

Annexures

- Annexure 1 Survey questionnaire
- Annexure 2 Laboratory reports
- Annexure 3 Provincial sampling frames
- Annexure 4 Provincial microscopy and culture results (all specimens)
- Annexure 5 Grading of bacteriology results (confirmed *M. tuberculosis* strains) by Province
- Annexure 6 Antituberculosis drug resistance by Province
- Annexure 7 HIV status of confirmed tuberculosis patients by gender, previous treatment and drug resistance: Provincial results

Annexure 1
Survey questionnaire



NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE

EASTERN CAPE

A. TB SUSPECT IDENTIFICATION

Hospital/Clinic/Register number

Surname _____ Name _____

District _____ Hospital/Clinic _____

Hospital/Clinic tel _____ Hospital/Clinic fax _____

Date of birth

Age yrs

ID

Race and sex

Town/village residing for the past six months _____

Has this person worked as a miner?
Previously Yes, when No

Currently Yes No

Has this person been in prison?
Previously Yes, when No

Currently Yes No

Sputum collection date

B. TREATMENT HISTORY FROM EXISTING MEDICAL RECORDS

(Check through all available documents to determine whether the TB suspect had been treated/registered before)

Previously treated Yes No

If yes, what was the outcome of the last course of treatment?

- Cured
- Treatment completed
- Treatment interrupted
- Treatment failed
- Transferred out

C. TREATMENT HISTORY GIVEN BY THE TB SUSPECT

(Ask the following questions to the TB suspect)

Have you been treated for TB before?

No Not sure

GO TO SECTION C1

Yes

GO TO SECTION C2

C1. How long have you been sick? weeks

Have you had the same symptoms in the past? Yes No

Have you had other symptoms of lung disease in the past? Yes No

Have you had chest x-rays in the past? Yes No

Have you had sputum tests in the past? Yes No

Have you taken medication for more than one month in the past? Yes No

Have you ever received injections for more than one month? Yes No

C2. Where were you treated? Hospital Clinic Workplace Home Other

When were you treated? ^{y y y y}

How long was the treatment? <1 month 1-2 months 3-4 months 4-6 months >6

How many courses of treatment did you receive? One Two >Two

D. Should this suspect be found to have TB, what treatment regimen will you use?

- Regimen I (new cases)
- Regimen II (retreatment cases)

Name of doctor/nurse _____ Signature _____

Date ^d ^d / ^m ^m / ^y ^y ^y ^y

- COLLECT THE SPUTUM SPECIMEN *BEFORE* ANY TB TREATMENT IS GIVEN
- PLEASE ENSURE THAT THE *COMPLETED* FORM ACCOMPANIES THE SPUTUM SPECIMEN TO THE LABORATORY

- THANK YOU -

Annexure 2
Laboratory reports



**The
Medical
Research
Council**

Tuberculosis Research Lead Programme Operational and Policy Research

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NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE

EASTERN CAPE

PRELIMINARY LABORATORY REPORT

| | | |
|--------------------------|--|------------|
| NAME | AGE | SEX |
| REFERRAL CLINIC | CLINIC NUMBER | |
| DISTRICT | LAB NUMBER | |
| DATE RECEIVED | DATE PROCESSED | |
| SPECIMEN TYPE | | |
| SPUTUM ASSESMENT | | |
| MICROSCOPY RESULT | | |
| CULTURE RESULT | | |
| FOLLOW-UP REPORT | Susceptibility and identification test results to follow | |

Report date:

Signed _____
Chief Specialist Scientist



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EASTERN CAPE

FINAL LABORATORY REPORT

NAME **AGE** **SEX**

REFERRAL CLINIC

CLINIC NUMBER

DISTRICT

LAB NUMBER

DATE RECEIVED

DATE PROCESSED

SPECIMEN TYPE

SPUTUM ASSESSMENT

MICROSCOPY RESULT

CULTURE RESULT

DIFFERENTIAL TEST RESULTS

Biological

Colony morphology

Growth rate

Pigmentation

Biochemical

Niacin production

Nitrate reduction

IDENTIFICATION

DRUG SUSCEPTIBILITY TEST RESULTS

Susceptible to Isoniazid

Susceptible to Streptomycin

Susceptible to Ethambutol

Susceptible to Rifampicin

Report date:

SIGNED _____
Chief Specialist Scientist

Annexure 3
Provincial sampling frames

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN THE EASTERN CAPE

SELECTED TREATMENT UNITS PER DISTRICT

| District | Facility | Patients | |
|------------------------|---|----------|--------|
| | | Required | Actual |
| Graaff Reinet | Lotusville Clinic | 5 | 10 |
| | Umasizakhe Clinic | 6 | 9 |
| Uitenhage | Laetitia Bam CHC | 28 | 23 |
| | Middle Street Clinic | 25 | 29 |
| | Uitenhage S1 Manbandla Satellite Clinic | 10 | 7 |
| Port Elizabeth | Chatty Clinic | 30 | 17 |
| | Gelvandale Clinic | 38 | 31 |
| | Khanya Satellite Clinic | 23 | 17 |
| | Kwadesi Clinic | 7 | 14 |
| | Missionvale Clinic | 15 | 11 |
| | Motherwell NU8 Clinic | 25 | 10 |
| | Soweto Clinic | 25 | 43 |
| | Tshangana Satellite Clinic | 23 | 15 |
| | West End CDC | 21 | 57 |
| | Zingisa Satellite Clinic | 25 | 49 |
| Humansdorp | Kruisfontein Clinic | 9 | 10 |
| Cradock | Hofmeyer Clinic | 2 | 3 |
| | Michausdal Clinic | 5 | 4 |
| Queenstown | Masakhe Clinic | 3 | 1 |
| | Sada CHC | 6 | 17 |
| Aliwal North | Umlamli Clinic | 8 | 7 |
| Fort Beaufort | Bedford Mzamomhle Clinic | 4 | 5 |
| | Thozamile Madakana Clinic | 23 | 12 |
| | Bezuidenhoutville Clinic | 8 | 13 |
| East London | Gompo A Ndende Clinic | 15 | 2 |
| | John Dube Clinic | 3 | 1 |
| | Pefferville Clinic | 27 | 39 |
| King William's Town | Dimbaza Clinic | 7 | 3 |
| | SS Gida Hospital | 18 | 14 |
| | Zwelitsha Zone 5 Clinic | 5 | 6 |
| Butterworth | Tafolofefe Hospital | 85 | 1667 |
| Umtata | Mjanyana | 30 | 22 |
| | Umtata Chest Hospital | 89 | 107 |
| Libode Health District | Iselimela Hospital | 18 | 10 |
| | St Barnabas Hospital | 47 | 47 |
| Qumbu Health District | Nessie Knight Hospital | 33 | 32 |
| Flagstaff | Greenville Hospital | 30 | 2 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN THE EASTERN CAPE
SELECTED TREATMENT UNITS PER DISTRICT

| District | Facility | Patients | |
|----------------|-------------------------|------------|-------------|
| | | Required | Actual |
| | St Elizabeth Hospital | 60 | 36 |
| | St Patrick Hospital | 21 | 58 |
| Mount Fletcher | Tayler Bequest Hospital | 31 | 34 |
| Mount Frere | Sipetu Hospital | 31 | 16 |
| | TOTAL | 924 | 1010 |

Annexure 3

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN THE FREE STATE

SELECTED TREATMENT UNITS PER DISTRICT

| District | Sub-District | Town | Treatment Facility | Patients | |
|--------------------------|-------------------|--------------|-------------------------------|----------|--------|
| | | | | Required | Actual |
| DC 16 (Xhariep) | FS 163 Mohakare | Zastron | Zastron Clinic | 10 | 1 |
| DC 17 (Motheo) | FS 172 Mangaung | Bloemfontein | Batho Clinic | 43 | 70 |
| | | | Thusong Clinic | 63 | 39 |
| | | | Mmabana Clinic | 48 | 13 |
| | | | Chris de Wet Clinic | 26 | 15 |
| | | | Opkoms Clinic | 44 | 85 |
| | | Botshabelo | Botshabelo B Clinic | 20 | 2 |
| | | | Botshabelo J Clinic | 21 | 28 |
| | | | Botshabelo U&W Clinic | 30 | 20 |
| | FS 173 Mantshopo | Thaba'Nchu | Mafane Clinic | 19 | 8 |
| | | | Gaongalelwe Clinic | 32 | 24 |
| DC 18 (Lejweleputswa) | FS 183 Tswelopele | Bultfontein | Phahameng Clinic | 21 | 21 |
| | FS 184 Matjhabeng | Virginia | Khotalong Clinic | 30 | 12 |
| | | Welkom | Welkom Town Clinic | 42 | 39 |
| | | | Bophelong Clinic | 27 | 8 |
| | | | Bronville Clinic | 27 | 16 |
| | | Odendaalsrus | Boithusong Clinic | 22 | 44 |
| | | | Pedisanang Clinic | 31 | 20 |
| | | Allanridge | Leratong Clinic | 11 | 3 |
| | FS Nala | Wesselsbron | Chief Albert Luthali Memorial | 28 | 64 |
| DC19 (Thabo Mfutsanyane) | FS Setsoto | Ficksburg | Masethabatso Clinic | 11 | 7 |
| | FS Dihlabeng | Bethlehem | Bethlehem Clinic | 23 | 13 |
| | FS Nketoana | Qwa Qwa | Pudikitjaba Clinic | 38 | 7 |
| | | | Namahali Clinic | 22 | 21 |
| | | | Makwane Clinic | 16 | 4 |
| | | | Tebang Clinic | 15 | 3 |
| | | | Makhalaneng Clinic | 12 | 4 |
| | | | Bolata Clinic | 13 | 2 |
| | | | Morakong Clinic | 16 | 21 |
| | | | Boiketlo Clinic | 18 | 2 |
| | | | Paballong Clinic | 15 | 4 |
| | | Harrismith | Lesedi Clinic | 12 | 7 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN THE FREE STATE

SELECTED TREATMENT UNITS PER DISTRICT

| District | Sub-District | Town | Treatment Facility | Patients | |
|-----------------------------|----------------|---------------|----------------------|------------|------------|
| | | | | Required | Actual |
| DC 20 (Northern Free State) | FS 201 Moqhaka | Kroonstad | Bophelong Clinic | 12 | 13 |
| | | | Thusanong Clinic | 12 | 11 |
| | | | Seeisoville Clinic | 18 | 32 |
| | | Viljoenskroon | Viljoenskroon Clinic | 8 | 13 |
| | | | Rammamulotsi Clinic | 19 | 20 |
| | FS 203 Ngwathe | Parys | Tumahole Clinic | 14 | 1 |
| | | Sasolburg | Zamdela Clinic | 19 | 30 |
| | | Sasolburg | Tsatsi Clinic | 12 | 14 |
| | | | TOTAL | 920 | 761 |

