$ Degree of freedom 1, P value = 0.291163

**Table 5.1.4**

**Educational status of chest symptomatic patients interviewed**

| Sr. No. | Education | No. of chest symptomatic patients | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Anand | | | Mehsana | | | Total | | |
| | | Male | Female | Total | Male | Female | Total | Male | Female | Total |
| 1 | Illiterate | 27 (31.4%) | 26 (66.7%) | 53 (42.4%) | 16 (25.0%) | 31 (79.5%) | 47 (45.6%) | 43 (28.7%) | 57 (73.0%) | 100 (43.9%) |
| 2 | Primary | 48 (55.8%) | 6 (15.3%) | 54 (43.2%) | 36 (56.2%) | 7 (17.9%) | 43 (41.8%) | 84 (56.0%) | 13 (16.7%) | 97 (22.6%) |
| 3 | Secondary | 10 (11.6%) | 6 (15.3%) | 16 (12.8%) | 12 (18.8%) | 1 (2.6%) | 13 (12.6%) | 22 (14.7%) | 7 (9.0%) | 29 (12.7%) |
| 4 | Higher secondary | 1 (1.2%) | 0 (0.0%) | 1 (0.8%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (0.6%) | 0 (0.0%) | 1 (0.4%) |
| 5 | Graduate | 0 (0.0%) | 1 (2.7%) | 1 (0.8%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 1 (1.3%) | 1 (0.4%) |
| | Total | 86 (100%) | 39 (100%) | 125 (100%) | 64 (100%) | 39 (100%) | 103 (100%) | 150 (100%) | 78 (100%) | 228 (100%) |

**Table 5.1.5**
**Income-wise distribution of chest symptomatic patients**

| Sr. No. | Monthly family income (Rs.1000) | No. of chest symptomatic patients | | |
|---|---|---|---|---|
| | | Anand (n=125) | Mehsana (n=103) | Total (n=228) |
| 1 | <1 | 60 | 19 | 179 |
| 2 | 1 | 27 | 31 | 58 |
| 3 | 2 | 15 | 8 | 23 |
| 4 | 3 | 12 | 6 | 18 |
| 5 | 4 | 4 | 5 | 9 |
| 6 | 5 | 6 | 16 | 22 |
| 7 | 6 | 0 | 4 | 4 |
| 8 | 7 | 0 | 2 | 2 |
| 9 | 8 | 0 | 2 | 2 |
| 10 | 9 | 0 | 0 | 0 |
| 11 | 10 | 0 | 3 | 3 |
| 12 | 11 | 1 | 0 | 1 |
| 13 | 12 | 0 | 4 | 4 |
| 14 | 15 | 0 | 3 | 3 |
| | Total | 125 | 103 | 228 |

**Figure 5.1.1**
**Line diagrame showing income of chest symptomatic patients**

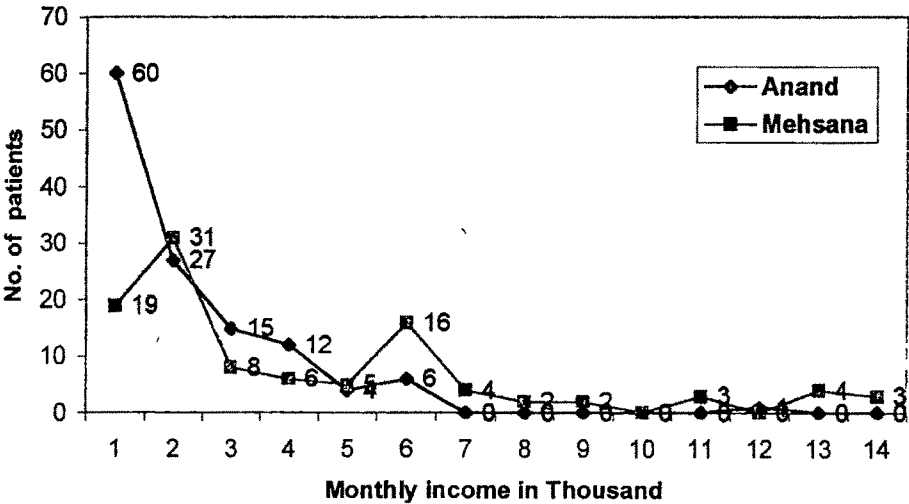## Table 5.1.6
### Age distribution of chest symptomatic patients

| Sr. No. | Age groups (Years) | No. of chest symptomatic patients | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=125) | Mehsana (n=103) | Total (n=228) |
| 1 | 0-14 | 0 | 3 | 3 |
| 2 | 15-24 | 9 | 5 | 14 |
| 3 | 25-34 | 14 | 10 | 24 |
| 4 | 35-44 | 19 | 25 | 44 |
| 5 | 45-54 | 27 | 18 | 45 |
| 6 | 55-64 | 31 | 21 | 52 |
| 7 | 65 + | 25 | 21 | 46 |
| | Total | 125 | 103 | 228 |

Figure 5.1.2

**Bar chart showing age group of symptomatic patients**



51
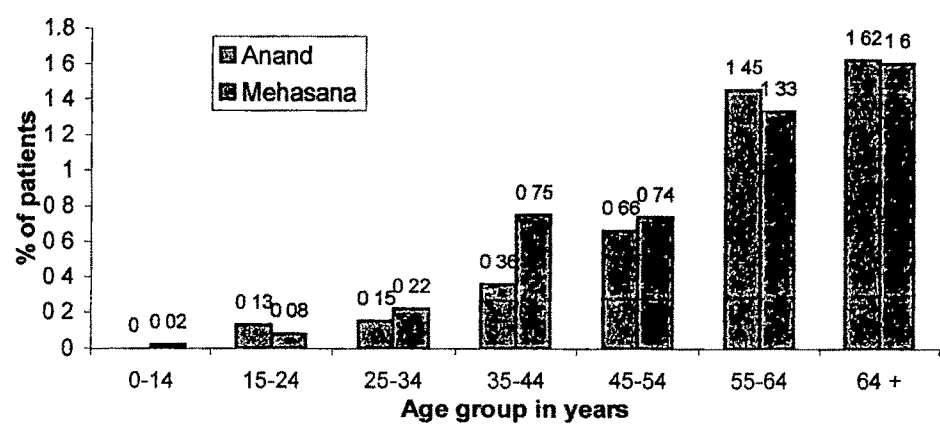
## Table 5.1.7

### Smoking habit of chest symptomatic patients interviewed

| Sr. No. | Sex | No. of chest symptomatic patients | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Female | 9/39 (23%) | 7/39 (18%) | 16/78 (66.4%) |
| 2 | Male | 74/86 (86%) | 52/64 (81.3%) | 126/150 (84%) |
| - | Total | 83/125 (66.4%) | 59103 (57.3%) | 142/238 (62.3%) |

## Table 5.1.8

### Alcoholic habit of chest symptomatic patients interviewed

| Sr. No. | Sex | No. of chest symptomatic patients | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Female | 0/39 (0.0%) | 0/39 (0 0%) | O/78 (0 0%) |
| 2 | Male | 18/86 (20 9%) | 25/64 (39 1%) | 43/150 (28 7%) |
| | Total | 18/125 (14.4%) | 25/103 (24 3%) | 43/228 (18 9%) |

## Table 5.1.9

**Awareness and action taken by chest symptomatic patients for their symptoms**

| Sr. No. | Particulars | No. of chest symptomatic patients | | |
| --- | --- | --- | --- | --- |
| | | Anand | Mehsana | Total |
| 1 | Proportion of chest symptomatic present at home at the time of survey team visit | 99.2% (125/126) | 94 5% (104/110) | 97.0% (229/236) |
| 2 | Proportion of chest symptomatic interviewed | 100% (125/125) | 99.0% (103/104) | 99.6% (228/229) |
| 3 | Proportion of chest symptomatic think that they need medical attention for their symptom | 97.6% (122/125) | 94.2% (97/103) | 96.0% (219/228) |
| 4 | Proportion of chest symptomatic taken treatment for their symptom | 76.8% (96/125 | 83.5% (86/103) | 79.8% (182/228) |

## Table 5.1.10

**Place, where the treatment taken by chest symptomatic patients for their Symptoms**

| Sr. No. | Place of treatment | No. of chest symptomatic patients | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=96) | Mehsana (n=86) | Total (182) |
| 1 | Govt. facilities | 27 (28.1%) | 18 (20.9%) | 45 (24.7%) |
| 2 | Private doctor | 53 (55.2%) | 54 (62.8%) | 107 (58.9%) |
| 3 | NGO Hospital | 12 (12 5%) | 9 (10.5%) | 21 (11.5%) |
| 4 | Home remedies | 3 (3.1%) | 5 (5 8%) | 8 (4.4%) |
| 5 | Self medication | 1 (1 1%) | 0 (0.0%) | 1 (0.5%) |
| | Total | 96 (100%) | 86 (100%) | 182 (100%) |

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**Table 5.1.11**
**Prevalence of symptoms among the chest symptomatic patients**

| Sr. No. | Symptoms | No. of chest symptomatic patients | | |
|---|---|---|---|---|
| | | Anand (n=125) | Mehsana (n=103) | Total (n=228) |
| 1 | Cough with expectoration | 125 (100%) | 103 (100%) | 228 (100%) |
| 2 | Fever | 97 (77 6%) | 63 (61.2%) | 142 (62.3%) |
| 3 | Weight-loss | 51 (40.8%) | 34 (33 0%) | 85 (37.3%) |
| 4 | Los of appetite | 43 (34.4%) | 31 (30.1%) | 74 (32.5%) |
| 5 | Blood in sputum | 8 (6.4%) | 17 (16.5%) | 25 (11 0%) |
| 6 | Short of breath | 7 (5.6%) | 10 (9.7%) | 17 (7.5%) |
| 7 | Pain in chest | 1 (0.8%) | 0 (0.0%) | 1 (0.4%) |
| 8 | Backache | 1 (0.8%) | 0 (0.0%) | 1 (0.4%) |

Note – Multiple symptoms reported by chest symptomatic patients.

**Figure 5.1.3**
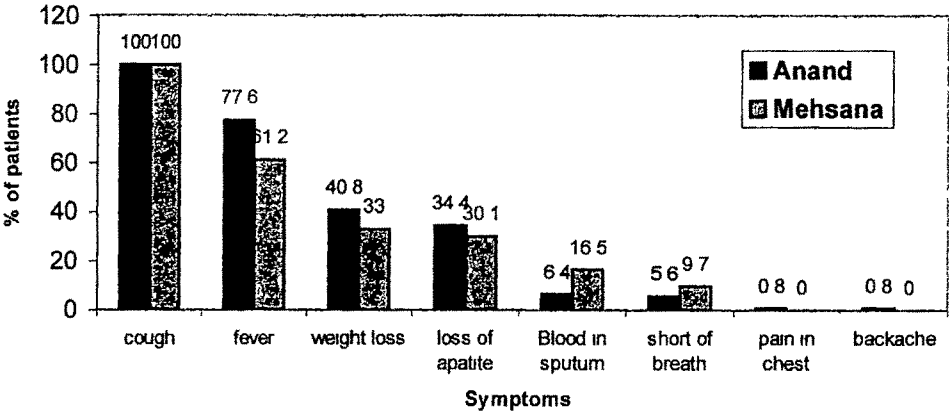**Bar chart showing distribution of symptoms in chest symptomatic patients**

## Table 5.1.12
### Chest symptomatic patients submitted for various investigations by treating physician to rule out Tuberculosis

| Sr. No. | Investigation | No. of chest symptomatic patients submitted for investigation | | |
|---|---|---|---|---|
| | | Anand (n=96) | Mehsana (n=86) | Total (n=182) |
| 1 | X-rays chest/ Screening chest | 32 (33.3%) | 47 (54.7%) | 79 (43.4%) |
| 2 | Sputum smear AFB | 20 (20.8%) | 25 (29 1%) | 45 (24.7%) |
| 3 | Blood TC/DC | 15 (15.6%) | 23 (26.7%) | 38 (20.9%) |
| 4 | ESR | 10 (10.4%) | 21 (24.4%) | 31 (17.0%) |
| 5 | Urine examination | 15 (15.6%) | 21 (24.4%) | 36 (19.8%) |
| 6 | Tuberculin test | 1 (1.0%) | 0 (0.0%) | 1 (0.5%) |
| 7 | Sonography | 1 (1.0%) | 0 (0.0%) | 1 (0.5%) |
| 8 | No investigation | 52 (54.2%) | 33 (38 4%) | 85 (46.7%) |

Note – Multiple investigations

## Table 5.1.13
### Proportion Chest symptomatic patients submitted for investigation to rule out Tuberculosis

| Sr. No. | Investigation | Proportion of chest symptomatic patients submitted for investigation | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | X-rays chest + Sputum smear AFB | 11.5% (11/96) | 22.1% (19/86) | 16.5% (30/182) |
| 2 | X-rays chest after sputum smear AFB (*) | 2.1% (2/96) | 2.3% (2/86) | 2.2% (4/182) |
| 3 | Only X-rays chest | 18.7% (18/96) | 41.9% (26/86) | 24.2% (44/182) |
| 4 | Only sputum smear AFB | 7.3% (7/96) | 4.6% (4/86) | 6.0% (11/182) |

