NATIONAL TUBERCULOSIS PROGRAMME MYANMAR

ANNUAL REPORT 2009

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Abbreviations

ACSM Advocacy communication and social mobilization

AD Assistant Director

AFB Acid Fast Bacilli

AIDS Acquired Immunodeficiency Syndrome

ARTI Annual Risk of Tuberculosis Infection

AZG ARTSEN ZONDER GRENZEN

BCG Bacille Calmette Guerin

BHS Basic Health Staff

CDR Case detection rate

CNR Case notification rate

DD Deputy Director

DOH Department of Health

DOT Directly Observed Treatment

DOTS Directly Observed Treatment Short Course

DRS Drug resistant survey

DST Drug Sensitivity Testing

ELISA Enzyme-Linked Immuno -solvent Assay

EPI Expanded Programme of Immunization

EMB Ethambutol

EQA External Quality Assessment

FDC Fixed-dose combination

GDF Global Drug Facility

GLC Green Light Committee

GPs General Practitioners

HIV Human Immunodeficiency Virus

HA Health Assistant

IEC Information, Education, Communication

IHC Integrated HIV Care

INH Isoniazid

IOM Information, Education, Communication

IPT Isoniazid Preventive Therapy

IUALTD International Union Against Tuberculosis and Lung Disease

JATA Japan Anti-Tuberculosis Association

JICA Japan International Cooperation Agency

KAP Knowledge Attitude and Practice

LHV Lady Health Visitor

LQAS Lot Quality Assurance Sampling

MDR-TB Multi-Drug Resistant Tuberculosis

MDGs Millennium Development Goals

MMA Myanmar Medical Association

MMCWA Myanmar Maternal and Child Welfare Association

MO Medical Officer

MOH Ministry of Health

MWAF Myanmar Women Affairs Federation

MRCS Myanmar Red Cross Society

MRTV Myanmar Radio and Television

MS Medical Superintendent

MSF Medecins Sans Frontieres

MWs Midwives

NAP National AIDS Programme

NGOs Non Governmental Organization

NHL National Health Laboratory

NTP National Tuberculosis Programme

NTRL National Tuberculosis Reference Laboratory

OI Opportunistic infection

PHS II Public Health Supervisor II

PP Private Practitioner

PSI Population Services International

QC Quality Control

RHC Rural Health Centre

RIT Research Institute of Tuberculosis

RMP Rifampicin

SCC Short Course Chemotherapy

SM Streptomycin

SOP Standard Operating Procedure

S/RTO State/Regional TB Officer

STI Sexually Transmitted Infection

STLS Senior Tuberculosis Laboratory Supervisor

TB Tuberculosis

TL Team leader

TOT Training of Trainers

TSG Technical Strategic Group

TSR Treatment Success Rate

TMOs Township Medical Officers

TV Television

UTI Union Tuberculosis Institute

VCCT Voluntary Confidential Counseling and HIV Testing

WHO World Health Organization

XDR-TB Extensively Drug Resistant Tuberculosis

3DF Three Diseases Fund

NATIONAL TUBERCULOSIS PROGRAMME ANNUAL REPORT (2009)

1. Introduction

Tuberculosis (TB) is one of the major public health problems in Myanmar. Annual Risk of Tuberculosis Infection (ARTI) was 1.66% (83/100,000 population were sputum smear positive) according to the findings of tuberculin survey conducted in 1972. Sputum positive point prevalence was 104/100,000 population according to Nation-wide survey carried out in 1994. World Health Organization (WHO) estimates the ARTI as 1.5%.

National Tuberculosis Programme (NTP) has been established since 1966. NTP is running with 14 State and Divisional TB Centers with (101) TB teams at district and township levels in 2009.

TB control activities have been integrated with Primary Health Care since 1978. The standard regimen containing injection Streptomycin and Isoniazid was replaced with Short Course Chemotherapy and introduced in 18 townships and 8 State and Divisional TB Centers in 1994. NTP rapidly expanded the townships up to 144 townships in 1995, another 9 townships in 1996 (total 153 townships) and no further expansion in 1997 and 1998. In 1997, NTP adopted WHO recommended Directly Observed Treatment Short Course (DOTS) strategy. In 1999, NTP covered 64.9% of country population in 168 townships and implementing DOTS strategy through primary health care approach, in co-ordination with the other governmental sectors and non governmental organizations such as Myanmar Women Affairs Federation (MWAF), Myanmar Maternal and Child Welfare Association (MMCWA), Myanmar Medical Association (MMA) and Myanmar Red Cross Society (MRCS) etc. In 2000, DOTS coverage extended up to 71% (covered 231 out of 324 townships). In 2001, NTP covered 259 townships (80% out of total townships) and covered 90% of population. In 2002, NTP covered 310 townships (95.7% of total townships) and 95% of population. All 325 townships were covered with DOTS strategy (100%) coverage) since the end of 2003.

TB control activities were implemented according to 5-year National TB Strategic Plan and 'Stop TB Strategy' to achieve the global targets within the framework of Millennium Development Goals (MDGs). This annual report aims to record the Myanmar TB situation and to evaluate strength, weakness, opportunity and threat, challenges to overcome for the better achievement.

2. Objectives of NTP

2.1 General objectives

- To reduce the mortality, morbidity and transmission of TB, until it is no longer a public health problem (2050)
- To prevent the development of drug resistant TB
- To have halted by 2015 and begun to reverse incidence of TB

2.2 Specific Objectives

The objectives are set towards achieving the MDGs, 2015.

- To reach the interim targets of halving TB deaths and prevalence by 2015 from the 1990 situation. (MDGs, Goal 6, Target 6.C, Indicator 6.9)
- To reach and thereafter sustain the targets achieving at least 70% case detection and successfully treat at least 85% of detected TB cases under DOTS (MDGs, Goal 6, Target 6.C, Indicator 6.10)

3. Progress of the Stop TB Strategy

The Stop TB Strategy, which was recommended by WHO in 2006 has been initiated in Myanmar since 2007 to achieve the MDGs, 2015.

Activities as planned in 5-Year National Strategic Plan for TB Control (2006-2010) are reviewed and revised to be in line with National Health Plan, new Stop TB Strategy and global plan and drafted the second 5-year National Strategic Plan (2011-2015).

The (2006-2010) plan has being implemented with the support of the government and funding from (WHO, Global Drug Facility (GDF), International facility for the purchase of drugs and laboratory commodities for HIV/AIDS, malaria and tuberculosis (UNITAID), Japan International Cooperation Agency (JICA), Global Fund, Three Diseases Fund (3DF), Japan Anti-TB Association (JATA), United States Agency for International Development (USAID) and Union.

There are <u>6 components</u> in the **Stop TB strategy**:

- 1. Pursuing high quality DOTS expansion and enhancement
- 2. Addressing TB/HIV, MDR-TB and other challenges
- 3. Contributing to health system strengthening
- 4. Engaging all care providers
- 5. Empowering patients and communities
- 6. Enabling and promoting research

NTP Myanmar is implementing those components and achieved global TB control targets in 2006 and maintained up to now.

(1) Pursue high-quality DOTS expansion and enhancement

NTP, Myanmar ensures the quality of the 5 components of the DOTS strategy. The government increased the budget for TB control gradually. Case finding activities have been improved by introduction of EQAS (External Quality Assurance System) since 2006. NTP is taking a step to decentralize DOTS unit or microscopy center up to some of the Station Hospitals with quality assurance system. The case finding activities were improved by means of mobile teams, sputum collection points, initial home visit and contact tracing. TB patients are treated with WHO recommended treatment regimens using Fixed Dose Combination (FDC) of first line anti-TB drugs and Patient's kit under close supervision of Basic Health Staff (BHS). The drugs and supplies could be distributed according to schedule without interruption. GDF supports first line anti-TB drugs since 2002 till 2008. Exceptionally, GDF continued the support for one year requirement of the country for 2009 while NTP develop the transitional and sustainability plan for uninterrupted anti-TB drug supplies for the country exceptionally.

The pre-packed patient kit for Category I and III patients was introduced in 2007 in 38 townships and covered the whole country with Cat I & III patient kits since 1st quarter of 2010 with the support of Three Diseases Fund (3DF). The Japan's Grant Aid (JGA) will provide the first line anti-TB drugs to fill up the critical gap for 2011. The first line anti-TB drugs will be secured for 4 years from 2012 to 2015 by Global Fund Round 9.

NTP strengthened the program management and supervision activities. Computerized reporting system was introduced with the support of WHO. Standard Operating Procedure (SOP) for drug and supplies management, laboratory external

quality assurance system and guideline for childhood TB management, multi-drug resistant TB (MDR-TB) management were developed. Related trainings for drug and supplies management, laboratory EQA system, childhood TB management and MDR-TB management were provided.

Case holding system was improved by introducing innovative activities: quarterly cohort review meeting and quarterly review meeting at low performance townships with high defaulter rate and counseling training for TB Co-ordinators.

Partner's involvement in Public-Public Mix DOTS (PPM) and Public-Private Mix (PPM) DOTS could enhance the NTP's case finding. The expansion of EQA townships was carried out in phase wise manner and tried to cover private laboratories doing sputum microscopy for AFB.



H.E Professor Kyaw Myint, Minister for Health, supervised Upper Myanmar TB Laboratory for improving diagnosis of TB

(2) Address TB/HIV, MDR-TB and other challenges

Human Immuno Deficiency Virus (HIV) co-infection rate for TB patients was provided by National AIDS Programme (NAP) from routine HIV Sentinel Surveillance. HIV sero-positive among new TB patients is 9.15% in 15 sentinel sites in 2009.

Guideline for TB-HIV collaborative activities was developed in 2000 and updated. TB/HIV collaborative activities are conducting with 2 models. One is an Integrated HIV Care for TB patients project (IHC) in collaboration with UNION, funded by Total (Yadana) Oil Company, NAP and NTP. IHC project was started with 5 townships (5 townships in Mandalay district, Mandalay Division) in 2005 and expanded to Patheingyi and Amarapura townships in Mandalay District/Division and Pakkoku township in Magway Division in 2007.

The other model as a minimum package of TB/HIV interim policy and activities is implementing in the area where NAP could provide ART. The technical assistance is provided by WHO. This model is implementing in Myitkyina (Kachin State), Taunggyi (Southern Shan State) and Lashio (Northern Shan State), where Voluntary Confidential Counseling and HIV testing (VCCT) service is providing in TB clinics as well as Co-trimoxazole Preventive Therapy (CPT). NTP and NAP in collaboration with UNION, planned to expand the comprehensive HIV care services to Taunggyi and Lashio townships in 2010 with 3DF funding. Isoniazid Preventive Therapy (IPT) pilot project was implemented in 2009 in collaborative with NAP with the technical support of WHO.

MDR-TB among new and previously treated patients was 4% and 15.5% respectively (2002-03) from country wide drug resistant-TB survey. The second national drug resistant TB survey was conducted in 2007 and results showed 4.2% and 10% of new and previously treatment TB patients were MDR-TB respectively.

The study on drug resistant patterns of Category II failure patients was conducted for the formulation of drug resistant-TB treatment regimen for pilot project. National guideline for management of drug-resistant TB was developed and applied to Green Light Committee (GLC) for second line anti-TB drugs for MDR-TB management in 2007 and approved in 2008.

The MDR-TB management pilot project includes 5 townships each from Yangon Division (Hlaing, Hlaingthayar, Shwepyitha, Insein and Mayangone) and Mandalay Division (Aungmyaythazan, Chanmyathazi, Chanayethazan, Mahaaungmyay and Pyigyitagon). The clinical management of MDR-TB (DR-TB) patients is based at 2 TB hospitals (Aungsan and Patheingyi). DOTS-PLUS pilot project was launched in July, 2009.

TB control activities have been conducted, collaborating with responsible persons from prisons at all levels.

Special activities were set at the Myanmar-Thailand border for improvement of TB control in border area: Myawaddy in Kayin State, Tachileik in Shan State (East) and Kawthaung in Tanintharyi Division. Meeting for proposal development of cross border health activities was held at Tachileik, Shan (East) in July, 2009.

Table 1. TB/HIV collaborative activities (2009)

| | Mandalay 7 townships | Myitkyina township | Taunggyi township | Lashio township | Pakkoku township | Total |
|--|-------------------------|-----------------------|----------------------|--------------------|---------------------|-------|
| No. of registered TB patients (>14 years) | 2991 | 1043 | 499 | 520 | 460 | 5513 |
| No. of VCCT accepted & HIV tested | 2712 | 483 | 301 | 299 | 379 | 4174 |
| % of VCCT tested | 91% | 46% | 60% | 58% | 82% | 76% |
| No. of HIV sero positive among tested | 803 | 91 | 40 | 21 | 60 | 1015 |
| % of HIV positive among tested TB patients | 30% | 19% | 13% | 7% | 16% | 24% |
| No. of TB/HIV patients started on CPT | 873 | 90 | 60 | 23 | 64 | 1100* |
| No. of TB/HIV patients started on ART | 549 | 14 | 0 | 0 | 45 | 608 |

^{*} No. of patients on CPT is more than HIV positive detected was due to some patients who tested and positive from other places were included.

Table 1 shows VCCT service provided in TB clinics of 11 townships and about 24% of TB patients above 14 years were HIV positive. Only 12% of the registered HIV positive cases had been referred for TB screening and 44% of referred cases were put on anti-TB treatment. However, the recording and reporting is needed to be improved in this area.

(3) Contribute to health system strengthening

It is cross cutting with other projects. NTP organization structure was expanded as necessary. There was only 7 State/Divisional TB Centers in 1982 and expanded to 14 State/Divisional TB centers in 2007 and covering the 17 States and Divisions. In line with the human resource development plan, NTP is conducting several trainings on "Management of TB at district level" for Township Medical Officer (TMOs), TB Team Leaders and TB coordinators, "Management of TB for Health Facility Staff" for BHS, "Leadership and Management" Training for Township Medical Officers (TMO) and TB team leaders, "Pre-packed patient kit training" for TMO and TB coordinators, new recruit training for sputum smear AFB microscopy and EQA training for laboratory supervisors.

All the township laboratories were equipped with binocular microscopes and sputum microscopy centers were expanded to some station health Units. The facility for culture and drug susceptibility testing (DST) was upgraded in Upper Myanmar TB Laboratory, Mandalay with the support of FIND, USAID, 3DF and UNION.

(4) Engage all care providers

Public-Private Mix DOTS is implementing with Myanmar Medical Association (MMA), Population Services International (PSI) and JICA, Major Infectious Diseases Control Project (MIDCP). Some Private Practitioners (PPs) use the scheme I which educate about TB and refer the TB suspected patients to TB center. Some PPs prefer to use the scheme II, act as a DOT provider. PSI organizes the PPs and running the "Sun Quality Clinics" as a DOT unit. Majority of Private hospitals are not involved under PPM-DOTS schemes yet.

PSI is implementing PPM-DOTS in 145 townships with 136 accredited laboratories (36 private lab. and 100 public lab.). Total (623) PPs are implementing Scheme III.

MMA is implementing mostly scheme I in 26 townships after provision of training to 698 PPs. Public-Private-Mix (MMA, PPM-DOTS project) is implementing DOTS at 698 clinics in 26 townships by using 41 public laboratories and 7 private laboratories. There were total (98) PPs, implementing scheme III.

JICA supported for Scheme I implementation in the MIDC project area which were North Okkalapa and Tarmwe townships in Yangon Division and Pyinoolwin and Pyigyitagon townships in Mandalay division were absorbed by MMA by the end of 2009.

International Organization for Migration (IOM) is implementing PPM-DOTS in 6 townships in Mon State with 6 accredited public laboratories.

Myanmar Maternal and Child Welfare Association (MMCWA) is one of the organizations which involve as a care provider. About 33% of TB patients were directly observed by members of MMCWA.

MRCS trained their members to take part in TB suspected patients referral, case holding as DOT providers and defaulter tracing.

Malteser International trained community volunteers for TB/HIV prevention and control activities in Buthedaung and Maungtaw townships of Rakhine State.

AZG (MSF-Holland) has been implementing DOTS strategy especially for management of TB/HIV co-infected patients. AZG covers patient support and incentives since 2004. AZG was one and only partner involving in preparation of MDR-TB management and implementation of DOTS-PLUS pilot project.

Pact Myanmar trained community volunteers and Advocacy Communication and Social Mobilization activities are conducted for community awareness.

Public-Public Mix DOTS is implementing in 4 hospitals (New Yangon General Hospital (YGH), Thingungyun Sanpya General Hospital, East Yangon General Hospital, West Yangon General Hospital. ISTC (International Standards for TB Care) has been introduced in 2009.

NTP is also coordinating with hospitals under Ministry of Defense, Ministry of Labor, Ministry of Home Affairs and Ministry of Railway.

(5) Empower people with TB and communities

People with TB are not yet organized for their involvement in TB control. JATA supported activities to involve registered TB patients in TB control was started in 6 townships in 2008. TB registered patients served as informers in the communities and referring the TB suspected patients to TB centers for diagnosis.

NTP has conducted nationwide Knowledge, Attitude and Practice (KAP) survey to explore the knowledge, attitude and practice of communities related to TB. Based on the findings of KAP survey, NTP will develop the appropriate Advocacy, Communication and Social Mobilization (ACSM) strategy for the country.

NTP has conducted World TB Day/Week commemoration ceremony and activities every year since 1996. Community involvement was strengthened by providing training for DOT provider who is identified from community volunteers and local NGO members. MMA also trained DOT providers selected from community.

(6) Enable and promote research

Preparation for National TB prevalence survey was carried out in early 2009 and survey was conducted since June 2009, started from Meikhtila Cluster. Total (70) clusters were to be conducted up to April 2010 with funding supports of MOH, WHO, 3DF, JICA, JATA, USAID/PSI, Bill and Melinda gates foundation. Operational researches depending on the problems are conducted as necessary in collaboration with Department of Medical Research and academic Institutions.





National TB Prevalence Survey conducted at Kyu Inn Village (Phyu Township) and Kyaik Kaw Village (Tha Hton Township)

4. Activities of NTP

- 1. Intensification of health education by using multi-media to increase community awareness about TB
- 2. BCG immunization to all children under one year
- 3. Implementing Directly Observed Treatment (DOT) up to grass-root level
- 4. Early case detection through direct sputum microscopy of chest symptomatic patients attending health services and contact tracing
- 5. Regular supervision and monitoring of NTP activities at all levels
- 6. Strengthening partnership
- 7. Capacity building
- 8. Promotion of operational research

Above activities were adopted in National Strategic Plan for TB control (2006-2010). Those activities are reviewed and revised in National Strategic Plan for (2011-2015) to be in line with the National Health Plan and new STOP TB STRATEGY as WHO recommended. It was drafted in 2008 together with implementing partners with the technical assistance of WHO, reviewed and revised the plan with partners in several meetings of Technical Strategic Group (TSG) and applied for Global Fund Round 9.

4.1 Health education

4.1.1 IEC materials dissemination

Community awareness concerning TB was accelerated through promoting health education sessions and conducting advocacy meetings at all levels. The IEC materials: pamphlets (50,000), TB billboards (52), posters (20,000) and World TB Day Tool kits (500) were produced and distributed through state/divisional TB centers to all townships up to grass-root level.

4.1.2 World TB Day and week activities, 2009

World TB Day commemoration ceremony was held on 24.3.2009 at central and at all States and Divisions with the support of WHO. In 2009, 28 townships held World TB Day commemoration ceremony with their own effort was reported. The Slogan for the year 2009 was "I am stopping TB". (wb Diffirfur hwpt of the whole wife whole who was an advantage.





World TB Day commemoration ceremony (2009)

World TB Week activities (2009)





The central level World TB Day commemorative ceremony was carried out on 24th March, 2009 at the Assembly Hall of Ministry of Health, Nay Pyi Taw. Professor Dr. Mya Oo, Deputy Minister for Health, Ministry of Health delivered the opening speech and Professor Adik Wibowo, WHO Representative to Myanmar, read out the message from the Regional Director of WHO South East Asia Region. The mini exhibitions were presented by NTP, JICA, PSI and MMA. 450 invitees from MOH, DOH, other ministries, WHO and UN agencies and implementing partners attended the ceremony.

The main activities carried out during World TB week were funded by MOH, 3DF and WHO (RB).

- Community based activities such as health education talk about TB at township level up to Rural Health Centers (RHCs) were carried out by BHS. The activity was followed by identification of TB suspects, referral to the Township TB Diagnostic centre, contact tracing and missed dose tracing in their responsible area.
- 2) Dissemination of knowledge about TB was given through mass media: television, news papers and journals. Health education programme as discussion session, interviews with Myanmar Radio and Television (MRTV) and Myawaddy televisions were broadcasted.
- 3) Mobile team activities including health talks during World TB Week were conducted in all States/Divisions.

As a contribution from implementing partners: MIDCP (JICA) supported (20,000) Posters, and World Vision International provided (35) Billboards and (20,000) Pamphlets for NTP. As World TB Week activities, International Organization for Migration (IOM) conducted the active case finding with mobile unit in their functioning area. Pact Myanmar also disseminated the TB information through their out reach workers in Kyaukpadaung, Nyaung U, Magway and Chauk townships. MMA organized the World TB Day ceremony in 26 townships implementing PPM-DOTS. MRCS provided 100 stickers, 100 ballpens, towels, soaps, vitamins and nutrition supports. NTP provided 30,000 Pamphlets and 17 Billboards.

4.2 BCG immunization

BCG immunization started in 1951 to those who were tuberculin test negative. In 1963, Freeze Dried BCG Vaccine was introduced and direct BCG vaccination has been implemented since 1969. BCG Vaccination has been integrated into Expanded Programme on Immunization (EPI) and the BCG team of NTP has been integrated into State and Divisional Health Department since 1978. The BCG technicians and BCG supervisors are responsible for training of BHS, supervision and evaluation on immunization activities of BHS in each and every State and Division. BCG coverage increased from 76% in 2005 to 93% in 2009. (Source: EPI programme)

Table 2. BCG coverage (2005-2009)

| State/Division | 2005 | 2006 | 2007 | 2008 | 2009 |
|-------------------------|------|------|------|------|------|
| Ayeyarwaddy Division | 75% | 64% | 85% | 84% | 92% |
| Bago Division (East) | 74% | 81% | 89% | 94% | 95% |
| Bago Division (West) | 90% | 90% | 94% | 86% | 95% |
| Chin State | 99% | 119% | 93% | 63% | 79% |
| Kachin State | 89% | 108% | 95% | 89% | 95% |
| Kayah State | 81% | 83% | 83% | 96% | 94% |
| Kayin State | 60% | 63% | 85% | 85% | 82% |
| Magway Division | 85% | 89% | 90% | 92% | 93% |
| Mandalay Division | 68% | 75% | 86% | 77% | 94% |
| Mon State | 86% | 80% | 94% | 92% | 96% |
| Rakhine State | 106% | 76% | 92% | 107% | 96% |
| Sagaing Division | 88% | 83% | 91% | 94% | 94% |
| Shan State (East) | 42% | 38% | 85% | 83% | 89% |
| Shan State (North) | 60% | 68% | 70% | 75% | 86% |
| Shan State (South) | 84% | 71% | 83% | 83% | 86% |
| Taninthayi Division | 93% | 91% | 97% | 97% | 97% |
| Yangon Division | 61% | 65% | 94% | 92% | 98% |
| Union | 76% | 76% | 89% | 89% | 93% |

Data source: EPI

4.3. Case detection

WHO estimated the Annual Risk of Tuberculosis Infection (ARTI) for Myanmar as 1.5%. The TB prevalence survey conducted in Yangon Division (2006) showed 229/100,000 population. The incidence was estimated as 171/100,000 population which is 2.26 times higher than the current estimates using for all townships. The national estimate was based on the smear positive national TB prevalence survey conducted in 1994 (104/100,000 population). Therefore, the national estimates should be revised after the technically sound national TB prevalence survey, which was conducted in 2009.

The Case Detection Rate (CDR) of new smear positive cases for 2009 was 95%. 16% of detected new sputum smear positive cases and 17.3% of all TB cases were contributed by other reporting unit apart from NTP. Private sector through franchising approach of PSI contributed 13% of new smear positive TB cases and 11.4% of all TB cases notified to NTP. MMA contributed 1.3% and 1.3% new smear positive and all TB cases reported to NTP respectively. AZG contributed 1.2% of new smear positive cases and 1.5% of all reported TB patients to NTP. Hospitals contributed 1.6% and 2.8% of new smear positive and all TB cases reported to NTP respectively.





Active case finding using mobile team

Passive case finding is carried out in the DOTS townships. Chest symptomatic TB suspects from community are referred to the microscopy centers for sputum microscopy. Sputum smear microscopy plays an important role in NTP not only for diagnosis of TB but also to monitor the progress of TB patients during treatment and to determine the cure of TB patients at the end of treatment. Active case finding using mobile teams are also conducted as World TB Week activities.

The diagnosis for TB is mainly done by sputum smear microscopy. Sputum Culture is available only at National TB Reference Laboratory (NTRL, Yangon) and Upper Myanmar TB Laboratory (Mandalay). NTRL could perform Drug Susceptibility Testing (DST) since 2001. After that, new DST laboratory was established at Mandalay in 2008-2009. Essential preparations for DOTS - Plus Project, Nationwide Drug Resistant Survey and National TB prevalence survey were carried out. Case finding activities are strengthened by radiological examination. All State and Divisional TB Centers except Eastern Shan, Kayin and Kayah State, have the X-ray facility. The miniature X-ray machine was installed at each Tuberculosis Diagnostic and referral Centers (one each in Latha TB Diagnostic Center, Union Tuberculosis Institute-Aung San) and the other in Mandalay General Hospital Compound).

4.4. Laboratory performance

Routinely three sputum specimens are collected for the diagnosis and two specimens are collected for follow-up in all laboratories performing sputum AFB microscopy. Ziehl-Neelsen (ZN) staining was being used in all TB laboratories and Fluorescence microscopy was being used only in Latha and Aung San TB diagnostic and referral centers and Mandalay (Patheingyi) diagnostic and referral center, with high workload. Township laboratory performances are closely monitored by township medical officer and team leader. The AFB microscopy work performed at State and Division are monitored by State and Divisional TB officers, Microbiologists and Senior TB Laboratory Supervisors (STLS).

Maintaining the quality of AFB Microscopy

In 1999, the NTP developed the framework for the implementation of quality assessment activities using conventional method in which all positive slides and 10% of the negative slides examined were checked. This method induced the increased workload for NTRL and State and Divisional TB Laboratories.

After a pilot study of External Quality Assessment on Lot Quality Assurance System (EQA-LQAS) at Yangon and Mandalay Division, workshops and trainings were given to (20) STLS assigned by Ministry of Health to reinforce this work. The National Guidelines on EQA-LQAS for AFB Microscopy was developed in October 2007 and orientation training was given in February, 2008 to State/Divisional TB Officers, Pathologist/Laboratory Officers from State and Divisional Hospitals and STLS for proper random selection of six slides per month and send to State and Divisional TB Centers for blinded re-checking. Timely reporting to peripheral laboratories and supervisory visits for corrective actions are also important components of this new EQA system. Supervisory visits to State and Divisional TB laboratories are done by Microbiologists once a year. The quarterly supervisory visits are conducted by STLSs. For places showing major errors, either Microbiologists or responsible STLSs must visit those sites.