Annexure 3

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN THE FREE STATE

SELECTED TREATMENT UNITS PER DISTRICT

| District | Sub-District | Town | Treatment Facility | Patients | |
|--------------------------|-------------------|--------------|-------------------------------|----------|--------|
| | | | | Required | Actual |
| DC 16 (Xhariep) | FS 163 Mohakare | Zastron | Zastron Clinic | 10 | 1 |
| DC 17 (Motheo) | FS 172 Mangaung | Bloemfontein | Batho Clinic | 43 | 70 |
| | | | Thusong Clinic | 63 | 39 |
| | | | Mmabana Clinic | 48 | 13 |
| | | | Chris de Wet Clinic | 26 | 15 |
| | | | Opkoms Clinic | 44 | 85 |
| | | Botshabelo | Botshabelo B Clinic | 20 | 2 |
| | | | Botshabelo J Clinic | 21 | 28 |
| | | | Botshabelo U&W Clinic | 30 | 20 |
| | FS 173 Mantshopo | Thaba'Nchu | Mafane Clinic | 19 | 8 |
| | | | Gaongalelwe Clinic | 32 | 24 |
| DC 18 (Lejweleputswa) | FS 183 Tswelopele | Bultfontein | Phahameng Clinic | 21 | 21 |
| | FS 184 Matjhabeng | Virginia | Khotalong Clinic | 30 | 12 |
| | | Welkom | Welkom Town Clinic | 42 | 39 |
| | | | Bophelong Clinic | 27 | 8 |
| | | | Bronville Clinic | 27 | 16 |
| | | Odendaalsrus | Boithusong Clinic | 22 | 44 |
| | | | Pedisanang Clinic | 31 | 20 |
| | | Allanridge | Leratong Clinic | 11 | 3 |
| | FS Nala | Wesselsbron | Chief Albert Luthali Memorial | 28 | 64 |
| DC19 (Thabo Mfutsanyane) | FS Setsoto | Ficksburg | Masethabatso Clinic | 11 | 7 |
| | FS Dihlabeng | Bethlehem | Bethlehem Clinic | 23 | 13 |
| | FS Nketoana | Qwa Qwa | Pudikitjaba Clinic | 38 | 7 |
| | | | Namahali Clinic | 22 | 21 |
| | | | Makwane Clinic | 16 | 4 |
| | | | Tebang Clinic | 15 | 3 |
| | | | Makhalaneng Clinic | 12 | 4 |
| | | | Bolata Clinic | 13 | 2 |
| | | | Morakong Clinic | 16 | 21 |
| | | | Boiketlo Clinic | 18 | 2 |
| | | | Paballong Clinic | 15 | 4 |
| | | Harrismith | Lesedi Clinic | 12 | 7 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN THE FREE STATE

SELECTED TREATMENT UNITS PER DISTRICT

| District | Sub-District | Town | Treatment Facility | Patients | | |
|-----------------------------|----------------|---------------|----------------------|----------|------------|------------|
| | | | | Required | Actual | |
| DC 20 (Northern Free State) | FS 201 Moqhaka | Kroonstad | Bophelong Clinic | 12 | 13 | |
| | | | Thusanong Clinic | 12 | 11 | |
| | | Viljoenskroon | Seeisoville Clinic | 18 | 32 | |
| | | | Viljoenskroon Clinic | 8 | 13 | |
| | FS 203 Ngwathe | Parys | Rammamulotsi Clinic | 19 | 20 | |
| | | | Tumahole Clinic | 14 | 1 | |
| | | Sasolburg | Zamdela Clinic | 19 | 30 | |
| | | | Tsatsi Clinic | 12 | 14 | |
| | | TOTAL | | | 920 | 761 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN GAUTENG

SELECTED TREATMENT UNITS PER REGION

| Region | District | Facility | Patients | | |
|--------------|---------------|--------------------|---------------|--------|----|
| | | | Required | Actual | |
| West Rand | Krugersdorp | Kagiso B | 9 | 8 | |
| | | Lusaka | 5 | 2 | |
| | Carletonville | Carletonville East | 3 | 0 | |
| | | Carletonville Main | 5 | 2 | |
| | Randfontein | Mohlakeng | 5 | 5 | |
| | | Yarona | 4 | 6 | |
| | Westonaria | Bekkersdal West | 12 | 27 | |
| | | Westonaria | 3 | 0 | |
| East Rand | Alberton | Dresser | 12 | 8 | |
| | | Phenduka | 6 | 7 | |
| | Benoni | Daveyton Main | 11 | 9 | |
| | | Modderbee | 4 | 6 | |
| | Boksburg | Vosloosrus Poly | 10 | 28 | |
| | | Jabulane Dumane | 3 | 9 | |
| | Brakpan | Tsakane | 8 | 19 | |
| | | Rockville | 4 | 4 | |
| | Lethabong | Esangweni | 4 | 6 | |
| | Germiston | Germiston CHC | 16 | 22 | |
| | | KHCC | 9 | 4 | |
| | | KNC | 5 | 0 | |
| | | Khumalo | 4 | 9 | |
| | Kempton Park | Tembisa Main | 13 | 17 | |
| | Nigel | Duduza | 7 | 11 | |
| | Springs | White City | 7 | 8 | |
| | | Thembelisha | 6 | 7 | |
| | Heidelberg | Ratanda | 5 | 7 | |
| | Vaal | Eastern Vaal | Sharpeville | 15 | 27 |
| | | | Beverly Hills | 7 | 17 |
| Zone 7 | | | 12 | 27 | |
| Western Vaal | | Evaton | 13 | 9 | |
| | | Tlhokomelong | 6 | 7 | |
| | | Bophelong | 10 | 12 | |
| | | Zone 12 | 7 | 1 | |
| | | Sisulu | 7 | 15 | |
| | | Zone 14 | 12 | 9 | |
| Pretoria | Central | Atteridgeville | 13 | 10 | |
| | | Folang | 19 | 23 | |
| | | Gazankulu | 8 | 4 | |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN GAUTENG

SELECTED TREATMENT UNITS PER REGION

| Region | District | Facility | Patients | |
|--------------|----------|----------------------------------|----------|--------|
| | | | Required | Actual |
| | | Mamelodi West | 14 | 24 |
| | | Mamelodi East | 14 | 21 |
| | | Sammy Marks B | 15 | 7 |
| | Northern | Soshanguve 1 | 4 | 17 |
| | Southern | Lytelton | 7 | 6 |
| Central WITS | SMSS | Chiawelo | 13 | 14 |
| | | Kliptown | 9 | 9 |
| | | Tladi clinic | 16 | 7 |
| | | Shanty | 11 | 20 |
| | | Urban Chest | 32 | 24 |
| | | Zondi | 9 | 2 |
| | EMSS | 17 Esselen | 15 | 13 |
| | | 4 th Avenue Alexandra | 9 | 7 |
| | | East Bank | 9 | 20 |
| | | Berea | 6 | 3 |
| | | Jeppe | 10 | 10 |
| | NMSS | Diepkloof | 19 | 11 |
| | | Orlando East | 9 | 1 |
| | | Pimville | 10 | 15 |
| | | Westbury | 8 | 4 |
| | WMSS | Hinsbeeck | 11 | 20 |
| | | Rex Street | 6 | 2 |
| | | Discoverers | 5 | 2 |

**SELECTED TREATMENT UNITS PER DISTRICT
HOSPITALS**

| Region | District | Facility | Patients | |
|--------------|------------------|---------------------------------|------------|------------|
| | | | Required | Actual |
| West Rand | Krugersdorp | Leratong | 8 | 10 |
| West Rand | Kempton Park | Tembisa Hospital | 35 | 38 |
| | Germiston | Natalspruit Hospital | 34 | 16 |
| Vaal | Western Vaal | Sebokeng Hospital | 29 | 56 |
| Pretoria | Pretoria Central | Pretoria Academic Hospital | 27 | 5 |
| Central WITS | EMSS | Johannesburg Hospital | 68 | 22 |
| | SMSS | Chris Hani Baragwanath Hospital | 149 | 118 |
| | TOTAL | | 920 | 916 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN KWAZULU-NATAL

SELECTED TREATMENT UNITS PER DISTRICT

| District | Facility | Patients | |
|----------------------|-----------------------------------|-------------------|-------------|
| | | Required | Actual |
| Durban | Durban Chest Clinic | 116 | 164 |
| | Umlazi Chest Clinic | 118 | 470 |
| | Kwa Mashu/Rydalvale Clinics | 19 | 0 |
| | Rydalvale Clinic | 19 | 0 |
| | Montobello Hospital | 21 | 20 |
| | Stanger Hospital | 22 | 33 |
| | Maphumulo Hospital | 15 | 0 |
| | Kwadebeka Clinic | 14 | 47 |
| | Pinetown/Shallcross | 5 | 3 |
| | Queensburgh Cliic | 6 | 0 |
| | Mpumalanga Clinic | 45 | 41 |
| | Don MacKenzie SANTA Centre | 10 | 0 |
| | Pietermaritzburg | Edenvale Hospital | 80 |
| Greys Hospital | | 15 | 7 |
| Church Street Clinic | | 44 | 85 |
| Empangeni | Eshowe | 19 | 20 |
| | Hlabisa Hospital | 23 | 35 |
| | Ngwelezane Hospital | 66 | 65 |
| Port Shepstone | Port Shepstone Hospital | 39 | 41 |
| | Murchison Hospital | 38 | 11 |
| Ulundi | Benedictine Hospital | 70 | 19 |
| Newcastle | Madadeni Hospital | 24 | 10 |
| | Charles Johnson Memorial Hospital | 10 | 10 |
| | Church of Scotland Hospital | 10 | 9 |
| Ladysmith | Ladysmith Hospital | 20 | 21 |
| | Emmaus Hospital | 14 | 1 |
| Jozini | Bethesda Hospital | 12 | 6 |
| | Mossveld Hospital | 15 | 5 |
| | Mseleni Hospital | 6 | 7 |
| | TOTAL | 915 | 1149 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN LIMPOPO PROVINCE