Note- (*) Recommended by national Tuberculosis control program

**Table 5.1.14**

**Knowledge regarding symptoms of tuberculosis among the chest symptomatic patients**

| Sr. No. | Name of symptoms | No. of chest symptomatic patients | | |
|---|---|---|---|---|
| | | Anand (n=125) * | Mehsana (n=102) * | Total (n=227) |
| 1 | Cough | 105 (84.4%) | 86 (84.3%) | 191 (84.1%) |
| 2 | Weakness | 73 (58.4%) | 43 (42.2%) | 116 (51.1%) |
| 3 | Loss of appetite | 44 (35.2%) | 42 (41.2%) | 86 (37.9%) |
| 4 | Blood in sputum | 49 (39.2%) | 66 (64.7%) | 115 (50.7%) |
| 5 | Short of breath | 21 (16.8%) | 10 (9.8%) | 31 (13.7%) |
| 6 | Fever | 44 (64.8%) | 55 (53.9%) | 99 (43 6%) |
| 7 | Chest pain | 81 (64.8%) | 47 (46.1%) | 128 (56.4%) |
| 8 | No response | 20 (16.0%) | 17 (16.7%) | 37 (16.3%) |

(*) Multiple responses

**Table 5.1.15**

**Recognition of symptoms of tuberculosis by the chest symptomatic patients**

| Sr. No. | Name of symptoms | No. of chest symptomatic patients | | |
|---|---|---|---|---|
| | | Anand (n=20) | Mehsana (n=17) | Total (n=37) |
| 1 | TB | 12 (60 0%) | 3 (17 6%) | 15 (40.5%) |
| 2 | Asthma | 0 (0.0%) | 2 (11.8%) | 2 (5.4%) |
| 3 | Do not know | 8 (40%) | 12 (70 6%) | 20 (54.1%) |
| 4 | Total | 20 (100%) | 17 (100%) | 37 (100%) |

**Table 5.1.16**

**Knowledge about the fact of TB among the chest symptomatic patients**

| Sr. No. | Knowledge | No. of chest symptomatic patients responded | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | District | Awareness Present (%) | Source of knowledge gain | | | | | |
| | | | | Dr. | HW | RF | Pt. | VE | MM |
| 1 | One can gate TB from another person who has TB | Anand | 87/125 (69.6%) | 24 | 10 | 35 | 20 | 14 | 0 |
| | | Mehsana | 86/102 (84.3%) | 41 | 34 | 23 | 12 | 0 | 0 |
| 2 | A germ of TB can be seen in sputum of TB patient. | Anand | 42/125 (33.6%) | 19 | 8 | 7 | 12 | 3 | 0 |
| | | Mehsana | 23/102 (22.6%) | 16 | 11 | 2 | 0 | 0 | 0 |
| 3 | A TB patient, who is not taking treatment cough or sneezed then he can spread the disease | Anand | 60/125 (48.0%) | 27 | 9 | 14 | 11 | 4 | 1 |
| | | Mehsana | 68/102 (66.7%) | 39 | 30 | 15 | 4 | 2 | 0 |
| 4 | Taking all drugs regularly is very critical to prevent the spread of disease | Anand | 47/125 (37.6%) | 27 | 6 | 7 | 9 | 2 | 0 |
| | | Mehsana | 63/102 (61.8%) | 39 | 23 | 5 | 30 | 0 | 0 |
| 5 | TB is curable | Anand | 93/125 (74.4%) | 33 | 15 | 49 | 19 | 31 | 4 |
| | | Mehsana | 82/102 (80.4%) | 41 | 34 | 10 | 5 | 0 | 0 |
| 6 | TB drugs are available free of cast at govt. hospital | Anand | 93/125 (74 4%) | 24 | 26 | 41 | 61 | 21 | 1 |
| | | Mehsana | 61/102 (59.8%) | 30 | 33 | 7 | 6 | 1 | 0 |
| 7 | Is there any vaccine for tuberculosis? | Anand | 44/125 (35.2%) | 4 | 30 | 12 | 0 | 16 | 2 |
| | | Mehsana | 25/102 (24.5%) | 5 | 21 | 0 | 0 | 0 | 0 |

**Table 5.1.17**

**Knowledge regarding facilities for diagnosis and treatment of TB available in the their district among the chest symptomatic patients**

| Sr. No. | Name of institution | No. of chest symptomatic patients responded | | |
|---|---|---|---|---|
| | | Anand (n=125) | Mehsana (n=102) | Total (n=227) |
| 1 | DTC | 62 (49 6%) | 40 (39.2%) | 102 (44.9%) |
| 2 | PHC | 12 (9.6%) | 43 (42.2%) | 55 (24.2%) |
| 3 | CHC | 21 (16.8%) | 6 (5.9%) | 27 (11.9%) |
| 4 | District hospital | 17 (13.6%) | 6 (5.9%) | 23 (10.1%) |
| 5 | Private hospital | 4 (3.2%) | 2 (1.9%) | 6 (2.6%) |
| 6 | NGO TB hospital | 83 (66.4%) | 34 (33 3%) | 117 (51.5%) |
| 7 | Do not know | 34 (27.2%) | 21 (20.6%) | 35 (15.4%) |

**Table 5.1.18**

**Knowledge of facilities where diagnosis and treatment for TB is available free of cast, nearer to the house of chest symptomatic patients**

| Sr. No. | Name of district (n) | No. of chest symptomatic patients specify the name of institutions | | | | |
|---|---|---|---|---|---|---|
| | | PHC | CHC | DTC | NGO's | Other |
| 1 | Anand (n= 125) | 17 (13.6%) | 16 (12.8%) | 28 (22.4%) | 6 (4 8%) | 3 (2 4%) |
| 2 | Mehsana (n=102) | 52 (51.0%) | 0 (0.0%) | 3 (2.9%) | 0 (0 0%) | 0 (0 0%) |
| 3 | Total (n=227) | 69 (30.4%) | 16 (7.1 %) | 31 (13 7%) | 6 (2 6%) | 3 (1.3%) |

**Table 5.1.19**
**Frequency of health worker visit to their house during one month as reported by chest symptomatic patients**

| Sr. No. | District | Proportion of chest symptomatic house visited by health worker | Frequency of visit of health worker during last one month period reported by Chest symptomatic patients | | | | |
|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | Total |
| 1 | Anand | 96% (120/125) | 39 (32.5%) | 60 (50.0%) | 14 (11.7%) | 7 (5.8%) | 120 (100%) |
| 2 | Mehsana | 88.2% (90/102) | 23 (25.6%) | 56 (62.2%) | 5 (5 6%) | 6 (6.7%) | 90 (100%) |
| 3 | Total | 92.5% (210/227) | 62 (29.5%) | 116 (55.2%) | 19 (9.0%) | 13 (6.3%) | 210 (100%0 |

**Table 5.1.20**
**Knowledge of chest symptomatic patients – about purpose of health worker visit**

| Sr. No. | Purpose of visit of health worker | No. of chest symptomatic patients reported | | |
|---|---|---|---|---|
| | | Anand (n=120) | Mehsana (n=90) | Total (n=210) |
| 1 | Malaria | 115 (95.8%) | 85 (94.4%) | 200 (95.2%) |
| 2 | Vaccination | 101 (84.2%) | 52 (57.8%) | 153 (72.9%) |
| 3 | Pregnancy | 1 (0.8%) | 5 (5.6%) | 6 (2.9%) |
| 4 | TB | 0 (0.0%) | 2 (2.2%) | 2 (0.9%) |
| 5 | F P | 95 (79.2%) | 59 (65 6%) | 154 (73 3%) |
| 6 | Other | 1 (0.8%) | 4 (4 4%) | 5 (2 4%) |
| 7 | Do not know | 5 (4 2%) | 3 (3 3%) | 8 (3.8%) |

Note—[*] Multiple responses.

## Table 5.1.21
### Awareness of the fact that the health worker can help for diagnosis and treatment of tuberculosis among the chest symptomatic patients

| Sr. No. | Knowledge | No. of chest symptomatic patients know that the health worker can help for diagnosis and treatment of TB | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=125) | Mehsana (n=102) | Total (n=227) |
| 1 | Yes | 27 (21.6%) | 38 (37.5%) | 65 (28.6%) |
| 2 | No | 98 (78.4%) | 64 (62.7%) | 162 (71.4%) |
| 3 | Total | 125 (100%) | 102 (100%) | 227 (100%) |

## Table 5.1.22

### Commonest method of disposal of sputum by chest symptomatic patients

| Sr. No. | Methods of disposal of sputum | No. of chest symptomatic patients responded | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=125) | Mehsana (n=102) | Total (n=227) |
| 1 | Spitted in street | 95 (76.0%) | 83 (81 4%) | 178 (78.4%) |
| 2 | Collected and burnt | 7 (5.6%) | 10 (9.8%) | 17 (7.5%) |
| 3 | Buried in the ground | 12 (9.6%) | 7 (6.9%) | 19 (8.4%) |
| 4 | Thrown in lavatory | 11 (8.8%) | 2 (1.9%) | 13 (5.7%) |
| 5 | Total | 125 (100%) | 102 (100%) | 227 (100%) |

**Table 5.1.23**

**Chest symptomatic patients who were given sputum sample for AFB examination to study team**

| Sr. No. | Sputum sample given | No. of chest symptomatic patients | | |
|---|---|---|---|---|
| | | Anand (n=125) | Mehsana (n=102) | Total (n=227) |
| 1 | Yes | 110 (88.0%) | 98 (96.1%) | 208 (91.6%) |
| 2 | No | 15 (12.0%) | 4 (3.9%) | 19 (8.4%) |
| 3 | Total | 125 (100%) | 102 (100%) | 227 (100%) |

**Table 5.1.24**

**Reason for not given sputum sample for AFB examination**

| Sr. No. | Reason | No. of chest symptomatic patients responded | | |
|---|---|---|---|---|
| | | Anand (n=15) | Mehsana (n=4) | Total (n=19) |
| 1 | No faith in govt. | 5 (33.3%) | 1 (25.0%) | 6 (31.6%) |
| 2 | No reason | 9 (60.0%) | 2 (50.0%) | 11 (57.8%) |
| 3 | Not given | 1 (6.7%) | 0 (0.0%) | 1 (5.3%) |
| 4 | Refused due to drunk condition | 0 (0 0%) | 1 (25.0%) | 1 (5 3%) |
| 5 | Total | 15 (100%) | 4 (100%) | 19 (100%) |

## Table 5.1.25

### Sputum smear AFB positive among the chest symptomatic patients

| Sr. No. | Type of sample | No. of chest symptomatic patients reported Sputum smear AFB Positive | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=110) | Mehsana (n=98) | Total (n=208) |
| 1 | First spot sample | 5 (4.5%) | 9 (9.2%) | 14 (6.7%) |
| 2 | Second over night sample | 12 (10.9%) | 9 (9.2%) | 21 (10.0%) |
| 3 | Third spot sample | 11 (10.0%) | 6 (6.1%) | 17 (8.2%) |
| 4 | Total no patients reported positive sputum smear AFB + | 12 (10.9%) | 9 (9.2%) | 21 (10.0%) |

# Chapter 5- Results Table (TB Patients)

## Table 5.2.1
### TB Patients interviewed out of total registered by surveys team

| Sr. No. | Interview | No. of TB Patients registered during surveys | | |
|---------|-----------|---------------|---------------|---------------|
| | | Anand (%) | Mehsana (%) | Total (%) |
| 1 | Yes | 140 (98.6%) | 91 (92.9%) | 231 (96.2%) |
| 2 | No | 2 (1.4%) | 7 (7.1%) | 9 (3.8%) |
| 3 | Total | 142 (100%) | 98 (100%) | 240 (100%) |

## Table 5.2.2

### Reasons, why not interviewed the TB Patients

| Sr. No. | Reason | No. of TB Patients not interviewed | | |
|---------|--------|-------|---------|-------|
| | | Anand | Mehsana | Total |
| 1 | Admitted to hospital | 1 | 2 | 3 |
| 2 | Migrated to other place | 1 | 1 | 2 |
| 3 | Out of station for social reason | 0 | 2 | 2 |
| 4 | Went to work place | 0 | 2 | 2 |
| 5 | Total | 2 | 7 | 9 |

## Table 5.2.3

## TB patients registered, who had taken treatment during the year 1998 at
## Selected villages

| Sr. No. | District | PHC | Village | Popu. as per census | Popu. registered during surveys | No. of TB patients taken treatment | No. of TB patients per 1000 population |
|---|---|---|---|---|---|---|---|
| S | | Daol | Daol | 11652 | 7393 | 29 | 3.92 |
| | | | Santokpura | 1733 | 1702 | 10 | 5.87 |
| | | | Total | 13385 | 9095 | 39 | 4.29 |
| | | Morad | Morad | 3561 | 3477 | 11 | 3.48 |
| | | | Vishnoli | 2651 | 2646 | 13 | 4.91 |
| 1 | Anand | | Total | 6212 | 6123 | 24 | 3.92 |
| | | Undel | Undel | 9758 | 8587 | 17 | 1.92 |
| | | | Shakerpur | 6938 | 6939 | 21 | 3.03 |
| | | | Total | 16696 | 15526 | 38 | 2.45 |
| | | Vera-khadi | Vera-khadi | 3241 | 3002 | 32 | 10.65 |
| | | | Kherda | 1916 | 1891 | 9 | 4.76 |
| | | | Total | 8157 | 7893 | 41 | 5.23 |
| | **Total Anand** | | | **41450** | **35637** | **142** | **3.98** |
| 2 | Mehsana | Bhunav | Bhunav | 3968 | 3275 | 10 | 3.05 |
| | | | Ranchodpura | 2990 | 2377 | 5 | 2.10 |
| | | | Total | 6958 | 5652 | 15 | 2.65 |
| | | Kherva | Kherva | 7560 | 7334 | 24 | 3.27 |
| | | | Devrason | 2831 | 2847 | 11 | 3.86 |
| | | | Total | 10391 | 10181 | 35 | 3.43 |
| | | Kungher | Kungher | 5438 | 5497 | 25 | 4.55 |
| | | | Saboson | 957 | 955 | 4 | 4.19 |
| | | | Total | 6395 | 6452 | 29 | 4.49 |
| | | Shankhe-shwer | Shankheshwer | 5700 | 5782 | 17 | 2.24 |
| | | | Khadia | 399 | 349 | 2 | 5.73 |
| | | | Total | 6099 | 7931 | 19 | 2.39 |
| | **Total Mehsana** | | | **29843** | **30216** | **98** | **3.24** |