Laboratory of Mandalay Divisional TB Centre took responsibility for EQA of Kachin State, Sagaing, Magway and Mandalay Divisions. In 2007, those states/divisions took their responsibilities themselves. Feed-back together with comments were sent back from State/Divisional level to township level. Quarterly reports of EQA from all state/divisional TB centers submit to central NTP and copy to Consultant Microbilogist. The INGOs (PSI, AZG and IOM) laboratories performing AFB Microscopy also sent QC slides to either Lower or Upper Myanmar TB laboratories.

Panel slides were sent to State and Divisional TB centers and Hospitals twice a year from National Health Laboratory (NHL) / NTP. Training for newly recruited STLS (5 days) and refresher training for existing STLS (3 days) were provided. For quality performance, of sputum AFB microscopy (5 days) trainings were given to laboratory technicians when they start their job and sputum AFB microscopy (3 days) refresher trainings were given to technicians once in 3 years service. TB laboratory annual evaluation meeting was conducted once a year.

EQA system was successfully established with the technical and financial support of JICA (MIDCP). New EQA has been introduced in 2007 at 53 townships, 2 hospitals and 1 diagnostic and referral center of Yangon, Mandalay, Magway, Bago Division (East), Ayeyarwaddy, Shan State (South) and Mon/Kayin State. EQA expanded to 325 townships in 2008 after orientation training by using the National Guidelines on EQA-LQAS for AFB Microscopy. Technicians from State/Divisional TB centers or Medical Technologists or Laboratory Officers from the State/Divisional General Hospital laboratories are responsible for quality control (QC). Pyapon, Kyaiklatt, Daydaye, Nyaungdone and Bogalay townships of Ayeyarwaddy division sent QC slides directly to National TB Reference Laboratory (NTRL) for their convenience sake. The eastern shan state can not perform EQA due to transfer of STLS.

The quality control results of the whole country were much better if compared to 2008 except Kachin State which decreased down to 92.3% concordance. The concordance of quality control result of Union was (98.3%).

Among errors, **67.4% (246/ 365) of errors were false negative.** It indicated the regular supervisions of STLS and Microbiologists are still needed to closely monitor and visit townships with major errors in time for corrective actions. On-the-job training on sputum AFB microscopy should be provided. In some cases, refresher training on sputum smear microscopy will be needed.





Conducting refresher and EQA training on sputum AFB microscopy

Table 3. Quality Assessment done by National TB Reference Laboratory, Upper Myanmar TB Laboratory and State and Divisional TB Laboratories in (2009)

| State/ | Place where Quality Assessment | No. of | No. of slides received | | lides exa | Concordance | |
|------------------|--------------------------------------|------------|------------------------|--------------|-----------|-------------|------|
| Division | done | Township | received | True | Fals | se | |
| | | | Total | all (+/-) | (+)ve | (-)ve | |
| | at NTRL | 5 | 108 | 108 | 0 | 0 | 100 |
| Tanintharyi | at Divisional level | 9 | 368 | 367 | 1 | 0 | 99.7 |
| | Tota | | 476 | 475 | 1 | 0 | 99.8 |
| | at NTRL | 3 | 204 | 204 | 0 | 0 | 100 |
| Ayeyarwady | at Divisional level | 26 | 1852 | 1828 | 5 | 19 | 98.7 |
| | Tota | | 2056 | 2032 | 5 | 19 | 98.8 |
| | At NTRL | 8 | 1074 | 1052 | 5 | 17 | 97.9 |
| Bago (West) | at Divisional level | 6 | 954 | 942 | 1 | 11 | 98.7 |
| | Tota | | 2028 | 1994 | 6 | 28 | 98.3 |
| | at NTRL | 1 | 36 | 36 | 0 | 0 | 100 |
| Magway | at Divisional level | 25 | 1800 | 1799 | - | 1 | 99.9 |
| | Total | | 1836 | 1835 | 0 | 1 | 99.9 |
| Yangon | at NTRL | 49 sites * | 2714 | 2664 | 16 | 34 | |
| Kayah | at State level | 6 | 230 | 230 | | - | 100 |
| Rakhine | at State level | 14 | 1224 | 1223 | - | 1 | 99.9 |
| Mon | at State level | 10 | 648 | 647 | 1 | - | 99.8 |
| Kayin | at State level | 7 | 432 | 431 | - | 1 | 99.7 |
| Shan(North) | at State level | 12 | 682 | 677 | - | 5 | 99.2 |
| Shan (South) | at State level | 21 | 1219 | 1207 | 2 | 10 | 99.0 |
| Sagaing and Chin | at Divisional level | 36 | 2573 | 2499 | 37 | 37 | 98.6 |
| Bago (East) | at Divisional level | 15 | 983 | 963 | 2 | 18 | 97.9 |
| Mandalay | at Upper Myanmar TB Lab | 39 | 2742 | 2682 | 6 | 54 | 97.8 |
| Kachin | at State level | 17 | 1054 | 973 | 43 | 38 | 92.3 |
| Shan (East) | at State level | Not done | - | - | - | | |
| To | otal | 309 | 20897 | 20532 | 119 | 246 | 98.3 |

 ⁴⁹ sites = 35 townships, 1 Station Hospital, 8 General Hospitals, 2 Diagnostic centers, 3 partners (AZG, PSI, Insein Jail)

[•] Private Laboratories under EQA = 61 (PSI=42, AZG=12, IOM=7)

Sputum collection centers

NTP is intended to decentralize the sputum microscopy center to Station Hospitals. Due to lack of laboratory technician posts at peripheral areas, it is not possible to have microscopy services at all station hospitals. NTP identified and established sputum collection centers at rural health centers as the possible solution for this.

Case finding activities were strengthened by setting of sputum collection centers. In 2008, 30 Sputum Collection Centers functioning in 7 States and Divisions were funded by 3DF.

Advocacy meetings were conducted at Township level and one day training was provided to local Basic Health Staff including laboratory technician of selected Sputum Collection Centers. Materials such as table, chair, ice box, ice packs and stationery were supplied. Transportation cost was also reimbursed to assigned messengers who transported sputum specimens to township laboratories.

Table 4. Sputum collection centers established in (30) sites

| State/Division | Total | Sputum Collection Centers | | | |
|----------------------|-------|---------------------------|-------------------|--|--|
| State/Division | site | Township | SH / RHC | | |
| Yangon Division | 1 | Thanlyin | Thapyaykan RHC | | |
| Kayah State | 2 | Demawsoe | 6 miles RHC | | |
| | | Farusoe | Tawkhu RHC | | |
| Southern Shan State | 6 | Hopone | Namkote RHC | | |
| | | Ywangan | Myaing SHU | | |
| | | Loilem | Maingpon SHU | | |
| | | Namsam | Kholem RHC | | |
| | | Mongshu | Wunsawt RHC | | |
| | | Hsiseng | Naungmon RH | | |
| Magway Division | 2 | Taungtwingyi | Satthwar RHC | | |
| | | Pwintphyu | Mezali RHC | | |
| Ayeyarwaddy Division | 1 | Kyonpyaw, | Wegyi RHC | | |
| Mandalay Division | 3 | Patheingyi | Dahuttaw RHC | | |
| | | Patheingyi | Sinywagyi RHC | | |
| | | PyinOoLwin | Pyinsa RHC | | |
| Sagaing Division | 15 | Monywa | Nyaungphyupin SH | | |
| | | Minkin | Maukkataw RHC | | |
| | | Kyunhla | Miepinraung RHC | | |
| | | Banmauk | Kyaunglei SH | | |
| | | Htigyink | Ahletaw SH | | |
| | | Myinmu | Tawchaung SH | | |
| | | Wetlet | Moaksoe chone RHC | | |
| | | Taze | Ywama RHC | | |
| | | Khamti | Kaungmein SH | | |
| | | Wuntho | Gyoetaung SH | | |
| | | Pinlebu | Michaung inn SH | | |
| | | Pale | Chinpyit RHC | | |
| | | Kalaywa | Thetkaikyin RHC | | |
| | | Mawleik | Panbar RHC | | |
| | | Ahyardaw | Maleba SH | | |
| Total | 30 | 29 | 30 | | |

The performance report received at the central NTP was very limited for the Year 2 of 3DF. About 7.6% (10/131) of TB suspected cases reported to central NTP were sputum smear positive and put on anti-TB treatment. This innovative activities needs to evaluate thoroughly on its effectiveness and efficiency. Therefore, annual review meeting on sputum collection centers was conducted in Mandalay on 9.8.2009. It could cover 14% of total population in Sputum Collection Centers assessed. 12% of TB suspects were contributed by Sputum Collection Centers. Sputum positivity rate by Sputum Collection Centers was low (14%) while compared with township level (16%). Early cases might be detected by Sputum Collection Centers because low sputum AFB grading cases were detected by Sputum Collection Centers. High infectious cases can be reduced by Sputum Collection Centers. In both sex, older age group were more utilized on Sputum Collection Centers. It was found that female proportion is higher than male proportion in utilizing Sputum Collection Centers. Gender issue can be explored by Sputum Collection Centers.

Human resource situation in TB laboratories

The human resource at the NTRL and Upper Myanmar TB Laboratory is limited to be able to perform the culture and DST work, quality check, supportive supervisory visits and training as necessary. The NTRL and Upper Myanmar TB Laboratory of Mandalay will need additionals 15 laboratory technicians. Those people will be responsible for the routine laboratory work, culture, drug susceptibility testing (DST), quality control (QC) doing the rapid diagnostic tests and the research.

State and Divisional TB Laboratories: Sittwe, Monywa, Myeik, Lashio, Magway, Kyaingtong, Myitkyina and Loikaw have no sanction posts for a Grade I laboratory technician. All State and Divisional level TB laboratories should be appointed at least one Grade I and II laboratory technicians. Those townships with TB team have one Grade II laboratory technician. Townships without TB team use a laboratory technician either from NTP or general health services/ township hospital for sputum for AFB microscopy.

For easy accessibility of TB suspects and follow-up patients for sputum examination, expansion of TB Microscopy services is suggested. Public Health Supervisors II (PHS II) or natives (10th. Standard passed) from that place should be trained for sputum AFB Microscopy. NTP is preparing to establish new diagnostic tools for TB diagnosis at NTRL and Mandalay with support of FIND in 2009.



STLS Training



Laboratory supervision

4.5. Treatment

In 2009, altogether 325 townships were implementing DOTS strategy.

Township Medical Officers (TMOs) and TB coordinators of DOTS townships take all the responsibilities of TB control activities. In townships with TB team, team leaders (Medical Officer or Health Assistant) are serving as TB coordinators and whereas there are no TB teams, Township Medical Officers or assigned health personnel are serving as TB coordinators.

For each and every patient, there is a DOT provider. DOT providers are selected either local BHS or Voluntary Health Workers or members of Non Governmental Organization (NGOs), especially MMCWA, MWAF, MRCS or family members of the TB patients. All BHS and some pre-selected NGO members are trained when the particular township started the DOTS strategy implementation. DOT providers from community could serve as close to the patient as possible to ensure that patient's adherence to the full course of treatment.

The treatment adherence is aimed to improve when NTP introduced 4-Fixed Dose Combination (FDC) in 2004. BHS are assigned as DOT supervisors and decentralization of the anti-TB drugs is strengthened. Pre-packed patient kits were introduced to 38 townships since 2007. The effective utilization of pre-packed patient kits was evaluated in 2009 for further expansion.

Pediatric formulation for management of TB in children was supported by UNITAID through GDF in 2007 and was distributed in 2008. Standard Operation Procedure for management of TB in children was developed and distributed to TMOs, TB coordinators and pediatricians in trainings at central / State/Divisional levels.







Pre-packed patient kit training

4.6. Supervision, monitoring and evaluation

4.6.1. Supervision and monitoring

State and Divisional TB Centers are led by State and Divisional TB Officers and they give technical support to the State and Divisional level, district and township level TB control activities. They also give training, on the job training, supervision, monitoring and feed back to improve the TB control activities for the achievement of the NTP's objectives at State and Divisional level. NTP activities are closely supervised by Central Supervisory Committee for prevention and control of TB chaired by Minister for Health, Ministry of Health.

Regular monitoring of patients' progress is carried out at every DOTS township. Desk top monitoring on case finding, sputum conversion and treatment outcomes through quarterly reports is carried out at all levels. Feed-back mechanism from top to bottom using quarterly assessment form is carried out.

Supervisory visits were conducted by Central/State/Divisional and District/Township level supervisors. Laboratory supervision was strengthened by recruiting STLS from general health services.

NTP could conduct 381 supervisory visits to district and township level and 479 visits to either station hospitals or RHC in 2009 with the support of WHO and 3DF. Microbiologists and STLS could supervise 33 townships with major errors according to feed back from laboratory EQA system.





Supervisory visits to township health centre

Table 5. Supervision from State/Divisional Level (2009)

| | Supervision from | | | | |
|-------|-------------------------|-------------|------------------|-----------------------|------------|
| Sr.No | State/ Divisional Level | To District | To township | To RHC/ Sub Center | Remark |
| 1 | Kachin State | 2 | 14 | 16 | |
| 2 | Kayah State | 2 | 6 | | |
| 3 | Chin(N) State | | 1 | | Tiddim |
| 4 | Chin(S) State | 1 | 3 | | |
| 5 | Sagaing Division | 4 | 15 | 3 | |
| 6 | Magway Division | 2 | 19 | 5 | |
| 7 | Mandalay Division | 4 | 15 | | |
| 8 | Shan (S) State | 2 | 12 | 4 | |
| 9 | Shan (E) State | 4 | 3 | | |
| 10 | Shan (N) State | 6 | 5 | 1 | |
| 11 | Kayin State | 3 | 2 | 1 | |
| 12 | Tanintharyi Division | 3 | 9 | 1 | |
| 13 | Bago (East) Division | 12 | 25 | 70 | |
| 14 | Bago (West) Division | 15 | 26 | 59 | |
| 15 | Mon State | 1 | 12 | 15 | |
| 16 | Rakhine State | 4 | 5 | 9 | |
| | | | 21+ 13 | | |
| 17 | Yangon Division | 4 | (Microbiologist) | | |
| 18 | Ayeyarwady Division | 4 | 14 | 6 | 2(Station) |
| | Total | 73 | 220 | 190 | |

Table 6. Supervision from District Level (2009)

| | Supervision from | No. of visits | | | | | |
|-------|----------------------|---------------|-----------------------|------------|--|--|--|
| Sr.No | District Level | To township | To RHC/ Sub Center | Remark | | | |
| 1 | Kachin State | 7 | 12 | | | | |
| 2 | Kayah State | 3 | 5 | | | | |
| 4 | Chin(S)State | | | | | | |
| 5 | Sagaing Division | 14 | 2 | | | | |
| 6 | Magway Division | 10 | 5 | | | | |
| 7 | Mandalay Division | | | | | | |
| 8 | Shan (S) State | 1 | 0 | | | | |
| 9 | Shan (E) State | 7 | 2 | | | | |
| 10 | Shan (N) State | 3 | | | | | |
| 11 | Kayin State | 1 | 1 | | | | |
| 12 | Tanintharyi Division | 3 | 3 | | | | |
| 13 | Bago (East) Division | 12 | 36 | | | | |
| 14 | Bago (West) Division | 12 | 36 | | | | |
| 15 | Mon State | 3 | 1 | | | | |
| 16 | Rakhine State | 8 | 19 | | | | |
| 17 | Yangon Division | no report | | | | | |
| 18 | Ayeyarwady Division | 4 | 4 | 2(Station) | | | |
| | Total | 88 | 126 | | | | |

Table 7. Supervision from Township Level (2009)

| Sr.No. | Supervision from Township | To RHC/ Sub Center |
|--------|------------------------------|-----------------------|
| 1 | Kachin State | 18 |
| 2 | Kayah State | 25 |
| 4 | Chin(S)State | |
| 5 | Sagaing Division | |
| 6 | Magway Division | |
| 7 | Mandalay Division | |
| 8 | Shan (S) State | 4 |
| 9 | Shan (E) State | |
| 10 | Shan (N) State | 2 |
| 11 | Kayin State | 1 |
| 12 | Tanintharyi Division | 10 |
| 13 | Bago (East) Division | 70 |
| 14 | Bago (West) Division | 70 |
| 15 | Mon State | 10 |
| 16 | Rakhine State | |
| 17 | Yangon Division | |
| 18 | Ayeyarwady Division | |
| | Total | 163 |

Table 8. Reported supervisory visits to township laboratories with major error (2009)

| State/Division | Townships |
|-------------------|--|
| Yangon Division | North Okalapa, UTI (Latha), Thaketa, Dawpon, Taikkyi, Waibergi Infectious Hospital, Insein, Aungsan TB Hospital, Botataung, Thanlyin, Hlaintharyar, Mayangone, Shwepyithar, Hlaing, South Dagon, North Dagon, Dala, Thingangyun, Hlegu |
| Sagaing Division | Monywa |
| Mandalay Division | Mandalay TB Diagnostic Centre, Kyaukse, Chanmyathazi, Mahlaing, Meikhtila, Madaya, Aungmyaytharzan, Amarapura, Nahtogyi, Taungtha |
| Kayah State | Demawsoe |
| Shan (South) | Hopone, Loilem, Hsiseng |

4.6.2. Evaluation

The half yearly evaluation meetings at States/Divisional Levels, and quarterly evaluation meetings at low performance townships were carried out to assess the TB control activities. Achievement was also evaluated by State/Divisions and townships to identify the problems and constraints facing in different localities at different levels for corrective actions and identified the possible solutions for the future plan.

4.6.2.1. National annual TB evaluation workshop on NTP activities for 2009

National annual TB evaluation workshop was held at meeting Hall of Ministry of Health, Nay Pyi Taw from **30-10-2009** to **31-10-2009** with the support of WHO/USAID. 120 invitees attended the meeting.

The opening speech was delivered by Dr. Thein Thein Htay, Deputy Director General (Public Health) of Department of Health, emphasizing the achievements of NTP regarding the Stop TB Strategy. It included the continuous supply of quality-assured anti-TB drugs with the support of the government, Laboratory External Quality Assurance System for the quality of TB laboratory Diagnosis, Culture and Drug Susceptibility Testing (DST), establishment of (30) sputum collection centres and expansion of new microscopy centres in some Station Hospitals and mobile team activity in hard to reach areas. She also described monitoring system for TB control activities.

She also mentioned about TB/HIV collaborative activities which conducted in (11) townships and about 2000 TB/HIV co-infected patients receiving ART and expansion of TB/HIV sentinel surveillance sites to 15 sites in 2009. She mentioned about DOTS – Plus Pilot Project for management of MDR-TB patients which will be launched in July, 2009 and more than 100 patients will be put on MDR-TB treatment.

She stressed on the Health System Strengthening activities like manpower and capacity building. She also described about the care providers including PPM-DOTS conducting in 4 hospitals in Yangon. She pointed out that there were about (1500) private practitioners involved in TB control activities via INGO such as PSI, MMA and AZG and the partner's contribution to TB case detection. Regarding Strategy (5) Empower people with TB and community, she described the activities such as Advocacy, Communication and Social Mobilization (ACSM) and Community-based DOTS conducted in some townships. NTP is planning to perform 2 nationwide surveys (National TB Prevalence Survey and Nationwide TB KAP Survey) in 2009. Then she stressed that overall achievement had reached the Global TB target but some States and Divisions had not reached the target yet, and thus she suggested that they should do much efforts in those States/Divisions upon TB control activities.

Finally, she insisted on all participants to discuss the experiences as well as the strength and weakness and concluded by talking to make more efforts in future TB control activities.

Officials from Department of Health, responsible persons from HMIS, Department of Health Planning, NTP central office staff, Medical Superintendent from TB hospitals, State/Divisional Health Directors, State/Divisional TB Officers and District TB team leaders doctors, representatives from WHO and implementing partners attended the workshop.

Recommendations of Central Annual TB Evaluation Workshop (2009)

- (1) To strengthen human resource development for TB control
- (a) To fill up important vacancy prioritized as follows
- (i) MO
- (ii) X-Ray technician
- (iii) To upgrade TB team as district TB team leaded by MO in Myawaddy and Kawthoung
- (2) To reinforce the coordinating mechanism in TB control at all levels by conducting partners coordinating meeting by annually for central, quarterly for S/D level and monthly for township level
- (3) To strictly follow the drug supply management at all levels
- (4) To strengthen the supervision, monitoring and evaluation system for TB control including private sectors
- (5) To improve case finding by innovative approach using registered TB patients to find and refer another suspect, contact tracing, ACSM, PPM-DOTS
- **(6)** To put up for the approval of MOH on jointly developed "Minimum package of TB/HIV collaborative activities for township level"
- (7) To establish the cross referral system between TB and STD/ HIV teams
- (8) To strengthen the laboratory EQA system including private laboratory performing sputum AFB microscopy
- (9) To empower registered TB patients and mobilize them to participate in TB control
- (10) To increase case detection by providing widespread health talk session by NTP and all partners
- (11) To conduct proper and systematic recording for MDR-TB management in pilot phase in order to expand in future
- (12) To do quarterly evaluation meeting of DOTS-Plus pilot project with expert committee and partners
- (13) To conduct advocacy meeting for specialists on ISTC at central hospitals, S/D hospitals and district hospitals

4.6.2.2. State/Divisional TB evaluation meetings

State/Divisional TB evaluation meetings were carried out at all States/Divisions. The activities were conducted with the support of WHO. It was meant for biannual, however, the budget was inadequate to hold meeting twice.

JICA (MIDCP) also supported for half yearly divisional TB evaluation meeting for Yangon and Mandalay Divisions. JICA also supported Township quarterly evaluation meetings conducted at 10 low performance townships of Yangon and Mandalay Divisions. Some other townships also conducted Township quarterly TB evaluation meetings without cost.

Cohort review meetings were also conducted in 30 low performance townships funded by 3DF and 5 low performance townships in Yangon Division funded by JICA (MIDCP).





TB evaluation meeting at State/Divisional level

Table 9. TB Evaluation meetings at State/Divisional level (2009)

| State/Divisional level | Date | No. of participants | Remarks |
|------------------------|------------|---------------------|---------------------|
| Kachin State | 11.3.2009 | 45 | |
| Kayah State | | | No report received |
| Chin | 21.3.2009 | 13 | |
| Shan State (South) | 19.3.2009 | 40 | |
| Shan State (East) | | | No report received |
| Shan State (North) | 23.3.2009 | 45 | |
| Mon State | 22.3.2009 | 25 | |
| Kayin State | 11.3.2009 | 26 | |
| Rakhine State | 22.2.2009 | 38 | |
| Mandalay Division | 27.11.2009 | 77 | Conducted with JICA |
| Yangon Division | 25.11.2009 | 100 | support |
| Sagaing Division | 6.3.2009 | 75 | |
| Magway Division | 18.9.2009 | 59 | |
| Bago Division (East) | 20.10.2009 | 35 | |
| Bago Division (West) | 29.10.2009 | 31 | |
| Ayeyarwaddy Division | 7.3.2009 | 52 | |
| Taninthayi Division | 3.3.2009 | 25 | |

4.7. Co-ordination and collaboration with other health sectors and NGOs

The NTP co-ordinates with the other health sectors such as Laboratory, Medical Care and AIDS/STD Prevention and Control Programme to accelerate the NTP activities. TB/HIV co-infection has an impact on NTP. The NTP and NAP have been closely collaborated in prevention and control activities of TB and HIV/AIDS since 1998. TB/HIV collaborative prevention and control activities for TB and HIV/AIDS are implementing in Myitkyina, Taunggyi and Lashio with the support of WHO. Voluntary Confidential Counseling and HIV testing is providing at TB centers.

Integrated HIV Care for TB patients (IHC) Project was initiated in Mandalay covering 7 townships (Aungmyaethazan, Chanmyathazi, Chanayethazan, Mahaaungmyay, Pyigyitagon, Amarapura and Patheingyi townships in Mandalay District) and extended to Pakokku township of Magway Division. The project is supported by the Union and Total Yadanar oil company.

State/Divisional TB Officers were trained on TB/HIV prevention and control activities. District TB team leaders were trained together with team leaders from HIV/STD teams. Cross referral between TB and STD/HIV teams are carried out where 3 teams exit in the same township.

NTP also co-ordinates with the NGOs such as, MWAF, MMCWA, MMA and MRCS in DOTS implementation. International NGOs co-operating with NTP are Union, MSF (Holland), PSI, Japan Anti-TB Association (JATA), World Vision, Pact Myanmar, Malteser and IOM. JICA is supporting the NTP activities in some townships as a bilateral co-operation agency. In 2008, we received reports from MDM which is new partner is treating TB patients especially for intravenous drug users.





Public Private Mix-DOTS at Bago and Public Public Mix-DOTS at New Yangon General Hospital

MMA referred 6,449 TB suspects and 5,782 (90%) reached the TB centers. Out of which 5,782 (100%) got the feedback from TB centers. Among TB suspect referral who underwent sputum for AFB examination, 1,492 (26%) were smear positive TB and other 3,378 (58%) were put on anti-TB treatment.

MMA Scheme III scaled up activities were done at Yangon Division Dagon (North), South Okkalapa and Thanlyin townships

PPM-DOTS Scheme I was also supported by MIDC Project (JICA) and implementing in North Okkalapa township (started in November, 2006) and PyinOoLwin township, Mandalay Division (started since January 2007). Tamwe township in Yangon Division and Pyigyitagon township in Mandalay Division were extended in 2007.

Population Services International (PSI) started the collaboration with NTP in March 2004. PSI organizes the PPs and running the "Sun Quality Clinics" as a DOT unit. Up till 2009, PSI is implementing PPM-DOTS in 145 townships with 136 accredited laboratories (36 private lab. and 100 public lab.). Total (623) PPs are implementing Scheme III. New TV spot related to TB was also aired every year.