SELECTED TREATMENT UNITS PER DISTRICT

| Region | Treatment Facility | Patients | |
|-----------------|------------------------------------|------------|------------|
| | | Required | Actual |
| Bushveld | Warmbath Hospital | 17 | 24 |
| | Ellisras Hospital | 32 | 31 |
| | Amandelbult Hospital | 36 | 19 |
| Western Region | George Masebe Hospital | 38 | 61 |
| | Makopane Hospital | 44 | 10 |
| | Voortrekker Hospital | 35 | 12 |
| Central Region | Mankweng Hospital | 23 | 24 |
| | Pietersburg Hospital | 94 | 9 |
| | Helen Franz Hospital | 11 | 15 |
| | Buitestreet Clinic | 32 | 16 |
| | Phuti Clinic | 7 | 2 |
| Northern Region | Tshilidzini Clinic | 53 | 6 |
| | Elim Hospital | 51 | 3 |
| | Siloam Hospital | 32 | 4 |
| | Messina Hospital/Nancefield Clinic | 68 | 7 |
| Lowveld Region | CN Phatudi Hospital | 17 | 48 |
| | Kgapane Hospital | 24 | 3 |
| | Nkhesani Hospital | 55 | 9 |
| | Sekororo Hospital | 28 | 25 |
| Southern Region | HC Boshoff Hospital | 19 | 39 |
| | Dr MM Hospital | 45 | 39 |
| | Jane Furse Hospital | 36 | 44 |
| | Matlala Hospital | 26 | 12 |
| Bushbuckridge | Mapulaneng Hospital | 51 | 103 |
| | Tintswalo Hospital | 47 | 61 |
| | TOTAL | 921 | 626 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN MPUMALANGA

SELECTED TREATMENT UNITS PER DISTRICT

| District | Treatment Facility | Patients | |
|----------------|------------------------------|----------|--------|
| | | Required | Actual |
| Nelspruit | Eziwenu Clinic | 18 | 4 |
| | Msogwaba Clinic | 10 | 4 |
| Sabie | Matibidi Hospital | 8 | 14 |
| Kabokweni | Themba Hospital | 120 | 155 |
| | Gutshwa Clinic | 10 | 9 |
| | Legogote Clinic | 10 | 3 |
| | Mthimba Clinic | 4 | 7 |
| Shongwe | White River Municipal Clinic | 5 | 4 |
| | Shongwe Hospital | 55 | 75 |
| | Sikhwahlane Clinic | 2 | 1 |
| Tonga | Block B Clinic | 8 | 7 |
| | Naas CHC | 13 | 2 |
| Barberton | Emjindini (M'Africa) CHC | 23 | 21 |
| | Barberton SANTA Centre | 62 | 109 |
| Eerstehoek | Embuleni Hospital | 40 | 33 |
| | Tjakastad Clinic | 11 | 3 |
| Piet Retief | Piet Retief Hospital | 34 | 11 |
| | Ethandakukhanya Mun Clinic | 8 | 6 |
| Ermelo | Sesifuba Hospital OPD | 36 | 93 |
| | Sesifuba Hospital | 55 | 31 |
| | Kwazanele Mun Clinic | 2 | 2 |
| Volksrust | Volksrust Town Clinic | 14 | 18 |
| | Wakkerstroom Mun Clinic | 4 | 5 |
| Standerton | Sakhile Mun Clinic | 38 | 15 |
| | Msimango Mun Clinic | 24 | 10 |
| | WF Te Water SANTA Centre | 46 | 73 |
| Bethal | Emzinoni Mun Clinic | 11 | 14 |
| | Matla Mine Clinic | 6 | 4 |
| Highveld Ridge | Lebohang CHC | 19 | 5 |
| | Langverwacht Clinic | 25 | 12 |
| | Evander Gold Mines | 33 | 32 |
| Mmamethlake | Vaalbank Clinic | 2 | 1 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN MPUMALANGA

SELECTED TREATMENT UNITS PER DISTRICT

| District | Treatment Facility | Patients | |
|------------|-------------------------|------------|------------|
| | | Required | Actual |
| | Marapyane Health Centre | 2 | 0 |
| Lydenburg | Burgersfort Clinic | 13 | 14 |
| | Siyathuthuka Clinic | 4 | 8 |
| Middelburg | Middelburg Centre | 6 | 8 |
| | Parkhome Clinic | 5 | 6 |
| Witbank | Phola CHC | 10 | 11 |
| | Lynville Mun Mobile | 45 | 24 |
| | HJE Schulz SANTA Centre | 67 | 124 |
| Kwamhlanga | Kwaggafontein A CHC | 7 | 4 |
| | Gemsbokspruit Clinic | 3 | 6 |
| | TOTAL | 918 | 988 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN NORTH WEST

SELECTED TREATMENT UNITS PER DISTRICT

| District | Facility | Patients | |
|---------------|------------------------------|----------|--------|
| | | Required | Actual |
| Brits | Lethlabile Clinic | 2 | 3 |
| | Bapong Clinic | 3 | 3 |
| | Oukasie | 2 | 1 |
| Delareyville | Gelukspan Hospital | 48 | 42 |
| | Delareyville Clinic | 5 | 0 |
| Ganyesa | Ganyesa Hospital | 26 | 26 |
| | Piet Plessis Hospital | 6 | 3 |
| | Ganyera HC | 4 | 0 |
| | Tlakgameng | 3 | 0 |
| Klerksdorp | Duff Scott Hospital | 33 | 38 |
| | Grace Mokgomo Clinic | 18 | 18 |
| | Botshabelo Clinic | 7 | 10 |
| | Tshepong Hospital | 19 | 29 |
| Kudumane | Tswaragano Hospital | 49 | 24 |
| | Maruping Clinic | 1 | 2 |
| Lichtenburg | Thusong Hospital | 29 | 5 |
| | Bodibe Clinic | 3 | 2 |
| | Polyclinic (Dorpstraat) | 4 | 1 |
| Mafikeng | Montshio Town Clinic | 2 | 3 |
| | Mafikeng Provincial Hospital | 80 | 42 |
| Mogwase | Moreteletse Hospital | 13 | 33 |
| | George Stegmann Hospital | 46 | 56 |
| Moretele | Moretele Hospital | 41 | 28 |
| | Ramotse Clinic | 2 | 2 |
| Odi | Maboloka Clinic | 8 | 5 |
| | Odi Hospital | 15 | 8 |
| | Ikhutseng | 4 | 2 |
| | Boekenhout | 6 | 2 |
| | Kgabo | 8 | 1 |
| Potchefstroom | Boiki Thlapi Clinic | 14 | 13 |
| | Promosa Clinic | 3 | 2 |
| | Lesego Clinic | 8 | 5 |
| | Top City Clinic | 8 | 8 |
| Rustenburg | Tlhabane Clinic | 10 | 12 |
| | RPH | 65 | 88 |
| | Impala Clinic | 35 | 42 |
| | Andrew Saffy Clinic | 13 | 21 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN NORTH WEST
SELECTED TREATMENT UNITS PER DISTRICT

| District | Facility | Patients | |
|--------------------|--|------------|------------|
| | | Required | Actual |
| | Classic | 35 | 57 |
| | RPM | 22 | 47 |
| Schweizer-Reynecke | SR Ipelegeng Clinic | 11 | 15 |
| | Bloemhof Boitumelong Clinic | 9 | 9 |
| | Bloemhof Town Clinic | 6 | 2 |
| | Bloemhof Coverdale Clinic | 4 | 4 |
| Taung | Taung Hospital | 74 | 44 |
| | Dryharts Clinic | 2 | 1 |
| | Reivilo HC | 4 | 7 |
| Ventersdorp | Doornkop Clinic | 1 | 2 |
| | JB Marks Clinic | 6 | 9 |
| Vryburg | Huhudi Health Centre | 19 | 15 |
| | Colridge Clinic | 5 | 10 |
| | Gateway Clinic | 4 | 2 |
| Wolmaransstad | Leeudoringstad Community Health Centre | 7 | 8 |
| | Letsopa Clinic | 11 | 1 |
| | Tswelelang I | 7 | 8 |
| | Tswelelang II | 8 | 3 |
| | Makwassie | 8 | 5 |
| Zeerust | Zeerust Hospital | 16 | 33 |
| | Lehuruthse Hospital | 16 | 14 |
| | TOTAL | 918 | 876 |

NATIONAL SURVEY OF TUBERCULOSIS DRUG RESISTANCE IN THE WESTERN CAPE

SELECTED TREATMENT UNITS PER DISTRICT

| Region | District | Facility | Patients | |
|----------------------|------------------------|------------------------|------------|------------|
| | | | Required | Actual |
| Boland/Overberg | Bredasdorp/Swellendam | Railton Clinic | 15 | 2 |
| | Caledon/Hermanus | Grabouw CHC | 33 | 38 |
| | Ceres/Tulbach | Bella Vista Clinic | 21 | 25 |
| | Worcester/Robertson | Maria Pieterse Clinic | 61 | 121 |
| | | Touws River Clinic | 18 | 6 |
| | | Zweletemba Clinic | 17 | 17 |
| Cape Metropole | Athlone | Hanover Park Clinic | 28 | 17 |
| | Blaauwberg | Table View Clinic | 21 | 24 |
| | Cape Town Central | Chapel Street Clinic | 61 | 58 |
| | Helderberg | Ikwezi Clinic | 19 | 9 |
| | Khayelitsha | Nolungile Clinic | 61 | 24 |
| | Mitchells Plain | Eastridge Clinic | 27 | 8 |
| | Nyanga | Nyanga Clinic | 65 | 82 |
| | Oosterberg | Wallacedene Clinic | 41 | 11 |
| | South Peninsula | Ocean View CHC | 13 | 11 |
| | | Retreat Clinic | 15 | 14 |
| | | Tygerberg/Eastern | Delf CHC | 36 |
| | Tygerberg/Western | Adriaanse Clinic | 22 | 23 |
| Southern Cape/Karoo | Central Karoo | Newtown Clinic | 26 | 39 |
| | George | Conville CHC | 23 | 18 |
| | | Thembaletu Clinic | 30 | 53 |
| | Klein Karoo | Bridgeton Clinic | 45 | 46 |
| | Knysna/Plettenberg Bay | Hornlee Clinic | 32 | 26 |
| | Mossel Bay/Langeberg | D'almeida | 27 | 51 |
| West Coast/Winelands | Malmesbury | Piketberg Mun Clinic | 12 | 11 |
| | Paarl | JJ du Preez Clinic | 47 | 8 |
| | | Mbekweni Clinic | 36 | 7 |
| | | Windmeul Sat Clinic | 14 | 4 |
| | Stellenbosch | Kayamandi Clinic | 21 | 19 |
| | Vredenburg | Diazville Clinic | 17 | 7 |
| | Vredendal | Vredendal North Clinic | 17 | 5 |
| | | TOTAL | 921 | 800 |

Annexure 4
Provincial microscopy and culture results (all specimens)