## Table 5.2.4
### Sex distribution of TB patients interviewed

| Sr. No. | Sex | No. of TB Patients | | |
|---|---|---|---|---|
| | | Anand (%) | Mehsana (%) | Total (%) |
| 1 | Female | 48 (35.0%) | 32 (35.2%) | 81 (35.1%) |
| 2 | Male | 91 (65.0%) | 59 (64.8%) | 150 (64.9%) |
| 3 | Total | 140 (100%) | 91 (100%) | 231 (100%) |
| P value- 0.9795 | | | | |

## Table 5.2.5
### Educational status of TB patients

| Sr. No. | Education | No. of TB Patients | | |
|---|---|---|---|---|
| | | Anand (%) | Mehsana (%) | Total (%) |
| 1 | Illiterate | 60 (42.0%) | 42 (46.2%) | 102 (44.2%) |
| 2 | Primary | 62 (44.3%) | 29 (31.9%) | 91 (39.4%) |
| 3 | Secondary | 16 (11.4%) | 15 (16.5%) | 31 (13.4%) |
| 4 | Higher secondary | 2 (1.4%) | 5 (5.4%) | 7 (3.0%) |
| 5 | Total | 140 (100%) | 91 (100%) | 231 (100%) |
| $X^2$= 6.35, Df = 1, P value = 0.09562 | | | | |

**Table 5.2.6**

**Distribution of TB patients as per age groups**

| Sr. No. | Age group in year | % of TB Patients | | |
|---|---|---|---|---|
| | | Anand (n=140) | Mehsana (n=91) | Total (n=231) |
| 1 | 0 to 14 | 2.1 | 4.4 | 3.0 |
| 2 | 15 to 24 | 5.7 | 5.5 | 5.6 |
| 3 | 25 to 34 | 16.4 | 18.7 | 17.3 |
| 4 | 35 to44 | 22.1 | 23.1 | 22.5 |
| 5 | 45 to 54 | 23.6 | 19.8 | 22.0 |
| 6 | 55 to 64 | 19.3 | 19.8 | 19.5 |
| 7 | - 65 + | 10.7 | 8.8 | 9.94 |

**Figure 5.2.1**

**Distribution of age group of TB patients**
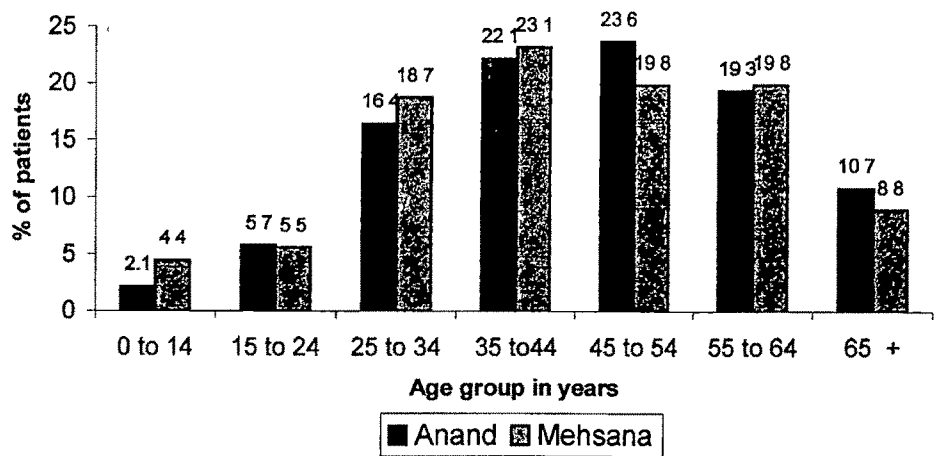
**Table 5.2.7**

**Age and Sex distribution of TB patients**

| Age group | Anand | | | Mehsana | | |
|---|---|---|---|---|---|---|
| | Male | Female | Total | Male | Female | Total |
| 0-14 | 3 | 0 | 3 | 2 | 2 | 4 |
| 15-24 | 5 | 3 | 8 | 2 | 3 | 5 |
| 25-34 | 10 | 13 | 23 | 12 | 5 | 17 |
| 35-44 | 20 | 11 | 31 | 16 | 5 | 21 |
| 45-54 | 18 | 15 | 33 | 12 | 6 | 18 |
| 55-64 | 22 | 5 | 27 | 10 | 8 | 18 |
| 65 + | 13 | 2 | 15 | 5 | 3 | 8 |
| Total | 91 | 49 | 140 | 59 | 32 | 91 |

**Table 5.2.8**

**Acceptance of diagnosis of TB by patients**

| Sr. No. | Response | Number of TB patients (%) | | |
|---|---|---|---|---|
| | | Anand (n=140) | Mehsana (n=91) | Total (n=231) |
| 1 | Spontaneous acceptance | 104 (74.3%) | 73 (80.2%) | 177 (76.6%) |
| 2 | Acceptance on probing | 12 (8.6%) | 9 (9.9%) | 21 (9.1%) |
| 3 | Denial on probing | 24 (17.1%) | 9 (9.9%) | 33 (14.3%) |
| 4 | Total | 140 (100%) | 91 (100%) | 231 (100%) |

**Table 5.2.9**

**Symptoms of TB experience by patients**

(What were the symptoms you had the time of diagnosis?)

| Sr. No. | Symptoms | % of TB patients | | |
|---|---|---|---|---|
| | | Anand (n=140) | Mehsana (n=91) | Total (n=231) |
| 1 | Cough | 97.9 | 92.3 | 95.7 |
| 2 | Fever | 95.7 | 87.9 | 92.6 |
| 3 | Weakness | 55.0 | 68.1 | 60.2 |
| 4 | Chest pain | 63.6 | 28.6 | 49.8 |
| 5 | Loss of appetite | 47.9 | 38.5 | 44.2 |
| 6 | Blood in sputum | 20.7 | 26.4 | 22.9 |
| 7 | Short of breath | 42.9 | 28.6 | 37.2 |

Note· Multiple responses

**Table 5.2.10**

**Knowledge of TB symptoms among patients**

(How one can recognize a person suffering from lung tuberculosis?)

| Sr. No. | Symptoms | % of TB patients | | |
|---|---|---|---|---|
| | | Anand (n=140) | Mehsana (n=91) | Total (n=231) |
| 1 | Cough | 91.4 | 89.0 | 90.5 |
| 2 | Fever | 43.6 | 37.4 | 41.1 |
| 3 | Weakness | 42.1 | 44.0 | 42.9 |
| 4 | Chest pain | 52.8 | 39.6 | 47.6 |
| 5 | Loss of appetite | 33.6 | 36.3 | 34.6 |
| 6 | Blood in sputum | 42.1 | 59.3 | 48.9 |
| 7 | Short of breath | 29.3 | 18.7 | 25.1 |
| 8 | Do not know | 7.1 | 11.0 | 8.7 |

Note: Multiple responses

## Table 5.2.11

### Help seeking behavior of TB patients
(To whom you had contacted when you develop the symptoms?)

| Sr. No. | Help sought | No. of TB patients seeking help (First contact to Physician) | | |
|---|---|---|---|---|
| | | Anand (n=140) | Mehsana (n=91) | Total (n=231) |
| 1 | Govt. facilities (*) | 35 (25.0%) | 26 (28.6%) | 61 (26.4%) |
| 2 | NGO TB Hospital | 10 (7.1%) | 9 (9.9%) | 19 (8.2%) |
| 3 | Private Physician | 93 (66.4%) | 55 (60.4%) | 148 (64.1%) |
| 4 | Self help | 2 (1.5%) | 1 (1.1%) | 3 (1.3%) |
| 5 | Total | 140 (100%) | 91 (100%) | 231 (100%) |
| (*) | $X^2 = 0.01$, Df = 1, P value = 0.939585 | | | |

## Table 5.2.12
### Diagnosis of TB suspected by physician in patients
(Who suspect that you are suffering from TB?)

| Sr. No. | Physician | No. of TB patients (%) | | |
|---|---|---|---|---|
| | | Anand (n=140) | Mehsana (n=91) | Total (n=231) |
| 1 | Govt. Physician (*) | 53 (37.9%) | 34 (37.4%) | 87 (37.7%) |
| 2 | NGO Physician | 35 (25.0%) | 18 (19.8%) | 53 (22.9%) |
| 3 | Private Physician | 52 (37.1%) | 39 (42.8%) | 91 (39.4%) |
| 4 | Total | 140 (100%) | 91 (100 %) | 231 (100%) |
| (*) | $x^2 = 0.01$, df = 1, P value= 0.939585 | | | |

**Table 5.2.13**

**Diagnostic laboratory test undergone by patients**

(What was the laboratory test done at the time of diagnosis?)

| Sr. No. | Laboratory test | No. of patients undergone for test (%) | | |
|---|---|---|---|---|
| | | Anand (n=140) | Mehsana (n=91) | Total (n=231) |
| 1 | X-Rays chest | 136 (97.1%) | 79 (86.8%) | 215 (93.1%) |
| 2 | **Sputum for AFB** | **95 (67.8%)** | **60 (65.9%)** | **155 (67.1%)** |
| 3 | E.S.R. | 19 (13.6%) | 19 (20.9%) | 38 (16.5%) |
| 4 | MT | 1 (0.7%) | 0 | 1 (0.4%) |
| 5 | Screening chest | 1 (0.7%) | 0 | 1 (0.4%) |
| 6 | Biopsy | 0 | 3 (3.3%) | 3 (1.3%) |
| 7 | Sonography | 0 | 1 (1.1%) | 1 (0.4%) |
| 8 | Urine test | 4 (2.6%) | 2 (2.2%) | 6 (2.6%) |

**Table 5.2.14**

**Sputum AFB examination in patients**

| Sr. No. | Sputum smear examination as per GOI | No. of patients reported (%) | | |
|---|---|---|---|---|
| | | Anand (n=95%) | Mehsana (n=60) | Total (n=155) |
| 1 | Yes | 17 (17.9%) | 37 (61.7%) | 54 (34.8%) |
| 2 | No | 78 (82.1%) | 23 (38.3%) | 101 (65.2%) |
| 3 | Total | 95 (100%) | 60 (100%) | 155 (100%) |
| $X^2 = 39.14$, df. = 1, P value 0.0000001 | | | | |

Note· Govt. of India (GOI) Three sample examination for diagnosis

## Table 5.2.15
### Place of treatment as reported by TB patients

| Sr. No. | Place of treatment | No. of TB patients received treatment | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Govt. facilities (*) | 54 (38.8%) | 40 (44.0%) | 94 (40.7%) |
| 2 | NGO TB Hospital | 64 (45.7%) | 20 (22.0%) | 84 (36.3%) |
| 3 | Private Hospital | 22 (15.7%) | 31 (34.0%) | 53 (33.0%) |
| 4 | Total | 140 (100%) | 91 (100%) | 231 (100%) |
| (*) $X^2 = 2.91$, df = 1, P value = 0.088185 | | | | |

## Total 5.2.16
### Drug regimens received by TB patients treated at govt. facilities

| Sr. No. | Drug regimen | No. of TB patients received treatment | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | RNTCP Regimen | 0 | 23 (57.5%) | 23 (25.8%) |
| 2 | NTP regimen | 46 (85.2%) | 13 (32.5%) | 23 (25.8%) |
| 3 | Other (Not recommended by GOI) | 7 (13%) | 1 (2.5%) | 8 (9.0%) |
| 4 | No records available | 1 (1.8%) | 3 (7.5%) | 4 (4.4%) |
| 5 | Total | 54 (100%) | 40 (100%) | 89 (100%) |

(Other regimen= 12 HTR, 2HERZ/10HE, 2HERZ/16HE, 2HERZ/6HR, 7HER, 3SHERZ/6HE(*)

## Total 5.2.17
### Drug regimens received by TB patients treated at NGO run TB Hospital

| Sr. No. | Drug regimen | No. of TB patients received treatment | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | RNTCP Regimen | 2 (3.1%) | 0 (0%) | 2 (2.4%) |
| 2 | NTP regimen | 37 (57.8%) | 5 (25%) | 42 (50%) |
| 3 | Other (Not recommended by GOI) | 25 (39.1%) | 9 (45%) | 34 (40.5%) |
| 4 | No records available | 0 (0%) | 6 (30%) | 6 (7.1%) |
| 5 | Total | 64 (100%) | 20 (100%) | 84 (100%) |

## Total 5.2.18
### Drug regimens received by TB patients treated at Private Hospital

| Sr. No. | Drug regimen | No. of TB patients received treatment | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | RNTCP Regimen | 0 | 0 | 0 |
| 2 | NTP regimen | 0 | 0 | 0 |
| 3 | Other (Not recommended by GOI) | 20 (90.9%) | 21 (67.7%) | 41 (77.4%) |
| 4 | No records available | 2 (9.1%) | 10 (32.3%) | 12 (22.6%) |
| 5 | Total | 22 (100%) | 31 (100%) | 53 (100%) |