Table 10. Contribution of MMA PPM-DOTS (2009)

| | | No. of TB | No. of | No | . of | | No. of | | <u> </u> | |
|-------|--------------------|-----------|----------|-------------|-----------|----------|-----------|------------|-------------|-----------------|
| | | suspect | feedback | Smea | ar (+) | smea | ar (-) T | B put | Total TB | Total Non TB |
| Sr.No | Townships | referred | received | TB pa | on | on TI | B treat | ment | patients | patients |
| | | for | | T treati | | | | | | |
| | | diagnosis | | Cat I | Cat II | Cat I | Cat II | Cat III | | |
| 1 | Insein | 558 | 494 | 102 | 16 | 105 | 4 | 61 | 288 | 206 |
| 2 | Kyimyindine | 160 | 130 | 47 | 3 | 11 | 2 | 20 | 83 | 47 |
| 3 | North Dagon | 142 | 133 | 26 | 6 | 11 | 1 | 15 | 49 | 84 |
| 4 | South Dagon | 274 | 204 | 64 | 3 | 54 | 3 | 38 | 163 | 41 |
| 5 | South Okkalapa | 315 | 309 | 79 | 6 | 37 | 8 | 18 | 152 | 157 |
| 6 | Shwepyithar | 224 | 196 | 84 | 1 | 18 | 1 | 13 | 110 | 86 |
| 7 | Thakata | 404 | 335 | 135 | 16 | 32 | 1 | 47 | 240 | 95 |
| 8 | Thanlyin | 311 | 284 | 65 | 5 | 57 | 6 | 17 | 142 | 142 |
| 9 | Bago | 465 | 405 | 56 | 13 | 89 | 5 | 51 | 223 | 182 |
| 10 | Pyay | 248 | 230 | 52 | 1 | 70 | 0 | 44 | 164 | 66 |
| 11 | Mawlamyaing | 362 | 350 | 29 | 3 | 36 | 6 | 63 | 140 | 210 |
| 12 | Taikkyi | 211 | 206 | 37 | 1 | 3 | 0 | 54 | 90 | 116 |
| 13 | Hpa-an | 248 | 199 | 51 | 2 | 90 | 2 | 34 | 184 | 15 |
| 14 | Sittwe | 73 | 73 | 22 | 2 | 13 | 1 | 12 | 47 | 26 |
| L | ower Myanmar | 3995 | 3548 | 849 | 78 | 626 | 40 | 487 | 2075 | 1473 |
| 15 | Aung Myay Thar Zan | 218 | 215 | 42 | 6 | 42 | 4 | 9 | 103 | 112 |
| 16 | Chan Aye Thar Zan | 213 | 184 | 69 | 1 | 56 | 3 | 29 | 158 | 26 |
| 17 | Chan Mya Thar Si | 347 | 328 | 96 | 8 | 41 | 5 | 14 | 164 | 164 |
| 18 | Mahar Aung Myay | 271 | 266 | 49 | 3 | 44 | 8 | 5 | 109 | 157 |
| 19 | Kyaukse | 250 | 247 | 41 | 5 | 41 | 3 | 147 | 237 | 10 |
| 20 | Lashio | 319 | 271 | 63 | 5 | 74 | 1 | 32 | 175 | 96 |
| 21 | Maggwe | 197 | 172 | 30 | 6 | 16 | 6 | 12 | 70 | 102 |
| 22 | Monywa | 230 | 190 | 40 | 4 | 21 | 6 | 17 | 88 | 102 |
| 23 | Pakokku | 139 | 138 | 13 | 0 | 15 | 1 | 3 | 32 | 106 |
| 24 | Myingyan | 148 | 106 | 33 | 3 | 11 | 0 | 18 | 65 | 41 |
| 25 | Muse | 28 | 23 | 10 | 0 | 1 | 0 | 7 | 18 | 5 |
| 26 | Kyaukme | 94 | 94 | 35 | 3 | 21 | 0 | 25 | 84 | 10 |
| l | Jpper Myanmar | 2454 | 2234 | 521 | 44 | 383 | 37 | 318 | 1303 | 931 |
| | Grand Total | 6449 | 5782 | 1370 | 122 | 1009 | 77 | 805 | 3378 | 2404 |

Table 11. Contribution of PSI (2004-2009)

| Years | TB suspected cases screened | Cat I (+) | Cat I (Neg. & EP) | Cat II | Cat III | Total |
|-------|-----------------------------|-----------|----------------------|--------|---------|-------|
| 2004 | 3530 | 840 | 256 | 199 | 927 | 2222 |
| 2005 | 11048 | 2262 | 571 | 396 | 2311 | 554 |
| 2006 | 19798 | 3560 | 1200 | 556 | 4116 | 9432 |
| 2007 | 17687 | 3837 | 1694 | 589 | 4023 | 10143 |
| 2008 | 17051 | 4137 | 1921 | 598 | 3683 | 10339 |
| 2009 | 19943 | 3978 | 2171 | 541 | 4482 | 11172 |

PPM-DOTS of PSI contributed 13% of smear positive cases and 11.4% of all registered TB patients nationally. MMA PPM-DOTS project contributed 1.3% of smear positive TB patients and 1.3% of all the townships' registered TB patients. PPM-DOTS (MMA and PSI) contributed 14% and 13% of union total new smear positive and all TB cases.

NTP started collaboration with ARTSEN ZONDER GRENZEN (MSF-Holland) since 2001 in Waingmaw and Moemauk townships in Kachin State. Then Kachin State TB center, NTP supported the Anti-TB drugs to AZG in November, 2004. Currently, AZG in functioning in Kachin, Northern Shan State, Yangon Division and Rakhine State. AZG mainly focused for HIV co-infected TB patients. Thazin clinics provide not only diagnosis and treatment, but also food and patients support during the treatment. AZG contributed 1.2% and 1.5% of union total new smear positive and all TB patients.

Public-Public Mix DOTS has been launched in 4 specialist hospitals (New YGH, East and West YGH, Thingungyun Sanpya General Hospital) in Yangon with the 3DF bridging fund since May 2007. Public-Public Mix DOTS initiative as a pilot phase aims to strengthen the TB control services through establishing a system link between public hospitals and public TB centers. Advocacy meetings were conducted and followed by the training of 53 hospitals staff on TB control and PPM-DOTS. Hospital DOTS Committees were formed for each hospital chaired by Medical Superintendent and members from heads of clinical disciplines. Assistant Medical Superintendent was assigned as a PPM TB-Coordinator. Roles of laboratory technicians, nurses, medical social workers and pharmacist were identified. PPM-DOTS in hospitals had identified four options to implement.

Option 1: Diagnosis of TB cases + prescription of treatment regimen in hospital followed by referral to Health Center for DOT, with clinical follow-up at hospital.

Option 2: Same as Option 1 without clinical follow-up at hospital.

Option 3: Diagnosis of TB cases + start Directly Observed Treatment (DOT) in hospital followed by referral to Health Center during treatment.

Option 4: Diagnosis of TB case and provide full treatment (DOT) at hospital. Currently all hospitals are practicing option 3 and 4. NTP and WHO conducted joint monitoring and supervisory visits regularly. TB hospitals (Aungsan and Patheingyi), Waibagi Specialist Hospital, Specialist Hospital (Mingaladon), and Workers TB hospital under the Ministry of Labor are also collaborating with NTP.

Table 12. Implementing partners and activities

| NGOs | Area Coverage and activities | | | | |
|-------------------------------|---|--|--|--|--|
| MWAF | Case finding, provide health education and provide DOT in all townships | | | | |
| MCWA | Case finding, provide health education and provide DOT in all townships | | | | |
| ММА | PPM-DOTS in 26 Townships, all townships are practicing scheme I, some Private Practitioners from 4 townships are practicing scheme II and scheme III started in 3 townships | | | | |
| MRCS | 3 townships in Yangon Division (Thingungyun, Kungyangone, Twantay) 9 townships in Ayeyarwaddy Division (Dedaye, Pyarpon, Kyaiklatt, Maubin, Laputta, Ngaputaw, Mawlamyaingkyun, Bogalay, Pathein) Multiplier Training (Peer Education) for Red Cross Volunteers Comprehensive IEC Campaign Defaulter Tracing Case Detection and Referral Home Based Care and Support World TB Day Celebration | | | | |
| Bilateral agency | Area Coverage and activities | | | | |
| JICA | Support Divisional TB control activities in Yangon and Mandalay Divisions (76 townships) | | | | |
| INGOs | Area Coverage and activities | | | | |
| PSI | Total no. of 623 PPs are functioning in 145 townships of 13 States/Divisions, 36 private and 100 public labs are using for TB control. | | | | |
| Pact Myanmar | Building the commitment to community self-action in health and development Community based TB Case finding and Management System Building the access to resource and service, functioning in dry zone of Myanmar. (Magway Division – Magway, Minbu, Myothit, Salin, Aunglan, Pwintbyu, Chauk, Seikbyu, Mandalay Division – Kyaukpadaung, Myingyan, Sagaing Division – Htigyaink, Pale) | | | | |
| World Vision International | Case finding and provide nutritional support to Childhood TB cases in Hlaingthayar (Yangon Division), Loikaw (Kayah State), Thanphyuzayat (Mon State), Dewei, Myeik (Taninthayi Division). | | | | |
| AZG (MSF- Holland) | Treatment of TB and TB/ HIV patients (Yangon Division, Shan (North), Rakhine & Kachin States) | | | | |
| Malteser | TB case finding and treatment of TB patients in Rakhine state (Buthedaung, Maungdaw townships) | | | | |
| JATA | Support Township TB control activities in 3 Townships from Yangon Division and 3 Townships from Mandalay Division | | | | |
| IUATLD | Support Integrated TB/HIV care in 7 Townships of Mandalay district and Pakkoku township of Magway Division | | | | |
| AHRN | Capacity building, training, IEC materials and support to treatment in Shan & Kachin states, Yangon, Mandalay and Sagaing Divisions. | | | | |
| ЮМ | Case finding activities with decentralized sputum collection centers in Mon State, 6 townships (76 villages in Mawlamyine, Belin, Ye, Kyaikmaraw, Mudon, Thanbyuzayat townships) | | | | |
| Care Myanmar | Improve case finding and case holding activities, Support for TB/HIV patients esp. home based care, PPM, IEC in Sagaing Chin, Rakhine, Shan (N), Kayah, & Mon states (3DF funded TB control activities were not continued in year 2) | | | | |

Capacity building

NTP integrated the TB control activities to primary health care services. Trainings on Management of TB at District level and health facility using the translated and revised WHO modules have been conducted since 2006 with the support of GFATM, JICA and WHO. Those trainings were continued in 2009 with the support of 3DF.

New recruit laboratory technicians and for those needed for refresher training were given as required. Regular training on TB control was given at Universities for nurses and Training Schools of midwifes and lady health visitors.

65 courses of "Management of Training for Health Facility Staff (3 days)" could be done with 2304 basic health staff in 2009.

At the end of 2009, Training on Leadership and Management, Laboratory trainings, Township level TB control management trainings altogether 136 trainings were conducted under the funding of 3DF, WHO and JICA. NTP provided total 105 trainings funded by 3DF, 23 trainings by WHO, and 8 trainings by JICA.

Total number of health staff trained for TB in 2009 was 5942.



Opening session of "Training on TB Data Management" conducted at Nay Pyi Taw

Table 13. Training Activities of National Tuberculosis Programme (2009)

| Sr. No | Type of training | Date | | Partici | Vanua | F din a |
|-----------|--|----------|----------|---------|-----------------|-----------------|
| | | from | to | -pants | Venue | Funding |
| 1 | Training for National TB Prevalence Survey, 2009 | 14.3.09 | 17.3.09 | 70 | Yangon | 3DF |
| 2 | Training on TB data management | 18.8.09 | 20.8.09 | 30 | Naypyitaw | 3DF |
| 3 | Refresher Training on TB data management | 23.9.09 | 27.9.09 | 32 | Naypyitaw | 3DF |
| 4 | Refresher training course on (District Health Information Software)DHIS | 27.10.09 | 29.10.09 | 33 | Naypyitaw | 3DF |
| 5 | Management of MDR-TB (3 Days) | 25.5.09 | 27.5.09 | 23 | Yangon | 3DF |
| | II | 14.8.09 | 16.8.09 | 26 | Yangon | 3DF |
| | II | 28.8.09 | 30.8.09 | 20 | Chanmyatharzi | 3DF |
| | II | 28.9.09 | 30.9.09 | 35 | Yangon | 3DF |
| | II | 25.10.09 | 27.10.09 | 32 | Yangon | 3DF |
| | sub total | | | 136 | | _ |
| 6 | Training on MDR-TB patient management for DOTS-Plus supervisor | 4.11.09 | 4.11.09 | 35 | Aungmyaetharzan | WHO/ USAID |
| | II | 6.11.09 | 6.11.09 | 35 | Chanayetharzan | WHO/ USAID |
| | II | 7.11.09 | 7.11.09 | 35 | Maharaugnmyae | WHO/ USAID |
| | II | 8.11.09 | 8.11.09 | 35 | Pyigyitagon | WHO/ USAID |
| sub total | | | 140 | | _ | |
| 7 | Management of TB at district level for new recruit TMO, TB team leader, TB coordinator (5 Days) | 26.1.09 | 30.1.09 | 30 | Mandalay | 3DF |
| | II | 16.2.09 | 20.2.09 | 33 | Naypyitaw | 3DF |
| | II | 20.7.09 | 24.7.09 | 28 | Yangon | 3DF |
| | II | 23.7.09 | 27.7.09 | 30 | Pathein | WHO (Nargis) |
| | sub total | | | 121 | | _ |

| | | Date | | | | |
|-----------|---|----------|----------|-------------------|------------------------------------|---------|
| Sr. No | Type of training | from | to | Partici -pants | Venue | Funding |
| 8 | Training course on MDR-TB counseling for social workers/ counselors & nurses (3 Days) | 4.8.09 | 6.8.09 | 32 | Yangon | 3DF |
| | II | 10.8.09 | 12.8.09 | 30 | Mandalay | 3DF |
| | II | 28.12.09 | 30.12.09 | 30 | Mandalay | JICA |
| | sub total | | | 92 | | |
| 9 | Management of training for health facility staff (3 Days) | 1.1.09 | 3.1.09 | 37 | conducted one batch only Ann | 3DF |
| | II | 1.1.09 | 3.1.09 | 26 | Hteelin | 3DF |
| | II | 4.1.09 | 6.1.09 | 60 | Longlon | 3DF |
| | II | 4.1.09 | 6.1.09 | 25 | Hteelin | 3DF |
| | II | 14.1.09 | 16.1.09 | 33 | Kyaikhto | 3DF |
| | II | 20.1.09 | 22.1.09 | 25 | Matmum | 3DF |
| | II | 21.1.09 | 23.1.09 | 20 | Putao | 3DF |
| | II | 21.1.09 | 23.1.09 | 33 | Kyaikhto | 3DF |
| | II | 26.1.09 | 28.1.09 | 23 | Taunggyi | 3DF |
| | II | 26.1.09 | 28.1.09 | 35 | Htantabin(Bago) | 3DF |
| | II | 7.2.09 | 9.2.09 | 45 | Bokepyin | 3DF |
| | II | 16.2.09 | 18.2.09 | 40 | Shwekyin | 3DF |
| | II | 18.2.09 | 20.2.09 | 25 | Putao+ Machanbaw | 3DF |
| | II | 19.2.09 | 21.2.09 | 34 | Depeyin | 3DF |
| | II | 25.2.09 | 27.2.09 | 52 | Paletwa | 3DF |
| | II | 25.2.09 | 27.2.09 | 45 | Saytotetayar | 3DF |
| | II | 26.2.09 | 28.2.09 | 30 | Laukkai | 3DF |
| | II | 3.3.09 | 5.3.09 | 34 | Zigone | 3DF |

| | | Date | | | | |
|-----------|---|---------|---------|-------------------|----------------------------------|-----------------|
| Sr. No | Type of training | from | to | Partici -pants | Venue | Funding |
| 9 | Management of training for health facility staff (3 Days) | 4.3.09 | 6.3.09 | 38 | Matupi | 3DF |
| | II | 24.3.09 | 26.3.09 | 70 | Kyaiklat | WHO (Nargis) |
| | II | 28.3.09 | 30.3.09 | 64 | Teadiam | 3DF |
| | II | 30.4.09 | 2.5.09 | 32 | Thandaung | 3DF |
| | II | 9.5.09 | 11.5.09 | 50 | Sagaing | 3DF |
| | II | 11.5.09 | 13.5.09 | 30 | Wuntho | 3DF |
| | II | 11.5.09 | 13.5.09 | 25 | Sintgaing | 3DF |
| | II | 14.5.09 | 16.5.09 | 32 | Pinlebu | 3DF |
| | II | 17.5.09 | 19.5.09 | 47 | Kawlin | 3DF |
| | II | 18.5.09 | 20.5.09 | 25 | Sintgaing | 3DF |
| | II | 22.5.09 | 24.5.09 | 30 | Pakoku | 3DF |
| | II | 28.5.09 | 30.5.09 | 31 | Pakoku | 3DF |
| | II | 12.8.09 | 14.8.09 | 29 | Pansan | 3DF |
| | II | 23.8.09 | 25.8.09 | 30 | Yangon | 3DF |
| | sub total | | | 1155 | | |
| 10 | Management of training for health facility staff (3 Days) | 1.1.09 | 6.1.09 | 51 | conducted 2 batches Htilin | 3DF |
| | II | 19.1.09 | 24.1.09 | 65 | Ye Oo | 3DF |
| | II | 16.2.09 | 21.2.09 | 78 | Kyaukpadaung | 3DF |
| | II | 1.2.09 | 6.2.09 | 79 | Pauktaw | 3DF |
| | II | 18.2.09 | 23.2.09 | 87 | Mawgyun | WHO (Nargis) |
| | II | 9.3.09 | 14.3.09 | 60 | Nyaung Oo | 3DF |

| | | Da | Date from to | | | |
|-----------|---|----------|--------------|-----|-----------------------------------|-----------------|
| Sr. No | Type of training | from | | | Venue | Funding |
| 10 | Management of training for health facility staff (3 Days) | 6.4.09 | 11.4.09 | 55 | Mogoke | 3DF |
| | II | 29.5.09 | 3.6.09 | 65 | Eaime | 3DF |
| | II | 2.6.09 | 7.6.09 | 60 | Thayat | 3DF |
| | II | 4.6.09 | 9.6.09 | 63 | Ayardaw | 3DF |
| | II | 8.6.09 | 13.6.09 | 60 | Nahhtogyi | 3DF |
| | II | 8.6.09 | 13.6.09 | 86 | Taungtar | 3DF |
| | II | 12.6.09 | 17.6.09 | 60 | Pandaung | 3DF |
| | Management of training for health facility staff (6 Days) 2 batch | 15.6.09 | 20.6.09 | 61 | Butalin | 3DF |
| | sub total | | | 930 | | |
| 11 | Management of training for health facility staff (9 Days) | 14.3.09 | 22.3.09 | 105 | conducted 3 batches Bogalay | WHO (Nargis) |
| | Ш | 28.4.09 | 6.5.09 | 105 | Ngaputaw | WHO (Nargis) |
| | II | 22.5.09 | 30.5.09 | 91 | Pakokku | 3DF |
| | II | 29.5.09 | 6.6.09 | 105 | Latputta | WHO (Nargis) |
| | sub total | | _ _ | 406 | | - - |
| 12 | Training of Chest X-Ray reading (2 Days) | 26.8.09 | 27.8.09 | 43 | Yangon | 3DF |
| 13 | Training of trainers on TB counseling (3 Days) | 23.8.09 | 25.8.09 | 34 | Yangon | 3DF |
| 14 | Workshop on how to improve case detection in 16 townships | 19.10.09 | 20.10.09 | 32 | Yangon | JICA |
| 15 | Training on Pre-packed patient Kit Management | 22.5.09 | 22.5.09 | 46 | Kyaukme | 3DF |
| | II | 24.5.09 | 24.5.09 | 34 | Musel | 3DF |
| | II | 30.6.09 | 30.6.09 | 122 | Magway | 3DF |
| | II | 3.8.09 | 3.8.09 | 93 | Sittwe | 3DF |

| Sr. | Type of training | Date | | Partici | Venue | Funding |
|-----|---|----------|----------|---------|------------|---------|
| No | | from | to | -pants | | |
| 15 | Training on Pre-packed patient Kit Management | 28.11.09 | 28.11.09 | 62 | Mandalay | 3DF |
| | II | 4.12.09 | 5.12.09 | 88 | Yangon | 3DF |
| | II | 7.12.09 | 7.12.09 | 39 | Taunggyi | 3DF |
| | II | 9.12.09 | 9.12.09 | 40 | Lashio | 3DF |
| | II | 10.12.09 | 10.12.09 | 30 | Pyay | 3DF |
| | II | 11.12.09 | 11.12.09 | 60 | Magway | 3DF |
| | II | 12.12.09 | 12.12.09 | 34 | Myitkyina | 3DF |
| | II | 13.12.09 | 13.12.09 | 39 | Sittwe | 3DF |
| | II | 14.12.09 | 14.12.09 | 30 | Bago | 3DF |
| | II | 14.12.09 | 14.12.09 | 20 | Mawlamyine | 3DF |
| | II | 15.12.09 | 15.12.09 | 20 | Myeik | 3DF |
| | II | 15.12.09 | 15.12.09 | 52 | Pathein | 3DF |
| | II | 15.12.09 | 15.12.09 | 12 | Hpa-an | 3DF |
| | II | 22.12.09 | 22.12.09 | 16 | Loikaw | 3DF |
| | sub total | | | 837 | | |
| 16 | Training on sputum microscopy for new recruit Lab: technician | 12.1.09 | 16.1.09 | 20 | Mandalay | 3DF |
| | II | 1.11.09 | 5.11.09 | 16 | Yangon | JICA |
| | II | 7.11.09 | 11.11.09 | 16 | | JICA |
| | II | 1.12.09 | 5.12.09 | 16 | Yangon | JICA |
| | sub total | 68 | | | | |
| 17 | Training course on IPT for PLHIV | 5.5.09 | 5.5.09 | 31 | Mandalay | 3DF |

| Sr. | | Da | te | Partici | | |
|-----|---|----------|----------|---------|-----------------|-----------------|
| No | Type of training | from | to | -pants | Venue | Funding |
| 17 | Training course on IPT for PLHIV | 7.5.09 | 7.5.09 | 39 | Lashio | 3DF |
| | sub total | | | 70 | | |
| 18 | Training on MDR-TB management for Hospital staff | 22.6.09 | 27.6.09 | 46 | Mandalay | 3DF |
| 19 | Training on DOTS-Plus Provider/treatment supported | 7.11.09 | 7.11.09 | 20 | Aungmyaetharzan | WHO |
| | II | 9.11.09 | 9.11.09 | 20 | Chanayetharzan | WHO |
| | II | 10.11.09 | 10.11.09 | 20 | Maharaungmyae | WHO |
| | II | 11.11.09 | 11.11.09 | 20 | Chanmyatharzi | WHO |
| | Training on DOTS-Plus Provider/treatment supported | 12.11.09 | 12.11.09 | 20 | Pyigyitagon | WHO |
| | sub total | | _ | 100 | | _ |
| 20 | Refresher training on Sputum microscopy for Lab: technician | 26.1.09 | 28.1.09 | 23 | Magway | 3DF |
| | II | 3.2.09 | 5.2.09 | 25 | Sagaing | WHO |
| | II | 3.3.09 | 5.3.09 | 25 | Magway | 3DF |
| | II | 6.4.09 | 8.4.09 | 25 | Pathein | WHO (Nargis) |
| | sub total | | <u> </u> | 98 | | |
| 21 | KAP Survey training | 2.10.09 | 4.10.09 | 14 | Sagaing | WHO |
| | II | 21.11.09 | 23.11.09 | 14 | Sittwe | WHO |
| | II | 6.12.09 | 7.12.09 | 10 | Sittwe | WHO |
| | II | 9.12.09 | 11.12.09 | 10 | Mawlamyine | WHO |
| | II | 12.12.09 | 14.12.09 | 14 | Dawei | WHO |
| | II | 30.12.09 | 30.12.09 | 21 | Magway | WHO |
| | sub total | | | 83 | | _ |
| 22 | Training on Cohort review meeting | 29.1.09 | 29.1.09 | 80 | Hlaingbwe | 3DF |

| Sr. No | Type of training | Da from | | Partici -pants | Venue | Funding |
|-----------|-----------------------------------|------------|---------|-------------------|-----------|---------|
| NO | | Trom | to | -pants | | |
| 22 | Training on Cohort review meeting | 30.1.09 | 30.1.09 | 55 | Moehyin | 3DF |
| | II | 30.1.09 | 30.1.09 | 126 | Hpa-an | 3DF |
| | II | 30.1.09 | 30.1.09 | 84 | Ye | 3DF |
| | II | 18.2.09 | 20.2.09 | 25 | Moehyin | 3DF |
| | Ш | 27.2.09 | 27.2.09 | 40 | Winemaw | 3DF |
| | Ш | 27.2.09 | 27.2.09 | 33 | Pharkant | 3DF |
| | Ш | 31.2.09 | 31.2.09 | 55 | Moehyin | 3DF |
| | Ш | 31.2.09 | 31.2.09 | 33 | Pharkant | 3DF |
| | II | 31.2.09 | 31.2.09 | 25 | Tanine | 3DF |
| | II | 25.3.09 | 25.3.09 | 48 | Kyaukme | 3DF |
| | II | 26.3.09 | 26.3.09 | 51 | Laishio | 3DF |
| | II | 27.3.09 | 27.3.09 | 31 | Muesal | 3DF |
| | II | 30.4.09 | 30.4.09 | 126 | Hpa-an | 3DF |
| | II | 30.4.09 | 30.4.09 | 40 | Winemaw | 3DF |
| | II | 15.5.09 | 15.5.09 | 84 | Ye | 3DF |
| | II | 29.5.09 | 29.5.09 | 80 | Hlaingbwe | 3DF |
| | II | 29.5.09 | 29.5.09 | 80 | Hlaingbwe | 3DF |
| | II | 23.6.09 | 23.6.09 | 25 | Tanine | 3DF |
| | II | 30.6.09 | 30.6.09 | 55 | Moehyin | 3DF |
| | II | 3.7.09 | 3.7.09 | 33 | Pharkant | 3DF |
| | II | 31.7.09 | 31.7.09 | 24 | Tanine | 3DF |
| | II | 31.7.09 | 31.7.09 | 40 | Winemaw | 3DF |

| | | Da | te | | | |
|-----------|---|---------|---------|-------------------|--------|---------|
| Sr. No | Type of training | from | to | Partici -pants | Venue | Funding |
| 22 | Training on Cohort review meeting | 31.8.09 | 31.8.09 | 126 | Hpa-an | 3DF |
| | II | 31.8.09 | 31.8.09 | 84 | Ye | 3DF |
| | oub total | | | 4.400 | | |
| | sub total | | | 1483 | | _ |
| 23 | Health leadership and management training for TMO & team leader | 10.8.09 | 14.8.09 | 38 | Bago | 3DF |
| 24 | Advocacy & Refresher training of private practitioners (2 Days) | 13.1.09 | 14.1.09 | 28 | Yangon | 3DF |
| 25 | Training for Lab tech: from newly expand microscopy center | 1.9.09 | 5.9.09 | 9 | Yangon | JICA |
| 26 | EQA training on sputum AFB microscopy for STLS | 18.5.09 | 22.5.09 | 9 | Yangon | JICA |
| | II | 17.8.09 | 6 | Yangon | JICA | |
| | sub total | 15 | | - - | | |
| | Grand total | 6129 | | | | |

Table 14. International trainings/meetings/Workshops attended by NTP staff (2009)

| Sr. | Name and Designation | Duration | Country | Attended training/ workshop/ meeting |
|-----|--|--------------------------|-----------------------|--|
| 1 | Dr. Win Win Mar, AD(NTP) | 4.3.09 to 6.3.09 | India New Delhi | Regional workshop on research priorities in communicable disease |
| 2 | Dr. Bo Myint , DTBO, Mandalay | 23.3.09 to 25.3.09 | Brazil | Third Stop TB Partners' forum |
| 3 | Dr. Moe Zaw, AD(NTP) | 2.11.09 to 5.11.09 | India New Delhi | Regional Meeting of National TB Programme Managers |
| 4 | Dr. Nay Winn Lyinn, District TB TL, Hpa-an district | 6.5.09 to 1.8.09 | Japan | Stop TB action training course |
| 5 | Dr. Si Thu Aung, MO (NTP) | 4.5.09 to 15.5.09 | Philippines Manila | International course on advanced epidemiology |
| 6 | Dr. Wint Wint Nyunt MO(Microbiology), NTP | 23.3.09 to 3.4.09 | Thailand Bangkok | Training on Anti- TB drug susceptibility testing |
| 7 | Dr. Thandar Lwin, DD (TB) | 4.5.09to 6.5.09 | India New Delhi | Mock review on Global Fund Proposal, |
| 8 | Dr. Win Win Mar, AD(NTP) | 8.8.09 to 9.8.09 | Indonesia Bali | TB/ HIV Meeting |
| 9 | Dr. Lay Lay Khine, MO Yangon Divisional TB Center | 9.9.09to 12.9.09 | China Beijing | Regional Conference on TB Control |
| 10 | Dr. Thwe Thwe Sein, MO, Myitkyina, Kachin State TB center | 7.9.09 to 2.10.09 | Thailand Bangkok | International Border Health |
| 11 | Dr. Thandar Lwin, DD(TB) Dr. Tin Mi Mi Khaing, STBO Yangon Divisional TB Center | 3.12.09 to 7.12.09 | Mexico Cancun | 40 th Union World Conference on Lung Health |
| 12 | Dr. Thandar Lwin, DD(TB) Dr. Aye Thein, Sagaing TB Officer Sagaing Divisional TB Center Dr. Hninn Wai Lwin Myo, MO Yangon Divisional TB Center | 20.7.09 to 24.7.09 | India Bangalore | Regional Workshop on TB Surveillance and Programme Monitoring and Evaluation |
| 13 | Dr. Yu Yu Wai, Patheingy TB hospital Dr. Khin Aye Win, MO, Aungsan TB hospital U Than Naing Oo, social worker Patheingy TB hospital Daw Sandar Shwe, social worker Aungsan TB hospital | 5.10.09 to 9.10.09 | Philippines Manila | MDR- TB Training |
| 14 | Dr. San San Shein, TB specialist Yangon Divisional TB center Dr. Thin Le Swe, MO, NTRL Dr. Ei Ei Chaw, MO (Team Leader), Pakokku District TB Center | 16-3-09 to 20-3-09 | Indonesia Jakarta, | Infection Control Training & Workshop, |
| 15 | Dr. Kyi Kyi Myint, MO Mon State TB center | 6-6-09 to 18-6-09 | Thailand | Training Course on TB Control Programme, |
| 16 | Daw San San Myint, B.C, NTP (central) | 4-10-09 to 16-10-09 | India New Delhi | Training on public administration and management in developing countries |

4.9. Special occasions

4.9.1. Three Diseases Fund (3DF)

Following the withdrawal of GFATM in August, 2005, a consortium of donors (Australia, European Countries, the Netherlands, Norway, Sweden and the United Kingdom) agreed to work together and developed the concept of the Three Diseases Fund (3DF) and offered Myanmar to continue the critical activities related to three diseases. Coordinating Body (CB) and Technical Strategic Groups (TSG) were organized and developed the 3-year operational plan and Expression of Interest in line with 5-year national strategic plan together with implementing partners.