**Table 5. Microscopy and culture results (all specimens)
National survey of tuberculosis drug resistance in the Eastern Cape, 2001 – 2002**

| Microscopy | n | % |
|-----------------------------------|-------------|--------------|
| Negative | 1856 | 67.2 |
| Positive | 894 | 32.4 |
| Not done | 10 | 0.4 |
| Total | 2760 | 100.0 |
| Culture | | |
| Culture | n | % |
| Negative | 1515 | 54.9 |
| <i>Mycobacterium tuberculosis</i> | 789 | 28.6 |
| Nontuberculous mycobacteria | 3 | 0.1 |
| Identification not possible | 215 | 7.8 |
| Contaminated | 238 | 8.6 |
| Total | 2760 | 100.0 |

**Table 5. Microscopy and culture results (all specimens)
National survey of tuberculosis drug resistance in the Free State, 2001 – 2002**

| Microscopy | n | % |
|-----------------------------------|-------------|--------------|
| Negative | 2258 | 76.6 |
| Positive | 663 | 22.5 |
| Not done | 27 | 0.9 |
| Total | 2948 | 100.0 |
| Culture | | |
| Culture | n | % |
| Negative | 1780 | 60.4 |
| <i>Mycobacterium tuberculosis</i> | 628 | 21.3 |
| Nontuberculous mycobacteria | 9 | 0.3 |
| Identification not possible | 119 | 4.0 |
| Contaminated | 412 | 14.0 |
| Total | 2948 | 100.0 |

**Table 5. Microscopy and culture results (all specimens)
National survey of tuberculosis drug resistance in Gauteng, 2001 – 2002**

| Microscopy | n | % |
|-----------------------------------|-------------|--------------|
| Negative | 2360 | 75.8 |
| Positive | 735 | 23.6 |
| Not done | 19 | 0.6 |
| Total | 3114 | 100.0 |
| Culture | | |
| Culture | n | % |
| Negative | 1901 | 61.0 |
| <i>Mycobacterium tuberculosis</i> | 757 | 24.3 |
| Nontuberculous mycobacteria | 7 | 0.2 |
| Identification not possible | 151 | 4.8 |
| Contaminated | 298 | 9.6 |
| Total | 3114 | 100.0 |

**Table 5. Microscopy and culture results (all specimens)
National survey of tuberculosis drug resistance in KwaZulu-Natal, 2001 – 2002**

| Microscopy | n | % |
|-----------------------------------|-------------|--------------|
| Negative | 1866 | 60.2 |
| Positive | 1180 | 38.1 |
| Not done | 54 | 1.7 |
| Total | 3100 | 100.0 |
| Culture | | |
| Culture | n | % |
| Negative | 1413 | 45.6 |
| <i>Mycobacterium tuberculosis</i> | 802 | 25.9 |
| Nontuberculous mycobacteria | 3 | 0.1 |
| Identification not possible | 341 | 11.0 |
| Contaminated/Not done | 541 | 17.5 |
| Total | 3100 | 100.0 |

**Table 5. Microscopy and culture results (all specimens)
National survey of tuberculosis drug resistance in Limpopo Province, 2001 – 2002**

| Microscopy | n | % |
|-----------------------------|-------------|--------------|
| Negative | 1669 | 73.0 |
| Positive | 606 | 26.5 |
| Not done | 12 | 0.5 |
| Total | 2287 | 100.0 |
| Culture | | |
| Culture | n | % |
| Negative | 1328 | 58.1 |
| <i>M. tuberculosis</i> | 539 | 23.6 |
| Nontuberculous mycobacteria | 2 | 0.1 |
| Identification not possible | 79 | 3.5 |
| Contaminated | 339 | 14.8 |
| Total | 2287 | 100.0 |

**Table 5. Microscopy and culture results (all specimens)
National survey of tuberculosis drug resistance in Mpumalanga, 2001 – 2002**

| Microscopy | n | % |
|-----------------------------|-------------|--------------|
| Negative | 1857 | 67.3 |
| Positive | 882 | 31.9 |
| Not done | 22 | 0.8 |
| Total | 2761 | 100.0 |
| Culture | | |
| Culture | n | % |
| Negative | 1473 | 53.4 |
| <i>M. tuberculosis</i> | 877 | 31.8 |
| Nontuberculous mycobacteria | 11 | 0.4 |
| Identification not possible | 93 | 3.4 |
| Contaminated | 307 | 11.1 |
| Total | 2761 | 100.0 |

**Table 5. Microscopy and culture results (all specimens)
National survey of tuberculosis drug resistance in North West, 2001 – 2002**

| Microscopy | n | % |
|-----------------------------------|-------------|--------------|
| Negative | 3316 | 81.5 |
| Positive | 725 | 17.8 |
| Not done | 28 | 0.7 |
| Total | 4069 | 100.0 |
| | | |
| Culture | n | % |
| Negative | 2951 | 72.5 |
| <i>Mycobacterium tuberculosis</i> | 819 | 20.1 |
| Nontuberculous mycobacteria | 23 | 0.6 |
| Identification not possible | 45 | 1.1 |
| Contaminated | 231 | 5.7 |
| Total | 4069 | 100.0 |

**Table 5. Microscopy and culture results (all specimens)
National survey of tuberculosis drug resistance in the Western Cape, 2001 – 2002**

| Microscopy | n | % |
|-----------------------------------|-------------|--------------|
| Negative | 3102 | 78.6 |
| Positive | 783 | 19.8 |
| Not done | 62 | 1.6 |
| Total | 3947 | 100.0 |
| Culture | | |
| Culture | n | % |
| Negative | 2564 | 65.0 |
| <i>Mycobacterium tuberculosis</i> | 655 | 16.6 |
| Nontuberculous mycobacteria | 0 | 0.0 |
| Identification not possible | 138 | 3.5 |
| Contaminated | 590 | 14.9 |
| Total | 3947 | 100.0 |

Annexure 5

Grading of bacteriology results (confirmed *M. tuberculosis* strains) by Province

**Table 6. Grading of bacteriology results (confirmed *M. tuberculosis* strains)
National survey of tuberculosis drug resistance in the Eastern Cape, 2001 – 2002**

| Microscopy | | n | % |
|-------------------|--|------------|--------------|
| Grading | Negative | 179 | 22.7 |
| | 1 - 9 AFB per 100 fields | 35 | 4.4 |
| | 10 - 99 AFB per 100 fields (1+) | 129 | 16.3 |
| | 10 - 99 AFB in 50 fields (2+) | 163 | 20.7 |
| | More than 10 AFB per field in 20 fields (3+) | 282 | 35.9 |
| | Not done | 1 | 0.1 |
| Total | | 789 | 100.0 |
| Culture | | | |
| Culture | | n | % |
| Grading | 2 - 19 colonies | 156 | 19.8 |
| | 20 - 99 colonies (1+) | 101 | 12.8 |
| | 100 - 200 colonies (2+) | 132 | 16.7 |
| | Innumerable, discrete (3+) | 301 | 38.1 |
| | Confluent colonies (4+) | 99 | 12.5 |
| | Total | 789 | 100.0 |

**Table 6. Grading of bacteriology results (confirmed *M. tuberculosis* strains)
National survey of tuberculosis drug resistance in the Free State, 2001 – 2002**

| Microscopy | | n | % |
|-------------------|--|------------|--------------|
| Grading | Negative | 162 | 25.8 |
| | 1 - 9 AFB per 100 fields | 59 | 9.4 |
| | 10 - 99 AFB per 100 fields (1+) | 106 | 16.9 |
| | 10 - 99 AFB in 50 fields (2+) | 111 | 17.7 |
| | More than 10 AFB per field in 20 fields (3+) | 190 | 30.3 |
| | Total | 628 | 100.0 |
| Culture | | | |
| Grading | 2 - 19 colonies | 174 | 27.7 |
| | 20 - 99 colonies (1+) | 50 | 8.0 |
| | 100 - 200 colonies (2+) | 58 | 9.2 |
| | Innumerable, discrete colonies (3+) | 301 | 47.9 |
| | Confluent colonies (4+) | 45 | 7.2 |
| | Total | 628 | 100.0 |

**Table 6. Grading of bacteriology results (confirmed *M. tuberculosis* strains)
National survey of tuberculosis drug resistance in Gauteng, 2001 – 2002**

| Microscopy | | n | % |
|-------------------|--|------------|--------------|
| Grading | Negative | 200 | 26.4 |
| | 1 - 9 AFB er 100 fields | 46 | 6.1 |
| | 10 - 99 AFB per 100 fields (1+) | 184 | 24.3 |
| | 10 - 99 AFB in 50 fields (2+) | 123 | 16.2 |
| | More than 10 AFB per field in 20 fields (3+) | 200 | 26.4 |
| | Not done | 4 | 0.5 |
| | Total | 757 | 100.0 |
| Culture | | | |
| Grading | 2 - 19 colonies | 177 | 23.4 |
| | 20 - 99 colonies (1+) | 111 | 14.7 |
| | 100 – 200 colonies (2+) | 148 | 19.6 |
| | Innumerable, discrete (3+) | 299 | 39.5 |
| | Confluent colonies (4+) | 22 | 2.9 |
| | Total | 757 | 100.0 |

**Table 6. Grading of bacteriology results (confirmed *M. tuberculosis* strains)
National survey of tuberculosis drug resistance in KwaZulu-Natal, 2001 – 2002**

| Microscopy | | n | % |
|-------------------|--|------------|--------------|
| Grading | Negative | 114 | 14.2 |
| | 1 - 9 AFB per 100 fields | 56 | 7.0 |
| | 10 - 99 AFB per 100 fields (1+) | 214 | 26.7 |
| | 10 - 99 AFB in 50 fields (2+) | 173 | 21.6 |
| | More than 10 AFB per field in 20 fields (3+) | 238 | 29.7 |
| | Not done | 7 | 0.9 |
| Total | | 802 | 100.0 |
| Culture | | | |
| Culture | | n | % |
| Grading | 2 - 19 colonies | 143 | 17.8 |
| | 20 - 99 colonies (1+) | 55 | 6.9 |
| | 100 - 200 colonies (2+) | 94 | 11.7 |
| | Innumerable, discrete (3+) | 494 | 61.6 |
| | Confluent colonies (4+) | 16 | 2.0 |
| | Total | 802 | 100.0 |

**Table 6. Grading of bacteriology results (confirmed *M. tuberculosis* strains)
National survey of tuberculosis drug resistance in Limpopo Province, 2001 – 2002**

| Microscopy | | n | % |
|-------------------|--|------------|--------------|
| Grading | Negative | 93 | 17.3 |
| | 1 - 9 AFB per 100 fields | 39 | 7.2 |
| | 10 - 99 AFB per 100 fields (1+) | 87 | 16.1 |
| | 10 - 99 AFB in 50 fields (2+) | 93 | 17.3 |
| | More than 10 AFB per field in 20 fields (3+) | 227 | 42.1 |
| | Total | 539 | 100.0 |
| Culture | | | |
| Culture | | n | % |
| Grading | 2 - 19 colonies | 122 | 22.6 |
| | 20 - 99 colonies (1+) | 31 | 5.8 |
| | 100 - 200 colonies (2+) | 43 | 8.0 |
| | Innumerable, discrete (3+) | 287 | 53.2 |
| | Confluent colonies (4+) | 56 | 10.4 |
| | Total | 539 | 100.0 |