**Table 5.2.19**

**Regularity of taking drug by patients**

| Sr. No. | District | Place of treatment | No. of TB patients | | |
|---|---|---|---|---|---|
| | | | Regular | Irregular (As & when symptoms) | Total |
| 1 | Anand | Govt. | 39 (72.2%) | 15 (27.8%) | 54 (100%) |
| | | NGO | 43 (67.2%) | 21 (32.8%) | 64 (100%) |
| | | Private | 15 (68.8%) | 7 (31.2%) | 22 (100%) |
| | | Total | 97 (69.3%) | 43 (30.7%) | 140 (100%) |
| 2 | Mehsana | Govt. | 35 (87.5%) | 5 (12.5%) | 40 (100%) |
| | | NGO | 15 (75%) | 5 (25%) | 20 (100%) |
| | | Private | 14 (45.1%) | 17 (54.9%) | 31 (100%) |
| | | Total | 64 (70.3%) | 27 (29.7%) | 91 (100%) |
| | Total | | 161 (69.7%) | 70 (30.3%) | 231 (100%) |

**Table 5.2.20**

**Side effect of drug observed by patient**

| Sr. No. | Side effect | No. of patient on treatment | | | | | |
|---|---|---|---|---|---|---|---|
| | | RNTCP (n=25) | SCC (n=46) | SR (n=55) | Other (n=83) | No record (n=22) | Total (n=231) |
| 1 | **Minor:** | | | | | | |
| | Epigastric upset | 2 | 4 | 7 | 9 | - | 22 |
| | Dry skin | 0 | 0 | 0 | 1 | - | 1 |
| | Metallic test | 1 | 0 | 0 | 0 | - | 1 |
| | Etching | 0 | 4 | 4 | 5 | - | 13 |
| | Total | 3 (12%) | 8 (17.4%) | 11 (20%) | 6 (7.3%) | - | 37 (16%) |
| 2 | **Major:** | | | | | | |
| | Hepatitis | 0 | 1 | 0 | 2 | - | 3 |
| | Purpura | 1 | 0 | 1 | 1 | - | 3 |
| | SJ syndrome | 0 | 0 | 1 | 0 | - | 1 |
| | Colour blindness | 0 | 1 | 0 | 3 | - | 3 |
| | Loss of hearing | 0 | 0 | 0 | 1 | - | 1 |
| | Total | 1 (4%) | 2 (4.3%) | 2 (3.6%) | 7 (8.3%) | - | 11 (4.7%) |

## Table 5.2.21
### Buying of drug from drug shops by patients

| Sr. No. | District | Place of treatment | No. of TB patients buy the anti TB drugs | | |
|---|---|---|---|---|---|
| | | | Yes | No | Total |
| 1 | Anand | Govt. | 7 (13.0%) | 47 (87.0%) | 54 (100%) |
| | | NGO | 25 (39.0%) | 39 (70.0%) | 64 (100%) |
| | | Private | 22 (100%) | 0 (0.0%) | 22 (100%) |
| | | Total | 54 (38.6%) | 86 (61.4%) | 140 (100%) |
| 2 | Mehsana | Govt. | 3 (7.5%) | 37 (92.5%) | 40 (100%) |
| | | NGO | 10 (50.0%) | 10 (50.0%) | 22 (100%) |
| | | Private | 31 (100%) | 0 (0.0%) | 31 (100%) |
| | | Total | 44 (48.4%) | 47 (51.6%) | 91 (100%) |
| | Total | | 98 (42.4%) | 133 (57.6%) | 231 (100%) |

## Table 5.2.22
### Money spent for the treatment of TB by patient

| Sr. No. | District | Place of treatment | Money spent in Rs. Per month by patient for TB treatment | | |
|---|---|---|---|---|---|
| | | | N | $\bar{X}$ | SD |
| 1 | Anand | Govt. | 7 | 528.57 | 328.95 |
| | | NGO | 25 | 154.6 | 90.93 |
| | | Private | 22 | 752.27 | 467.63 |
| | | Total | 54 | 446.57 | 427.24 |
| 2 | Mehsana | Govt. | 3 | 266.67 | 152.75 |
| | | NGO | 10 | 510.00 | 578.21 |
| | | Private | 31 | 635.48 | 498.69 |
| | | Total | 44 | 581.81 | 504.75 |

## Table 5.2.23
### Drugs taken in presence of DOTs provider in case of patient received RNTCP regimen

| Sr. No. | Drug taken in presence of Dot worker | No. Tb patient receiving RNTCP regimen | | |
|---------|--------------------------------------|----------------|----------------|----------------|
| | | Anand (n=2) | Mehsana (n=23) | Total (n=25) |
| 1 | Yes | 2 (100%) | 22 (95.7%) | 24 (96.0%) |
| 2 | No | 0 (0.0%) | 1 (4.3%) | 1 (4.0%) |
| 3 | Total | 2 (100%) | 23 (100%) | 25 (100%) |

## Table 5.2.24
### Categories of health personnel who provide the dots treatment

| Sr. No. | Dots provider | No. of TB patients received treatment in presence of Dots provider | | |
|---------|---------------|-------|---------|-------|
| | | Anand | Mehsana | Total |
| 1 | Health worker | 0 | 3 | 3 |
| 2 | ICDS worker | 0 | 1 | 1 |
| 3 | Pharmacist | 0 | 18 | 18 |
| 4 | NGO volunteer | 1 | 0 | 1 |
| 5 | Family member | 1 | 0 | 1 |
| 6 | Total | 2 | 22 | 24 |

**Table 5.2.25**
**Default occasion in taking treatment by TB patients**

| Sr. No. | District | Place of treatment | Patients reported that they missed the drug collection on given due date | |
|---|---|---|---|---|
| | | | Number | % |
| 1 | Anand | Govt. | 40/54 | 74.0 |
| | | NGO | 44/64 | 68.7 |
| | | Private | 17/22 | 72.3 |
| | | Total | 101/140 | 72.1 |
| 2 | Mehsana | Govt. | 24/40 | 60.0 |
| | | NGO | 14/20 | 70.0 |
| | | Private | 23/31 | 74.2 |
| | | Total | 61/91 | 67.0 |
| 3 | Total | | 162/231 | 70.1 |

**Table 5.2.26**
**Default Tb patients visited by health personnel for default retrieval**

| Sr. No. | District | Place of treatment | Patients confirm the visit of health personnel for default retrieval | |
|---|---|---|---|---|
| | | | Number | % |
| 1 | Anand | **Govt.** | **2/40** | **5.0** |
| | | NGO | 4/44 | 9.0 |
| | | Private | 0/17 | 0 |
| | | Total | 6/101 | 5.9 |
| 2 | Mehsana | **Govt.** | **11/24** | **45.8** |
| | | NGO | 0/14 | 0 |
| | | Private | 0/23 | 0 |
| | | Total | 11/61 | 18.0 |
| 3 | Total | | 17/162 | 10.5 |

**Table 5.2.27**

**Categories of health personnel visited to default patients**

| Sr. No. | District | Place of treatment | No. of patient reported the visit | | | | |
|---|---|---|---|---|---|---|---|
| | | | HW | MO | TBS | NGO Volunteer | Total |
| 1 | Anand | Govt. | 0 | 0 | 2 | 0 | 2 |
| | | NGO | 0 | 0 | 0 | 4 | 4 |
| | | Private | 0 | 0 | 0 | 0 | 0 |
| | | Total | 0 | 0 | 2 | 4 | 6 |
| 2 | Mehsana | Govt. | 6 | 1 | 4 | 0 | 11 |
| | | NGO | 0 | 0 | 0 | 0 | 0 |
| | | Private | 0 | 0 | 0 | 0 | 0 |
| | | Total | 6 | 1 | 4 | 0 | 11 |
| 3 | Total | | 6 | 1 | 6 | 4 | 17 |

**Table 5.2.28**

**Default retrieval latter received by TB patients from treating health institutions**

| Sr. No. | District | Place of treatment | Patients confirm the receipt of default retrieval latter | |
|---|---|---|---|---|
| | | | Number | % |
| 1 | Anand | Govt. | 4/36 | 11.1 |
| | | NGO | 1/44 | 2.3 |
| | | Private | 0/17 | 0 |
| | | Total | 5/101 | 4.5 |
| 2 | Mehsana | Govt. | 8/16 | 50.0 |
| | | NGO | 1/14 | 7.1 |
| | | Private | 0/23 | 0 |
| | | Total | 9/53 | 17.0 |
| 3 | Total | | 14/154 | 9.0 |

**Table 5.2.29**
**Knowledge of duration of treatment in TB patients**

| Sr. No. | District | Regimen | Knowledge of duration of treatment | | | | |
|---|---|---|---|---|---|---|---|
| | | | Know | Do not know | Till Dr. advice | Till symptom | Total |
| 1 | Anand | RNTCP | 1 | 0 | 1 | 0 | 2 |
| | | SCC | 1 | 1 | 26 | 12 | 40 |
| | | SR | 0 | 0 | 29 | 14 | 43 |
| | | Other | 1 | 1 | 31 | 19 | 52 |
| | | No record | 0 | 0 | 0 | 3 | 3 |
| | | Total | 3 | 2 | 87 | 48 | 140 |
| 2 | Mehsana | RNTCP | 12 | 1 | 9 | 1 | 23 |
| | | SCC | 2 | 0 | 3 | 1 | 6 |
| | | SR | 1 | 2 | 9 | 0 | 12 |
| | | Other | 2 | 1 | 22 | 6 | 31 |
| | | No record | 3 | 4 | 7 | 5 | 19 |
| | | Total | 20 | 8 | 50 | 13 | 91 |
| 3 | Total | | 23 | 10 | 137 | 61 | 231 |

**Table 5.2.30**

**Knowledge about the availability of facilities for diagnosis and treatment of TB in the district located nearer to house of patient**

| Sr. No. | Health institution | % of TB patient know the health facilities | | |
|---|---|---|---|---|
| | | Anand (n=140) | Mehsana (n=91) | Total (n=231) |
| 1 | PHC (correctly know) * | 7.1 | 44.0 | 21.6 |
| 2 | CHC | 19.3 | 3.3 | 13.0 |
| 3 | DTC | 53.6 | 33.0 | 47.8 |
| 4 | GH | 1.4 | 12.1 | 5.6 |
| 5 | NGO | 83.6 | 54.9 | 72.3 |
| 6 | ESIS | 0.7 | 0 | 1.3 |
| 7 | Medical college | 1.4 | 0 | 0.9 |
| 8 | TB Hospital | 12.8 | 0 | 7.8 |
| 9 | Private Hospital | 2.1 | 0 | 1.3 |
| 10 | Do not know | 5.7 | 11.0 | 7.8 |
| 11 | No response | 4.3 | 7.7 | 5.6 |

**Note: Multiple responses**
(*)   Statistically highly significant (P value = < 0. 000001)

### Table 5.2.31
### Cause of TB as perceived by patient

| Sr. No. | Cause | No. of patients responded | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Agate stone power | 5(3.6%) | 0(0.0%) | 5(2.2%) |
| 2 | Alcohol | 10(7.1%) | 5(5.5%) | 15(6.5%) |
| 3 | Food & water | 10(7.1%) | 3(3.3%) | 13(5.6%) |
| 4 | Infection (right cause) | 46(32.9%) | 55(60.4%) | 101(43.7%) |
| 5 | Smoking | 16(11.4%) | 11(12.1%) | 27(11.7%) |
| 6 | Punishment of God | 0 | 1(1.1%) | 1(0.4%) |
| 7 | Do not know | 53(37.9%) | 16(17.6%) | 69(29.9%) |
| 8 | Total | 140(100%) | 91(100%) | 231(100%) |

### Table 5.2.32
### Transmission of TB as perceived by patient

| Sr. No. | Response | No. of patients responded | | | | | |
|---|---|---|---|---|---|---|---|
| | | Anand | | Mehsana | | Total | |
| 1 | Contact (Food, water, utensil) | 33 | (23.6%) | 15 | (16.5%) | 48 | (20.8%) |
| 2 | Cough & sneeze | 65 | (46.4%) | 50 | (54.9%) | 115 | (49.8%) |
| 3 | Dot not spread | 35 | (25.0%) | 19 | (20.9%) | 54 | (23.4%) |
| 4 | Do not know | 6 | (4.3%) | 4 | (4.4%) | 10 | (4.3%) |
| 5 | No response | 0 | (0.0%) | 1 | (1.1%) | 1 | (0.4%) |
| 6 | Sex | 0 | (0,0%) | 2 | (2.2%) | 2 | (0.9%) |
| 7 | Other | 1 | (0.7%) | 0 | (0.0%) | 1 | (0.4%) |
| 8 | Total | 140 | (100%) | 91 | (100%) | 231 | (100%) |

### Table 5.2.33
### Commonest methods of disposal of sputum by patients

| Sr. No. | Mode of disposal | No. of patients responded | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Spitted in street | 102 (72.9%) | 42 (46.2%) | 144 (62.3%) |
| 2 | Collect in bowel &thrown in lavatory | 31 (22.1%) | 40 (44.0%) | 71 (30.7%) |
| 3 | Collected and burnt (Right approaches) | 4 (2.9%) | 5 (5.5%) | 9 (3.9%) |
| 4 | No response | 3 (2.1%) | 4 (4.4%) | 7 (3.1%) |
| 5 | Total | 140 (100%) | 91 (100%) | 231 (100%) |

## Chapter 5 – <u>Results Tables (TB Mortality)</u>

### Table 5.3.1

### Death registration in village Panchayat register

| Sr. No. | Death registration | No of death in year 1998 | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Yes | 376 (93.1%) | 197 (73.2%) | 573 (85.1%) |
| 2 | No | 28 (6.9%) | 72 (26.8%) | 100 (15.9%) |
| 3 | Total | 404 (100%) | 269 (100%) | 673 (100%) |