Total funding for TB under Bridge fund 3DF (2007) was 257,155 USD for NTP component and 347,570 USD for WHO component altogether 604,725 USD received for critical TB control activities.

Bridge Fund (3DF) supported capacity building of lab. technicians and BHS working at the grass root level which is the basic needs for quality of DOTS implementation. The software and data management training was an essential input for central NTP to be able to manage the programme. The support on local drug transportation cost was helpful for the uninterrupted drug supply to the end users. The low performance townships were focused to improve both case detection and case holding by introducing mobile team activities, initial home visits and contact tracing, sputum collection centers, quarterly township cohort review meetings, quarterly evaluation meetings. Community involvement activities were started in Myawaddy at Thailand-Myanmar border, Public-Public Mix DOTS initiated in 4 tertiary hospitals in Yangon. The guideline on childhood TB management, draft guideline for counseling for TB, national framework to manage MDR-TB were also developed and printed/distributed. For MDR-TB management, upgrading of Upper Myanmar TB Laboratory, Mandalay was completed and 2nd drug resistant survey was initiated. TB/HIV sentinel surveillance started. As supplies and equipment: training aids, computers and accessories for X-ray units were also supported.

3DF bridging fund was followed by the first year full funding started from (1-9-07) to (31-8-08). The TB control activities funded by 3DF covered all 325 townships. Total 3DF funding for TB control was 1.8 million USD, out of which NTP received 1.08 million USD, MMA received 0.5 million USD and WHO received 0.22 million USD for Year 1. The funding for Year 2 was the same as Year 1.

3DF also supported 270,000 USD for National TB Prevalence Survey and 3 million USD (Round 3) for First Line Anti-TB Drugs to cover the year of 2010. 3DF provided total 3,613,178 USD for **year 3 and 4** for implementation of NTP activities.



Cat I & III Patient Kit supported by 3 DF (Round 3) for 2010



Cat. Il Patient Kit supported by 3 DF (Round 3) for 2010

Table 15. TB control activities under 3DF (September, 2008 to August, 2009)

| Activities under NTP component | Target | Achievement |
|--|--|---------------------|
| Purpose 1: To sustain and improve the quality of DOTS services to rea | ch all TB patien | ts |
| TRAINING | | |
| Training on TB counselling for social workers/counsellors/nurses | Yangon Mandalay | 100% |
| Training on management of TB at District level for new recruit TMO, TB team leaders and TB coordinators | Naypitaw Mandalay Shan (South) Yangon | 100% |
| Training on TB data management of TB at District level | Yangon Naypyitaw | 100% |
| Training on management of TB at health facility level for BHS at RHC | 86 courses | 84 courses (97%) |
| Training on sputum microscopy for new recruit lab. Technician | Yangon Mandalay | 100% |
| Refresher training on sputum microscopy for Grade II lab. Technician | Magway Sagaing | 100% |
| Training on cohort review meeting for TMO, TB coordinators | Yangon Mandalay | 100% |
| ADDITIONAL TRAININGS & MEETINGS Training on management of patient kits for BHS in PPM-DOTS scheme III implementing township | 10 courses | 9 courses (90%) |
| TOT on TB counselling (State/Divisional TB officers & District Team leaders) | | 1 |
| Training on management of MDR-TB for physicians | | 1 |
| Trainig course on IPT for PLHIV (Mandalay, Lashio and Tachileik) | | 3 |
| Training for GPs on MMA PPM-DOTS | | 1 |
| Meeting for SCCs at Mandalay | | 1 |
| Trainig of X-Ray reading for TB team leaders by radiologists | | 2 |
| ISTC implementation 2 seminars at upper and lower Myanmar | 2 | 1(Naypyitaw) |
| Leadership and management training (Bago Division) | 1 | 1 |
| SUPERVISION, MONITORING & EVALUATION | | |
| Supervisory visits from State/Divisional level to Township (1 visit/yr to 260 townships) | 260 visits | 109 visits (42%) |
| Quarterly cohort review meeting in low performance townships (4 meetings/year in selected 30 townships) | 120 | 49 (41%) |
| COMMUNITY BASED DOTS ACTIVITIES | | |
| Sputum collection points | 30 sites | 6 sites reported |
| DOTS activities in 2 border townships (Myanmar - Thai border) Myawady & | Tachileik | |
| Initial Home Visit & Contact tracing | 500 visits | 209 visits (42%) |
| Annual Evaluation Meeting | 2 | 1(50%) Myawady |
| Quarterly border health committee meeting | 8 | 0 (0%) |
| Supervision & Monitoring for central/state level to 2townships(2 times/year) | 4 | 1(25%) |

| Activities under NTP component | Target | Achievement |
|---|--------------------------------|-------------------|
| Quarterly supervision from township to RHC | 8 | 0 (0%) |
| Drugs and Supplies procurement | All treatment units | 100% |
| First line anti-TB drugs | All treatment units | 100% |
| Transport of Global Drug Facility supported anti TB drugs to townships (4-transports/year to 325 townships) | 325 townships for 4quarters | |
| Maintenance of NTRL Yangon & Mandalay lab. | 2 laboratories | 100% |
| Purpose 2: To improve the treatment success rate among all detect with TB/HIV and MDR-TB | ted TB patients | including those |
| DOTS-PLUS project | | |
| Training on MDR TB counselling for social workers / counsellors/nurses | Yangon Mandalay | 100% |
| Training on Management of MDR-TB for TB hospital Staff/programme staff | Yangon Mandalay | Mandalay (50%) |
| Training on MDR patient management for DOTS Plus Supervisors | Yangon Mandalay | 100% |
| MDR-TB patients support cost (nutrition/Travel allowance) for 75 MDR TB patients) | 75 | 75 |
| Travel cost for social workers, DOTS supervisors | 75 | 75 |
| Fees for laboratory investigations either at private lab. or cost sharing hospital labs. | 75 | 75 |
| Specialized services & injection fees for 75 MDR TB Patients (10000 Kyats/month x 6 months) | 75 | 0 |
| Allowance for DOTS-Plus provider for social support network | 75 | 0 |
| Bi-annual evaluation meeting for DOTS-Plus pilot at TB hospitals | 2 | 2(100%) |
| Car rental for DOT-Plus pilot at TB hospitals | 2 | 1(50%) |
| Purpose 3:To maintain the case detection rate of estimated new smear | positive TB pat | ients above 70% |
| Public-Public Mix DOTS Incentive for assigned TB focal persons and social workers to coordinate between hospital and township TB centers (30000 Kyats/month for 3 persons) and TA (20000 Kyats/month for 2 persons) | 8 | 50% |
| Quarterly supervision from Divisional TB center | 16 | 2370 |
| Quartlery evaluation meeting : refreshment | 16 | 8(50%) |
| To provide stationary & miscellaneous to PPM DOTS units at 4 hospitals | | |
| Annual Evaluation Meeting on PPM DOTS | 1 | 1(100%) |
| Purpose 4: To measure both progress with programme imple- interventionstowards more accurately determining progress towards to | | |
| TB and TB/HIV SURVEY | | |
| Sentinel surveillance for HIV prevalence among TB patients | | |

5. Manpower situation of NTP

NTP has 101 vertical TB teams under the 14 State/Divisional TB centers. 47 District TB teams (40 are led by Team Leader medical doctors and & 7 led by Health Assistant) and 54 Township TB teams (led by team leader Health Assistants) are implementing TB control activities as well as providing technical support, supervision and monitoring, evaluation of TB control activities at township level.

Currently, one Senior Consultant Microbiologist and one Junior Consultant Microbiologist are vacant. One attached State TB Officer in Kayah State is also vacant after recently filled up of State TB Officer post for Eastern Shan State. 10 team leaders (H.A), 16 trained nurses, 1 radiographer and 55 Grade II Lab. technicians are vacant (For detail, please see in Annex 3).

Post graduated course on TB and Chest Diseases (Dip.Med.Sc) has trained 59 doctors in the period of 1998-2009. Majorities are posted in NTP and some are working in TB hospitals.

One postgraduate candidate is studying in Prince of Songkla University, Hat Yai, Thailand for MPH (Epidemiology) 2 years course to strengthen the Monitoring & Evaluation Section of Central NTP.

6. Drugs and laboratory equipment situation of NTP

Drugs, laboratory supplies and equipment for National Tuberculosis Programme are mainly supplied by WHO, GDF, 3DF and Ministry of Health. Quarterly drug distribution system is using in NTP. Central TB medical store, Yangon distributes to Upper and Lower Myanmar stores according to case load. Upper Myanmar store has to distribute nine State and Divisional TB Centers (Mandalay, Magway, Shan (S), Shan (E), Shan (N), Kayah, Chin, Kachin and Sagaing) and Lower Myanmar store distributes seven State and Divisional TB Centers (Yangon, Ayeyarwaddy, Mon, Kayin, Bago, Rakhine and Tanintharyi). Upper and Lower Myanmar stores distribute to State and Divisional level according to case load of their quarterly reports. The State and Divisional level distributes to townships quarterly according to their case load of previous quarter. At township level, TMOs distribute monthly to RHC level. Implementing partner: PSI collects drugs from Lower Myanmar TB store, Yangon and distribute to their PPM Scheme III clinics and AZG (MSF-Holland) collects drugs from the either State/Divisional level or township level where they are implementing.

Standard Operating Procedure (SOP) for Drug and supplies management was developed and conducted training on drug and supplies management for TMOs and TB coordinators in 2008. Drug transportation cost were provided by 3DF (from airport warehouse to central TB store, central store to Upper/Lower Myanmar stores, Upper/Lower Myanmar stores to State/Divisional level TB stores and up to township level). Laboratory equipment like slides, slide boxes and stains are distributed from State and Divisional TB Centers to DOTS townships. 5 Binocular microscopes were supported by JICA in 2009.

GFATM supported 2 X-ray machines (500mA) and 11 X-ray machines (63-200mA) which are installed at all states and divisional TB Centers except Shan East State (Kyaington) TB Centre. X-ray machines at Kachin state and Bago (East) were not functioning for about one year. 14 new desktop computers/printers were supported by 3DF and distributed to State/Divisional TB centers and central NTP office to facilitate the data management.

7. Budget and external technical support

7.1. Budget

7.1.1. Government budget for NTP

Government budget was only 14 million Kyats in 1995-1996, and it increased to (555.19) Million Kyats in 2009-2010. 90 Million Kyats were used for drugs purchase in 2009-2010, which increased from only 0.78 million Kyats in 1995-1996.

Table 16. Government budget for NTP

| Year | Regular Budget (Kyats in thousands) | Drugs purchase (Kyats in thousands) | Total (Kyats in thousands) |
|-----------|--|--|-------------------------------|
| 1995-1996 | 13,711 | 782 | 14,493 |
| 1996-1997 | 14,527 | 1,614 | 16,141 |
| 1997-1998 | 16,017 | 5,000 | 21,017 |
| 1998-1999 | 18,777 | 19,600 | 38,377 |
| 1999-2000 | 20,509 | 25,000 | 45,509 |
| 2000-2001 | 62,747 | 30,000 | 92,747 |
| 2001-2002 | 68,470 | 35,000 | 103,470 |
| 2002-2003 | 74,349 | 35,000 | 109,349 |
| 2003-2004 | 109,667 | 35,000 | 144,667 |
| 2004-2005 | 129,300 | 35,000 | 164,300 |
| 2005-2006 | 119,955 | 55,000 | 174,955 |
| 2006-2007 | 361,974 | 55,000 | 416,974 |
| 2007-2008 | 373,126 | 74,700 | 447,826 |
| 2008-2009 | 400,146 | 74,700 | 474,846 |
| 2009-2010 | 465,190 | 90,000 | 555,190 |

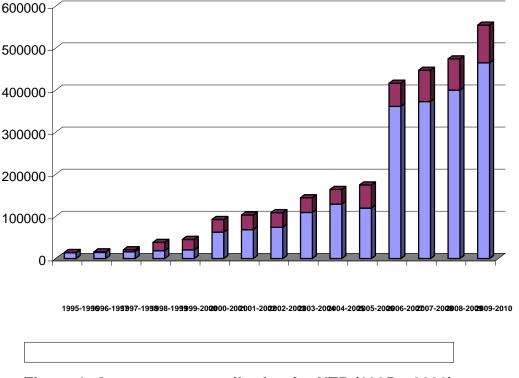


Figure 1. Government contribution for NTP (1995 – 2009)

7.1.2. External Financial Support

Up to the end of year 2009, GDF provided FLD (2 Million USD) for Exceptional 7th year. The NTP has planned to get FLD for the year 2010 by conducting partners meeting. 3DF will provide 1 year supply of FLD (3.1 Million USD) for the year 2010.

For Nargis affected areas, CERF and JGA provided FLD for some extent in 2008-2009. UNITAID provided Pediatric formulation (Pediatric HRZ and Pediatric HR) for 3 years (2008-2010).

Management of MDR-TB was supported by USAID, WHO and 3DF. The establishment of Biosafety Level 3 laboratory with rapid diagnostic test at NTRL and Upper Myanmar TB Laboratory was supported by Expand_x TB Programme.

Table 17. External Financial support for NTP, Myanmar (2009)

| 2009 | Govt. | WHO | UNITAID | GDF | JICA | JATA | 3DF | Union | USAID | CERF | FIND | Total |
|---|---------|----------|---------|-----------|---------|--------|-----------|---------|---------|---------|---------|-----------|
| | | (Nargis) | | | | | | | | | | |
| First line TB drugs | 90,000 | | 519871 | 2,000,000 | | | 3,061,024 | | 48,000 | | | 5,718,895 |
| Staff working for TB control | 403,557 | 25500 | | | | 2100 | 16,200 | | 90,000 | | | 537,357 |
| Routine programme management and supervision activities | | 62442 | | | 145,752 | 8198 | 505,865 | | 85,000 | | | 807,257 |
| Lab. supplies and equipment | | 02442 | | | 145,752 | 0190 | 505,605 | | 65,000 | | | 007,237 |
| for smears culture and DST | | | | | 40,000 | | 274,438 | | 137,000 | | 900,000 | 1,351,438 |
| PAL | | | | | | | | | | | | - |
| PPM | | | | | | | 13,951 | | | | | 13,951 |
| Collaborative TB/HIV activities | | 6500 | | | | | 9,132 | 200000 | | | | 215,632 |
| Second line drugs for MDR-TB | | | 245549 | | | | | | | | | 245,549 |
| Management of MDR-TB | | | | | | | 153,840 | | 105,000 | | | 258,840 |
| Community involvement | | 3411 | | | | | 53,550 | | | 264,565 | | 321,526 |
| ACSM | | | | | | | | | 25,000 | | | 25,000 |
| Operation research | | | 4,300 | | 4,300 | | | | | | | 4,300 |
| Surveys | | | | | | | | | 10,000 | | | 10,000 |
| Other technical assistant | | | | | | | | | | | | |
| Total | 493,557 | 97,853 | 765,420 | 2,000,000 | 190,052 | 10,298 | 4,088,000 | 200,000 | 500,000 | 264,565 | 900,000 | 9,509,745 |

7.2. External technical support

Technical support was provided by WHO and JICA/JATA for NTP, Myanmar.





Technical assistance from JICA

Table 18. International visitors in 2009

| S.N | Name and Designation | Duration | Remarks |
|-----|----------------------------|----------------------------|--|
| 1. | Dr. Rajeswari Ramachandran | 21.1.09 to 22.1.09 | Expert from SEARO for MDR-TB training modules |
| 2. | Dr. Gulshan Rai Khatri | 7.1.09 to 10.1.09 | Expert from WHO on PPM-DOTS activities |
| 3. | Dr. Grigory V. Volchenkov | 13.1.09 to 14.1.09 | TB Laboratory Expert |
| 4. | Prof. Phillip Hopewell | 4.3.09 to 5.3.09 | Expert on ISTC from WHO for Adoption of ISTC |
| 5. | Dr. Ikushi Onozarki | 14.3.09 to 16.3.09 | TB Survey Expert from WHO Headquarter for Survey Training |
| 6. | Dr. Punnet Dewan | 5.5.09 to 8.5.09 | Medical Officer (TB), SEARO for IPT Project |
| 7. | Dr. C. N. Paramasivan | 6.5.09 to 7.5.09 | TB Laboratory Expert |
| 8. | Mr. Somsak Rienthong | 23.6.09 to 25.6.09 | Laboratory Expert from Supranational Lab (Thailand) |
| 9. | Dr. Toru MORI | 18.7.09 to 25.7.09 | Expert for Research from JICA |
| 10. | Prof. Amie De Muynck | 18.9.09 to 30.9.09 | Epidemiologist from SEARO |
| 11. | Mrs. Norah Joy Stoops | 26.9.09 to 30.9.09 | Expert For District Health Information Software (DHIS) training |
| 12. | Dr. Michael Voniatis | 1.10.2009 to 31.12.2009 | Medical Officer (TB), WHO |
| 13. | Mr. Hiroaki YAMAZAKI | 17.11.09 to 20.11.09 | Laboratory Expert from JICA for EQA on sputum AFB smear microscopy |
| 14. | Dr. Hidetoshi IGARI | 15.12.09 to 18.12.09 | Radiologist from JICA for X-Ray reading on TB Prevalence Survey |

8. Research

NTP conducted several researches and presented in internal and international research congress. The abstracts of the presented posters, published paper are recorded.

8.1. Research in progress

8.1.1. National TB Prevalence Survey

NTP is currently conducting National TB Prevalence Survey in (70) clusters since June 2009. The funding was supported by MOH, WHO, PSI, 3DF, JICA, JATA, Bill and Melinda Gates Foundation. It is a 2-year project and will be completed by the end of December, 2010.

A proposal of National TB Prevalence survey was submitted to MOH by the NTP and it was approved in December 2008. Ethical committee from DOH was approved in February 2009. The procurement of survey equipments was started in December 2008. The X-Ray training for National TB Prevalence Survey was conducted from 23.2.2009 to 24.2.2009 and overall training for Survey Team was also carried out from 14.3.2009 to 17.3.2009. Pre testing/field testing was carried out at Singu Ward, Insein township, Yangon Division. Survey Steering Committee was organized and 1st meeting was conducted on 26.11.2009.

Total (70) clusters were selected in November 2008. The cluster distributions were (20) townships in States and (50) townships in Divisions. The first cluster was started in June 2009 at Meikhtila Township, Mandalay Division and survey data collection period will be over 1 year, up to early 2010.

As TB prevalence is one of the indicators of the Millennium Development Goal and the Global Plan to stop TB, this National TB Prevalence Survey is one of the most effective tools to monitor the impact of National TB Programme. Based on the National TB Prevalence Survey findings, revision of the estimation of TB epidemiology in the country will be carried out. An evidence based approach is essential for NTP to develop control strategies to provide quality care for TB patients across the country. The results from this quality TB prevalence survey will also lead to appropriate national and international investments for TB control in Myanmar.





Conducting National TB Prevalence Survey

8.1.2. Nationwide KAP Survey

Country wide "Knowledge, Attitude and Practice Survey" was conducting in 50 clusters in 2009. A cross-sectional study using both quantitative and qualitative methods was conducted in rural and urban areas of (50) selected townships in 2009-2010 to assess knowledge, attitude and practice of community on TB. It also explored stigma, perceived problem for TB and opinion and suggestion of community members for TB control.

Face-to-face interview with (7519) community members and (28) Focus Group Discussions were conducted. About (30.6%) of community member had high knowledge; (42.5%) had median knowledge; and (27%) had low knowledge scores about TB. There were more respondents in rural (32.5%) than in urban (16.2%) who got low knowledge score. Only (18%) responded germ and (38%) mentioned smoking as causes of TB respectively. About (65%) knew anti-TB drugs were free of charge and (86.9%) knew that TB was curable. Nearly half (45.9%) of respondents have heard about DOTS. The most common ways to prevent TB were isolation of TB patients (47.4%), avoidance of smoking (26.9%) and avoidance of sharing dishes (22.9%). Some (45.1%) said that they would not invite TB patients to their social events. Only (3.3%) would conceal TB status of their family members. Majority (71%) perceived TB as a public health problem for their locality. Initial actions if one suspected contracting TB were going to doctor (82%), going to drug shop (3%) and self medication (3%). Participants from FGD suggested providing health message regarding prevention about TB by using appropriate communication channels for their localities.

Based on the research findings, Advocacy, Communication and Social Mobilization (ACSM) materials for TB control will be developed for better TB control. The community awareness on availability of anti-TB drugs free of charge will be raised and ACSM activities will be promoted through appropriate ACSM strategies.





Conducting Nationwide KAP Survey in Myanmar

8.1.3. Other Research Grant

"Drug Resistant Patterns among Category II Failure Patients attending different TB Centers, Myanmar (2008-2009)", supported by WHO Research and Training in Tropical Diseases (TDR) was completed and final report was submitted to Department of Health.

Department of Medical Research, Lower Myanmar is conducting the research on "Strengthening Township level coordination for PPM-DOTS in selected townships, Myanmar: Utilization focus evaluation (2009)" collaborating with the NTP, supported by WHO TDR reentry grant.

8.2. Abstracts of research conducted and presented

Second National anti-tuberculosis drug resistance survey, 2007- 08, Myanmar

T.Ti[#], T.Lwin[#], T.T.Mar[#], W.W.Nyunt[#], W.Maung[#], H.H.Kluge^{*}, A.Wright^{**}

* National Tuberculosis Programme, Myanmar. * World Health Organization, Yangon, Myanmar.

** World Health Organization, Geneva, Switzerland.

SETTING: Forty Townships of Myanmar.

OBJECTIVES: To determine the prevalence and trend of drug resistance to antituberculosis(TB) drugs in new and previously treated pulmonary TB cases taking treatment under National Tuberculosis Programme, Myanmar.

DESIGN: A cross-sectional study. Culture was done at National Tuberculosis Reference Laboratory (NTRL) Yangon and Mandalay Divisional TB Laboratory of Mandalay. Drug susceptibility testing was tested by proportion method only at the National Tuberculosis Reference Laboratory, Yangon.

RESULTS: Of the 1617 TB patients from 40 sites, 1370 isolates were obtained from individual patients. (1100 from new cases and 299 from previously treated cases) were tested for susceptibility to four primary anti-tuberculosis drugs. Of 1100 isolates tested from new TB patients, 6.4% were resistant to any one of the anti-tuberculosis drugs,5.2%to isoniazid (INH),4.9% to rifampicin and (RMP) and 4.2% were multidrug-resistant(MDR). Of the 299 isolates tested from previously treated TB patients, 13% were resistant to any one of the anti-tuberculosis drugs, 11.7% to isoniazid (INH),10.7% to rifampicin and (RMP) and 10% were multidrug-resistant(MDR).

CONCLUSION: Comparing to results of previous nationwide drug resistance survey conducted in Myanmar MDR among new TB cases increased from 4% to 4.2%, whereas among the previously treated TB cases, MDR decreased from 15.5% to 10 %. Resistant to 4 drugs is 0.5% and 0.9% respectively for new patients and previously treated cases in first survey but in this survey it is 3.4% and 7.4% respectively. In the first survey, resistant to 2 drugs (INH and SM) is common.

KEY WORDS: second national drug resistance survey, MDR TB, Myanmar

The findings of this quantitative research was presented as a poster in 41st Union World Conference on Lung Health (2010), held in Berlin, Germany.

Table 19. Drug resistant patterns among sputum smear positive culture positive pulmonary TB patients

| Drug resistant patterns | New patients | Previously treated patients |
|---|--|---|
| | n = 1071 (%) | n = 299 (%) |
| Fully susceptible | 1002 (93.6) | 260 (87.0) |
| MDR | 45 (4.2) | 30 (10.0) |
| Resistance to any anti-TB drug Any INH resistance Any RMP resistance Any ETB resistance Any SM resistance | 69 (6.4) 56 (5.2) 52 (4.9) 36 (3.4) 59 (5.5) | 39 (13.0) 35 (11.7) 32 (10.7) 22 (7.4) 33 (11.0) |
| Mono-resistance to INH to RMP to ETB to SM | 11 (1.0) 1 (0.1) 4 (0.4) 0 6 (0.56) | 5 (1.7) 2 (0.7) 1 (0.3) 0 2 (0.7) |
| Poly-resistance 2-drug resistance SM + INH RMP + INH RMP + SM | 18 (1.7) 10 (0.9) 5 (0.5) 3 (0.3) | 7 (2.3) 3 (1.0) 3 (1.0) 1 (0.3) |
| 3-drug resistance RMP + INH + SM | 4 (0.4) 4 (0.4) | 5 (1.7) 5 (1.7) |
| Resistant to all anti-TB drugs INH + RMP + ETB + SM | 36 (3.4) | 22 (7.4) |

Defaulter Reasons in tuberculosis treatment in Myanmar

Tin Mi Mi Khaing¹, Thin Thin Yee¹, Myat Myat Moe¹, Tin Maung Swe¹, Si Thu Aung¹, Kosuke Okada², Win Maung¹

Setting: Study was conducted in selected townships of Mandalay, Ayeyarwaddy and Bago divisions and Shan state of Myanmar.

Objectives: The study aims to "To describe factors for defaulting TB treatment among new pulmonary TB patients in selected 4 townships in Mandalay, Ayeyarwaddy, Bago division and Shan State in Myanmar from September 2007 to February 2008."

Design: The cross-sectional descriptive study using qualitative approach was conducted. Key Informant Interview (KII) and In-Depth Interview (IDI) by using guidelines. In-depth Interviews were conducted with 11 defaulted TB patients. 18 Key Informant Interviews were conducted with Township Medical Officers, TB Coordinators, Midwives and General Practitioners.