**Table 6. Grading of bacteriology results (confirmed *M. tuberculosis* strains)
National survey of tuberculosis drug resistance in Mpumalanga, 2001 - 2002**

| Microscopy | | n | % |
|-------------------|--|--------------|--------------|
| Grading | Negative | 185 | 21.1 |
| | 1 - 9 AFB per 100 fields | 66 | 7.5 |
| | 10 - 99 AFB per 100 fields (1+) | 180 | 20.5 |
| | 10 - 99 AFB in 50 fields (2+) | 166 | 18.9 |
| | More than 10 AFB per field in 20 fields (3+) | 275 | 31.4 |
| | Not done | 5 | 0.6 |
| | Total | 877 | 100.0 |
| Culture | | | |
| Culture | | n | % |
| Grading | 2 - 19 colonies | 191 | 21.8 |
| | 20 - 99 colonies (1+) | 101 | 11.5 |
| | 100 - 200 colonies (2+) | 109 | 12.4 |
| | Innumerable, discrete (3+) | 398 | 45.4 |
| | Confluent colonies (4+) | 78 | 8.9 |
| | | Total | 877 |

**Table 6. Grading of bacteriology results (confirmed *M. tuberculosis* strains)
National survey of tuberculosis drug resistance in North West, 2001 - 2002**

| Microscopy | | n | % |
|-------------------|--|--------------|--------------|
| Grading | Negative | 211 | 25.8 |
| | 1 - 9 AFB per 100 fields | 37 | 4.5 |
| | 10 - 99 AFB per 100 fields (1+) | 120 | 14.7 |
| | 10 - 99 AFB in 50 fields (2+) | 122 | 14.9 |
| | More than 10 AFB per field in 20 fields (3+) | 327 | 39.9 |
| | Not done | 2 | 0.2 |
| | Total | 819 | 100.0 |
| Culture | | | |
| Grading | 2 - 19 colonies | 190 | 23.2 |
| | 20 - 99 colonies (1+) | 98 | 12.0 |
| | 100 - 200 colonies (2+) | 117 | 14.3 |
| | Innumerable, discrete (3+) | 394 | 48.1 |
| | Confluent colonies (4+) | 20 | 2.4 |
| | | Total | 819 |

**Table 6. Grading of bacteriology results (confirmed *M. tuberculosis* strains)
National survey of tuberculosis drug resistance in the Western Cape, 2001 – 2002**

| Microscopy | | n | % |
|-------------------|--|--------------|--------------|
| Grading | Negative | 99 | 15.1 |
| | 1 - 9 AFB per 100 fields | 55 | 8.4 |
| | 10 - 99 AFB per 100 fields (1+) | 140 | 21.4 |
| | 10 - 99 AFB in 50 fields (2+) | 133 | 20.3 |
| | More than 10 AFB per field in 20 fields (3+) | 217 | 33.1 |
| | Not done | 11 | 1.7 |
| | Total | 655 | 100.0 |
| Culture | | | |
| Culture | | n | % |
| Grading | 2 - 19 colonies | 119 | 18.2 |
| | 20 - 99 colonies (1+) | 51 | 7.8 |
| | 100 - 200 colonies (2+) | 60 | 9.2 |
| | Innumerable, discrete (3+) | 405 | 61.8 |
| | Confluent colonies (4+) | 20 | 3.1 |
| | | Total | 655 |

Annexure 6
Antituberculosis drug resistance by Province

Table 9. Antituberculosis drug resistance
National survey of tuberculosis drug resistance in the Eastern Cape, 2001 – 2002

| | No history of prior treatment* | | | History of prior treatment* | | |
|-------------------------------|--------------------------------|-------|---------------|-----------------------------|-------|---------------|
| | n | % | (95% CI) | n | % | (95% CI) |
| Total tested | 506 | 100.0 | | 283 | 100.0 | |
| Fully susceptible | 449 | 88.7 | (84.0 – 92.2) | 233 | 82.3 | (74.8 – 88.0) |
| Any resistance | 57 | 11.3 | (7.8 – 16.0) | 50 | 17.7 | (12.0 – 25.2) |
| Mono-resistance | | | | | | |
| H | 19 | 3.8 | (1.9 – 7.1) | 9 | 3.2 | (1.1 – 8.0) |
| R | 1 | 0.2 | (0.0 – 2.2) | 1 | 0.4 | (0.0 – 3.9) |
| E | 0 | 0.0 | (0.0 – 1.9) | 0 | 0.0 | (0.0 – 3.3) |
| S | 20 | 4.0 | (2.0 – 7.4) | 11 | 3.9 | (1.5 – 8.9) |
| H+R resistance | | | | | | |
| HR | 3 | 0.6 | (0.1 – 2.8) | 13 | 4.6 | (2.0 – 9.9) |
| HRE | 0 | 0.0 | (0.0 – 1.9) | 1 | 0.4 | (0.0 – 3.3) |
| HRS | 0 | 0.0 | (0.0 – 1.9) | 5 | 1.8 | (0.4 – 6.0) |
| HRSE | 2 | 0.4 | (0.0 – 2.5) | 2 | 0.7 | (0.0 – 4.5) |
| H+ other resistance | | | | | | |
| HE | 0 | 0.0 | (0.0 – 1.9) | 1 | 0.4 | (0.0 – 3.3) |
| HS | 11 | 2.2 | (0.8 – 5.1) | 7 | 2.5 | (0.7 – 7.0) |
| HES | 1 | 0.2 | (0.0 – 2.2) | 0 | 0.0 | (0.0 – 3.3) |
| R+ other resistance | | | | | | |
| RE | 0 | 0.0 | (0.0 – 1.9) | 0 | 0.0 | (0.0 – 3.3) |
| RS | 0 | 0.0 | (0.0 – 1.9) | 0 | 0.0 | (0.0 – 3.3) |
| RES | 0 | 0.0 | (0.0 – 1.9) | 0 | 0.0 | (0.0 – 3.3) |
| Other multi-resistance | | | | | | |
| ES | 0 | 0.0 | (0.0 – 1.9) | 0 | 0.0 | (0.0 – 3.3) |
| Any H resistance | 36 | 7.1 | (4.4 – 11.2) | 38 | 13.4 | (8.5 – 20.4) |
| Any R resistance | 6 | 1.2 | (0.3 – 3.7) | 22 | 7.8 | (4.1 – 13.8) |
| Any E resistance | 3 | 0.6 | (0.1 – 2.8) | 4 | 1.4 | (0.2 – 5.5) |
| Any S resistance | 34 | 6.7 | (4.1 – 10.7) | 25 | 8.8 | (4.9 – 15.1) |

* According to patient and/or record

Table 9. Antituberculosis drug resistance
National survey of tuberculosis drug resistance in the Free State, 2001 – 2002

| | No history of prior treatment* | | | History of prior treatment* | | |
|------------------------|--------------------------------|-------|---------------|-----------------------------|-------|---------------|
| | n | % | (95% CI) | n | % | (95% CI) |
| Total tested | 454 | 100.0 | | 174 | 100.0 | |
| Fully susceptible | 415 | 91.4 | (86.8 – 94.6) | 158 | 90.8 | (82.2 – 95.7) |
| Any resistance | 39 | 8.6 | (5.4 – 13.2) | 16 | 9.2 | (4.3 – 17.8) |
| Mono-resistance | | | | | | |
| H | 15 | 3.3 | (1.5 – 6.8) | 7 | 4.0 | (1.2 – 11.2) |
| R | 3 | 0.7 | (0.1 – 3.2) | 2 | 1.1 | (0.1 – 7.1) |
| E | 0 | 0.0 | (0.0 – 2.1) | 0 | 0.0 | (0.0 – 5.3) |
| S | 7 | 1.5 | (0.5 – 4.4) | 2 | 1.1 | (0.1 – 7.1) |
| H+R resistance | | | | | | |
| HR | 1 | 0.2 | (0.0 – 2.5) | 2 | 1.1 | (0.1 – 7.1) |
| HRE | 2 | 0.4 | (0.2 – 2.8) | 0 | 0.0 | (0.0 – 5.3) |
| HRS | 4 | 0.9 | (0.2 – 3.5) | 0 | 0.0 | (0.0 – 5.3) |
| HRSE | 1 | 0.2 | (0.0 – 2.5) | 1 | 0.6 | (0.0 – 6.2) |
| H+ other resistance | | | | | | |
| HE | 0 | 0.0 | (0.0 – 2.1) | 0 | 0.0 | (0.0 – 5.3) |
| HS | 6 | 1.3 | (0.3 – 4.1) | 2 | 1.1 | (0.1 – 7.1) |
| HES | 0 | 0.0 | (0.0 – 2.1) | 0 | 0.0 | (0.0 – 5.3) |
| R+ other resistance | | | | | | |
| RE | 0 | 0.0 | (0.0 – 2.1) | 0 | 0.0 | (0.0 – 5.3) |
| RS | 0 | 0.0 | (0.0 – 2.1) | 0 | 0.0 | (0.0 – 5.3) |
| RES | 0 | 0.0 | (0.0 – 2.1) | 0 | 0.0 | (0.0 – 5.3) |
| Other multi-resistance | | | | | | |
| ES | 0 | 0.0 | (0.0 – 2.1) | 0 | 0.0 | (0.0 – 5.3) |
| Any H resistance | 29 | 6.4 | (3.7 – 10.6) | 12 | 6.9 | (2.8 – 15.0) |
| Any R resistance | 11 | 2.4 | (0.9 – 5.6) | 5 | 2.9 | (0.6 – 9.7) |
| Any E resistance | 3 | 0.7 | (0.1 – 3.2) | 1 | 0.6 | (0.0 – 6.2) |
| Any S resistance | 18 | 4.0 | (1.9 – 7.6) | 5 | 2.9 | (0.6 – 9.7) |

* According to patient and/or record

Note: Ongoing problems with patient classification render interpretation of results difficult