### Table 53.2

### Proportion of death attributed to TB

| Sr. No. | Cause of death | No of death in year 1998 | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | TB | 67 (16.6%) | 23 (8.6%) | 90 (13.4%) |
| 2 | Other | 337 (83.4%) | 246 (91.4%) | 583 (86.6%) |
| 3 | Total | 404 (100%) | 263 (100%) | 673 (100%) |
| $X^2 = 8.39$, df = 1, P value = 0.003781 | | | | |

**Table 5.3.3**
**Crude death rate & TB death rate**

| District | PHC | Village | Popu. as per census | Popu. Registered during surveys | Total death | | TB death | |
|---|---|---|---|---|---|---|---|---|
| | | | | | No. | CDR/ 1000 | No. | TB death/ lakh |
| Anand | Daol | Daol | 11652 | 7393 | 71 | 9.6 | 6 | 81 |
| | | Santokpura | 1733 | 1702 | 20 | 11.7 | 2 | 117 |
| | | Total | 13385 | 9095 | 91 | 10.0 | 8 | 88 |
| | Morad | Morad | 3561 | 3477 | 32 | 9.2 | 10 | 288 |
| | | Vishnoli | 2651 | 2646 | 26 | 9.8 | 6 | 227 |
| | | Total | 6212 | 6123 | 58 | 9.5 | 16 | 261 |
| | Undel | Undel | 9758 | 8587 | 71 | 8.3 | 9 | 105 |
| | | Shakerpur | 6938 | 6939 | 91 | 13.1 | 18 | 259 |
| | | Total | 16696 | 15526 | 162 | 10.4 | 27 | 174 |
| | Vera-khadi | Vera-khadi | 3241 | 3002 | 72 | 23.98 | 14 | 466 |
| | | Kherda | 1916 | 1891 | 21 | 11.1 | 2 | 106 |
| | | Total | 5157 | 4893 | 93 | 19.0 | 16 | 327 |
| | Total Anand | | 41450 | 35637 | 404 | 11.33 | 67 | 188 |
| Mehsana | Bhunav | Bhunav | 3968 | 3275 | 48 | 14.4 | 6 | 183 |
| | | Ranchodpura | 2990 | 2377 | 23 | 9.7 | 2 | 84 |
| | | Total | 6958 | 5652 | 71 | 12.6 | 8 | 141 |
| | Kherva | Kherva | 7560 | 7334 | 66 | 9.0 | 7 | 95 |
| | | Devrason | 2831 | 2847 | 37 | 13.0 | 3 | 105 |
| | | Total | 10391 | 10181 | 103 | 10.1 | 10 | 98 |
| | Kungher | Kungher | 5438 | 5497 | 44 | 8.0 | 2 | 36 |
| | | Saboson | 957 | 955 | 8 | 8.4 | 3 | 314 |
| | | Total | 6395 | 6452 | 52 | 8.1 | 5 | 78 |
| | Shankhe-shwer | Shankheshwer | 5700 | 7582 | 41 | 5.4 | 0 | 0 |
| | | Khadia | 399 | 349 | 2 | 5.7 | 0 | 0 |
| | | Total | 6099 | 7931 | 43 | 5.4 | 0 | 0 |
| | Total Mehsana | | 29843 | 30216 | 263 | 8.7 | 23 | 76 |

Figure 5.3.1



**Bar chart**
**Crude death rate&TB death**

Figure 5 3 2



**Bar chart - Anand**
**Crude death rate & TB death**

Figure 5.3.3

**Bar chart - Mehsana**
**Crude death rate& TB death**
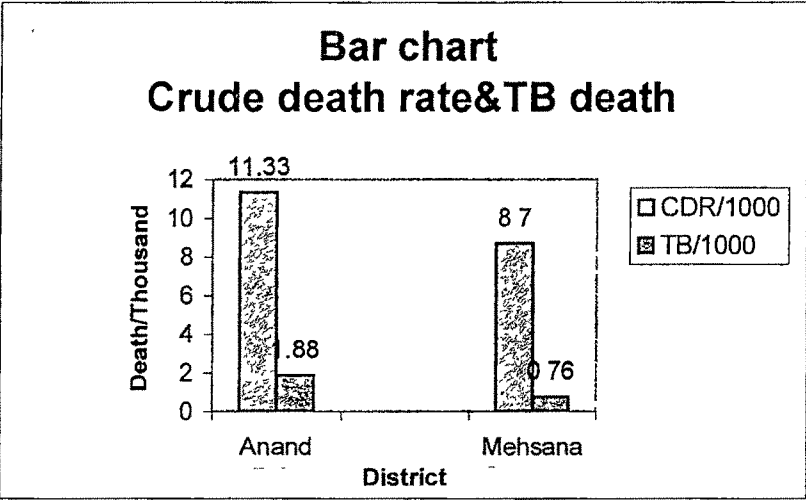


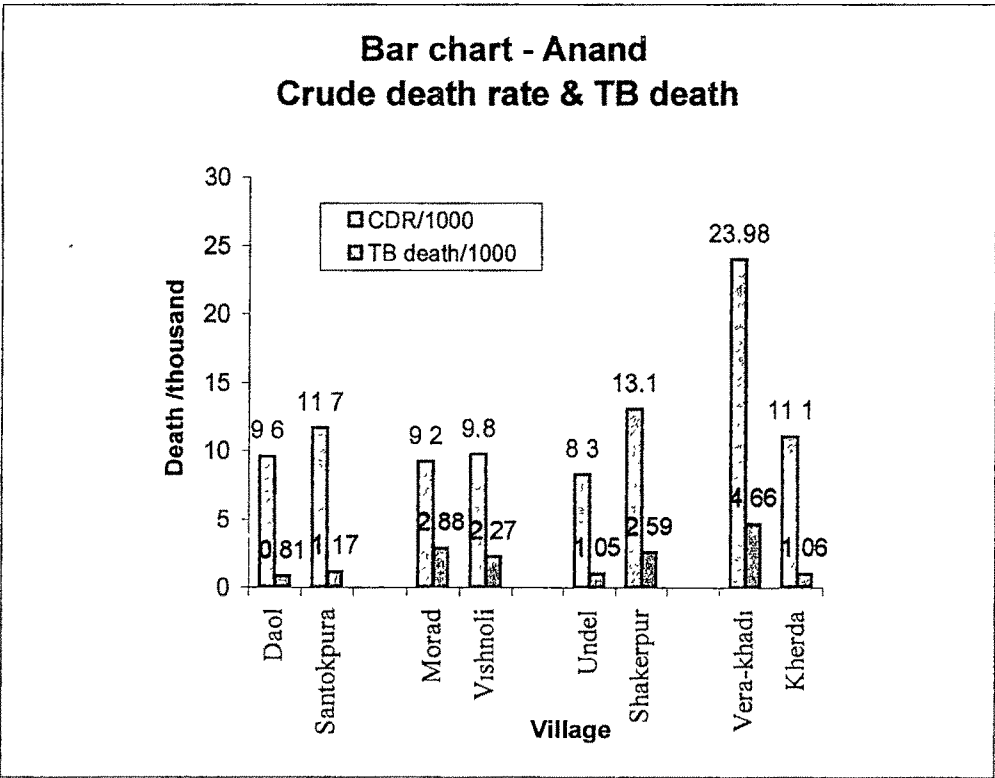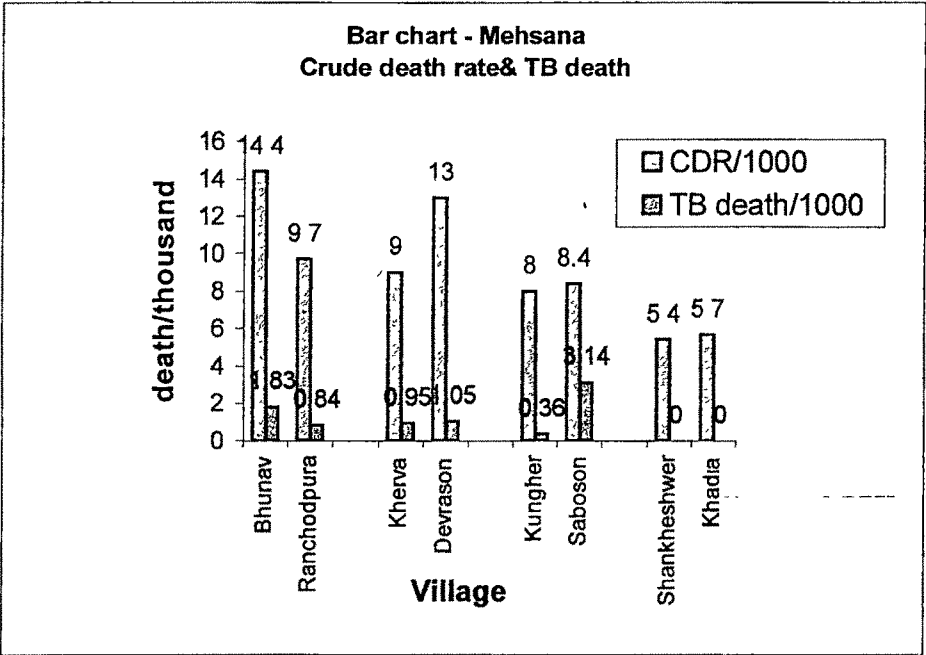**Figure 5.3.4**
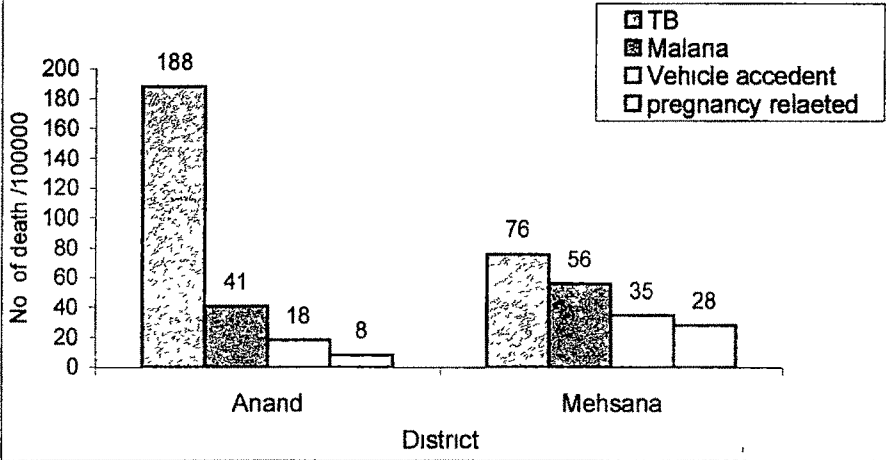**Deaths due to preventable cause**
**in selected village**

**Table 5.3.4**

**Place of death of TB patients**

| Sr. No. | Place of death | No of TB death registered in year 1998 at selected village | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Govt. Hospital | 2 (3.0%) | 1 (4.3) | 3 (3.3%) |
| 2 | NGO Hospital | 8 (11.9%) | 3 (13.0%) | 11 (12.2%) |
| 3 | Own house | 47 (70.1%) | 17 (73.9%) | 64 (71.1%) |
| 4 | Private Hospital | 10 (15.0%) | 2 (8.8%) | 12 (13.3%) |
| 5 | Total | 67 (100%) | 23 (100%) | 90 (100%) |

**Table 5.3.5**

**Place of treatment of TB patients**

| Sr. No. | Place of treatment | No of TB death registered in year 1998 at selected village | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Govt. Hospital | 20 (29.9%) | 7 (30.4%) | 27 (30.0%) |
| 2 | NGO Hospital | 37 (55.2%) | 6 (26.1%) | 43 (47.8%) |
| 3 | Private Hospital | 10 (14.9%) | 10 (43.5%) | 20 (22.2%) |
| 4 | Total | 67 (100%) | 23 (100%) | 90 (100%) |

**Table 5.3.6**
**Age specific death rate**

| Sr. No. | Age groups | Age specific death rate /1000 population in selected villages | | | | | |
|---|---|---|---|---|---|---|---|
| | | Anand | | | Mehsana | | |
| | | TB | Other | Total | TB | Other | Total |
| 1 | 0 to 10 | 0.11 | 2.51 | 2.62 | 0 | 3.23 | .2 |
| 2 | 11 to 20 | 1.15 | 0.25 | 1.4 | 0.45 | 1.20 | 1.65 |
| 3 | 21 to 30 | 2.55 | 3.35 | 5.9 | 0.94 | 4.32 | 5.26 |
| 4 | 31 to40 | 3.19 | 5.53 | 8.72 | 1.50 | 3.01 | 4.51 |
| 5 | 41 to 50 | 4.46 | 11.01 | 15.47 | 2.46 | 8.07 | 10.53 |
| 6 | 51 to 60 | 1.78 | 18.26 | 20.04 | 1.05 | 19.43 | 20.48 |
| 7 | 61 to 70 | 2.7 | 43.83 | 46.53 | 0 | 30.23 | 30.23 |
| 8 | 71 to 80 | 4.4 | 85.17 | 89.57 | 0 | 83.12 | 83.12 |
| 9 | 81 + | 0 | 217.39 | 217.39 | 0 | 130.0 | 130.0 |
| 10 | Total | 1.88 | 9.46 | 11.34 | 0.76 | 8.14 | 8.90 |

**Table 5.3.7**
**Sex and cause of death**

| Sr. No. | Sex | No of death registered in selected village | | | | | |
|---|---|---|---|---|---|---|---|
| | | Anand | | | Mehsana | | |
| | | TB | Other | Total | TB | Other | Total |
| 1 | Female | 16 (9.4%) | 154 (90.6%) | 170 (100%) | 6 (5.2%) | 109 (94.8%) | 115 (100%) |
| 2 | Male | 51 (21.8%) | 183 (78.2%) | 234 (100%) | 17 (11.0%) | 137 (89.0%) | 154 (100%) |
| 3 | Total | 67 (16.6%) | 337 (83.4%) | 404 (100%) | 23 (8.6%) | 246 (91.9%) | 269 (100%) |