Results: Most common reasons for defaulting TB treatment among pulmonary TB patients were getting adverse side effects of anti TB drugs, relief of symptoms, move to other township without informing to respective health staff, weak supervision, little understanding of patient's perception about TB and TB treatment and stopping of TB treatment by specialists.

Conclusion: It was obvious that the factors for defaulting anti TB treatment were multi-factorial and related with each other. Based on the findings and round table discussion with Project Manager and researchers from Department of Research (Lower Myanmar), pretreatment health education was a key factor to reduce the defaulter. Therefore, it was the possible intervention as well as starting point for action.

Key words: Myanmar, Tuberculosis, Defaulter

The findings of this qualitative research was presented as a poster in 40th World conference on Lung Health (2009), Cancun, Mexico and Myanmar Health Research Congress (2009).

^{1:} National Tuberculosis Programme, Department of Health, Ministry of Health, Myanmar.

²: The Research Institute of Tuberculosis (RIT), Japan Anti-Tuberculosis Association (JATA)

Success and challenges of Public-Private Mix DOTS initiatives in Myanmar:

A process evaluation

Saw Saw¹, Thida², Thandar Lwin³, Tin Mi Mi Khaing³, Bo Myint³, Khin Sandar Oo¹, Cho Cho Myint¹ and Thandar Min¹,

- 1. Health Systems Research Division, DMR (Lower Myanmar)
- 2. Epidemiology Research Division, DMR (Upper Myanmar)
- 3. National Tuberculosis Programme, Department of Health

Abstract

The study was conducted in three townships in which Public-Private Mix DOTS (PPM-DOTS) was implemented by three partners—Myanmar Medical Association (MMA), Population Services International (PSI) and Japanese International Cooperation Agency (JICA). It aimed to describe the process of implementing PPM-DOTS by the partners and to elicit their opinions on PPM-DOTS in order to take necessary actions. This study was a process evaluation which included desk review. opinion survey, in-depth interviews, key informant interviews and participation and observation of advocacy meeting and training on PPM-DOTS. Initiations of PPM-DOTS by each partner were different although all coordinate with National Tuberculosis Programme (NTP). More than half (54.3%) general practitioners (GPs) had moderate level and (34.3%) GP had very high recognition and acceptance of the need for partnership. For development of clarity and realism of purpose for partnership, (54.3%) have high score. Most GPs convinced that their previous practices were not in line with NTP guidelines. Majority pointed out that proper advocacy for PPM-DOTS was crucial for success of future activities. Most respondents were aware many GPs needed to be involved especially GPs who were very good general practice known as "GP kings". Almost all respondents highlighted that if there are fewer burdens for paperwork, more GPs would get involved in PPM-DOTS. Majority mentioned existing good personal relationship as success factor for PPM-DOTS. They also expressed trust building could be obtained by sharing information through regular contacts among each others. Based on the research findings, coordination mechanism among the partners in two pilot townships is initiated.

This paper was presented at Myanmar Health Research Congress 2009 and won Best Paper Award (1st prize) for Health Systems Research. The full paper was published in Myanmar Health Science Research Journal.

Current TB control practices in selected hospitals and private clinics in Myanmar

Moe Zaw¹, Thandar Lwin¹, Tin Mi Mi Khaing¹, San San Shein¹, Si Thu Aung¹, Myint San¹, Ohnmar Myint¹, Hans Kluge², Tin Maung Cho³

¹National TB Programme; ²World Health Organization; ³Department of Chest Medicine;

Setting: Before the introduction of International Standards for TB Care (ISTC) in Myanmar, assessment survey was conducted in 20 selected sites involving general hospitals (8), Universities of Medicine (2), private clinics (6) and township health departments (4).

Objective: To assess current TB control practices of medical doctors in different settings.

Method: A cross sectional survey by using open ended structured questionnaires was conducted.

Findings: Total of 98 doctors, 48 from General Hospitals, 27 from University of Medicine, 15 Private Practitioners and 8 from Township Health Department were interviewed. Fifteen percents of doctors from hospitals defined TB suspect with cough for 4 weeks and above. For the diagnosis of Extra Pulmonary TB, 50% were taking biopsies for histopathology. Forty-five percents of doctors determined sputum smear negative TB with positive CXR. In area of diagnosis of TB in symptomatic children, 69% of doctors forgot to ask history of exposure to an infectious TB patient. Forty-two percents were not done follow up sputum examination to the pulmonary TB patients. For the monitoring of progress during treatment, 22 out of 98 were using CXR. Only 46% of doctors initiated TB patients to do VCCT. Majority of doctors were not being asked a contact history for likelihood of DR-TB. Only 48% of doctors are familiar with DR-TB treatment. Only 53% of doctors are being done contact evaluation.

Conclusion: Some of the important international standards are differing from the real practices. Adoption, dissemination and provision of training on ISTC to care providers are crucial in TB control in Myanmar.

The findings of this assessment survey for introduction of ISTC in Myanmar context was presented as a poster in 41st Union World Conference on Lung Health (2010), held in Berlin, Germany.

8.2. HIV prevalence among new TB patients

It was reported from the routine sentinel surveillance of NAP conducted in 15 selected sites according to the schedule. The intake period for serum collection among new TB patients was up most 3 months and collected 150 serum specimens from new TB patients in 2009.

Table 20. HIV prevalence among new TB patients, sentinel surveillance (2005- 2009)

| Sr. No | Sentinel sites | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------|----------------|--------|--------|--------|--------|-------|
| 1 | Yangon | 11.30% | 8.70% | 8.70% | 4.67% | 5.3% |
| 2 | Pyay | 16.70% | 10.70% | 3.30% | 16.67% | 11.3% |
| 3 | Bago | | 11% | 10.70% | 9.33% | 8.7% |
| 4 | Hpa-an | 3.30% | 3.30% | 6.70% | 8.67% | 4% |
| 5 | Nyaung U | 9% | 9% | 7.30% | 6.67% | 10.2% |
| 6 | Magway | | 1% | 6% | 8.67% | 9.3% |
| 7 | Monywa | | 23% | 16.10% | 28.77% | 26.1% |
| 8 | Myeik | | | 15.30% | 7.33% | 5.3% |
| 9 | Pathein | | 6% | 9.30% | 7.33% | 4.7% |
| 10 | Mawlamyine | | 15% | 14.70% | 13.33% | 14.7% |
| 11 | Tachileik | | | | | 14.7% |
| 12 | Sittway | | | | | 3.3% |
| 13 | Loikaw | | | | | 2% |
| 14 | Hinthada | | | | | 6.8% |
| 15 | Pyinmana | | | | | 13.4% |
| | Total | 10.30% | 10.90% | 9.80% | 11.10% | 9.15% |

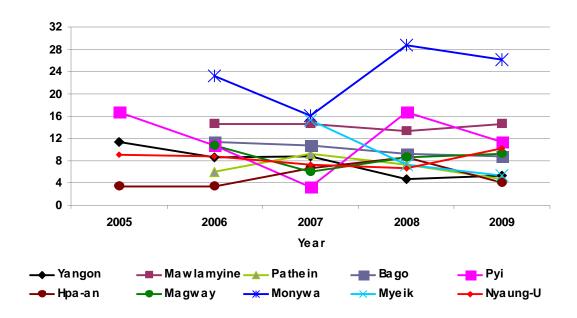


Figure 2. HIV prevalence among new TB patients (2005-2009)

The findings are supportive for both NAP and NTP to focus on scale up of TB/HIV collaborative activities where HIV prevalence among TB patients is high. Monywa and Mawlamyaing districts need to have routine surveillance and TB/HIV preventive and control activities. NTP is planning to conduct in 5 additional sentinel sites for 2010. The new sites are Meikhtila, Dawei, Bamaw, Myingyan and Taunggoo townships.

9. Constraints

9.1. Pursuing high-quality DOTS expansion and enhancement

- Limitation of human resource development
- Weak in timely implementation of planned activities and reporting
- Inadequate access to TB services
- Not following NTP guidelines
- Not following SOP for Drug and supplies management
- Limitation in supervision
- Limitation in reaching the un-reach
- Constraints in ensuring patient support

9.2. Addressing TB/HIV, MDR-TB and other challenges

- Limited funding to scale up TB/HIV and MDR-TB management
- Limited funding for Infection Control for health facilities and staff

9.3. Contributing to health system strengthening

- Limitation in health financing
- Limited service delivery in hard to reach area
- Weak coordination mechanism at State/Divisional level and below

9.4. Engaging all care providers

- Limited skills of health care providers outside the NTP
- Limitation to scale-up PPM-DOTS
- weak mechanism on monitoring of PPM-DOTS especially date verification at township level

9.5. Empowering people with TB, and communities

- Low community awareness
- Weak initiation of community involvement in TB control
- No SOP, guideline for community involvement
- Lack of appropriate materials for ACSM
- Weak technical assistance in new areas (eg. ACSM)

9.6. Enabling and promoting research

- Insufficient Operational Researches
- Weak in identifying other health care providers to involve in TB control

10. Comments and Recommendations on NTP activities for 2009

This annual report was based on the State and Divisional TB Centre annual reports and quarterly reports from DOTS townships received during 2009 and reports from other reporting units.

10.1. Case finding and case notification

NTP targeted to achieve 70% case detection of estimated new smear positive patients in the community. In 2009, NTP covered 59,934,088 populations in 325 DOTS townships. These townships were estimated to have 43,645 new smear positive TB patients. The estimated new smear positive TB patients and all smear positive TB patients were modified for Yangon Division according to the findings of Yangon Divisional TB prevalence survey conducted in 2006. For the other States/Divisions and Union estimates, we calculated the estimated new smear positive TB patients as 75/100,000 population and only Yangon Division was revised as 170/100,000 population based on the survey results.

NTP detected 47,877 smear positive cases including 41,389 new smear positive cases. NTP achieved case detection rate of new smear positive cases 95% from 316 townships in 17 States and Divisions.

The Case Detection Rates (CDRs) were high above target in 10 States/Divisions. Low CDR were found in 7 States/Divisions. [See Annex 4]

There are 23,239 reported all TB cases from **other reporting units** as Aung San TB Hospital, Patheingyi TB Hospital, Mingaladon Special Disease Hospital, Waibargi Special Diseases Hospital, Defense Hospital (Pyin Oo Lwin), 1000 bedded General Hospital (Nay Pyi Taw), New Yangon General Hospital, Thingungyun Sanpya General Hospital, Yangon General Hospital (East), (West) and INGOs: PSI, AZG, AHRN, MMA and Medecins du monde. Out of them, 7,037 were new smear positive TB patients.

However, Case Detection Rate of new smear positive increased from 79% (only NTP) to **95%** after adding the case finding of other reporting units.

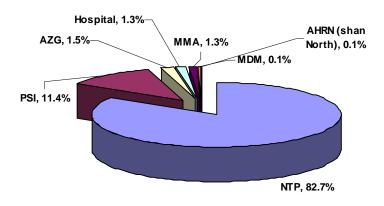


Figure 3. Number of all forms of TB patients contributed by NTP and other reporting units

Table 21. Case Detection Rate of States and Divisions for 2009

| State and Division | CDR for 2009 | | | | | | |
|----------------------|--------------|-------------------------------|--|--|--|--|--|
| | NTP only | NTP + other reporting Unit | | | | | |
| Kachin State | 122 | 150 | | | | | |
| Kayah State | 60 | 60 | | | | | |
| Chin State | 40 | 40 | | | | | |
| Sagaing Division | 61 | 70 | | | | | |
| Magway Division | 67 | 80 | | | | | |
| Mandalay Division | 64 | 82 | | | | | |
| Southern Shan State | 49 | 51 | | | | | |
| Eastern Shan State | 90 | 90 | | | | | |
| Northern Shan State | 56 | 71 | | | | | |
| Kayin State | 92 | 97 | | | | | |
| Tanintharyi Division | 72 | 75 | | | | | |
| Bago East Division | 82 | 103 | | | | | |
| Bago West Division | 105 | 114 | | | | | |
| Mon State | 114 | 129 | | | | | |
| Rakhine State | 87 | 91 | | | | | |
| Yangon Division | 85 | 110 | | | | | |
| Ayeyarwaddy Division | 92 | 102 | | | | | |
| Union of Myanmar | 79 | 95 | | | | | |

National Tuberculosis Programme

Yangon Division detected (24.2%) of new smear positive cases out of total new smear positive cases, followed by Ayeyarwaddy Division (13.1%), Mandalay Division (9.8%).

Out of all notified smear positive TB cases, new smear positive contributed 86% and 10% of smear positive pulmonary TB cases were relapse cases. Treatment after default contributed 1.2% of smear positive TB patients and treatment after failure 2.8%.

38% of total notified TB cases were contributed by smear negative TB cases. Extra-pulmonary TB cases were also treated and contributed 23.6% of all notified TB cases. Childhood TB cases (32,258) contributed 24% of all notified TB cases.

Table 22. Proportions of state and divisional new sputum smear positive and smear positive TB patients out of NTP total (2009)

| Sr. No. | State / Divisions | % of DOTS covered Townships in each State / Division | % of new smear (+) patients out of total new smear (+) TB cases | % of smear (+) patients out of total smear (+) TB cases |
|------------|----------------------|--|---|---|
| 1 | Kachin State | 18/18=100% | 3.0% | 3.2% |
| 2 | Kayah State | 7/7=100% | 0.3% | 0.3% |
| 3 | Chin State | 9/9=100% | 0.4% | 0.4% |
| 4 | Sagaing Division | 37/37=100% | 7.0% | 6.8% |
| 5 | Magway Division | 25/25=100% | 5.0% | 4.8% |
| 6 | Mandalay Division | 31/31=100% | 8.1% | 8.3% |
| 7 | Southern Shan State | 21/21=100% | 1.9% | 1.9% |
| 8 | Eastern Shan State | 10/10=100% | 1.2% | 1.2% |
| 9 | Northern Shan State | 24/24=100% | 2.8% | 2.7% |
| 10 | Kayin State | 7/7=100% | 2.6% | 2.4% |
| 11 | Tanintharyi Division | 10/10=100% | 2.1% | 2.1% |
| 12 | Bago Division (East) | 14/14=100% | 4.3% | 4.2% |
| 13 | Bago Division (West) | 14/14=100% | 3.8% | 3.7% |
| 14 | Mon State | 10/10=100% | 4.2% | 4.2% |
| 15 | Rakhine State | 17/17=100% | 5.3% | 5.0% |
| 16 | Yangon Division | 45/45=100% | 20.1% | 21.0% |
| 17 | Ayeyarwaddy Division | 26/26=100% | 10.9% | 10.4% |
| l | Jnion of Myanmar | 325/325=100% | 100% | 100% |

Table 23. Categories of case detection rates in States and Divisions (2009) NTP+ other reporting Units

| | Total | | | | | |
|-------------|--------|----------|--------|------|-------|--|
| = 70% | 60-69% | 50-59% | 40-49% | <40% | Total | |
| Kachin | Kayah | Shan (S) | Chin | | | |
| Shan (E) | | | | | | |
| Kayin | | | | | | |
| Tanintharyi | | | | | | |
| Bago (E) | | | | | | |
| Bago (W) | | | | | | |
| Shan (N) | | | | | | |
| Mon | | | | | | |
| Rakhine | | | | | | |
| Yangon | | | | | | |
| Sagaing | | | | | | |
| Magway | | | | | | |
| Mandalay | | | | | | |
| Ayeyarwady | | | | | | |
| 14 | 1 | 1 | 1 | | 17 | |

Figure 4. Proportion of State and Divisional all smear positive TB cases out of union total smear positive TB cases (2009)

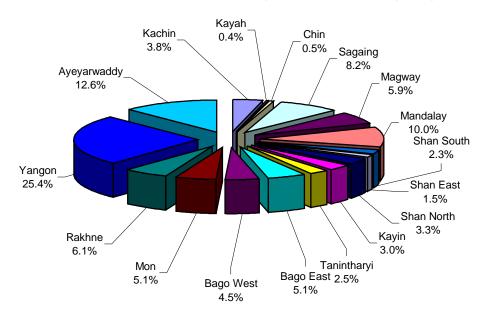


Figure 5. Proportion of all State and Divisional all new smear positive TB cases out of union total new smear positive TB cases (2009)

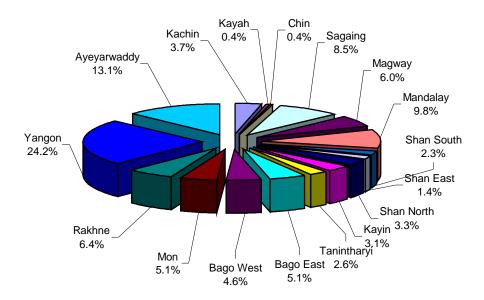


Table 24. Categories of Township CDR by States and Divisions (2009)

| Sr. No. | States and Division | | No. of to | Total no. of township | No. of townships not sent report received | | | |
|---------|----------------------|------------|-----------|-----------------------------|---|-------|--------|---|
| | | = 70% | 60-69% | 50-59% | 40-49% | <40% | | |
| 1 | Kachin State | 10 | 0 | 0 | 1 | 4 | 15 | 3 |
| 2 | Kayah State | 4 | 0 | 0 | 0 | 3 | 7 | |
| 3 | Chin State | 1 | 0 | 1 | 3 | 4 | 9 | |
| 4 | Sagaing Division | 13 | 6 | 7 | 6 | 5 | 37 | |
| 5 | Magway Division | 12 | 3 | 2 | 4 | 4 | 25 | |
| 6 | Mandalay Division | 15 | 4 | 5 | 3 | 4 | 31 | |
| 7 | Southern Shan State | 4 | 1 | 5 | 3 | 8 | 21 | |
| 8 | Eastern Shan State | 6 | 1 | 0 | 0 | 2 | 9 | 1 |
| 9 | Northern Shan State | 7 | 3 | 1 | 2 | 6 | 19 | 5 |
| 10 | Kayin State | 5 | 0 | 0 | 1 | 1 | 7 | |
| 11 | Tanintharyi Division | 3 | 1 | 2 | 0 | 4 | 10 | |
| 12 | Bago Division (East) | 12 | 1 | 1 | 0 | 0 | 14 | |
| 13 | Bago Division (West) | 14 | 0 | 0 | 0 | 0 | 14 | |
| 14 | Mon State | 9 | 1 | 0 | 0 | 0 | 10 | |
| 15 | Rakhine State | 13 | 1 | 1 | 2 | 0 | 17 | |
| 16 | Yangon Division | 28 | 6 | 5 | 2 | 4 | 45 | |
| 17 | Ayeyarwaddy Division | 22 | 2 | 1 | 1 | 0 | 26 | |
| | Total | 178 | 30 | 31 | 28 | 49 | 316 | |
| | Total | | (9%) | (10%) | (9%) | (16%) | (100%) | 9 |

In 2009, CDRs of 316 townships were evaluated and 49 townships (16%) had CDRs less than 40% and 178 townships (50%) achieved the target (=70%).

The case notification rate of all forms of TB cases and new smear positive TB cases from 316 townships plus other reporting units were 240/100,000 population and 77/100,000 population.

As State and Divisional wise, the case notification rates of **all TB cases** were high in Kayah State (407/100,000 population), Yangon Division (391/100,000 population), Kachin State (376/100,000 population), Tanintharyi Division (370/100000), and Mon State (314/100,000 population).

The case notification rate of **new smear positive cases** was high in Yangon Division (174/100,000 population), Kachin State (111/100,000 population), however, Chin State (39/100,000 population) and Southern Shan State (42/100,000 population) had low case notification rate for new smear positive cases.

Table 25. TB case notification rates by States and Divisions (2009)

| Sr. No. | States / Divisions | Case notification rates of new smear (+) TB patients notified to NTP | Case notification rates of all smear (+) TB patients notified to NTP | Case notification rates of all TB patients notified to NTP | |
|--|----------------------|--|--|--|--|
| 1. | Kachin State | 91/100,000 pop. | 111/100,000 pop. | 376/100,000 pop. | |
| 2. | Kayah State | 45/100,000 pop. | 54/100,000 pop. | 407/100,000 pop. | |
| 3. | Chin State | 30/100,000 pop. | 39/100,000 pop. | 239/100,000 pop. | |
| 4. | Sagaing Division | 46/100,000 pop. | 51/100,000 pop. | 128/100,000 pop. | |
| 5. | Magway Division | 50/100,000 pop. | 57/100,000 pop. | 193/100,000 pop. | |
| 6. | Mandalay Division | 48/100,000 pop. | 57/100,000 pop. | 172/100,000 pop. | |
| 7. | Shan State (South) | 37/100,000 pop. | 42/100,000 pop. | 119/100,000 pop. | |
| 8. | Shan State (East) | 68/100,000 pop. | 82/100,000 pop. | 212/100,000 pop. | |
| 9. | Shan State (North) | 42/100,000 pop. | 48/100,000 pop. | 139/100,000 pop. | |
| 10. | Kayin State | 69/100,000 pop. | 76/100,000 pop. | 256/100,000 pop. | |
| 11. | Tanintharyi Division | 54/100,000 pop. | 61/100,000 pop. | 370/100,000 pop. | |
| 12. | Bago Division (East) | 62/100,000 pop. | 71/100,000 pop. | 175/100,000 pop. | |
| 13. | Bago Division (West) | 78/100,000 pop. | 88/100,000 pop. | 245/100,000 pop. | |
| 14. | Mon State | 86/100,000 pop. | 98/100,000 pop. | 317/100,000 pop. | |
| 15. | Rakhine State | 66/100,000 pop. | 72/100,000 pop. | 200/100,000 pop. | |
| 16. | Yangon Division | 144/100,000 pop. | 174/100,000 pop. | 391/100,000 pop. | |
| 17. | Ayeyarwaddy Division | 69/100,000 pop. | 76/100,000 pop. | 177/100,000 pop. | |
| Population of 316 townships = 50,907,881 | | 81/100,000 pop. | 94/100,000 pop. | 263/100,000 pop. | |

The proportion of sputum smear positive pulmonary TB cases to all pulmonary TB cases was 48% and the ratio of new sputum smear positive TB cases to new sputum smear negative TB cases was 0.5:1.

Proportion of sputum smear positive pulmonary TB cases of all pulmonary TB cases was high above 65% in Sagaing Division, however Kayah, Chin, Kayin, Taninthayi, Bago (West) and Mon State treated more sputum smear negative pulmonary TB cases and found (<40%) of reported all pulmonary TB cases were smear positive.

Ratio of new smear positive to new smear negative cases and EP cases were less than national figure (0.5:1) in Kayah, Chin, Taninthayi, Magway, Mandalay, Kayin, Mon and Kachin States.

10.2. Age and sex distribution of new sputum smear positive TB cases

The age and sex distributions of new sputum smear positive TB cases reported to the NTP in 2009 showed that 46% of them were in 25-34 age group and 35-44 age groups. Male to female ratio of those patients was 1.9:1.

0.7% (282/41389) of new sputum smear positive TB patients was in the age group of (0-14), and male to female ratio of those patients was 0.71:1.

Case notification rate of total new smear positive male TB cases was 92/100,000 and case notification rate of total new smear positive female TB cases was 46/100,000.

Table 26. Case notification rates of new smear positive cases according to age and sex (2009)

| | Total | , | Male | | Females | | |
|---------------|----------------------|------------------|-----------------------|-----------------|------------------------|------------------|--|
| Age groups | TB patients / pop. * | CNR / 100,000 | TB patients / pop. ** | CNR /100,000 | TB patients / pop. *** | CNR / 100,000 | |
| 1-14 | 282 / 19595 | 1 | 118 / 9948 | 1 | 164 / 9646 | 2 | |
| 15-24 | 5822 / 10995 | 53 | 3263 / 5629 | 58 | 2559 / 5366 | 48 | |
| 25-34 | 9667 / 96493 | 100 | 6370 / 4795 | 133 | 3297 / 4853 | 68 | |
| 35-44 | 9370 / 76123 | 123 | 6629 / 3723 | 178 | 2741 / 3888 | 70 | |
| 45-54 | 7784 / 53348 | 146 | 5321 / 2591 | 205 | 2463/ 2743 | 90 | |
| 55-64 | 5117 / 35371 | 145 | 3435 / 1668 | 206 | 1682 / 1869 | 90 | |
| 65+ | 3347 / 32084 | 104 | 2250 / 1429 | 157 | 1097 / 1778 | 62 | |
| Total | 41389 / 59934 | 69 | 27386 / 29787 | 92 | 14003 / 30146 | 46 | |

Case notification rate of new smear positive TB patients was highest in (55-64) years age group in male but highest in (45-54) years age group for total patients. It was highest in (55-64) years age group and (45-54) years age group in female patients.

For patients with primary complex, the number notified to NTP was reduced to 22676 from 24,038 in 2008. For childhood TB including primary complex, hilar lymphadenopathy and TB meningitis (<15 Years), it was also greater than notified patients in 2008 (33,867 vs 27,662). Among notified patients with primary complex (98%) was <15 years age and among TBM 50% was <15 years. The childhood TB in (0-4) year age group in this year was 25.2% (8,521 / 33,867).

Figure 6. New smear positive TB case notification rate/100,000 population by age and sex groups (2009)

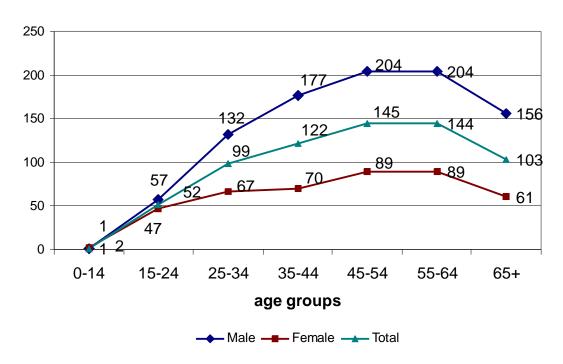
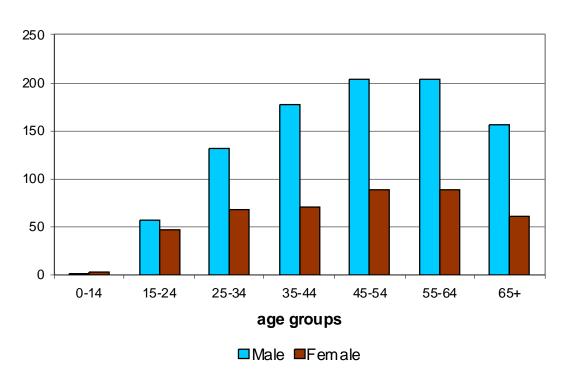


Figure 7. New smear positive TB case notification rate/100,000 population by age and sex groups (2009)



10.3. Categories of Treatment regimen

The reported total TB patients were (134,023) in TB 07 - block - 1, but altogether (137,329) patients were treated and reported in TB 07, block 3 after counting transferred in cases and others cases.

According to reports, 57% of reported cases were treated with Category I regimen, 7% with Category II regimen and 36% with Category III regimen. 22% and 7% of Category I patients were new sputum smear negative and extra pulmonary cases respectively.

Among those treating with Category II regimen, 47% were relapse cases, 6% were treatment after default, 13.4% were treatment after failure, 33% were others cases. 3.5%, 0.4%, 9.8% and 2.4% of total patients were relapse cases, treatment after default, treatment after failure and others cases respectively. Out of 137,329 reported TB cases in block 3, 23.7% was extra-pulmonary TB patients.

Yangon, Mandalay, Magway, Sagaing, Ayeyarwaddy Divisions and other reporting units treated more extra-pulmonary TB cases compared to other States/Divisions.