Table 9. Antituberculosis drug resistance
National survey of tuberculosis drug resistance in Gauteng, 2001 – 2002

| | No history of prior treatment* | | | History of prior treatment* | | |
|-------------------------------|--------------------------------|-------|-------------|-----------------------------|-------|-------------|
| | n | % | (95% CI) | n | % | (95% CI) |
| Total tested | 592 | 100.0 | | 165 | 100.0 | |
| Fully susceptible | 553 | 93.4 | 89.8 – 95.9 | 144 | 87.3 | 77.7 – 93.3 |
| Any resistance | 39 | 6.6 | 4.1 – 10.2 | 21 | 12.7 | 6.7 – 22.3 |
| Mono-resistance | | | | | | |
| H | 11 | 1.9 | 0.7 – 4.4 | 1 | 0.6 | 0.0 – 6.6 |
| R | 2 | 0.3 | 0.0 – 2.2 | 0 | 0.0 | 0.0 – 5.5 |
| E | 0 | 0.0 | 0.0 – 1.6 | 0 | 0.0 | 0.0 – 5.5 |
| S | 11 | 1.9 | 0.7 – 4.4 | 4 | 2.4 | 0.4 – 9.3 |
| H+R resistance | | | | | | |
| HR | 3 | 0.5 | 0.0 – 1.6 | 2 | 1.2 | 0.1 – 7.5 |
| HRE | 0 | 0.0 | 0.0 – 1.6 | 2 | 1.2 | 0.1 – 7.5 |
| HRS | 4 | 0.7 | 0.1 – 2.7 | 2 | 1.2 | 0.1 – 7.5 |
| HRSE | 1 | 0.2 | 0.0 – 1.9 | 3 | 1.8 | 0.2 – 8.4 |
| H+ other resistance | | | | | | |
| HE | 0 | 0.0 | 0.1 – 2.4 | 2 | 1.2 | 0.1 – 7.5 |
| HS | 6 | 1.0 | 0.3 – 3.2 | 4 | 2.4 | 0.4 – 9.3 |
| HES | 1 | 0.2 | 0.0 – 1.9 | 0 | 0.0 | 0.0 – 5.5 |
| R+ other resistance | | | | | | |
| RE | 0 | 0.0 | 0.0 – 1.6 | 1 | 0.6 | 0.0 – 6.6 |
| RS | 0 | 0.0 | 0.0 – 1.6 | 0 | 0.0 | 0.0 – 5.5 |
| RES | 0 | 0.0 | 0.0 – 1.6 | 0 | 0.0 | 0.0 – 5.5 |
| Other multi-resistance | | | | | | |
| ES | 0 | 0.0 | 0.0 – 1.6 | 0 | 0.0 | 0.0 – 5.5 |
| Any H resistance | 26 | 4.4 | 2.5 – 7.6 | 16 | 9.7 | 4.6 – 18.7 |
| Any R resistance | 10 | 1.7 | 0.6 – 4.1 | 10 | 6.1 | 2.3 – 14.2 |
| Any E resistance | 2 | 0.3 | 0.0 – 2.2 | 8 | 4.8 | 1.6 – 12.6 |
| Any S resistance | 23 | 3.8 | 2.1 – 7.0 | 13 | 7.9 | 3.4 – 16.5 |

* According to patient and/or record

Table 9. Antituberculosis drug resistance
National survey of tuberculosis drug resistance in KwaZulu-Natal, 2001 – 2002

| | No history of prior treatment* | | | History of prior treatment* | | |
|-------------------------------|--------------------------------|-------|---------------|-----------------------------|-------|---------------|
| | n | % | (95% CI) | n | % | (95% CI) |
| Total tested | 595 | 100.0 | | 207 | 100.0 | |
| Fully susceptible | 556 | 93.4 | (89.8 – 95.9) | 169 | 81.6 | (72.6 – 88.3) |
| Any resistance | 39 | 6.6 | (4.1 – 10.2) | 38 | 18.4 | (11.7 – 27.4) |
| Mono-resistance | | | | | | |
| H | 15 | 2.5 | (1.1 – 5.2) | 9 | 4.3 | (1.5 – 10.8) |
| R | 1 | 0.2 | (0.0 – 1.9) | 2 | 1.0 | (0.1 – 6.0) |
| E | 0 | 0.0 | (0.0 – 1.6) | 1 | 0.5 | (0.0 – 5.3) |
| S | 6 | 1.0 | (0.3 – 3.2) | 5 | 2.4 | (0.5 – 8.2) |
| H+R resistance | | | | | | |
| HR | 0 | 0.0 | (0.0 – 1.6) | 4 | 1.9 | (0.3 – 7.5) |
| HRE | 0 | 0.0 | (0.0 – 1.6) | 0 | 0.0 | (0.0 – 4.5) |
| HRS | 6 | 1.0 | (0.3 – 3.2) | 8 | 3.9 | (1.2 – 10.2) |
| HRSE | 4 | 0.7 | (0.1 – 2.7) | 4 | 1.9 | (0.3 – 7.5) |
| H+ other resistance | | | | | | |
| HE | 0 | 0.0 | (0.0 – 1.6) | 0 | 0.0 | (0.0 – 4.5) |
| HS | 6 | 1.0 | (0.0 – 3.2) | 5 | 2.4 | (0.5 – 8.2) |
| HES | 1 | 0.2 | (0.0 – 1.9) | 0 | 0.0 | (0.0 – 4.5) |
| R+ other resistance | | | | | | |
| RE | 0 | 0.0 | (0.0 – 1.6) | 0 | 0.0 | (0.0 – 4.5) |
| RS | 0 | 0.0 | (0.0 – 1.6) | 0 | 0.0 | (0.0 – 4.5) |
| RES | 0 | 0.0 | (0.0 – 1.6) | 0 | 0.0 | (0.0 – 4.5) |
| Other multi-resistance | | | | | | |
| ES | 0 | 0.0 | (0.0 – 1.6) | 0 | 0.0 | (0.0 – 4.5) |
| Any H resistance | 32 | 5.4 | (3.2 – 8.8) | 30 | 14.5 | (8.6 – 23.1) |
| Any R resistance | 11 | 1.8 | (0.7 – 4.3) | 18 | 8.7 | (4.3 – 16.3) |
| Any E resistance | 5 | 0.8 | (0.2 – 2.9) | 5 | 2.4 | (0.5 – 8.2) |
| Any S resistance | 23 | 3.9 | (2.1 – 6.9) | 22 | 10.6 | (5.7 – 18.6) |

* According to patient and/or record

Table 9. Antituberculosis drug resistance
National survey of tuberculosis drug resistance in Limpopo Province, 2001 – 2002

| | No history of prior treatment* | | | History of prior treatment* | | |
|-------------------------------|--------------------------------|-------|---------------|-----------------------------|-------|---------------|
| | n | % | (95% CI) | n | % | (95% CI) |
| Total tested | 451 | 100.0 | | 88 | 100.0 | |
| Fully susceptible | 419 | 92.9 | (88.5 – 95.8) | 73 | 83.0 | (68.0 – 92.1) |
| Any resistance | 32 | 7.1 | (4.2 – 11.5) | 15 | 17.0 | (7.9 – 32.0) |
| Mono-resistance | | | | | | |
| H | 6 | 1.3 | (0.3 – 4.2) | 4 | 4.5 | (0.8 – 16.7) |
| R | 0 | 0.0 | (0.0 – 2.1) | 3 | 3.4 | (0.4 – 15.1) |
| E | 0 | 0.0 | (0.0 – 2.1) | 0 | 0.0 | (0.0 – 10.0) |
| S | 7 | 1.6 | (0.5 – 4.5) | 1 | 1.1 | (0.0 – 11.8) |
| H+R resistance | | | | | | |
| HR | 3 | 0.7 | (0.1 – 3.2) | 3 | 3.4 | (0.4 – 15.1) |
| HRE | 1 | 0.2 | (0.0 – 2.5) | 2 | 2.3 | (0.1 – 13.5) |
| HRS | 2 | 0.4 | (0.0 – 2.8) | 1 | 1.1 | (0.0 – 11.8) |
| HRSE | 5 | 1.1 | (0.2 – 3.8) | 0 | 0.0 | (0.0 – 10.0) |
| H+ other resistance | | | | | | |
| HE | 4 | 0.9 | (0.2 – 3.5) | 0 | 0.0 | (0.0 – 10.0) |
| HS | 4 | 0.9 | (0.2 – 3.5) | 1 | 1.1 | (0.0 – 11.8) |
| HES | 0 | 0.0 | (0.0 - 2.1) | 0 | 0.0 | (0.0 – 10.0) |
| R+ other resistance | | | | | | |
| RE | 0 | 0.0 | (0.0 - 2.1) | 0 | 0.0 | 0.0 – 10.0) |
| RS | 0 | 0.0 | (0.0 - 2.1) | 0 | 0.0 | 0.0 – 10.0) |
| RES | 0 | 0.0 | (0.0 - 2.1) | 0 | 0.0 | 0.0 – 10.0) |
| Other multi-resistance | | | | | | |
| ES | 0 | 0.0 | (0.0 – 2.1) | 0 | 0.0 | (0.0 – 10.0) |
| Any H resistance | 25 | 5.5 | (3.1 – 9.6) | 11 | 12.5 | (5.0 – 26.7) |
| Any R resistance | 11 | 2.4 | (1.0 – 5.7) | 9 | 10.2 | (3.6 – 24.0) |
| Any E resistance | 10 | 2.2 | (0.8 – 5.4) | 2 | 2.3 | (0.1 – 13.5) |
| Any S resistance | 18 | 4.0 | (2.0 – 7.7) | 3 | 3.4 | (0.4 – 15.1) |