Note  Mantel-Haenezel Chi squire value = 12.81 (P value- 0.0003454)

**Table 5.3.8**
**Other associated disease in TB patients who died**

| Sr. No. | Other associated cause | No of TB death registered in selected village | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | AIDS | 1 (1.5%) | 0 (0.0%) | 1 (1.1%) |
| 2 | Heart disease | 0 (0.0%) | 1 (4.3%) | 1 (1.1%) |
| 3 | Diabetes | 1 (1.5%) | 2 (8.7%) | 3 (3.3%) |
| 4 | Kidney disease | 1 (1.5%) | 1 (4.3%) | 2 (2.2%) |
| 5 | Silicosis | 16 (23.9%) | 0 (0.0%) | 16 (17.8%) |
| 6 | Nil | 48 (71.6%) | 19 (82.6%) | 67 (74.4%) |
| 7 | Total | 67 (100%) | 23 (100%) | 90 (100%) |

# Chapter 5 – Results Tables (K.A.P. M.O.)

## Table 5.4.1
## Training received for National TB Control Program reported by medical officers

| Sr. No | National TB Control Program Training | No. of medical officer reported | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=25) | Mehsana (n=14) | Total (n=39) |
| 1 | Yes | 4 (16.0%) | 12 (85.7%) | 16 (59.0%) |
| 2 | No | 21 (84.0%) | 2 (14.3%) | 23 (41.0%) |
| 3 | Total | 25 (100%) | 14 (100%) | 39 (100%) |

## Table 5.4.2

## Duration of TB training reported by medical officers

| Sr. No | Duration of TB training | No. of medical officer reported | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=4) | Mehsana (n=12) | Total (n=16) |
| 1 | 5 Days (Recommended as per GOI) | 0 (0.0%) | 11 (91.7%) | 11 (68.8%) |
| 2 | 2 Days | 4 (100%) | 1 (9.3%) | 5 (31.2%) |
| 3 | Total | 4 (100%) | 12 (100%) | 16 (100%) |

Table 5.4.3

Time lapse after training of National TB Control Program reported by
medical officers

| Sr. No | Time lapse in years after TB training | No. of medical officer reported | | |
|---|---|---|---|---|
| | | Anand (n=25) | Mehsana (n=14) | Total (n=39) |
| 1 | 0-3 years | 0 (0.0%) | 8 (66.7%) | 8 (50.0%) |
| 2 | 4-6 years | 0 (0.0%) | 4 (33.3%) | 4 (25.0%) |
| 3 | Above 6 years | 4 (100%) | 0 (0.0%) | 4 (25.0%) |
| 4 | Total | 4 (100%) | 12 (100%) | 16 (100%) |

Table 5.4.4
Priority to National TB Control Program reported by medical officers

| Sr. No | Priority to TB control program | No. of medical officer reported | | |
|---|---|---|---|---|
| | | Anand (n=25) | Mehsana (n=14) | Total (n=39) |
| 1 | Top priority (TB includes in 1-3 as per priority) | 7 (28.0%) | 6 (42.8%) | 13 (33.3%) |
| 2 | Average priority (TB includes in 4-6 as per priority | 13 (52.0%) | 6 (42.8%) | 19 (48.7%) |
| 3 | Last priority (TB includes in 7-9 as per priority) | 5 (20.0%) | 2 (14.4%) | 7 (18.0%) |
| 4 | Total | 25 (100%) | 14 (100%) | 39 (100%) |

**Table 5.4.5**
**Availability of National TB Control Program module as reported by medical officers**

| Sr. No | National TB Control Program Training module | No. of medical officer reported | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=25) | Mehsana (n=14) | Total (n=39) |
| 1 | Yes | 1 (4.0%) | 13 (92.9%) | 14 (35.9%) |
| 2 | No | 24 (96.0%) | 1 (7.1%) | 25 (64.1%) |
| 3 | Total | 25 (100%) | 14 (100%) | 39 (100%) |

**Table 5.4.6**
**Proportion of chest TB symptomatic patients of new OPD at their institution are examine for sputum AFB reported by medical officers**

| Sr. No | Proportion of chest TB symptomatic patients examined for sputum AFB | No. of medical officer reported | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=25) | Mehsana (n=14) | Total (n=39) |
| 1 | 0% | 12 (48.0%) | 0 (0.0%) | 12 (30.8%) |
| 2 | 1-25% | 12 (48.0%) | 5 (35.7%) | 17 (43.6%) |
| 3 | 26-50% | 0 (0.0%) | 4 (28.6%) | 4 (10.2%) |
| 4 | 51-75% | 0 (0.0%) | 1 (7.1%) | 1 (2.6%) |
| 5 | 76-100% | 1 (4.0%) | 4 (28.6%) | 5 (12.8%) |
| | Total | 25 (100%) | 14 (100%) | 39 (100%) |

**Table 5.4.7**

**Proportion of medical officer correctly knew the health institution where the diagnosis and treatment of TB facilities available in relation to TB training received**

| Sr. No | National TB Control Program Training | Proportion of medical officer correctly know the health institution where the diagnosis and treatment of TB facilities available in their district. | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Yes | 75% (3/4) | 66.7% (8/12) | 68.8% (11/16) |
| 2 | No | 42.8% (9/21) | 100% (2/2) | 47.8% (11/23) |
| 3 | Total | 57.1% (12/21) | 78.6% (10/14) | 56.4% (22/39) |

**Table 5.4.8**

**Proportion of medical officers who reported one or more visit of supervisor for TB program supervision in current year 1998**

| Sr. No. | Name of supervisor | Proportion of medical officers who reported one or more visit of supervisor for TB program supervision | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | State TB officer | 4% (1/25) | 35.7% (5/14) | 15.4% (6/39) |
| 2 | Chief district health officer | 40% (10/25) | 71.4% (10/14) | 51.3% (20/39) |
| 3 | District TB officer | 24% (6/25%) | 64.3% (9/14) | 38.5% (15/39) |
| 4 | Senior treatment supervisor | N.A. | 78.6% (11/14) | 78.6% (11/14) |
| 5 | Senior TB lab. supervisor | N.A. | 78.6% (11/14) | 78.6% (11/14) |

**Table 5.4.9**

**Proportion of medical officers who reported one or more visit of supervisor for TB program supervision in last 3 months (year 1998) at sub-center located at remote area**

| Sr. No. | Name of supervisor | Proportion of medical officers who reported one or more visit of supervisor for TB program supervision | | |
|---|---|---|---|---|
| | | Anand (n=25) | Mehsana (n=14) | Total (n=39) |
| 1 | Chief district health officer | 0.0% (0/25) | 0.0% (0/14) | 0.0% (0/39) |
| 2 | District TB officer | 0.0% (0/25) | 0.0% (0/14) | 0.0% (0/39) |
| 3 | Medical officer (TU) | 0.0% (0/25) | 7.1% (1/14) | 2.6% (1/39) |
| 4 | Medical officer | 32% (8/25) | 78.6% (11/14) | 48.7% (19/39) |
| 5 | Senior treatment supervisor | N.A. | 71.4% (10/14) | 71.4% (10/14) |
| 6 | Health supervisor (Male & Female) | 36% (9/25) | 71.4% (10/14) | 48.7% (19/39) |
| 7 | TB supervisor | 20% (5/25) | 71.4% (10/14) | 38.5% (15/39) |

**Table 5.4.10**

**Who prepare the monthly monitoring report of TB control program at primary health care institution as reported by medical officer**

| Sr. No | Para medical health personnel | No. of medical officer reported | | |
|---|---|---|---|---|
| | | Anand (n=25) | Mehsana (n=14) | Total (n=39) |
| 1 | Laboratory technician | 1 (4.0%) | 1 (7.1%) | 2 (5.1%) |
| 2 | Pharmacist | 20 (80.0%) | 9 (64.3%) | 29 (74.4%) |
| 3 | TB supervisor | 4 (16.0%) | 3 (21.4) | 7 (17.9%) |
| 4 | Medical officer | 0 (0.0%) | 1 (7.1%) | 1 (2.6%) |
| | Total | 25 (1005) | 14 (100%) | 39 (100%) |

Table 5.4.11

**Proportion of medical officer who report that they had received the feed back of monthly monitoring report with in 3 months of their submitted**

| Sr. No | Receive the feed back of monthly monitoring report | No. of medical officer reported | | |
|---|---|---|---|---|
| | | Anand (n=25) | Mehsana (n=14) | Total (n=39) |
| 1 | No | 23 (92.0%) | 0 (0.0%) | 23 (59.0%) |
| 2 | Yes | 2 (7.0%) | 13 (92.9%) | 15 (38.5%) |
| 3 | No response | 0 (0.0%) | 1 (7.1%) | 1 (2.5%) |
| 4 | Total | 25 (100%) | 14 (100%) | 39 (100%) |
| $X^2 = 27.30$, df = 1, P value = 0.000001 | | | | |

Table 5.4.12

**Proportion of medical officer who received TB training and correctly report the National TB regimen**

| Sr. No | National TB regime | No. of medical officer reported | | |
|---|---|---|---|---|
| | | Anand (n=4) | Mehsana (n=12) | Total (n=16) |
| 1 | RNTCP regimen | 2(50.0%) | 7(58.3%) | 9 (56.3%) |
| 2 | SCC regimen | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| 3 | SR regimen | 0(0.0%) | 0 (0.0%) | 0 (0.0%) |

**Table 5.4.13**
**Proportion of medical officer who did not received TB training and correctly report the National TB regimen**

| Sr. No | National TB regime | No. of medical officer reported | | |
|---|---|---|---|---|
| | | Anand (n=21) | Mehsana (n=2) | Total (n=23) |
| 1 | RNTCP regimen | 3  (14.3%) | 1  (50.0%) | 4  (17.4%) |
| 2 | SCC regimen | 0  (0.0%) | 0  (0.0%) | 0  (0.0%) |
| 3 | SR regimen | 0  (0.0%) | 0  (0.0%) | 0  (0.0%) |

**Table 5.4.14**
**Awareness of default TB patients at their own institute among the medical officer**

| Sr. No | Awareness of default TB patients | No. of medical officer reported | | |
|---|---|---|---|---|
| | | Anand (n=25) | Mehsana (n=14) | Total (n=39) |
| 1 | No | 14 (56.0%) | 5 (35.7%) | 19 (48.7%) |
| 2 | Yes | 11 (44.0%) | 9 (64.3%) | 20 (51.3%) |
| 3 | Total | 25 (100%) | 14 (100%) | 39 (100%) |

$X^2 = 1.48$, df = 1, P value = 0.224058

## Table 5.4.15
**Categories of health personnel visit the default TB patients at their own area reported by medical officer**

| Sr. No. | Name of health personnel visit the default TB patient | No. of medical officer reported | | |
|---|---|---|---|---|
| | | Anand (n=25) * | Mehsana (n=14) * | Total (n=39) * |
| 1 | Medical officer | 3 (12.0) | 11 (78.6%) | 14 (35.9%) |
| 2 | Health supervisor (Male) | 4 (16.0%) | 5 (35.7%) | 9 (23.1%) |
| 3 | Health supervisor (Female) | 5 (20.0%) | 5 (35.7%) | 10 (25.6%) |
| 4 | Senior treatment TB supervisor | N.A. | 13 (92.9%) | 13 (33.3%) |
| 5 | TB supervisor | 20 (80.0%) | 13 (92.9%) | 33 (84.6%) |
| 6 | Dots worker | N.A. | 13 (92.9%) | 13 (33.3%) |
| 7 | B.E.E. | 0 (0.0%) | 1 (7.1%) | 1 (2.6%) |

(*) Multiple responses

## Table 5.4.16
**Status of anti -TB drugs supply through-out the year as reported by medical officer**

| Sr. No. | Supply of anti-TB drugs | No. of medical officer reported | | |
|---|---|---|---|---|
| | | Anand (n=25) * | Mehsana (n=14) * | Total (n=39) * |
| 1 | Insufficient supply | 1 (4.0%) | 0 (0.0%) | 1 (2.6%) |
| 2 | No supply | 4 (16.0%) | 0 (0.0%) | 4 (10.3%) |
| 3 | Sufficient supply | 20 (80.0%) | 14 (100%) | 34 (85.2%) |
| 4 | Total | 25 (100%) | 14 (100%) | 39 (100%) |

# Chapter 5 – Results Tables (K.A.P. Para medical health personnel)

## Table 5.5.1

**Table showing various categories of Para-medical health personnel interviewed by survey team**

| Sr. No | Designation of health personnel | No. Of Para-medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Female health worker | 30 | 32 | 62 |
| 2 | Male health worker | 9 | 9 | 18 |
| 3 | Malaria worker | 0 | 10 | 10 |
| 4 | Male health supervisor | 2 | 2 | 4 |
| 5 | Female health supervisor/HV | 3 | 1 | 4 |
| 6 | Laboratory technician | 2 | 3 | 5 |
| 7 | B.E.E. | 2 | 4 | 6 |
| 8 | Pharmacist | 4 | 4 | 8 |
| 9 | Ophthalmic assistant | 0 | 1 | 1 |
| | Total | 52 | 66 | 118 |