High proportions of relapse cases were contributed by Yangon, Mandalay, Ayeyarwaddy, Sagaing, Magway and Rakhine State and Divisions. Other reporting units also contributed about 17% of notified relapse patients.

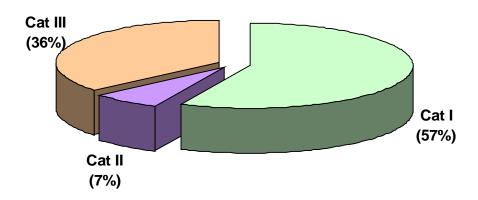


Figure 8. Proportions of treatment regimens (2009)

Table 27. Categories of Treatment Regimens

| | Cat. I | | | Cat. II | | | | | Cat. III | | | Total | Proportion | Proportion | |
|-------|-------------------|-------------------|------|---------|---------|------------------|------------------|-------|----------|-------------------|-------|-------|------------|-----------------------------|-----------------------------|
| | Sputum | outum Severe form | | | | Treatment | Treatment | | | Less se | | | Cat. | of relapse | of failure |
| Years | smear positive | Smear negative | EP | Total | Relapse | after default | After failure | Other | Total | Smear negative | EP | Total | + + | among smear (+) total | among smear (+) total |
| 2000 | 16923 | 2608 | 313 | 19844 | 2600 | 907 | 386 | | 3893 | 6157 | 1962 | 8119 | 31856 | 13 | 2 |
| 2001 | 20697 | 4604 | 485 | 25786 | 3072 | 1042 | 363 | | 4477 | 9166 | 3383 | 12549 | 42812 | 13 | 2 |
| 2002 | 24203 | 8063 | 866 | 33132 | 3661 | 1242 | 697 | | 5600 | 10796 | 9866 | 20662 | 59394 | 13 | 2 |
| 2003 | 27295 | 13537 | 1693 | 42525 | 4453 | 1454 | 964 | | 6871 | 12179 | 16185 | 28364 | 77760 | 13 | 3 |
| 2004 | 31551 | 21098 | 2938 | 55587 | 4820 | 1293 | 1522 | | 7635 | 13627 | 23267 | 36894 | 100116 | 13 | 4 |
| 2005 | 38598 | 23164 | 6234 | 67996 | 4817 | 976 | 2024 | | 7817 | 13309 | 26158 | 39467 | 115280 | 11 | 4 |
| 2006 | 40742 | 30031 | 5620 | 76393 | 5229 | 1007 | 2852 | | 9088 | 13924 | 29141 | 43065 | 128546 | 11 | 6 |
| 2007 | 43230 | 29177 | 6602 | 79009 | 4750 | 757 | 1208 | 2795 | 9510 | 13077 | 33986 | 47063 | 135582 | 9.5 | 3 |
| 2008 | 41839 | 27725 | 6364 | 75928 | 4509 | 633 | 1140 | 2954 | 9236 | 17306 | 28897 | 46203 | 131367 | 9.1 | 2.4 |
| 2009 | 42122 | 29744 | 6479 | 78345 | 4753 | 606 | 1349 | 3323 | 10031 | 22865 | 26088 | 48953 | 137329 | 9.6 | 2.8 |

10.4. Laboratory performance

There were 236,383 TB suspects were examined for sputum microscopy and 20% of them were sputum smear positive (47,432/236,383) in 2009.

18% of TB suspected cases and 16.2% of sputum positive cases were contributed by other reporting units.

In States/ Divisions, sputum positive rates were ranged from 6% to 38%. Sputum positivity rates of Shan (North), Rakhine States, Bago (East), Bago (West), Yangon, Ayeyarwaddy, Tanintharyi and Mandalay Divisions were high ≥ 20%.

In Yangon, Sagaing and Mandalay Division, more TB suspects were examined. However, TB suspects notification rates for **Chin, Sagaing, Magway, Mandalay, Shan (South), Shan (North), Tanintharyi, Bago (East), Bago (West), Rakhine and Ayeyarwaddy** were lower than 400/100,000 population. It is noted the Union TB suspect examination rate was increased from 437/100,000 population in 2008 to 464/100,000 population in 2009. It is needed to improve the identification of more TB suspects and referral for TB diagnosis by all means.

The following graph shows there were a decrease in laboratory performance in 2009 for both diagnosis and follow-up examinations. It also affected the total number of sputum smear positive detected.

Laboratory Work Load (2003-2009)

cases Year No. of Suspects (Dx) S(+) out of suspects (Dx) No. of follow up Total workload

Figure 9. Laboratory performance (2000-2009)

10.5. Sputum conversion rate of new smear positive pulmonary TB cases

Sputum conversion rate for 2009 cohort was **88%**. Sputum conversion rate of other reporting units was low as 83%. Sputum conversion rates were lower than 85% in Kachin (84%), Chin (83%), Shan East (83%) and Shan North (83%).

10.6. Treatment outcomes of TB patients (2008 cohort)

Treatment outcomes of the TB patients (2008 cohort) were evaluated from 316 townships (NTP). The cure rate and treatment success rate of new sputum smear positive TB patients were 78% and 85% for 2008 cohort (NTP). When treatment outcome of new smear positive TB patients were analysed according to known HIV status, cure rate and treatment success rate of HIV positive TB patients were 50% and 63% respectively for 2008 cohort.

Table28. Categories of township TSR of new smear positive cases (2008 cohort)

| | | | No. of to | | No. of | | | |
|---------|----------------------|-------|-----------|--------|--------|--------|-----------------------------|---|
| Sr. No. | States and Division | = 85% | 75-84% | 60-74% | 50-59% | <50% | Total no. of township | townships not sent report received |
| 1 | Kachin State | 5 | 4 | 4 | | 2 | 15 | 3 |
| 2 | Kayah State | 4 | 1 | 2 | | | 7 | |
| 3 | Chin State | 8 | 1 | | | | 9 | |
| 4 | Sagaing Division | 23 | 14 | | | | 37 | |
| 5 | Magway Division | 18 | 3 | 4 | | | 25 | |
| 6 | Mandalay Division | 21 | 10 | | | | 31 | |
| 7 | Southern Shan State | 14 | 3 | 3 | | 1 | 21 | |
| 8 | Eastern Shan State | 4 | 3 | 1 | | 1 | 9 | 1 |
| 9 | Northern Shan State | 9 | 4 | 4 | 1 | 1 | 19 | 5 |
| 10 | Kayin State | 2 | 4 | 1 | | | 7 | |
| 11 | Tanintharyi Division | 4 | 4 | 2 | | | 10 | |
| 12 | Bago Division (East) | 11 | 3 | | | | 14 | |
| 13 | Bago Division (West) | 7 | 7 | | | | 14 | |
| 14 | Mon State | 8 | 1 | 1 | | | 10 | |
| 15 | Rakhine State | 10 | 5 | 2 | | | 17 | |
| 16 | Yangon Division | 37 | 6 | 1 | | 1 | 45 | |
| 17 | Ayeyarwaddy Division | 21 | 5 | | | | 26 | |
| | Total | 206 | 78 | 25 | 1 _ | 6 | 316 | |
| | Total | | (24.7%) | (7.9%) | (0.3%) | (1.9%) | (100%) | 9 |

In 2008 cohort, 316 townships reported case finding in 2009. NTP received reports from 316 townships, out of which (206-65.2%) townships achieved treatment outcome target of TSR (= 85%) and (1) townships (0.3%) got less than 50% of TSR. Chin, Magway, Mandalay, Sagaing, Shan South, Bago (East), Bago (West), Ayeyarwaddy, Yangon, Rakhine and Mon States achieved 85% treatment success rate.

Table 29. Categories of townships' cure rates of new sputum smear positive TB patients by States/Divisions (2008 cohort)

| | | | No. of to | ownship w | ith CR | | | No. of |
|---------|-------------------------|---------|-----------|-----------|--------|--------|-----------------------------|---|
| Sr. No. | States and Division | = 85% | 75-84% | 60-74% | 50-59% | <50% | Total no. of township | townships not sent report received |
| 1 | Kachin State | 2 | 5 | 4 | 2 | 2 | 15 | 3 |
| 2 | Kayah State | 0 | 1 | 2 | 2 | 2 | 7 | |
| 3 | Chin State | 3 | 3 | 1 | 0 | 2 | 9 | |
| 4 | Sagaing Division | 11 | 10 | 13 | 2 | 1 | 37 | |
| 5 | Magway Division | 13 | 1 | 8 | 1 | 2 | 25 | |
| 6 | Mandalay Division | 12 | 10 | 8 | 1 | 0 | 31 | |
| 7 | Southern Shan State | 12 | 3 | 3 | 1 | 2 | 21 | |
| 8 | Eastern Shan State | 0 | 1 | 6 | 1 | 1 | 9 | 1 |
| 9 | Northern Shan State | 5 | 2 | 7 | 1 | 4 | 19 | 5 |
| 10 | Kayin State | 0 | 5 | 2 | 0 | 0 | 7 | |
| 11 | Tanintharyi Division | 2 | 5 | 2 | 1 | 0 | 10 | |
| 12 | Bago Division (East) | 3 | 7 | 4 | 0 | 0 | 14 | |
| 13 | Bago Division (West) | 5 | 6 | 3 | 0 | 0 | 14 | |
| 14 | Mon State | 1 | 7 | 1 | 1 | 0 | 10 | |
| 15 | Rakhine State | 4 | 5 | 5 | 0 | 3 | 17 | |
| 16 | Yangon Division | 24 | 15 | 5 | 0 | 1 | 45 | |
| 17 | 17 Ayeyarwaddy Division | | 10 | 6 | 0 | 0 | 26 | |
| | Total | 107 | 96 | 80 | 13 | 20 | 316 | 9 |
| | Total | (33.9%) | (30.4%) | (25.3%) | (4.1%) | (6.3%) | (100%) | |

Table 30. Categories of State/Divisional CR and TSR of new sputum smear positive TB patients (2008 cohort)

| | = 85% | 75-84 | 1% | 60-74 | % | 50- | 59% | <5 | 0% |
|----|-------------|-------------|-------------|-------------|-----|-----|-----|----|-----|
| CR | TSR | CR | TSR | CR | TSR | CR | TSR | CR | TSR |
| | Chin | Sagaing | Kachin | Kachin | | | | | |
| | Sagaing | Magway | Kayah | Kayah | | | | | |
| | Magway | Mandalay | Shan (E) | Chin | | | | | |
| | Mandalay | Shan (S) | Shan (N) | Shan (E) | | | | | |
| | Shan (S) | Kayin | Kayin | Shan (N) | | | | | |
| | Bago (E) | Bago (E) | Tanintharyi | Tanintharyi | | | | | |
| | Bago (W) | Bago (W) | | Rakhine | | | | | |
| | Mon | Mon | | | | | | | |
| | Rakhine | Yangon | | | | | | | |
| | Yangon | Ayeyarwaddy | | | | | | | |
| | Ayeyarwaddy | | | | | | | | |
| 0 | 11 | 10 | 6 | 7 | 0 | 0 | 0 | 0 | 0 |

Defaulter rate for new smear positive TB cases reduced to 5% from 9% of 2003 cohort and also 5% defaulter rate in TB/HIV patients.

Case fatality rates (CFR) of new smear positive cases were 5% for HIV status unknown TB patients and 27% for TB/HIV co-infected patients. CFRs during treatment were high above 5% in Kachin (6%), Sagaing (8%), Mandalay (7%), Magway (6%), Shan (South) (7%), Bago Division (West) (8%), Mon (6%), Rakhine State (6%) and Ayeyarwaddy Division (6%).

Treatment failure rates were 3% for new smear positive cases with unknown HIV status and 2% for HIV co-infected TB patients.

Treatment failure rates of new smear positive TB cases in Kachin, Kayah, Sagaing, Shan East and Yangon was higher than 2%.

Defaulter rates of new smear positive cases were high above 5% in Kachin State (10%), Kayah (7%), Shan (E) State (8%), Shan (North) State (11%), Kayin State (8%), Tanintharyi Division (9%) and Bago (East) (6%).

Transferred out rate was high only in Taninthayi Division (7%).

Table 31. Treatment outcomes of TB patients with HIV status (2008 cohort)

| Type of T | B patients | Total no. evaluated | Cured | Completed | Deaths | Failure | Defaulter | Transferre d out | Total no. evaluated |
|-----------|-----------------------|------------------------|-------|-----------|--------|---------|-----------|---------------------|------------------------|
| | HIV (+) | 1273 | 640 | 166 | 338 | 22 | 69 | 38 | 1273 |
| New (+) | Unknown HIV status | 39984 | 31427 | 2944 | 2038 | 1043 | 1907 | 625 | 39984 |
| | Total | 41257 | 32067 | 3110 | 2376 | 1065 | 1976 | 663 | 41257 |
| | HIV (+) | 2565 | | 1671 | 632 | 28 | 149 | 85 | 2565 |
| Smear (-) | Unknown HIV status | 38181 | | 31953 | 2351 | 179 | 2859 | 839 | 38181 |
| | Total | 40746 | | 33624 | 2983 | 207 | 3008 | 924 | 40746 |
| | HIV (+) | 157 | 70 | 32 | 45 | 4 | 3 | 3 | 157 |
| Relapse | Unknown HIV status | 4115 | 2745 | 470 | 387 | 203 | 209 | 101 | 4115 |
| | Total | 4272 | 2815 | 502 | 432 | 207 | 212 | 104 | 4272 |
| | HIV (+) | 303 | 4 | 172 | 106 | 4 | 12 | 5 | 303 |
| Other | Unknown HIV status | 2330 | 243 | 1481 | 274 | 46 | 188 | 98 | 2330 |
| | Total | 2633 | 247 | 1653 | 380 | 50 | 200 | 103 | 2633 |
| | HIV (+) | 247 | | 191 | 48 | | 7 | 1 | 247 |
| PC | Unknown HIV status | 22410 | | 21030 | 223 | | 907 | 251 | 22410 |
| | Total | 22657 | | 21221 | 271 | | 914 | 252 | 22657 |
| | HIV (+) | 17 | | 7 | 7 | | 2 | 1 | 17 |
| ТВМ | Unknown HIV status | 419 | | 310 | 65 | | 33 | 11 | 419 |
| | Total | 436 | | 317 | 72 | | 35 | 12 | 436 |
| | HIV (+) | 26 | 7 | 4 | 12 | 0 | 2 | 1 | 26 |
| TAD | Unknown HIV status | 585 | 306 | 98 | 64 | 21 | 73 | 23 | 585 |
| | Total | 611 | 313 | 102 | 76 | 21 | 75 | 24 | 611 |
| | HIV (+) | 42 | 12 | 5 | 18 | 0 | 6 | 1 | 42 |
| TAF | Unknown HIV status | 1073 | 589 | 86 | 99 | 152 | 102 | 45 | 1073 |
| | Total | 1115 | 601 | 91 | 117 | 152 | 108 | 46 | 1115 |
| | HIV (+) | 1337 | | 1024 | 227 | 3 | 47 | 36 | 1337 |
| EP | Unknown HIV status | 6618 | | 5809 | 313 | 24 | 353 | 119 | 6618 |
| | Total | 7955 | | 6833 | 540 | 27 | 400 | 155 | 7955 |
| | HIV (+) | 36 | | 26 | 7 | 1 | 1 | 1 | 36 |
| Hilar | Unknown HIV status | 4794 | | 4562 | 44 | 2 | 155 | 31 | 4794 |
| | Total | 4830 | | 4588 | 51 | 3 | 156 | 32 | 4830 |
| | HIV (+) | 6003 | 733 | 3298 | 1440 | 62 | 298 | 172 | 6003 |
| Total | Unknown HIV status | 120509 | 35310 | 68743 | 5858 | 1670 | 6786 | 2143 | 120509 |
| | Total | 126512 | 36043 | 72041 | 7298 | 1732 | 7084 | 2315 | 126512 |

For **other reporting units**: AHRN (Shan North) reported high failure rate (25%). Mingaladon Special Disease Hospital has highest case fatality rate (36%) and Aung San TB Hospital has highest defaulter rate (22%) of new smear positive TB patients. Reported failure rates of AZG (Shan North), AZG (Yangon), Aung San TB Hospital, 1000 Bedded Hospital (Nay Pyi Taw), New YGH, AZG (Kachin) and PSI were 15%, 11%, 9%, 6%, 6%, 6% and 4% respectively. Medecins du monde (MDM) reported in this year and found defaulter rate as 14%. Case fatality rate of other reporting units was 6%, however, it was high in Waibargi hospital (31%), AZG (Rakhine) (25%), MDM (24%) and AZG (Yangon) (13%) where HIV co-infected TB patients were treated.

As mentioned in table 31, NTP could evaluate 126,512 TB patients registered in 2008. Total completion rate and failure rate were 57% and 1.4% respectively. However, CFR and defaulter rates were high as 5.8% and 5.6% respectively. It is needed to be recognized by all supervisors at all levels to be able to maintain the current achievement of treatment outcome, which could be more affected by HIV coinfection if TB/HIV prevention and control activities are not adequate.

100 90 80 70 60 Percentage 50 40 30 20 10 Rakhine Yangon Sagaing South Kayin Union Magway Shan East Shan North Bago West Ayeyarwady Mandalay **Fanintharyi** Bago East Mon States and Divisions

Figure 10. Treatment success of new positive TB patients (2008 cohort)

■TSR ■Other outcomes

10.8. Evaluation of State/ Divisional and township TB control activities

NTP, Myanmar achieved the global TB control targets of CDR and TSR as 95% and 85% in 2009. The achievement of 2008 was maintained. The performance of State/Divisional level was evaluated and Sagaing, Yangon, Mandalay, Bago (East), Bago (West), Magway and Ayeyarwaddy Divisions, Mon and Rakhine States achieved the targets. Among 316 townships reported, 94 townships achieved the TB control targets in 2008. (8) States/Divisions did not achieve TB control targets.

10.8.1. Kachin State

Kachin State TB center covers 4 districts with 18 townships of Kachin State. The NTP did not received reports from 4 townships (N'ginyan, Hsawlaw, Naungmun, and Khaunglanbu). One township, Sumprabum reported to NTP this year. Therefore, reporting efficiency was 78% (14/18). CDR for 2009 was 122% and when added other reporting units like AZG, CDR increased to 150%. The CR and TSR were 73 and 78% respectively. In Kachin State, there was three townships achieved the NTP targets namely Bamao, Waingmaw and Putao townships. 4 townships (Moemauk 39%, Nogmon 12%, Machanbaw 0%, and Sumprabum 0%) had low CDR where as Chipway had high CR with low CDR. Defaulter rate for Kachin State was 10%. Defaulter rate was high in 7 townships: Mansi (22%), Karmaing (17%), Tanai (18%), Myitkyina (12%), Mokaung (11%), Monyin (10%), and Putao (8%). Treatment failure rate was high above 5% in Karmaing (6%) and Mogaung (6%). Failure rate was higher in other reporting units (6 to 16%). In Kachin State, high CDR, TB/HIV problems, transportation difficulties and human resource shortage were the problems to be solved for better performance. TB/HIV collaborative activities were started in 2007 and the treatment outcomes of the detected TB/HIV patients were reported to both NTP and NAP.

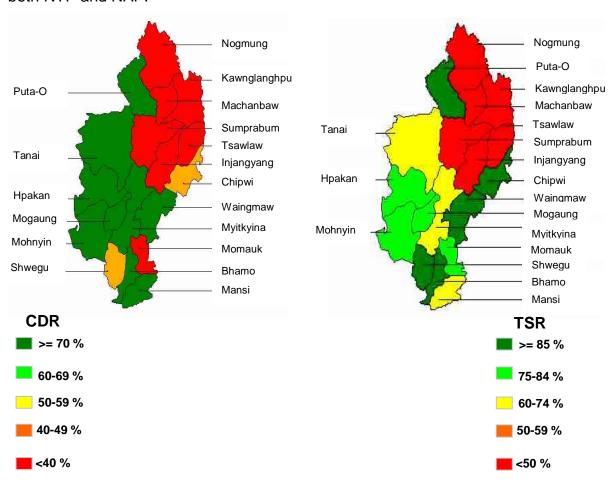
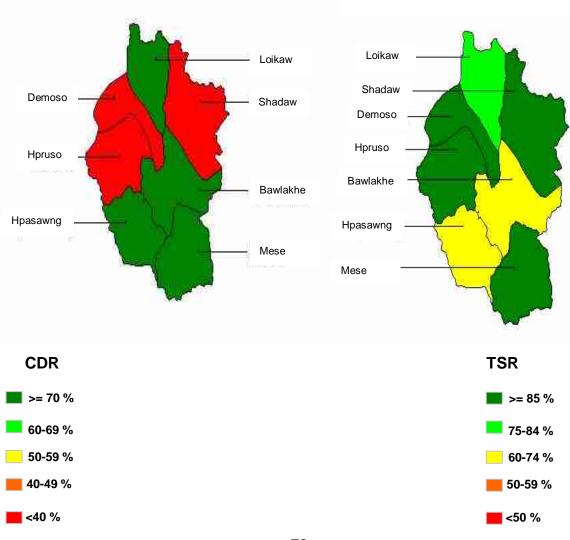


Table 32. Treatment outcome of TB/HIV patients in Myitkyina township (2008 cohort)

| Type of patients | Cured | Completed | Died | Failure | Defaulted | Transferred out | Total |
|-------------------|-------|-----------|------|---------|-----------|-----------------|-------|
| Smear positive | 10 | 2 | 4 | 0 | 8 | 2 | 26 |
| Smear negative | | 30 | 20 | 0 | 9 | 7 | 66 |
| EP | | 17 | 6 | 0 | 5 | 1 | 29 |
| Relapse | 1 | 0 | 1 | 1 | 0 | 1 | 4 |
| Other | 0 | 3 | 2 | 0 | 1 | 0 | 6 |

10.8.2. Kayah state

Kayah State has 7 townships. The CDR was 60%, CR 63% and TSR 82%. Reporting efficiency was 100%. Masae achieved the TB control targets. Demawsoe, Phruso and Shadaw townships had low CDR less than 40% and Phasaung Township had low CR (18%). Defaulter rate was 7% in Kayah State. 2 townships (Bawlake 33%, Loikaw 8%) out of 7 townships had high defaulter rate. Failure rate and CFR of the State were 4%. Main constraint is vacancy in State TB Officer post.



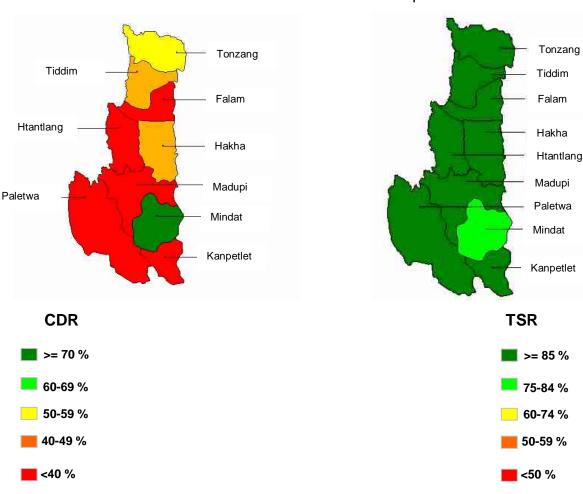
10.8.3. Chin state

Chin State has 3 districts with 9 townships. Its population was 5.1 lakhs. 6 townships from Northern Chin State is covered by Sagaing Divisional TB Officer. Palatwa township and Kanpetlet and Matupi townships from Southern Chin State is covered by Rakhine State TB Officer and Magway Divisional TB Officer respectively. The CDR was 40%, CR was 71% and TSR 90%. Reporting efficiency was 100%.

There was no township in Chin State which did not achieve the TB control targets. Out of 9 townships in Chin State, except Mindat township, 6 townships had low CDR. 3 townships with high cure rate were Falam, Hakha and Htantalang townships. The remaining 6 townships had low CDR less than 80%.

Defaulter rate was 3%. 2 townships (Palatwa 8%, Tiddim 7%) out of 9 townships had high defaulter rate. Failure rate and CFR of the State were 2% and 4% respectively.

Main constraint is no sanction of State TB Officer post.

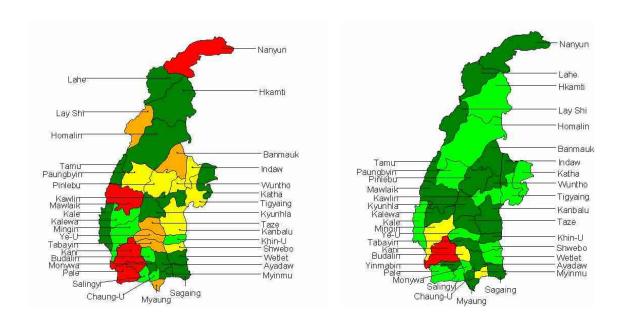


10.8.4. Sagaing Division

Sagaing Divisional TB Centre covers 6 districts with 37 townships in Sagaing Division and 5 townships in Northern Chin State. Population of Sagaing Division was 6.3 millions. Sagaing Division achieved CDR 61%, CR 78%, TSR 85% in 2009. CDR was increased to 70% when contribution of other partners was added. Reporting efficacy was 100%.

4 townships (Myinmu, Kyunhla, Tamu and Lahel) out of 37 townships in Sagaing Division. CDR was higher than 100% in Khamti and Tamu townships.

Low CDR less than 40% was reported in 5 townships: Kani (35%), Pale (33%), Yinmarbin (33%), Mawlaik (24%) and Nanyun (7%). Low CR (=50%) was reported in Kyunhla (44%) and Lashi (50%) townships. Nanyun, Kani, Pale and Mawleik townships was fall in the category of low CDR and low CR.





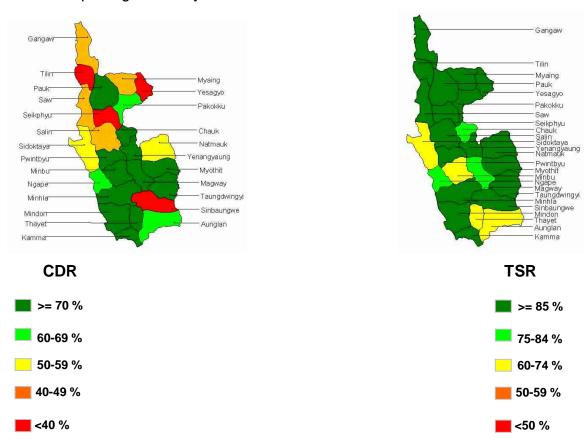
In 2008 cohort, Defaulter rate was 3%, case fatality rate was 8% and treatment failure rate was 3% for Sagaing Division. Defaulter rates were high above 10% only in 1 township in Sagaing Division (Lahel 10%). CFR was high above 10% in Nanyun (14%), Pinlebu (15%), Kawlin (15%), Wetlet (13%), Mongywa (13%), Kyunhla (11%), Salingyi (11%), Paungpyin (11%) and Homalin (10%) townships.

The defaulter rate is decreased from 5% in 2007 cohort to 3% in 2008 cohort in Sagaing Division.

Major problems of Sagaing Division were identified as transportation difficulty for supervision and delay in reporting, human resource shortage and frequent turn over of trained staff, increase work load on divisional TB laboratory for Quality Control.

10.8.5. Magway Division

Magway Divisional TB Centre covers 5 districts with 25 townships in Magway Division. Its population was 4.1 millions. Divisional TB Officer is responsible for 2 townships in Chin State (South). Magway Division achieved CDR 67% and CR 76% and TSR 86%. CDR increased to 80% when contribution of other reporting units was added. Reporting efficiency was 100%.