* According to patient and/or record

Table 9. Antituberculosis drug resistance
National survey of tuberculosis drug resistance in Mpumalanga, 2001 – 2002

| | No history of prior treatment* | | | History of prior treatment* | | |
|-------------------------------|--------------------------------|-------|---------------|-----------------------------|-------|---------------|
| | n | % | (95% CI) | n | % | (95% CI) |
| Total tested | 702 | 100.0 | | 175 | 100.0 | |
| Fully susceptible | 636 | 90.6 | (86.9 – 93.3) | 134 | 76.6 | (66.1 – 84.7) |
| Any resistance | 66 | 9.4 | (6.7 – 13.1) | 41 | 23.4 | (15.3 – 33.9) |
| Mono-resistance | | | | | | |
| H | 22 | 3.1 | (1.7 – 5.7) | 4 | 2.3 | (0.4 – 8.8) |
| R | 4 | 0.6 | (0.1 – 2.3) | 4 | 2.3 | (0.4 – 8.8) |
| E | 0 | 0.0 | (0.0 – 1.3) | 0 | 0.0 | (0.0 – 5.2) |
| S | 13 | 1.9 | (0.8 – 4.1) | 4 | 2.3 | (0.4 – 8.8) |
| H+R resistance | | | | | | |
| HR | 6 | 0.9 | (0.2 – 2.7) | 6 | 3.4 | (0.9 – 10.4) |
| HRE | 4 | 0.6 | (0.1 – 2.3) | 2 | 1.1 | (0.1 – 7.1) |
| HRS | 6 | 0.9 | (0.2 – 2.7) | 4 | 2.3 | (0.4 – 8.8) |
| HRSE | 2 | 0.3 | (0.0 – 1.8) | 12 | 6.9 | (2.8 – 14.9) |
| H+ other resistance | | | | | | |
| HE | 1 | 0.1 | (0.0 – 1.6) | 0 | 0.0 | (0.0 – 5.2) |
| HS | 8 | 1.1 | (0.4 – 3.1) | 3 | 1.7 | (0.2 – 8.0) |
| HES | 0 | 0.0 | (0.0 – 1.3) | 2 | 1.1 | (0.1 – 7.1) |
| R+ other resistance | | | | | | |
| RE | 0 | 0.0 | (0.0 – 1.3) | 0 | 0.0 | (0.0 – 5.2) |
| RS | 0 | 0.0 | (0.0 – 1.3) | 0 | 0.0 | (0.0 – 5.2) |
| RES | 0 | 0.0 | (0.0 – 1.3) | 0 | 0.0 | (0.0 – 5.2) |
| Other multi-resistance | | | | | | |
| ES | 0 | 0.0 | (0.0 – 1.3) | 0 | 0.0 | (0.0 – 5.2) |
| Any H resistance | 49 | 7.0 | (4.6 – 10.3) | 33 | 18.9 | (11.6 – 28.9) |
| Any R resistance | 22 | 3.1 | (1.7 – 5.7) | 28 | 16.0 | (9.3 – 25.7) |
| Any E resistance | 7 | 1.0 | (0.3 – 2.9) | 16 | 9.1 | (4.3 – 17.7) |
| Any S resistance | 29 | 4.1 | (2.4 – 6.9) | 25 | 14.3 | (8.0 – 23.8) |

* According to patient and/or record

Table 9. Antituberculosis drug resistance
National survey of tuberculosis drug resistance in North West, 2001 – 2002

| | No history of prior treatment* | | | History of prior treatment* | | |
|-------------------------------|--------------------------------|-------|---------------|-----------------------------|-------|---------------|
| | n | % | (95% CI) | n | % | (95% CI) |
| Total tested | 631 | 100.0 | | 188 | 100.0 | |
| Fully susceptible | 580 | 91.9 | (88.2 – 94.6) | 152 | 80.9 | (71.2 – 88.0) |
| Any resistance | 51 | 8.1 | (5.4 – 11.8) | 36 | 19.1 | (12.0 – 28.8) |
| Mono-resistance | | | | | | |
| H | 14 | 2.2 | (1.0 – 4.7) | 1 | 0.5 | (0.0 – 5.8) |
| R | 3 | 0.5 | (0.1 – 2.3) | 5 | 2.7 | (0.6 – 9.0) |
| E | 0 | 0.0 | (0.0 – 1.5) | 0 | 0.0 | (0.0 – 4.9) |
| S | 11 | 1.7 | (0.7 – 4.1) | 10 | 5.3 | (2.0 – 12.5) |
| H+R resistance | | | | | | |
| HR | 3 | 0.5 | (0.1 – 2.3) | 6 | 3.2 | (0.8 – 9.7) |
| HRE | 3 | 0.5 | (0.1 – 2.3) | 1 | 0.5 | (0.0 – 5.8) |
| HRS | 3 | 0.5 | (0.1 – 2.3) | 5 | 2.7 | (0.6 – 9.0) |
| HRSE | 5 | 0.8 | (0.2 – 2.8) | 1 | 0.5 | (0.0 – 5.8) |
| H+ other resistance | | | | | | |
| HE | 0 | 0.0 | (0.0 – 1.5) | 0 | 0.0 | (0.0 – 4.9) |
| HES | 9 | 1.4 | (0.5 – 3.7) | 7 | 3.7 | (1.1 – 10.4) |
| HES | 0 | 0.0 | (0.0 – 1.5) | 0 | 0.0 | (0.0 – 4.9) |
| R+ other resistance | | | | | | |
| RE | 0 | 0.0 | (0.0 - 1.5) | 0 | 0.0 | (0.0 – 4.9) |
| RS | 0 | 0.0 | (0.0 - 1.5) | 0 | 0.0 | (0.0 – 4.9) |
| RES | 0 | 0.0 | (0.0 - 1.5) | 0 | 0.0 | (0.0 – 4.9) |
| Other multi-resistance | | | | | | |
| ES | 0 | 0.0 | (0.0 – 1.5) | 0 | 0.0 | (0.0 – 4.9) |
| Any H resistance | 37 | 5.9 | (3.6 – 9.2) | 21 | 11.2 | (5.9 – 19.8) |
| Any R resistance | 17 | 2.7 | (1.3 – 5.3) | 18 | 9.6 | (4.7 – 17.8) |
| Any E resistance | 8 | 1.3 | (0.4 – 3.4) | 2 | 1.1 | (0.1 – 6.6) |
| Any S resistance | 28 | 4.4 | (2.5 – 7.5) | 23 | 12.2 | (6.7 – 21.0) |

* According to patient and/or record

Table 9. Antituberculosis drug resistance
National survey of tuberculosis drug resistance in the Western Cape, 2001 – 2002

| | No history of prior treatment* | | | History of prior treatment* | | |
|-------------------------------|--------------------------------|-------|---------------|-----------------------------|-------|---------------|
| | n | % | (95% CI) | n | % | (95% CI) |
| Total tested | 427 | 100.0 | | 228 | 100.0 | |
| Fully susceptible | 403 | 94.4 | (90.1 – 96.9) | 210 | 92.1 | (85.1 – 96.1) |
| Any resistance | 24 | 5.6 | (3.1 – 9.9) | 18 | 7.9 | (3.9 - 14.9) |
| Mono-resistance | | | | | | |
| H | 11 | 2.6 | (1.0 – 6.0) | 5 | 2.2 | (0.5 – 7.5) |
| R | 0 | 0.0 | (0.0 – 2.2) | 0 | 0.0 | (0.0 – 4.1) |
| E | 0 | 0.0 | (0.0 – 2.2) | 0 | 0.0 | (0.0 – 4.1) |
| S | 2 | 0.5 | (0.0 – 3.0) | 3 | 1.3 | (0.2 – 6.2) |
| H+R resistance | | | | | | |
| HR | 3 | 0.7 | (0.1 – 3.4) | 4 | 1.8 | (0.3 – 6.8) |
| HRE | 0 | 0.0 | (0.0 – 2.2) | 1 | 0.4 | (0.0 – 4.8) |
| HRS | 1 | 0.2 | (0.0 – 2.6) | 2 | 0.9 | (0.0 – 5.5) |
| HRSE | 0 | 0.0 | (0.0 – 2.2) | 2 | 0.9 | (0.0 – 5.5) |
| H+ other resistance | | | | | | |
| HE | 0 | 0.0 | (0.0 – 2.2) | 0 | 0.0 | (0.0 – 4.1) |
| HS | 7 | 1.6 | (0.5 – 4.7) | 1 | 0.4 | (0.0 – 4.8) |
| HES | 0 | 0.0 | (0.0 – 2.2) | 0 | 0.0 | (0.0 – 4.1) |
| R+ other resistance | | | | | | |
| RE | 0 | 0.0 | (0.0 – 2.2) | 0 | 0.0 | (0.0 – 4.1) |
| RS | 0 | 0.0 | (0.0 – 2.2) | 0 | 0.0 | (0.0 – 4.1) |
| RES | 0 | 0.0 | (0.0 – 2.2) | 0 | 0.0 | (0.0 – 4.1) |
| Other multi-resistance | | | | | | |
| ES | 0 | 0.0 | (0.0 – 2.2) | 0 | 0.0 | (0.0 – 4.1) |
| Any H resistance | 22 | 5.2 | (2.7 – 9.3) | 15 | 6.6 | (3.0 – 13.2) |
| Any R resistance | 4 | 0.9 | (0.2 – 3.7) | 9 | 3.9 | (1.4 – 9.9) |
| Any E resistance | 0 | 0.0 | (0.0 – 2.2) | 3 | 1.3 | (0.2 – 6.2) |
| Any S resistance | 10 | 2.3 | (0.9 – 5.7) | 8 | 3.5 | (1.1 – 9.3) |

* According to patient and/or record

Annexure 7

**HIV status of confirmed tuberculosis patients by gender, previous
treatment and drug resistance: Provincial results**

**Table 12. HIV status of confirmed tuberculosis patients by gender, previous treatment and drug resistance (n = 442)
National survey of tuberculosis drug resistance in the Eastern Cape, 2001 – 2002**

| HIV status | Gender | | | | | | Total | |
|-----------------|--|--------------|----------------------------|--------------|------------------------------------|--------------|------------|--------------|
| | Male | | Female | | | | | |
| | n | % | n | % | n | % | n | % |
| Positive | 81 | 27.5 | 54 | 36.7 | 135 | 30.5 | | |
| Negative | 214 | 72.5 | 93 | 63.3 | 307 | 69.5 | | |
| Total | 295 | 100.0 | 147 | 100.0 | 442 | 100.0 | | |
| | Previous treatment for tuberculosis | | | | | | | |
| | No history of prior treatment | | History of prior treatment | | History of prior treatment unknown | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 88 | 32.0 | 47 | 28.3 | 0 | 0.0 | 135 | 30.5 |
| Negative | 187 | 68.0 | 119 | 71.7 | 1 | 100.0 | 307 | 69.5 |
| Total | 275 | 100.0 | 166 | 100.0 | 1 | 100.0 | 442 | 100.0 |
| | Drug resistance | | | | | | | |
| | Fully susceptible | | Any resistance | | MDR | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 118 | 32.0 | 17 | 23.3 | 6 | 33.3 | 135 | 30.5 |
| Negative | 251 | 68.0 | 56 | 76.7 | 12 | 66.7 | 307 | 69.5 |
| Total | 369 | 100.0 | 73 | 100.0 | 18 | 100.0 | 442 | 100.0 |