## Table 5.5.2.

**Availability of TB control program module with Para-medical health personnel**

| Sr. No | Availability of TB control program module | No. Of Para-medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Yes | 0 (0.0%) | 51 (77.3%) | 51 (43.2%) |
| 2 | No | 49 (94.2%) | 9 (13.6%) | 58 (49.1%) |
| 3 | No response | 3 (5.8%) | 6 (9.1%) | 9 (7.7%) |
| 4 | Total | 52 (100%) | 66 (100%) | 118 (100%) |

$X^2 = 79.04$, df = 1, P value = 0.00000001

**Table 5.5.3**

**Priority to National TB Control Program as reported by Para medical health personnel**

| Sr. No | Top priority to TB control program | No. of Para medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Given | 11 (21.1%) | 39 (59.1%) | 50 (42.4%) |
| 2 | Not given | 41 (78.9%) | 27 (40.9%) | 68 (57.6%) |
| 3 | Total | 52 (100%) | 66 (100%) | 118 (100%) |

**Table 5.5.4**

**Concept of priority of TB Control Programme among trained and untrained paramedical health personnel**

| Sr. No | National TB Control Program Training | Proportion of Para-medical health personnel reported as priority with TB control program | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Untrained | 17.5% (7/40) | 42.9% (3/7) | 21.3% (10/47) |
| 2 | Trained | 33.3% (4/12) | 61.1% (36/59) | 56.3% (40/71) |
| 3 | Total | 21.1% (11/52) | 59.1% (39/66) | 42.4% (50/118) |

**Table 5.5.5**

**Training received for National TB Control Program reported by Para-medical health personnel**

| Sr. No | National TB Control Program Training | No. of Para-medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | No . | 40 (76.9%) | 7 (10.6%) | 47 (39.8%) |
| 2 | Yes | 12 (23.1%) | 59 (89.3%) | 71 (60.2%) |
| 3 | Total | 52 (100%) | 66 (100%) | 118 (100%) |
| $X^2 = 53.37$, df = 1, P value = 0.0000001 | | | | |

**Table 5.5.6**

**Time lapse after training of National TB Control Program reported by Para medical health personnel**

| Sr. No | Time lapse in years after TB training | No. of Para medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | 0-3 years | 6 (50 0%) | 42 (71 2%) | 48 (67.6%) |
| 2 | 4-6 years | 1 (8 3%) | 17 (28 8%) | 18 (25 3%) |
| 3 | Above 6 years | 5 (41.7%) | 0 (0 0%) | 5 (7 1%) |
| 4 | Total | 12 (100%) | 59 (100%) | 71 (100%) |

**Table 5.5.7**
**Duration of TB program training reported by Para-medical health personnel**

| Sr. No. | Categories of health personnel | Duration of training in days | No. of Para-medical health personnel reported | | |
|---|---|---|---|---|---|
| | | | Anand | Mehsana | Total |
| 1 | Health worker (MPHW+MPHS) | 1 | 7 | 34 | 41 |
| | | 2  (*) | 1 | 15 | 16 |
| 2 | Laboratory technician | 1 | 1 | 0 | 1 |
| | | 2 | 1 | 1 | 2 |
| | | 5 | 0 | 1 | 1 |
| | | 10  (*) | 0 | 1 | 1 |
| 3 | Pharmacist | 1 | 2 | 2 | 4 |
| | | 2  (*) | 0 | 2 | 2 |
| 4 | B.E.E. | 1 | 0 | 1 | 1 |
| | | 2  (*) | 0 | 2 | 2 |
| 5 | Total | | 12 | 59 | 71 |

Note – (*) recommended by GOI in program guidelines.

**Table 5.5.8**
**Awareness about the vaccine for prevention of TB among the Para-medical health personnel**

| Sr. No | Awareness about BCG vaccine | No. of Para-medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | No | 4 (7.7%) | 1 (1.5%) | 5 (4.2%) |
| 2 | Yes | 48 (92.3%) | 65 (98.5%) | 113 (95.8%) |
| 3 | Total | 52 (100%) | 66 (100%) | 118 (100%) |

**Table 5.5.9**

**Status of BCG training in Para-medical health personnel who are responsible for BCG vaccination in field (i. e. ANM, FHW, FHS, HV)**

| Sr. No | BCG Training | NO. of Para-medical health personnel responded | | |
| --- | --- | --- | --- | --- |
| | | Anand (n=33) | Mehsana (n=33) | Total (n=66) |
| 1 | No | 8 (24.2%) | 9 (27.2%) | 17 (25.7) |
| 2 | Yes | 25 (75.8%) | 22 (66.7%) | 47 (71.2%) |
| 3 | No response | 0 (0.0%) | 2 (6.1%) | 2 (3.1%) |
| 4 | Total | 33 (100%) | 33 (100%) | 66 (100%) |

**Table 5.5.10**

**Time lapse after BCG training reported by Para medical health personnel who are responsible for BCG vaccination in field (i. e. ANM, FHW, FHS, HV)**

| Sr. No | Time lapse in years after BCG training | No. of Para medical health personnel reported | | |
| --- | --- | --- | --- | --- |
| | | Anand | Mehsana | Total |
| 1 | 0-3 years | 1 (4.0%) | 8 (36.4%) | 9 (17.0%) |
| 2 | 4-6 years | 0 (0 0%) | 8 (36.4%) | 8 (19.1%) |
| 3 | Above 6 years | 24 (96%) | 6 (27.2%) | 30 (63.9%) |
| 4 | Total | 25 (100%) | 22 (100%) | 47 (100%) |

## Table 5.5.11

**Knowledge regarding age of child for BCG vaccination as reported by Para medical health personnel who are responsible for BCG vaccination in field (i. e. ANM, FHW, FHS, HV)**

| Sr. No | Knowledge regarding age of child for BCG vaccination | No. of Para medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Correctly known | 16 (48 5%) | 30 (90.9%) | 46 (69.7%) |
| 2 | Not known | 17 (51.5%) | 3 (9.1%) | 20 (30.3%) |
| 3 | Total | 33 (100%) | 33 (100%) | 66 (100%) |

## Table 5.5.12

**Knowledge regarding site of child for BCG vaccination as reported by Para medical health personnel who are responsible for BCG vaccination in field (i. e. ANM, FHW, FHS, HV)**

| Sr. No | Knowledge regarding site of child for BCG vaccination | No. of Para medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand | Mehsana | Total |
| 1 | Correctly known | 18 (54.5%) | 30 (90.9%) | 48 (72 7%) |
| 2 | Not known | 15 (45 5%) | 3 (9.1%) | 18 (27 3%) |
| 3 | Total | 33 (100%) | 33 (100%) | 66 (100%) |

**Table 5.5.13**

**Knowledge about the cardinal symptom of Tuberculosis as reported by Para medical health personnel**

| Sr. No. | Symptom | No. of Para-medical health personnel aware about symptom of TB (*) | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Cough | 45 (86.5%) | 58 (87.9%) | 103 (87.3%) |
| 2 | Loss of appetite | 34 (65.4%) | 58 (87.9%) | 92 (78.0%) |
| 3 | Loss of weight | 23 (44.2%) | 37 (56.1%) | 60 (50.8%) |
| 4 | Low grad fever | 45 (86.5%) | 59 (89.4%) | 104 (88.1%) |
| 5 | Blood in sputum | 17 (32.7%) | 34 (51.5%) | 51 (43.2%) |
| 6 | Pain in chest | 11 (21.2%) | 5 (7.6%) | 16 (13.6%) |
| 7 | Short of breath | 0 (0.0%) | 1 (1.5%) | 1 (0.8%) |

Note: -- (*) Multiple response

**Table 5.5.14**

**Knowledge about the method of diagnosis of Tuberculosis as reported Para-medical health personnel**

| Sr. No | Method of diagnosis | No. of Para-medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Sputum smear AFB microscopy | 38 (73.1%) | 54 (81.8%) | 92 (78.0%) |
| 2 | X-chest | 14 (26.9%) | 12 (18.2%) | 26 (22.0%) |
| 3 | Total | 52 (100%) | 66 (100%) | 118 (100%) |

**Table 5.5.15**

**Knowledge about the number of sputum sample to be examine for diagnosis and
follow-up of TB patient among the Para-medical health personnel**

| Sr. No | Knowledge | Proportion of Para-medical health personnel correctly know | | |
|--------|-----------|------------------|------------------|------------------|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Diagnosis (3 sample sputum) | 59.6% (31/52) | 89.4% (59/66) | 76.3% (90/118) |
| 2 | Follow-up (2 sample sputum) | 26.9% (14/52) | 90.9% (60/66) | 62.7% (74/118) |

**Table 5.5.16**

**Knowledge about correct place for diagnosis and treatment of TB patient among the
Para-medical health personnel**

| Sr. No | Knowledge | Proportion of Para-medical health personnel correctly know | | |
|--------|-----------|------------------|------------------|------------------|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Diagnosis | 42.3% (22/52) | 90.9% (60/66) | 69.5% (82/118) |
| 2 | Treatment | 28.8% (15/52) | 90.9% (60/66) | 63.6% (75/118) |

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**Table 5.5.17**

**Number of Para-medical health personnel, who made the reference of TB chest symptomatic patients for diagnosis of TB, during their field visit**

| Sr. No | Reference | No. of Para-medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Yes | 34 (65.4%) | 51 (77.3%) | 85 (72.0%) |
| 2 | No | 17 (32.7%) | 14 (21.2%) | 31 (26.3%) |
| 3 | No response | 1 (1.9%) | 1 (1.5%) | 2 (1.7%) |
| 3 | Total | 52 (100%) | 66 (100%) | 118 (100%) |

**Table 5.5.18**

**Place of reference of chest TB symptomatic patients by Para-medical health personnel during their field visit**

| Sr. No | Place of reference | No. of Para-medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=34) | Mehsana (n=51) | Total (n=85) |
| 1 | CHC | 8 (23.5%) | 3 (5.9%) | 11 (12.9%) |
| 2 | DTC and TB Clinic | 10 (29.4%) | 3 (5.9%) | 13 (15.3%) |
| 3 | NGO Hospital | 4 (11 8%) | 0 (0.0%) | 4 (4 8%) |
| 4 | PHC | 12 (35.3%) | 45 (88.2%) | 57 (67.0%) |
| 5 | Total | 34 (100%) | 51 (100%) | 85 (100%) |

**Table 5.5.19**

**Knowledge about the Dots and RNTCP regimen of TB treatment among the Para-medical health personnel**

| Sr. No | Particular | % Of Para-medical health personnel know correctly | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | What is Dots? | 11.5% (6/52) | 90.9% (60/66) | 55.9% (66/118) |
| 2 | No. of weekly doses given in RNTCP regimen (3 doses) | 19.2% (10/52) | 98.5% (64/66) | 63.6% (75/118) |
| 3 | Duration of treatment | | | |
| | Cat-1 | 34.6% (18/52) | 97.0% (64/66) | 69.5% (82/118) |
| | Cat-2 | 19.2% (10/52 | 90.9% (60/66) | 59.3% (70/118) |
| | Cat-3 | 17 3% (9/52) | 95 5% (63/66) | 61 0% (72/118) |

**Table 5.5.20**

**Who provide treatment to TB patients, reported by Para-medical health personnel?**

| Sr. No | Name of the person who provide the treatment | No. of Para-medical health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Pharmacist | 52 | 40 | 92 |
| 2 | Health worker | 1 | 54 | 55 |
| 3 | ICDS worker | 0 | 34 | 34 |
| 4 | ICDS helper | 0 | 6 | 6 |
| 5 | Trained Dai | 0 | 1 | 1 |
| 6 | Old TB patient | 0 | 7 | 7 |
| 7 | Community volunteer | 0 | 2 | 2 |
| 8 | NGOs | 2 | 2 | 4 |

Note: -- Multiple response

## Table 5.5.21
**One or more Supervisory visit for TB control program made by supervisory authority in previous 3 months as reported by Para-medical health personnel**

| Sr. No. | Designation of supervisor | % Of health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Health supervisor (Male) | 13.5% (7/52) | 28.8% (19/66) | 22.0% (26/118) |
| 2 | Health supervisor (Female) | 17.3% (9/52) | 31.8% (21/66) | 25.4% (30/118) |
| 3 | Senior treatment TB supervisor | 17.3% (9/52) | 86.4% (57/66) | 55.9% (66/118) |
| 4 | TB supervisor | 69.2% (36/52) | 77.3% (51/66) | 73.7% (87/118) |
| 5 | Medical officer | 26.9% (14/52) | 72.7% (48/66) | 52.5% (62/118) |
| 6 | District TB officer | 21.2% (11/52) | 28.8% (19/66) | 25.4% (30/118) |
| 7 | Chief district health officer | 1.9% (1/52) | 15.2% (10/66) | 9.3% (11/118) |

## Table 5.5.22
**One or more Supervisory visit for TB control program made by supervisory authority in previous 3 months and their visit includes the home visit of default TB patient as reported by Para-medical health personnel**

| Sr. No. | Designation of supervisor | % Of health personnel reported | | |
|---|---|---|---|---|
| | | Anand (n=52) | Mehsana (n=66) | Total (n=118) |
| 1 | Health supervisor (Male) | 57.1% (4/7) | 47.4% (9/19) | 50.0% (13/26) |
| 2 | Health supervisor (Female) | 55.5% (5/9) | 52.4% (11/21) | 53.3% (16/30) |
| 3 | Senior treatment TB supervisor | 77.7% (7/9) | 54.4% (31/57) | 57.6% (38/66) |
| 4 | TB supervisor | 41.7% (15/36) | 58.8% (30/51) | 52.9% (46/87) |
| 5 | Medical officer | 71.4% (10/14) | 58.3% (28/48) | 61.3% (38/62) |
| 6 | District TB officer | 72.7% (8/11) | 73.7% (14/19) | 73.3% (22/30) |
| 7 | Chief district health officer | 100% (1/1) | 80.0% (8/10) | 81.8% (9/11) |