In Magway Division, 7 townships (Taungdwingyi, Myothit, Yenanchaung, Pauk, Minhla, Kanma and Mindon) achieved the TB control targets. CR of Myaing township was low (47%) and very low in Saytoketayar township (21%). CDR was lower than 40% in 4 townships (Hteelin 33%, Yesagyo 32%, Seikphyu 30% and Sinpaungwe 19%)

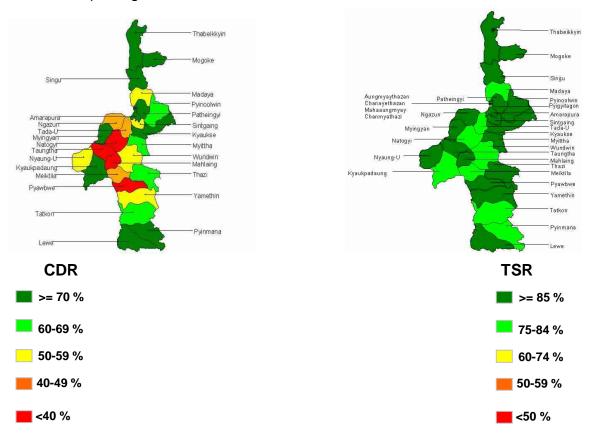
Defaulter rate of Division was 4%. High defaulter rate was in Thayet (16%), Saytoketayar (13%) and Chauk (10%).

. CFR for the Division was 6% and it was high in Aunglan (18%), Ngape (13%), Hteelin (13%) and Kamma (10%)..

Low community awareness, poor accessibility, transport difficulties, low motivation of staff and geographical terrain were identified as problems for Magway Division.

10. 8. 6. Mandalay Division

Mandalay Divisional TB Centre covers 7 districts with 31 townships of Mandalay Division. Its population was 7 millions. Mandalay Division achieved 64% CDR, 81% CR and 86% TSR. Reporting efficacy was 100% in Mandalay Division. If the other reporting units were added CDR increased to 82%.



8 townships out of 31 townships achieved the TB control targets. 6 townships got CDR less than 40% (Meikhtilar, Mahlaing, Natogyi, Taungtha, Pyawbwe, Tadaoo).

Defaulter rate of the Mandalay Division was 3%, however it was high above 10% in Pyinmana township. Failure rate was high above 5% in Madayar. Case fatality rate was 7% for Mandalay Division. CFR high above 8% in Meikhtila, Pyinmanar, Yamethin, Madayar, Kyaukpadaung, Myingyan, Wundwin, Tadaoo and Pyigyidagon townships. Meikhtila township had a high transferred out problem (>5%).

Problems were identified as frequent turn over of trained staff, human resource shortage and inconsistent population data to be used for target setting and monitoring purpose.

Table 33. Performance of Tuberculosis Diagnostic Centre, Mandalay in 2009

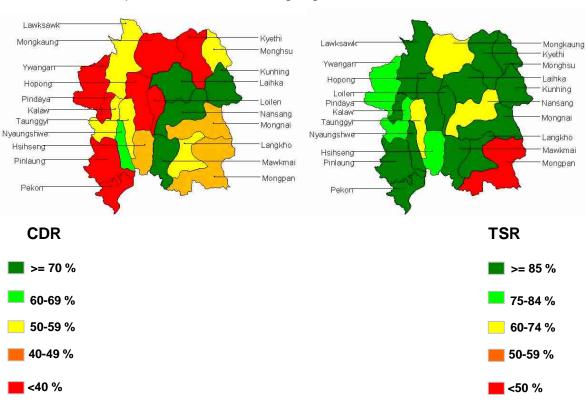
| Month | | New cases | | Follow-up | Total |
|-----------|-----------|-----------|-------|-----------|-------|
| | 0-14 year | >15 above | Total | | |
| January | 50 | 369 | 419 | 533 | 952 |
| February | 64 | 415 | 479 | 738 | 1217 |
| March | 91 | 450 | 541 | 829 | 1370 |
| April | 75 | 326 | 401 | 532 | 933 |
| 615May | 91 | 401 | 492 | 481 | 973 |
| June | 107 | 468 | 575 | 615 | 1190 |
| July | 187 | 394 | 581 | 711 | 1292 |
| August | 147 | 403 | 550 | 741 | 1291 |
| September | 156 | 420 | 576 | 782 | 1358 |
| October | 120 | 393 | 513 | 729 | 1242 |
| November | 113 | 377 | 490 | 641 | 1131 |
| December | 69 | 390 | 459 | 659 | 1118 |
| Total | 1270 | 4806 | 6076 | 7991 | 14067 |

Mandalay District is implementing the "Integrated HIV care" Project with the support of MoH (NTP and NAP together with Medical Care unit of Mandalay General Hospital), Union and Yadana oil company.

10.8.7. Shan State (South)

Shan State (South) TB Centre covers 2 districts with 21 townships of Southern Shan State. Its population was 2.1 millions. Southern Shan State achieved **49**% CDR, 76% CR and 86% TSR. Reporting efficacy was 100%. If the other reporting units were added CDR increased to 51%.

In Southern Shan State, only Maukmae, Kunhein and Laikha townships achieved the TB control targets. Out of 21 townships 8 townships were lower than CDR 40% (Loilem, Kyeethi, Mongkaing, Hopone, Hpekon, Pindaya, Pinlaung and Ywangan townships). Out of them, only Mongkaing township had treatment success rate lower than 80%. Defaulter rate was 5% for Southern Shan State. It was high in 6 townships namely, Loilem, Mongkaing, Namsan, Taunggyi, Hpekone and Hsiseng townships. Case fatality rate was 7% and it was higher than 8% in Maukmae, Hopone, Hsiseng, Kalaw, Yaksauk and Ywangan townships. Failure rate was 2% for Shan State (South). Problems identified in Southern Shan State were low case detection rate, high case fatality rate, high defaulter rate, vacancies of laboratory technicians, transport difficulties and language barriers.



Taunggyi Township is implementing the TB/HIV collaborative activities. TSR of HIV positive, new smear positive TB patients was 57%.

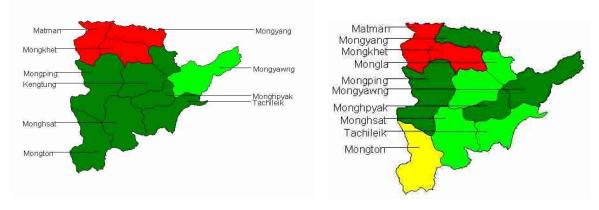
Table 34. Treatment outcomes of TB/HIV patients

| Type of Patients | Cured | Completed | Died | Failure | Defaulte d | Transferred out | Total |
|---------------------|-------|-----------|------|---------|---------------|-----------------|-------|
| Smear positive | 3 | 1 | 3 | 0 | 0 | 0 | 7 |
| Smear negative | | 8 | 0 | 0 | 9 | 0 | 23 |
| EP | | 3 | 1 | 0 | 0 | 0 | 4 |

10.8.8. Shan State (East)

Shan State (East) TB centre covers only Shan State (East) and it has 4 districts and 10 townships. Total population of the State was 7.1 lakhs. It achieved CDR 90%, CR 70% and TSR 84%. Reporting efficacy was 90%. There was no report from Matman. CDR was increased to 90% when contribution of other reporting units was added.

Two townships (Mongping and Monpyak) achieved the NTP targets. Number of townships achieved the targets was reduced from 4 townships to 2 townships compared to 2008. Mongkhat and Mongyan townships got CDR less than 40%.





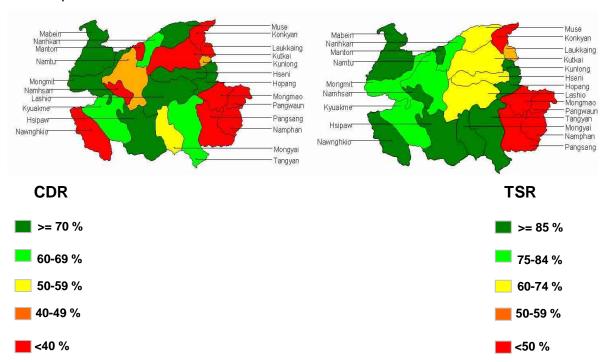
Defaulter rate of the State was 8% and it was higher than 10% in Mongpying (12%), Mongton (29%) and Mongyaung (14%) townships. Case fatality rate of the State was 3%.

Problems identified were shortage of human resources, weak in case finding and case holding, frequent transfer of health staff, language barrier, difficulties in transportation, low community awareness about TB and narrow drug store and lack of X-ray machine for State TB center.

10.8.9. Shan State (North)

Shan State (North) TB Centre covers 5 districts with 24 townships of Shan

(North) State. Its population was 2.7 millions. It achieved CDR 55%, CR 69% and TSR 80% in 2007 cohort. The CDR increased to 80% when contribution of other reporting units was added. Reporting efficiency was 79% (19/24). NTP did not receive the reports from Kongyan, Panwine, Mongmaw, Manphant and Narphant townships.



Hopan, Hsipaw and Mabein townships achieved the TB control targets. Only Pangyan township was identified as low CDR and low CR township. There were 5 townships (Naungcho 35%, Namsam 35%, Kutkai 28% and Manton 27%) having low CDR.

Defaulter rate was 11% for the whole State. The defaulter rate was high =10% in 7 townships (Pangyan 55%, Laukkai 27%, Lashio 23%, Kutkai 18%, Muse 17%, Namkham 15% and Theinni 14%) Case fatality rate for the state was 5% and CFR was high above 10% in Namtu (13%) and Theinni (11%) townships.

The main problems were low CDR, low CR and high defaulter rates.

TB/HIV collaborative activities were started in 2007 and the treatment outcomes of the detected TB/HIV patients were reported.

Table 35. Treatment outcomes of TB/HIV patients

| Type of Patients | Cured | Completed | Died | Failure | Defaulte d | Transferred out | Total |
|------------------|-------|-----------|------|---------|---------------|-----------------|-------|
| Smear positive | 6 | 0 | 1 | 2 | 5 | 0 | 14 |
| Smear negative | | 8 | 2 | 0 | 7 | 0 | 17 |
| EP | | 2 | 0 | 0 | 0 | 0 | 2 |

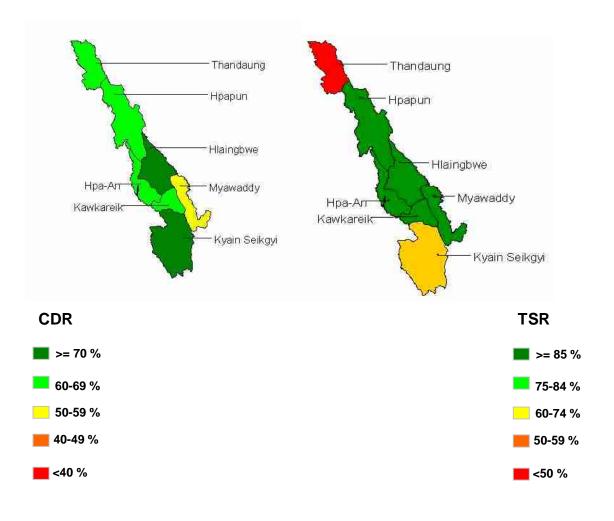
10.8.10. Kayin State

Mon State TB Centre covers Mon State and Kayin State: 2 districts in Mon State with 10 townships and 3 districts in Kayin State with 7 townships. Therefore, DOTS is implementing in 17 townships. The population of Kayin State was 1.5 millions.

Kayin State achieved CDR 92%, CR 76% and TSR 83%. Reporting Efficacy was 100% in both States. CDR of Kayin State increased to 97% when contribution of PPM –DOTS was considered.

For Kayin State, no township reached the TB control targets. 4 townships (Kawkareik, Kyarinnseikkyi, Hlaingbwe and Thandaung townships) had low CDR. Defaulter rate of Kayin State was 4% and high above 10% in only one township in Thandaung (13%).

The main problem of Kayin State was low case detection rate. Special attention should be provided to Myawaddy, Kawkareik and Thandaung townships of Kayin State to improve the overall performance of Kayin State.



10.8.11. Tanintharyi Division

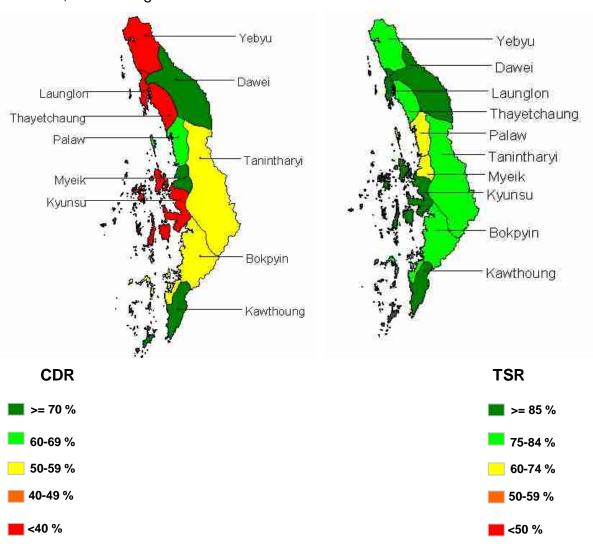
Tanintharyi Divisional TB Centre covers only 3 districts with 10 townships of Tanintharyi Division and its population was 1.6 millions. It achieved CDR 72%, CR 74% and TSR 79%. CDR was increased to 75% when contribution of other reporting units was added. Reporting Efficacy was 100%.

Dawei and Kawthaung townships achieved the TB control targets. Longlon, Thayetchaung, Yebyu and Kyunsu townships were identified as low CDR townships. CR was low below 55% only in Palaw township.

Default rate was 9% for the division and Palaw (26%), Bokepyin (15%) and , Thayetchaung (11%) were having defaulter rate =10%.

Transfer out rate in Taninthayi division was 7% and the highest transfer out rate 15% was only in Myeik.

The main problems of Taninthayi Division were low community awareness, low CDR, CR and high defaulter rate.



10.8.12. Bago (East) Division

Bago Divisional TB Centre covers Bago (East) and (West) Divisions totally 28 townships.

Divisional TB Officer is responsible for 4 districts in Bago (East) and Bago (West) with 14 townships in each division.

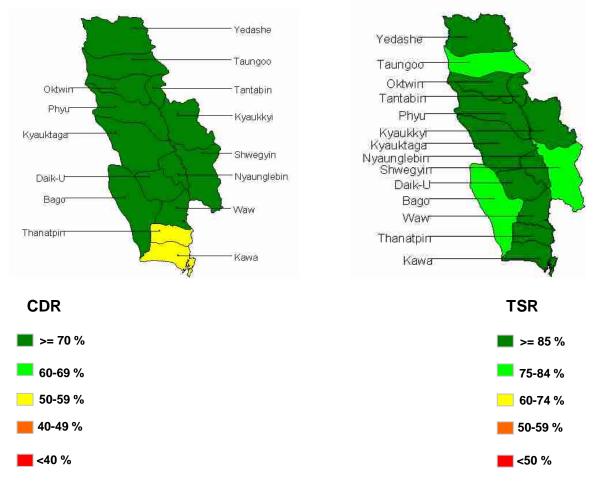
Total population was about 2.8 millions in Bago (East) Division.

It achieved CDR 82%, CR 78%, and TSR 87%. Reporting efficacy of the division was 100%. CDR of Bago (East) Division was increased to 103% when other reporting units were added .

Seven townships (Daik U, Kyauktagar, Thanapin, Waw, Kyaukkyi, Phyu and Yedashe) from Bago (East) Division were achieved the TB control targets. There was no township with low CDR and low CR in Bago (West) Division.

Defaulter rate was 6% in Bago (East) division. It was higher than 10% in Shwekyin township (11%). Case fatality rate was 5% in Bago (East) Division and it was 11% in Oktwin.

Bago (East) division identified transfer of trained health staff, poor motivation of health staff, low community awareness about TB and TB treatment and transport difficulties for supervision as problems.



10.8.13. Bago (West) Division

Bago Divisional TB Centre covers Bago (East) and (West) Divisions totally 28 townships.

Divisional TB Officer is responsible for 4 districts, 2 each in Bago (East) and 2 each in Bago (West) with 14 townships in each division. Total population was 2 millions in Bago (West) division.

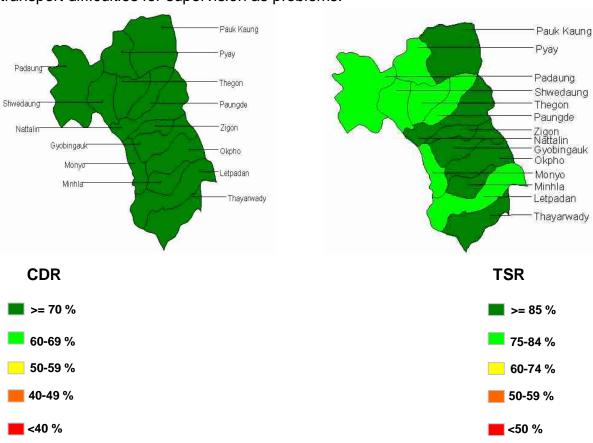
Only District TB Centre is located in Bago (West) division and has 2 districts with 14 townships. It achieved CDR 105%, CR 80%, and TSR 85%. Reporting efficacy of the division was 100%. CDR of Bago (West) Division was 105% for NTP and increased to 114% when other reporting units were added.

Seven townships (Paukkaung, Tharyarwaddy, Zegone, Minhla, Okkpo, Gyobinkyauk and Nattalin) from Bago (West) Division were achieved the TB control targets.

There was no township with low CDR and low CR in Bago (West) Division.

Defaulter rate was 3% Bago(West) division. It was higher than 10% in Thegon township (11%). Case fatality rate was 8% in Bago (West) Division and it was about and above 10% in Pyay, Paukkaung, Paungde, Padaung, Shwedaung and Moenyo Townships.

Bago (West) Division identified transfer of trained health staff, poor motivation of health staff, low community awareness about TB and TB treatment and transport difficulties for supervision as problems.



10.8.14. Mon State

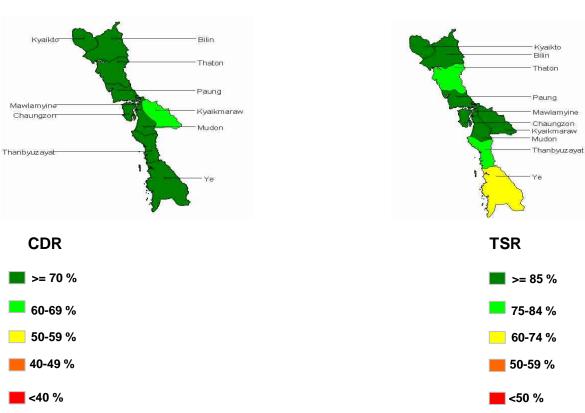
Mon State TB Centre covers Mon State and Kayin State: 2 districts in Mon State with 10 townships and 3 districts in Kayin State with 7 townships. Therefore, DOTS is implementing in 17 townships. The population of Mon State was 1.5 millions.

Mon State achieved CDR 114%, CR 81% and TSR 85%. CDR of Mon State increased to 129% when contribution of PPM –DOTS was considered.

6 townships (Mawlamyaing, Chaungzon, Mudon, Belin, Kyaikhto and Paung) from Mon State achieved the TB control targets. Defaulter rate of Mon State was only 5%. Case fatality rate of Mon State was 6%. Case fatality rate over 10% is found in Ye township only (11%).

The main problem of Mon State was high case fatality rate. Special attention should be provided to Ye, Kyaikmaraw and Thanphyuzayak townships.

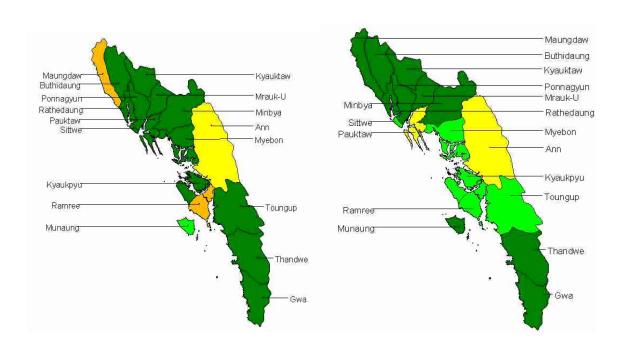
The new X-ray machine funded by GFATM has been installed and now it is well functioning in Mon State.



10.8.15. Rakhine State

Rakhine State TB Centre covers Rakhine State and DOTS is implementing in 17 townships. It achieved CDR 87%, CR 74% and TSR 86%. Reporting efficacy was 100%. CDR was increased to 91% when the contribution of partners was added.

8 townships (Buthetaung, Rathedaung, Kyauktaw, Minbya, MyaukU, Ponnagyun, Thandwe and Gwa) out of 17 townships achieved TB control targets.





Defaulter rate of Rakhine State was 5%. There were high defaulter rate above 10% in 3 townships: Pauktaw (33%), Ann (27%) and Myebon (15%). Case fatality rate was 6% in Rakhine State and over 5% case fatality rate was observed in 8 townships: Kyaukphyu, Yanbye, Maungtaw, Buthidaung, Sittwe, MyaukU, Myaybon, Thandwe and Taunggup townships. Although failure rate of Rakhine State was 2%, failure rate over 2% was found in 3 townships: Yambye, Maungtaw and Sittwe townships.

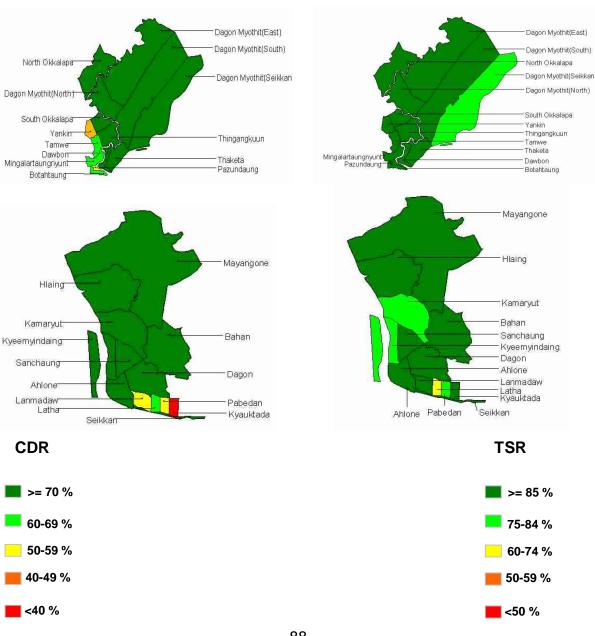
The main problem of Rakhine State was high defaulter rate, high case fatality rate and high failure rate. Special attention should be provided to Yambye, Maungdaw, Pauktaw and Ann townships. Rakhine State TB Officer is also responsible for Palettwa township of Chin State.

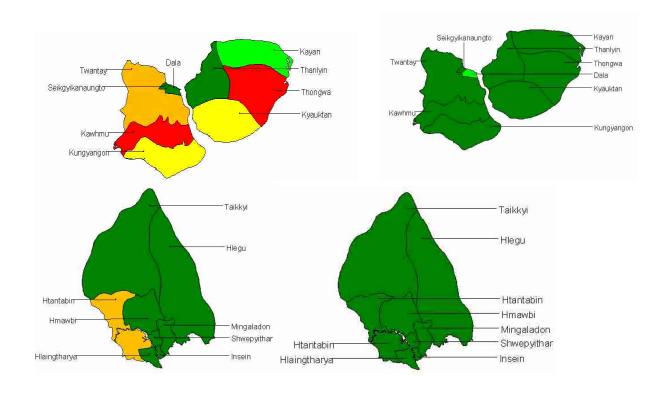
10.8.16. Yangon Division

Yangon Divisional TB Centre covers 4 districts with 45 townships of Yangon Division. Its population was 5.8 millions. It achieved CDR of 85% and if added the contribution of other reporting units CDR increased to 110%. Cure rate and TSR increased to 81% and 89% compared to previous years. Reporting efficacy was 100%.

The estimated new smear positive TB patients were calculated with 170/100,000 population based on the Yangon Divisional TB Prevalence Survey results (2006). 4 townships: Kyauktada, Kawhmu, Twantay, Thongwa and Cocogyun townships (CDR <40%) were needed to improve the case finding activities. Only 19 townships: Dawbon, Dagon(North), Thaketa, Thingungyun, Yankin, Dagon(East), Seikkan, Dagon, Bahan, Mayangone, Hlaing, Ahlone, Thanlyin, Seikkyikhanaungto, Mingalardone, Shwepyithar, Hlaingthayar, Hmawbi and Hlegu townships achieved the both targets in 2009.

Defaulter rate was reduced to 3% from 13% in 2003 cohort. Although Case fatality rate was 4% in Yangon Division, high (=5%) in 10 townships: Dagon (North), Thingungyun, Kamaryut, Kyimyindine, Dagon, Lanmadaw, Ahlone, Kungyangone and Taikkyi townships.







Tuberculosis Diagnostic Centre (Yangon)

Referred TB suspects increased in 2009 in both Aungsan and Latha diagnostic centers.

 Table 36.
 Case load of TB Diagnostic Centers in Yangon Division in 2009

| Month | | red TB pects | N | ew | Follo | ow-up | Total | | |
|-----------|-----------|-----------------|------|-------|-------|-------|-------|-------|--|
| | UTI | Latha | ITU | Latha | UΤΙ | Latha | UTI | Latha | |
| January | 659 | 535 | 281 | 243 | 572 | 984 | 1609 | 1309 | |
| February | 663 | 493 | 275 | 219 | 557 | 905 | 1608 | 1199 | |
| March | 646 | 439 | 274 | 207 | 614 | 947 | 1629 | 1228 | |
| April | 492 | 373 | 261 | 170 | 617 | 786 | 1438 | 1038 | |
| May | 731 | 433 | 223 | 235 | 568 | 916 | 1712 | 1202 | |
| June | 738 | 472 | 260 | 218 | 487 | 893 | 1576 | 1158 | |
| July | 820 | 522 | 280 | 242 | 522 | 1164 | 1734 | 1346 | |
| August | 749 | 608 | 286 | 281 | 476 | 1193 | 1612 | 1312 | |
| September | 770 | 553 | 307 | 253 | 473 | 1187 | 1663 | 1436 | |
| October | 747 | 566 | 288 | 245 | 531 | 1156 | 1691 | 1539 | |
| November | 698 | 663 | 261 | 305 | 442 | 1213 | 1533 | 1647 | |
| December | 668 | 542 | 244 | 250 | 456 | 1114 | 1473 | 1528 | |
| Total | 8381 8314 | | 2350 | 2868 | 6315 | 12458 | 19278 | 15942 | |

JICA (MIDC) project supported "Half year TB evaluation meeting", Yangon.

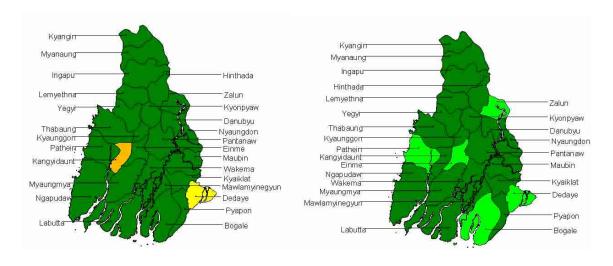
Problems identified in Yangon Division were low CDR in townships mostly in South and West Districts and no laboratory in (14) townships of Yangon Division. Major errors were repeated found in South Okkalapa and Dagon (North) townships.