**Table 12. HIV status of confirmed tuberculosis patients by gender, previous treatment and drug resistance (n = 628)
National survey of tuberculosis drug resistance in the Free State, 2001 – 2002**

| HIV status | Gender | | | | | | Total | |
|-----------------|--|--------------|----------------------------|--------------|------------------------------------|--------------|------------|--------------|
| | Male | | Female | | | | | |
| | n | % | n | % | n | % | | |
| Positive | 241 | 70.7 | 166 | 73.8 | 407 | 71.9 | | |
| Negative | 100 | 29.3 | 59 | 26.2 | 159 | 28.1 | | |
| Total | 341 | 100.0 | 225 | 100.0 | 566 | 100.0 | | |
| | Previous treatment for tuberculosis | | | | | | | |
| | No history of prior treatment | | History of prior treatment | | History of prior treatment unknown | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 289 | 71.4 | 115 | 73.2 | 3 | 75.0 | 407 | 71.9 |
| Negative | 116 | 28.6 | 42 | 26.8 | 1 | 25.0 | 159 | 28.1 |
| Total | 405 | 100.0 | 157 | 100.0 | 4 | 100.0 | 566 | 100.0 |
| | Drug resistance | | | | | | | |
| | Fully susceptible | | Any resistance | | MDR | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 367 | 71.1 | 40 | 80.0 | 8 | 72.7 | 407 | 71.9 |
| Negative | 149 | 28.9 | 10 | 20.0 | 3 | 27.3 | 159 | 28.1 |
| Total | 516 | 100.0 | 50 | 100.0 | 11 | 100.0 | 566 | 100.0 |

**Table 12. HIV status of confirmed tuberculosis patients by gender, previous treatment and drug resistance (n = 632)
National survey of tuberculosis drug resistance in Gauteng, 2001 – 2002**

| HIV status | Gender | | | | | | | |
|-----------------|-------------------------------------|--------------|----------------------------|--------------|------------------------------------|--------------|------------|--------------|
| | Male | | Female | | Total | | | |
| | n | % | n | % | n | % | | |
| Positive | 228 | 57.4 | 175 | 74.5 | 403 | 63.8 | | |
| Negative | 169 | 42.6 | 60 | 25.5 | 229 | 36.2 | | |
| Total | 397 | 100.0 | 235 | 100.0 | 632 | 100.0 | | |
| | Previous treatment for tuberculosis | | | | | | | |
| | No history of prior treatment | | History of prior treatment | | History of prior treatment unknown | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 309 | 64.6 | 86 | 58.9 | 8 | 100.0 | 403 | 63.8 |
| Negative | 169 | 35.4 | 60 | 41.1 | 0 | 0.0 | 229 | 36.2 |
| Total | 478 | 100.0 | 146 | 100.0 | 8 | 100.0 | 632 | 100.0 |
| | Drug resistance | | | | | | | |
| | Fully susceptible | | Any resistance | | MDR | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 366 | 63.3 | 37 | 68.5 | 11 | 68.8 | 403 | 63.8 |
| Negative | 212 | 36.7 | 17 | 31.5 | 5 | 31.3 | 229 | 36.2 |
| Total | 578 | 100.0 | 54 | 100.0 | 16 | 100.0 | 632 | 100.0 |

**Table 12. HIV status of confirmed tuberculosis patients by gender, previous treatment and drug resistance (n = 728)
National survey of tuberculosis drug resistance in KwaZulu-Natal, 2001 – 2002**

| HIV status | Gender | | | | | | | |
|-----------------|-------------------------------------|--------------|----------------------------|--------------|------------------------------------|--------------|------------|--------------|
| | Male | | Female | | | | Total | |
| | n | % | n | | % | | n | % |
| Positive | 279 | 61.3 | 190 | | 69.6 | | 469 | 64.4 |
| Negative | 176 | 38.7 | 83 | | 30.4 | | 259 | 35.6 |
| Total | 455 | 100.0 | 273 | | 100.0 | | 728 | 100.0 |
| | Previous treatment for tuberculosis | | | | | | | |
| | No history of prior treatment | | History of prior treatment | | History of prior treatment unknown | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 337 | 64.1 | 124 | 66.7 | 8 | 50.0 | 469 | 64.4 |
| Negative | 189 | 35.9 | 62 | 33.3 | 8 | 50.0 | 259 | 35.6 |
| Total | 526 | 100.0 | 186 | 100.0 | 16 | 100.0 | 728 | 100.0 |
| | Drug resistance | | | | | | | |
| | Fully susceptible | | Any resistance | | MDR | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 415 | 63.2 | 54 | 76.1 | 20 | 76.9 | 469 | 64.4 |
| Negative | 242 | 36.8 | 17 | 23.9 | 6 | 23.1 | 259 | 35.6 |
| Total | 657 | 100.0 | 71 | 100.0 | 26 | 100.0 | 728 | 100.0 |

**Table 12. HIV status of confirmed tuberculosis patients by gender, previous treatment and drug resistance (n = 479)
National survey of tuberculosis drug resistance in Limpopo Province, 2001 – 2002**

| HIV status | Gender | | | | | | | |
|-----------------|-------------------------------------|--------------|----------------------------|--------------|------------------------------------|--------------|------------|--------------|
| | Male | | Female | | Total | | | |
| | n | % | n | % | n | % | | |
| Positive | 141 | 48.5 | 110 | 58.5 | 251 | 52.4 | | |
| Negative | 150 | 51.5 | 78 | 41.5 | 228 | 47.6 | | |
| Total | 291 | 100.0 | 188 | 100.0 | 479 | 100.0 | | |
| | Previous treatment for tuberculosis | | | | | | | |
| | No history of prior treatment | | History of prior treatment | | History of prior treatment unknown | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 211 | 54.4 | 36 | 43.4 | 4 | 50.0 | 251 | 52.4 |
| Negative | 177 | 45.6 | 47 | 56.6 | 4 | 50.0 | 228 | 47.6 |
| Total | 388 | 100.0 | 83 | 100.0 | 8 | 100.0 | 479 | 100.0 |
| | Drug resistance | | | | | | | |
| | Fully susceptible | | Any resistance | | MDR | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 226 | 51.8 | 25 | 58.1 | 9 | 56.3 | 251 | 52.4 |
| Negative | 210 | 48.2 | 18 | 41.9 | 7 | 43.8 | 228 | 47.6 |
| Total | 436 | 100.0 | 43 | 100.0 | 16 | 100.0 | 479 | 100.0 |

**Table 12. HIV status of confirmed tuberculosis patients by gender, previous treatment and drug resistance (n = 655)
National survey of tuberculosis drug resistance in Mpumalanga, 2001 – 2002**

| HIV status | Gender | | | | | | Total | |
|-----------------|-------------------------------------|--------------|----------------------------|--------------|------------------------------------|--------------|------------|--------------|
| | Male | | Female | | n | % | n | % |
| | n | % | n | % | | | | |
| Positive | 281 | 65.3 | 159 | 70.7 | 440 | 67.2 | | |
| Negative | 149 | 34.7 | 66 | 29.3 | 215 | 32.8 | | |
| Total | 430 | 100.0 | 225 | 100.0 | 655 | 100.0 | | |
| | Previous treatment for tuberculosis | | | | | | | |
| | No history of prior treatment | | History of prior treatment | | History of prior treatment unknown | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 343 | 66.3 | 84 | 68.3 | 13 | 86.7 | 440 | 67.2 |
| Negative | 174 | 33.7 | 39 | 31.7 | 2 | 13.3 | 215 | 32.8 |
| Total | 517 | 100.0 | 123 | 100.0 | 15 | 100.0 | 655 | 100.0 |
| | Drug resistance | | | | | | | |
| | Fully susceptible | | Any resistance | | MDR | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 387 | 66.7 | 53 | 70.7 | 12 | 66.7 | 440 | 67.2 |
| Negative | 193 | 33.3 | 22 | 29.3 | 6 | 33.3 | 215 | 32.8 |
| Total | 580 | 100.0 | 75 | 100.0 | 18 | 100.0 | 655 | 100.0 |

**Table 12. HIV status of confirmed tuberculosis patients by gender, previous treatment and drug resistance (n = 726)
National survey of tuberculosis drug resistance in North West, 2001 – 2002**

| HIV status | Gender | | | | | | Total | |
|--------------|-------------------------------------|--------------|----------------------------|--------------|------------------------------------|--------------|------------|--------------|
| | Male | | Female | | Unknown | | | |
| | n | % | n | % | n | % | n | % |
| Positive | 301 | 64.5 | 177 | 69.7 | 1 | 20.0 | 479 | 66.0 |
| Negative | 166 | 35.5 | 77 | 30.3 | 4 | 80.0 | 247 | 34.0 |
| Total | 467 | 100.0 | 254 | 100.0 | 5 | 100.0 | 726 | 100.0 |
| | Previous treatment for tuberculosis | | | | | | Total | |
| | No history of prior treatment | | History of prior treatment | | History of prior treatment unknown | | | |
| | n | % | n | % | n | % | n | % |
| Positive | 352 | 65.9 | 114 | 67.9 | 13 | 54.2 | 479 | 66.0 |
| Negative | 182 | 34.1 | 54 | 32.1 | 11 | 45.8 | 247 | 34.0 |
| Total | 534 | 100.0 | 168 | 100.0 | 24 | 100.0 | 726 | 100.0 |
| | Drug resistance | | | | | | Total | |
| | Fully susceptible | | Any resistance | | MDR | | | |
| | n | % | n | % | n | % | n | % |
| Positive | 431 | 66.5 | 48 | 61.5 | 16 | 64.0 | 479 | 66.0 |
| Negative | 217 | 33.5 | 30 | 38.5 | 9 | 36.0 | 247 | 34.0 |
| Total | 648 | 100.0 | 78 | 100.0 | 25 | 100.0 | 726 | 100.0 |

**Table 12. HIV status of confirmed tuberculosis patients by gender, previous treatment and drug resistance (n = 411)
National survey of tuberculosis drug resistance in the Western Cape, 2001 – 2002**

| HIV status | Gender | | | | | | | |
|-----------------|--|--------------|----------------------------|--------------|------------------------------------|--------------|------------|--------------|
| | Male | | Female | | Total | | | |
| | n | % | n | % | n | % | | |
| Positive | 75 | 26.1 | 41 | 33.1 | 116 | 28.2 | | |
| Negative | 212 | 73.9 | 83 | 66.9 | 295 | 71.8 | | |
| Total | 287 | 100.0 | 124 | 100.0 | 411 | 100.0 | | |
| | Previous treatment for tuberculosis | | | | | | | |
| | No history of prior treatment | | History of prior treatment | | History of prior treatment unknown | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 74 | 28.1 | 41 | 28.3 | 1 | 33.3 | 116 | 28.2 |
| Negative | 189 | 71.9 | 104 | 71.7 | 2 | 66.7 | 295 | 71.8 |
| Total | 263 | 100.0 | 145 | 100.0 | 3 | 100.0 | 411 | 100.0 |
| | Drug resistance | | | | | | | |
| | Fully susceptible | | Any resistance | | MDR | | Total | |
| | n | % | n | % | n | % | n | % |
| Positive | 106 | 27.7 | 10 | 34.5 | 2 | 22.2 | 116 | 28.2 |
| Negative | 276 | 72.3 | 19 | 65.5 | 7 | 77.8 | 295 | 71.8 |
| Total | 382 | 100.0 | 29 | 100.0 | 9 | 100.0 | 411 | 100.0 |