# Chapter 5 – Results Tables (TB treatment cards)

Table 5.6.1
**Availability of TB patients treatment cards at selected districts**

| Sr. No. | Availability of TB Treatment cards | No. of TB patients | | Total |
|---|---|---|---|---|
| | | Anand | Mehsana | |
| 1 | Yes | 57 (60 6%) | 118 (100%) | 175 (82.5%) |
| 2 | No | 37 (39 4%) | 0 (0%) | 37 (17.5%) |
| 3 | Total | 94 (100%) | 118 (100%) | 212 (100%) |

Table No 5.6.2
**Sex distribution of TB patient's treatment cards**

| Sr. No. | Sex | No. of TB patients | | Total |
|---|---|---|---|---|
| | | Anand | Mehsana | |
| 1 | Female | 23 (40.4%) | 38 (32.2%) | 61 (34.9%) |
| 2 | Male | 34 (59 6%) | 80 (67 8%) | 114 (65.1%) |
| 3 | Total | 57 (100%) | 118 (100%) | 175 (100%) |

Table No 5.6.3
## TB patients treatment cards as per disease classification

| Sr. No. | Disease classification | No. of TB patients | | Total |
| --- | --- | --- | --- | --- |
| | | Anand | Mehsana | |
| 1 | Pulmonary (a) Smear AFB "POS." | 33(57.9%) | 81(68.6%) | 114(65.1%) |
| | (b) Smear AFB "NEG." | 22(38.6%) | 35(29.7%) | 57(32.6%) |
| 2 | Extra-pulmonary | 2(3.5%) | 2(1.7%) | 4(2.3%) |
| 3 | Total | 57(100%) | 118(100%) | 175(100%) |

Table No 5.6.4
## Sputum smear examination done in pulmonary TB patients as per treatment cards

| Sr. No. | Sputum AFB Smear exam. | No. of TB patients | | Total |
| --- | --- | --- | --- | --- |
| | | Anand | Mehsana | |
| 1 | Examined | 54 (98.2%) | 116 (100%) | 170 (99.4%) |
| 2 | Not examined | 1 (1.8%) | 0 (0.0%) | 1 (0.6%) |
| 3 | Total | 55 (100%) | 116 (100%) | 171 (100%) |

Table No 5.6.5

## Table showing the sputum AFB smear examination results as per TB treatment cards

| Sr. No. | Sputum AFB Smear exam. Results | No. of TB patients | | Total |
| --- | --- | --- | --- | --- |
| | | Anand | Mehsana | |
| 1 | Positive | 33 (61.1%) | 81 (69.8%) | 114 (67.0%) |
| 2 | Negative | 21 (38.9%) | 35 (30.2%) | 56 (33.0%) |
| 3 | Total | 54 (100%) | 116 (100%) | 170 (100%) |

Table No 5.6 6

## Table showing X- Rays Chest examination done in sputum smear AFB positive TB Patients

| Sr. No. | X-Rays Examination | No. of Smear AFB positive Pulmonary TB Pt. | | Total |
| --- | --- | --- | --- | --- |
| | | Anand | Mehsana | |
| 1 | Examined | 10 (30.3%) | 1 (1.2%) | 11 (9.6%) |
| 2 | Not examined | 23 (69.7%) | 78 (96 3) | 101 (88.6%) |
| 3 | Not recorded | 0 (0 0%) | 2 (2.5%) | 2 (1.8%) |
| 4 | Total | 33 (100%) | 81 (100%) | 114 (100%) |

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Table No 5.6.7

**Table showing X-Rays Chest examination done in sputum smear AFB Negative TB Patients**

| Sr. No. | X-Rays Examination | No. of smear AFB negative pulmonary TB Pt. | | Total |
|---|---|---|---|---|
| | | Anand | Mehsana | |
| 1 | Done Recorded Not recorded | 21 (100%) 0 (0%) | 34 (97.1%) 1 (2.9%) | 55 (98.2%) 1 (1.8%) |
| 2 | Not done | 0 (0%) | 0 (0%) | 0 (0%) |
| 3 | Total | 21 (100%) | 35 (100%) | 56 (100%) |

Table No 5.6.8

**Table showing Type of TB patients treated as per treatment cards At selected institutions**

| Sr. No. | Type of TB patients | No. Of TB Patients treated | | Total |
|---|---|---|---|---|
| | | Anand | Mehsana | |
| 1 | Failure | 0 (0%) | 1 (0.9%) | 1 (0.6%) |
| 2 | New | 47 (82.5%) | 79 (66.9%) | 126 (72%) |
| 3 | Relapse | 1 (1.8%) | 7 (5.9%) | 8 (4.6%) |
| 4 | T.A.D. | 7 (12.2%) | 30 (25.4%) | 37 (21.1%) |
| 5 | Transfer in | 2 (3 5%) | 0 (0%) | 2 (1.1%) |
| 6 | Other | 0 (0%) | 1 (0 9%) | 1 (0.6%) |
| 7 | Total | 57 (100%) | 118 (100%) | 175 (100%) |

Table No 5.6.9

**Place of treatment as per treatments cards**

| Sr. No. | Place of treatment | No. of Pulmonary TB Pt. | | Total (%) |
|---|---|---|---|---|
| | | Anand (%) | Mehsana (%) | |
| 1 | C.H.C. | 8 (14%) | 0 (0 0%) | 8 (4.6%) |
| 2 | Dot point | NA | 91 (77.1%) | 91 (52.0%) |
| 3 | D.T.C | 16 (28.1%) | 0 (0 0%) | 16 (9.1%) |
| 4 | N.G.O. | 1 (1.8%) | 0 (0 0%) | 1 (0 6%) |
| 5 | P.H.C. | 32 (56.1%) | 27 (22 9%) | 59 (33.7%) |
| 6 | Total | 57 (100%) | 118 (100%) | 175 (100%) |

### Table No 5.6.10
### Dot providers to the TB patients as per TB treatment cards at Mehsana

| Sr. No. | Dot worker | TB patients treated | |
| --- | --- | --- | --- |
| | | Number | % |
| 1 | Health worker | 39 | 33.1 |
| 2 | Pharmacists | 27 | 22.9 |
| 3 | Community volunteer | 52 | 44.0 |
| | Total | 118 | 100 |

Table No 5.6.11

**Community volunteer as a DOT providers to the TB patients as per TB treatment cards at Mehsana**

| Sr. No. | Community volunteers as a dots worker | TB patients treated | |
| --- | --- | --- | --- |
| | | Number | % |
| 1 | ICDS workers | 37 | 71.0 |
| 2 | Social workers | 5 | 9.6 |
| 3 | Teachers | 3 | 5.8 |
| 4 | Old TB pt. | 3 | 5.8 |
| 5 | Trained Dai | 2 | 3.8 |
| 6 | Old C.H.V | 2 | 3.8 |
| | Total | 52 | 100 |

## Table No 5.6.12

## Treatment regimens received by TB patients as per treatment cards

| Sr. No. | Type of Regimens | Number of TB patients Received treatment regimens | | Total |
|---|---|---|---|---|
| | | Anand | Mehsana | |
| 1 | **RNTCP** | | | |
| | CAT-1 | 0 (0.0%) | 44 (37.3%) | 44 (25.1%) |
| | CAT-2 | 2 (3.5%) | 38 (32.2%) | 40 (22.9%) |
| | CAT-3 | 0 (0.0%) | 36 (30.5% | 36 (20.6%) |
| 2 | **SCC** | | | |
| | R-a | 35 (61.4%) | 0 (0.0%) | 35 (20.0%) |
| | R-b | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| 3 | **SR** | | | |
| | R-1 | 15 (26.3%) | 0 (0.0%) | 15 (8.5%) |
| | R-2 | 5 (8.8%) | 0 (0.0%) | 5 (2.9%) |
| 4 | Total | 57 (100%) | 118 (100%) | 175 (100%) |

Table No 5.6.13

**Sputum smear follow-up activities done during course of treatment in TB patients as per treatment cards**

| Sr. No. | Sputum smear Follow-up Activities | Number of TB patients treated | | | | | |
|---|---|---|---|---|---|---|---|
| | | First follow-up | | Second follow-up | | Third follow-up | |
| | | Anand N=57 | Mehsana N=118 | Anand N=57 | Mehsana N=118 | Anand N=57 | Mehsana N=118 |
| 1 | Follow-up done at right time | 13 (22.8 %) | 65 55.1%) | 14 (24.6%) | 31 (26.3%) | 13 (22.8%) | 60 (50.8%) |
| 2 | Follow-up done late by <1 week | 8 (14.0%) | 16 (13.6%) | 0 (0.0%) | 10 (8.5%) | 2 (3.5%) | 8 (6.8%) |
| 3 | Follow-up done late by >1 weeks | 11 (19.3%) | 21 (17.8%) | 9 (15.8%) | 21 (17.8%) | 6 (10.5%) | 23 (19.5%) |
| 4 | Follow-up not done | 12 (21.1%) | 0 (0.0%) | 18 (31.6%) | 3 (2.5%) | 13 (22.8%) | 0 (0.0%) |
| | Total Follow-up due | 44 (77.2%) | 102 (86.4%) | 41 (71.9%) | 65 (55.1%) | 34 (59.6%) | 91 (77.1%) |

Table No 5.6.14

**Sputum smear conversion rate of pulmonary TB patients (smear AFB positive) as per treatment cards**

| Sr. No. | Type of TB patients | Sputum smear conversion rate (%) | | Total |
|---|---|---|---|---|
| | | Anand | Mehsana | |
| 1 | New sputum smear + | 65.5 % (19/29) | 79.1 % (34/43) | 73.6 % (53/72) |
| 2 | Relapse | 100 % (1/1) | 85.7 % (6/7) | 87.5 % (7/8) |
| 3 | Failure | NA | 0.0 % (0/1) | 0.0% (0/1) |

**Table 5.6.15**

**Treatment outcome of TB patients treated during year 1998 at selected PHC as per treatment cards review by study team.**

| Sr. No. | Type of patients | District | Treatment outcome | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Cure | Copt | Dead | Default | Failure | Migrate | Total |
| 1 | New SSP+ | Anand | 13 (44.8%) | 3 (10.3%) | 0 (0.0%) | 13 (44.8%) | 0 (0.0%) | 0 (0.0%) | 29 (100%) |
| | | Mehsana | 32 (74.5%) | 0 (0.0%) | 2 (4.6%) | 2 (4.6%) | 4 (9.3%) | 3 (7.0%) | 43 (100%) |
| 2 | Relapse | Anand | 1 (100%) | 0 | 0 | 0 | 0 | 0 | 1 (100%) |
| | | Mehsana | 3 (42.8%) | 0 | 2 (28.6%) | 0 | 2 (28.6%) | 0 | 7 (100%) |
| 3 | T.A.D. | Anand | 1 (33.3%) | 0 | 0 | 1 (33.3%) | 1 (33.3%) | 0 | 3 (100%) |
| | | Mehsana | 21 (72.4%) | 0 | 1 (100%) | 6 (20.6%) | 1 (3.5%) | 0 | 29 (100%) |
| 4 | Failure | Anand | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Mehsana | 0 | 0 | 1 (100%) | 0 | 0 | 0 | 1 (100%) |
| 5 | Other | Anand | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | Mehsana | 0 | 0 | 1 (100%) | 0 | 0 | 0 | 1 (100%) |
| 6 | Pul. SS Neg. | Anand | 0 | 15 (68.2%) | 0 | 7 (31.8%) | 0 | 0 | 22 (100%) |
| | | Mehsana | 0 | 28 (80 0%) | 3 (8.6%) | 4 (11.4%) | 0 | 0 | 35 (100%) |
| 7 | Extra Pul. | Anand | 0 | 0 | 0 | 2 (100%) | 0 | 0 | 2 (100%) |
| | | Mehsana | 0 | 1 (50%) | 0 | 1 (50 0%) | 0 | 0 | 2 (100%) |
| 8 | Total | | 71 (40 6%) | 47 (26.9%) | 10 (5 7%) | 36 (20.6%) | 8 (4 5%) | 3 (1.7%) | 175 (100%) |

# Table 5.6.16

## Summary of quarterly report submitted to state by the DTC year 1998

### (A) Case detection report –

| District (Population) In Lakh | Sputum Positive | | | | | Smear Negative | | Extra pulmonary | | Total | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | New case | | | Relapse | | | | | | | | |
| | M | F | Total | M | F | M | F | M | F | M | F | Total |
| Anand (18.42) | 505 | 155 | 660 | 19 | 11 | 283 | 159 | 26 | 31 | 833 | 356 | 1189 |
| Mehsana (15.98) | 371 | 159 | 530 | 72 | 16 | 271 | 140 | 26 | 27 | 740 | 342 | 1082 |

### (B) Sputum conversion rate

| District | Sputum conversion rate at the end of 3 months | | |
|---|---|---|---|
| | New sputum positive | Relapse | Failure |
| Anand | 50% (331/660) | N.A. | N.A. |
| Mehsana | 92.1% (488/530) | 69% (69/88) | 79.3% (23/29) |

### (C) Treatment out comes of New Smear Positive

| District | Total Pt. put on treatment | Total patient evaluated | Treatment out come (%) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Cure rate | Copt. rate | Death rate | Failure rate | Default rate | Transfer out rate |
| Anand | 660 | 494 (74 8%) | 32.4 | 34.4 | 3.6 | 1.2 | 24.1% | 3.6 |
| Mehsana | 530 | 530 (100%) | 84.0 | 0.0 | 3.5 | 4.0 | 7.0 | 1.5 |