10.8.17. Ayeyarwaddy Division

Ayeyarwaddy Divisional TB centre covers only Ayeyarwaddy Division which has 5 districts with 26 townships. Total population of the division was about 6.5millions. It achieved CDR 92%, CR 81% and TSR 88%. Reporting efficacy was 100%. CDR increased to 102% when other reporting units were added.

Seventeen townships achieved the TB control targets. Nmber of townships achieved the targets was increased from 16 townships to 17 townships compared to 2008. Out of 26 townships, Dedaye township got CDR <40% and Kangyidauk got CDR 40%. Defaulter rate of Ayeyarwaddy Division was only 4% and Zalun township was high above 10% in 2008 cohort. Case fatality rate for the division was 6% and CFR of Bogalay, Laputta and Nyaungdone townships were above 10%.

Performance of Ayeyarwaddy division is recognized as the best among 17 States and divisions although the performance could be affected due to cyclone Nargis. Problems identified were delay sending of QC slides and weak supervision of BHS.





10.9 Possible actions to be taken for the problems

A. Case Detection Rate less than 40%

- to promote community awareness by widespread health education concerning TB with the support of IEC materials
- to educate family members of TB patients and promote contact tracing
- to advocate TB control activities to general practitioners and local NGOs and try to involve them
- to advocate community and registered TB patients to involve in TB control
- to promote early case referral for diagnosis and treatment from GPs
- to assess the laboratory performance, to ensure 3 sputum smear examinations are being done for all chest symptomatic
- to ensure all smear positive TB patients in the laboratory register are registered and treated
- to ensure that sputum microscopy is accessible to patients with trained laboratory technicians in place
- to improve laboratory quality assurance system and involve TMOs in laboratory supervision
- to establish sputum collection points in hard to reach areas
- to improve the skills of health staff who diagnose the TB patients
- to promote TB suspect identification and referral by BHS
- to identify TB suspected patients as early as possible

B. Cure Rate less than 50% in new smear positive TB cases

- to strengthen health education session for TB patients at the time of registration for treatment and during follow up visits for sputum microscopy
- to provide TB counseling to TB patients especially for treatment adherence
- to ensure every dose of medication is directly observed ie. to assign DOT provider for every TB patient put on treatment
- to intensify the follow-up sputum examination during and at the end of treatment
- to take accurate history taking for the most effective treatment.
- to give refresher training to DOT supervisors and DOT providers if required
- to consider HIV co- infection
- to use quarterly cohort review meeting for early identification of missed dose patients
- to closely monitor the performance of partners at all level and take timely action especially for partners treating TB/HIV

C. Cure Rate less than 50% and Case Detection Rate less than 40%

• to treat TB patients till cured with DOTS and raise the Cure rate first and then to raise the case detection rate according to suggestions A and B.

D. CDR more than 100% and Cure Rate less than 50%

- to assess laboratory quality assessment system is implementing or not
- to ensure that TB patients reside in the respective township are being treated
- to treat TB patients till cured with DOTS
- to do regular sputum follow-up examination during the treatment which is the responsibility of DOT providers and supervisors of TB patients
- to check the township actual population
- to evaluate the current situation of TB in terms of prevalence of sputum smear positive TB cases in that particular township and how much it deviates from the national figure (1 sputum positive TB cases per 1000 population)
- to conduct epidemiological surveillance

E. Cure Rate >85% with Case Detection Rate less than 40%

• to maintain CR and raise the CDR as suggestion A.

F. Sputum Positivity Rate less than 10%

- to ensure 3 sputum specimens are examined for all TB suspects
- to check the TB suspect definition is followed or not
- to check quality of laboratory performance
- to check quality of stains and microscopes using in that microscopy centre
- to improve the accessibility of TB suspects to sputum microscopy centers

G. Sputum Positivity Rate more than 10%

- to evaluate the prevalence of TB in that particular township
- to improve the accessibility of TB suspects to sputum microscopy centers

H. Sputum Conversion Rate less than 80-85% in new smear positive TB cases

- to explain all the staff involving in TB control about the importance of follow-up sputum examination in TB control
- to ensure sputum microscopy accuracy with quality assurance system

- to check that every dose of medication is directly observed
- to check categorization of TB patients based on proper history taking is correct or not
- to check correctness of TB-07, Block 5
- to provide qualified DOT to every patient
- to monitor the drug resistant TB situation

I. Death Rate more than 5% in new smear positive TB cases

- to identify TB suspect as early as possible and refer
- to advocate local GPs and encourage more prompt referral for diagnosis and treatment
- to ensure that every dose of medication is directly observed
- to consider HIV prevalence among TB patients
- to find out other causes of death other than TB

J. Treatment Failure Rate more than 5% in new smear positive TB cases

- to check categorization of TB patients based on proper history taking is correct or not
- to ensure the quality of anti-TB drugs, stored in appropriate condition and being used before their expiry date
- to ensure that every correct dose of medication is directly observed, especially in initial phase
- to consider level of primary drug resistance in the community

K. Defaulter Rate more than 10% in new smear positive TB cases

- to strengthen DOT by supervision and close monitoring
- to educate TB patients concerning TB disease, its treatment and follow-up
- to provide adherence counseling as necessary
- to instruct the DOT supervisors and providers how to take action for patient with missed dose
- to find the patients with missed dose within 1 week (not to miss more than 1-2 doses) and put under DOT again.

L. Transferred out Rate more than 5% in new smear positive TB cases

- to ensure defaulted TB patients are not counted as transferred out cases
- to ask for the treatment outcome of transferred out patient

M. Cure Rate less than 50% but Treatment Success Rate more than 70% in new smear positive cases

- to intensify follow-up sputum examination as 2nd , 5th and 6th month of treatment in new smear positive Category I TB patients
- to explain all the staff involving in TB control the crucial importance of followup sputum examination in TB control
- to make sure defaulted TB patients are not counted as completed TB patients and misuse of anti-TB drugs

N. Proportion of new smear positive TB patients out of all pulmonary TB cases is less than 55%

- to check direct sputum microscopy is used as a diagnostic method or not
- to check 3 sputum smear examinations are being done on all chest symptomatic
- to check quality assessment system of laboratory performance

11.1 Recommendations

- 1. To mobilize the resources for uninterrupted qualified drug supplies
- 2. To scale up decentralization of DOTS services to appropriate SHU/RHCs
- 3. To develop Advocacy, Communication and Social Mobilization (ACSM) strategy appropriate for the Myanmar community
- 1. To evaluate the activities which promote TB case finding especially in hard to reach area and plan for scale up
- 2. To evaluate the defaulter reduction actions and scale up in townships with high defaulter rate
- To evaluate and scale up the prevention and control activities for TB/HIV coinfection and MDR-TB
- 4. To scale up on Public-Private Mix and strengthen the public-public Mix
- 5. To review and revise the national guidelines according to new strategy
- 6. To cover private laboratories including which are using by PPM-DOTS under the external quality assurance system of NTP
- 7. To deploy the important posts which are not sanctioned in NTP: X-ray technicians in all State/Divisional TB centers, one pharmacist each for central, Upper and Lower Myanmar TB stores.
- 8. To strengthen coordination mechanism related to TB control at all levels

11.2 Conclusion

NTP, Myanmar covered all the townships since November, 2003. NTP achieved case detection rate 95% and cure rate 78% (treatment success rate 85%) in 2009 and reached the global TB control targets since 2006. The achievement should be sustained by implementing innovative approaches in line with Stop TB Strategies and Millenium Develoment Goals, according to the accessibility status of different location in the country. The National TB Prevalence Survey was conducted in June 2009, aiming to measure the magnitude of TB in our country. If we know the actual prevalence of TB, target setting will be changed from current situation and case detection rate will be one third or half of our achievement. Therefore, we must try to improve our case finding activities by innovative approaches. The townships, which have not reached the targets, should scale-up their effort with appropriate and innovative strategies. In conclusion, improvement of coordination with the partners is also important to maintain the achievement.

NTP (Central) Drug Store Balance (2009)

(Annex 1)

| | Central) (2009) | 4FDC | 2FDC | ЕТВ | ETB | PZA | S 1 G | S/N | D/W | R150 | Cat I Kit | Cat II Kit | Ped HRZ | Ped HR | Ped HRZ | Ped HR |
|----------------|--------------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-----------|---------------|------------|--------|---------|-----------|
| Packir | ng Size | 672's | 672's | 672's | 100's | 672's | 50's | 100's | 100's | 100's | 1's | 1's | 1000's | 1000's | 90's | 90's |
| Opening | Balance | 6693 | 32795 | 1442 | 0 | 6928 | 5020 | 980 | 420 | 0 | 5961 | 0 | 660 | 1488 | 0 | 0 |
| Rece | eived | 10391 | 25379 | 2990 | 15028 | 0 | 10289.6 | 7696 | 7500 | 220 | 45000 | 0 | 0 | 0 | 63717 | 128124 |
| Iss | ued | 13310 | 44299 | 4432 | 15028 | 6928 | 12170.6 | 6096 | 4839 | 220 | 16452 | 0 | 660 | 1488 | 61303 | 109756 |
| Closing | Balance | 3774 | 13875 | 0 | 0 | 0 | 3139 | 2580 | 3081 | 0 | 34509 | 0 | 0 | 0 | 2414 | 18368 |
| | 4/2011 | | | | | | | | | | 6477 | | | | | |
| | 5/2011 | 437 | | | | | | | | | | | | | | |
| | 6/2011 | | | | | | | | | | 20927 | | | | 2414 | |
| | 8/2011 | | | | | | | | | | | | | | | 18368 |
| Evnim | 12/2011 | | 13875 | | | | | | | | | | | | | |
| Expiry Date | 2/2012 | 3337 | | | | | | | | | | | | | | |
| Date | 3/2012 | | | | | | 1027 | | | | 7105 | | | | | |
| | 4/2012 | | | | | | 2112 | | | | | | | | | |
| | 11/2012 | | | | | | | 1880 | | | | | | | | |
| | 5/2013 | | | | | | | 700 | | | | | | | | |
| | 11/2013 | | | | | | | | 3081 | | | _ | | | | |

Lower Myanmar Drug Store Balance (2009)

(Annex 1)

| Lower Myan (200 | _ | 4FDC (Tab) | 2FDC (Tab) | ETB (Tab) | PZA (Tab) | S 1 G (Vial) | S/N (Pcs) | D/W (Amp) | Cat I Kit (Kit) | Cat II Kit (Kit) | Ped HRZ (Tab) | Ped HR (Tab) | INH 300mg (Tab) |
|--------------------|---------------------------|---------------|---------------|--------------|--------------|-----------------|--------------|--------------|--------------------|---------------------|------------------|-----------------|-----------------------|
| Opening | Balance | 2037504 | 6785856 | 583968 | 682080 | 112100 | 112600 | 110800 | 4754 | 0 | 25650 | 65520 | 0 |
| Recei | ved | 6237504 | 19582752 | 2237592 | 4046112 | 273400 | 355000 | 356000 | 12472 | 0 | 1575450 | 2877120 | 295680 |
| Issu | Issued Closing Balance | | 23950752 | 2794168 | 4728192 | 345050 | 433700 | 431800 | 15782 | 0 | 1601100 | 2669220 | 161280 |
| Closing E | Balance | 731136 | 2417856 | 27392 | 0 | 40450 | 33900 | 35000 | 1444 | 0 | 0 | 273420 | 134400 |
| | 5/2011 | 731136 | | | | | | | | | | | |
| | 6/2011 | | | | | | | | | | | | |
| | 8/2011 | | | | | | | | | | | 273420 | |
| Expiry | 9/2011 | | | | | | | | 1444 | | | | |
| Date | 12/2011 | | 2417856 | | | | | | | | | | |
| | 4/2012 | | | | | 40450 | | | | | | | |
| | 10/2012 | | | 27392 | | | | | | | | | |
| | 11/2012 | | | | | | 33900 | | | | | | |
| | 11/2013 | | | | | | | 35000 | | | | | |
| | 8/2014 | | | | | | | | | | | | 134400 |

Upper Myanmar Drug Store Balance (2009)

(Annex 1)

| Upper My Drugs (2 | | 4FDC | 2FDC | ETB | ETB | PZA | S1G | S/N | D/W | Cat I Kit | Cat II Kit | Ped HRZ | Ped HR | Ped HRZ | Ped HR | INH 300mg |
|----------------------|---------|-------|-------|-------|-------|-------|------|-------|-------|--------------|---------------|------------|-----------|------------|-----------|--------------|
| Packing | Size | 672's | 672's | 672's | 100's | 672's | 50's | 100's | 100's | 1's | 1's | 1000's | 1000's | 90's | 90's | 672's |
| Opening B | Balance | 2075 | 9178 | 355 | 0 | 1875 | 960 | 448 | 480 | 552 | 0 | 707 | 1592 | 0 | 0 | 65 |
| Receiv | red | 4026 | 15140 | 1823 | 4500 | 1909 | 4430 | 2294 | 2139 | 3876 | 0 | 250 | 1102 | 7900 | 15800 | 0 |
| Issue | ed | 4765 | 16372 | 2142 | 2161 | 3456 | 4210 | 2169 | 2064 | 3829 | 0 | 957 | 2694 | 3000 | 6001 | 65 |
| Closing B | alance | 1336 | 7946 | 36 | 2339 | 328 | 1180 | 573 | 555 | 599 | 0 | 0 | 0 | 4900 | 9799 | 0 |
| | 2/2010 | | | | | 328 | | | | | | | | | | |
| | 6/2011 | | | | | | | | | 599 | | | | 4900 | 9799 | |
| | 7/2011 | | 7946 | | | | | | | | | | | | | |
| Expiry | 2/2012 | 1336 | | | | | | | | | | | | | | |
| Date | 4/2012 | | | | | | 1180 | | | | | | | | | |
| _ 5.55 | 10/2012 | | | | 2339 | | | | | | | | | | | |
| | 11/2012 | | | | | | | 573 | | | | | | | | |
| | 3/2013 | | | 36 | | | | | | | | | | | | |
| | 11/2013 | | | | | | | | 555 | | | | | | | |

NATIONAL TUBERCULOSIS PROGRAMME

Laboratory supplies and equipments (2009)

| Sr.No. | Items | Opening balance (31-12-08) | Received 2009 | Issued 2009 | Closing balance (31-12-09) |
|--------|--------------------------------------|-------------------------------|---------------|----------------|----------------------------------|
| 1 | Fuhsin Basic(25 gm) | 109 | 800 | 114 | 795 |
| 2 | Phenol Crystals (500 gm) | 100 | 300 | 382 | 618 |
| 3 | Methylated Spirit (cans) | 0 | 50 | 43 | 7 |
| 4 | Microscope(CX21 Olympus) | 0 | 4 | 4 | 0 |
| 5 | Dry cell | 10 | 0 | 0 | 10 |
| 6 | Inverter with dry cell battery | 10 | 0 | 0 | 10 |
| 7 | Binocular Microscopes Nikon E 100 | 10 | 30 | 3 | 37 |
| 8 | Microscope Glass Slides 3600/unit | - | 300 | 274 | 26 |
| 9 | Xylene (1 Litre) | 153 | 0 | 50 | 103 |
| 10 | Objective lens | 106 | 0 | 5 | 101 |
| 11 | Methylene Blue (25 gm) | 169 | 100 | 82 | 187 |
| 12 | Sulphuric Acid (2.5L) | 60 | 150 | 0 | 210 |
| 13 | Sulphuric Acid (1L) | 445 | 0 | 252 | 193 |
| 14 | Sulphuric Acid (500 ml) | 178 | 100 | 178 | 100 |
| 15 | Sputum containers (bags of 1000) | 240 | 810 | 510 | 540 |
| 16 | Immersion Oil (1 liter) | 73 | 0 | 7 | 66 |
| 17 | Methanol (1L) | 152 | 149 | 93 | 208 |
| 18 | Glycerol(1L) | 10 | 11 | 5 | 16 |
| 19 | Sodium Hydroxide(500g) | 21 | 30 | 14 | 37 |
| 20 | Auramine O | 14 | 0 | 7 | 7 |
| 21 | B. P. Phenyl | 0 | 300 | 42 | 258 |

Mannower situation of National Tuberculosis Programme (2009)

| | Manpower situation o | f National Tuberculosis | Prograi | mme (2009) | Ann | ex 3 |
|-----|---------------------------------|-------------------------|--------------|------------|--------|--------|
| No. | Designation | Pay | Sanc tion | Posted | Vacant | Remark |
| 1. | Deputy Director (TB) | 140000-2000-150000 | 1 | 1 | 0 | |
| 2. | Medical Superintendent | 140000-2000-150000 | 1 | 1 | 0 | |
| 3. | Lecture/TB specialist | 140000-2000-150000 | 1 | 1 | 0 | |
| 4. | Assistant Director (TB) | 120000-2000-130000 | 1 | 1+3* | 0 | |
| 5. | Microbiologist | 120000-2000-130000 | 2 | 1 | 1 | Mdy |
| 6. | State/Divisional TB Officer | 120000-2000-130000 | 6 | 6+7* | 0 | |
| 7. | Medical Officer | 100000-2000-110000 | 56 | 38+12* | 18 | |
| 8. | Administrative Officer | 100000-2000-110000 | 1 | 1 | 0 | |
| 9. | Superintendent | 65000-1000-70000 | 1 | 1 | 0 | |
| 10. | District Community Health Nurse | 65000-1000-70000 | 2 | 2 | 0 | |
| 11. | Assistant Statistical Officer | 59000-1000-64000 | 2 | 2 | 0 | |
| 12. | Health Assistant | 59000-1000-64000 | 80 | 70 | 10 | |
| 13. | Sister | 59000-1000-64000 | 1 | 1 | 0 | |
| 14. | Public Health Sister | 59000-1000-64000 | 1 | 1 | 0 | |
| 15. | Medical technician | 59000-1000-64000 | 1 | 1+3* | 0 | |
| 16. | Radiology technician | 59000-1000-64000 | 9 | 9 | 0 | |
| 17. | Radiographer | 59000-1000-64000 | 2 | 1+1* | 1 | |
| 18. | BC (Budget/Admin) | 59000-1000-64000 | 4 | 3+2* | 0 | |
| 19. | BCG supervisor | 59000-1000-64000 | 14 | 4 | 10 | |
| 20. | Blue staff | 53000-1000-58000 | 4 | 4 | 0 | |
| 21. | LHV | 53000-1000-58000 | 12 | 12 | 0 | |
| 22. | Trained nurse | 53000-1000-58000 | 122 | 106 | 16 | |
| 23. | Grade 1 lab: technician | 53000-1000-58000 | 11 | 10+3* | 1 | |
| 24. | Grade 1 X-ray technician | 53000-1000-58000 | 8 | 6 | 2 | |
| 25. | Assistant statistician | 53000-1000-58000 | 5 | 5 | 0 | |
| 26. | BCG technician | 53000-1000-58000 | 60 | 20 | 40 | |
| 27. | UD (Budget/Admin) | 53000-1000-58000 | 11 | 9+2* | 2 | |
| 28. | Grade 2 lab technician | 47000-1000-52000 | 200 | 145 | 55 | |
| 29. | LD (Budget/Admin) | 47000-1000-52000 | 35 | 27 | 8 | |
| 30. | Compounder | 47000-1000-52000 | 4 | 3 | 1 | |
| 31. | Grade 2 X-ray technician | 47000-1000-52000 | 3 | 1 | 2 | |
| 32. | Steward | 47000-1000-52000 | 1 | 0 | 1 | |
| 33. | Typist | 47000-1000-52000 | 7 | 4 | 3 | |
| 34. | Jr. TB worker | 47000-1000-52000 | 123 | 87 | 36 | |
| 35. | Statistical clerk | 47000-1000-52000 | 100 | 87 | 13 | |
| 36. | Driver | 41000-1000-46000 | 48 | 7 | 41 | |
| 37. | Clinic assistant | 35000-1000-40000 | 2 | 2 | 0 | |
| 38. | Lab. boy and Lab: assistant | 35000-1000-40000 | 7 | 4 | 3 | |
| 39. | Peon | 35000-1000-40000 | 15 | 6 | 9 | |
| 40 | X-ray van assistant | 35000-1000-40000 | 2 | 0 | 2 | |
| 41. | X-ray department assistant | 35000-1000-40000 | 3 | 2 | 1 | |
| 42. | Gardener and Plumber | 35000-1000-40000 | 2 | 1 | 1 | |
| 43. | Night Watch | 35000-1000-40000 | 14 | 7 | 7 | |
| 44. | Sweeper and Manual worker | 35000-1000-40000 | 43 | 25 | 18 | |
| | Total | | 1028 | 725+20* | 303 | |

* Lie from other posts

1. Assistant Director 3 (central)

State/Division TB Officer 7 (Taunggyi, Lashio, Kengtong, Monywa, Magway, Myeik, Myitkyina)
 Medical Officer 1 (Tachileik)

4. Medical Technician 2 (central) 1 (Mandalay) 5. Radiographer 6. BC 2 (central) 7. Grade.I Lab: Technician 2 (central) 8. UD 2 (central)

NATIONAL TUBERCULOSIS PROGRAMME CASE FINDING AND ACTIVITIES

| 600 | | | | | TOTAL | 5169 | 1177 | 1213 | 8116 | 7900 | 11991 | 2524 | 1511 | 3781 | 3940 | 6092 | 5008 | 4965 | 6508 | 9699 | 22598 | 11593 | 110784 | 23239 | 134023 |
|-------------|--------------|----------------|---------------------|-----------|-------|--------------|---------------|--------------|----------------|---------------|-----------------|------------------|------------------|------------------|----------------|---------------------|----------------|----------------|--------------|------------------|----------------|--------------------|------------------------|------------|------------------|
| Annual 2009 | | Lot of L | - 01a | | Ь | 1915 | 415 | 511 | 2929 | 3180 | 4253 | 907 | 222 | 1432 | 1602 | 2606 | 1957 | 1998 | 2740 | 2939 | 8253 | 4728 | 42922 | 8571 | 51493 |
| , | | | | | Σ | 3254 | 762 | 702 | 5187 | 4720 | 7738 | 1617 | 954 | 2349 | 2338 | 3486 | 3051 | 2967 | 3768 | 3759 | 14345 | 6865 | 67862 | 14668 | 82530 |
| | | | | ər | ш | 48 | 10 | 5 | 28 | 111 | 118 | 11 | 7 | 19 | 2 | 27 | 20 | 9 | 6 | 46 | 215 | 59 | 744 | 235 | 979 |
| | | | | Other | Σ | 127 | 37 | 15 | 88 | 209 | 304 | 43 | 13 | 33 | 23 | 39 | 12 | 17 | 13 | 69 | 488 | 129 | 1659 | 615 | 2274 |
| | | | Total | 5 | | 2025 | 731 | 633 | 3080 | 3005 | 4246 | 548 | 319 | 1230 | 382 | 2478 | 597 | 272 | 674 | 1218 | 3626 | 2341 | 27405 | 4276 | 31681 |
| | | ø | ary TB | | ш | 864 | 286 | 274 | 1295 | 1300 | 1812 | 242 | 145 | 528 | 175 | 1131 | 269 | 138 | 312 | 569 | 1633 | 1047 | 12020 | 1801 | 13821 |
| | | Extra | Pulmonary | | Σ | 1161 | 445 | 359 | 1785 | 1705 | 2434 | 306 | 174 | 702 | 207 | 1347 | 328 | 134 | 362 | 649 | 1993 | 1294 | 15385 | 2475 | 17860 |
| | | | Total | 3 | | 1446 | 243 | 363 | 1684 | 2254 | 3358 | 1028 | 587 | 1189 | 2358 | 2539 | 2355 | 2885 | 3802 | 2957 | 8220 | 4090 | 41358 | 9854 | 51212 |
| | | | gative | | ш | 999 | 78 | 167 | 593 | 696 | 1098 | 370 | 223 | 429 | 1009 | 1116 | 977 | 1287 | 1739 | 1431 | 3139 | 1782 | 16973 | 3867 | 20840 |
| | | | Smear Negative | | Σ | 880 | 165 | 196 | 1091 | 1285 | 2260 | 658 | 364 | 760 | 1349 | 1423 | 1378 | 1598 | 2063 | 1526 | 5081 | 2308 | 24385 | 5987 | 30372 |
| | | | L T | 5 | | 1523 | 156 | 197 | 3236 | 2321 | 3965 | 894 | 585 | 1310 | 1172 | 1009 | 2024 | 1785 | 2010 | 2408 | 10049 | 4974 | 39618 | 8259 | 47877 |
| | | | | | ш | 21 | 4 | 2 | 22 | 23 | 24 | 11 | 0 | 2 | 7 | 10 | 10 | 80 | 17 | 4 | 66 | 20 | 297 | 111 | 408 |
| | SISC | | | TAF | Σ | 09 | 2 | 9 | 61 | 48 | 89 | 28 | 10 | 21 | 6 | 12 | 27 | 30 | 39 | 22 | 202 | 36 | 684 | 239 | 923 |
| | TUBERCULOSIS | | Cases | 0 | ш | 2 | _ | - | 7 | 1 | 13 | 2 | 4 | 10 | 4 | 2 | 9 | 0 | 10 | 7 | 28 | 80 | 112 | 15 | 127 |
| | TUBE | | Old Ca | TAD | Σ | 16 | က | 2 | 20 | 13 | 43 | 15 | 17 | 11 | 16 | 17 | 20 | 6 | 21 | 23 | 66 | 17 | 362 | 86 | 460 |
| | MONARY | TIVE | | ses | ь | 37 | 2 | 12 | 28 | 53 | 121 | 15 | 14 | 30 | 16 | 32 | 72 | 48 | 29 | 35 | 377 | 132 | 1113 | 202 | 1315 |
| | PULMO | SMEAR POSITIVE | | Relapses | Σ | 129 | 10 | 23 | 159 | 131 | 336 | 43 | 22 | 93 | 29 | 48 | 125 | 102 | 106 | 108 | 915 | 254 | 2698 | 222 | 3255 |
| | 4 | SMEA | | CDR | | 122% | %09 | 40% | 61% | %29 | 64% | 49% | %06 | 26% | 95% | 72% | 82% | 105% | 114% | 87% | 85% | 95% | %62 | | %26 |
| | | | | | ⊢ | 1255 | 131 | 151 | 2909 | 2052 | 3360 | 780 | 483 | 1140 | 1061 | 885 | 1764 | 1588 | 1758 | 2199 | 8329 | 4507 | 34352 | 7037 | 41389 |
| | | | | New Cases | ь | 374 | 34 | 20 | 926 | 723 | 1067 | 256 | 164 | 411 | 386 | 285 | 603 | 511 | 594 | 837 | 2762 | 1680 | 11663 | 2340 | 14003 |
| | | | | Ne | Σ | 881 | 97 | 101 | 1983 | 1329 | 2293 | 524 | 319 | 729 | 675 | 009 | 1161 | 1077 | 1164 | 1362 | 5567 | 2827 | 22689 | 4697 | 27386 |
| | | | Estimate d cases | | | 1032 | 217 | 381 | 4744 | 3070 | 5238 | 1589 | 534 | 2035 | 1153 | 1235 | 2142 | 1519 | 1540 | 2517 | 9801 | 4899 | 43645 | | 43645 |
| | | | Population E | ' | | 1376067 | 288919 | 508351 | 6325851 | 4092771 | 6983424 | 2119301 | 712093 | 2712893 | 1537453 | 1646224 | 2855562 | 2025688 | 2053149 | 3355941 | 5782463 | 6531731 | 50907881 | | 50907881 |
| Block 1 | | | State/Division | | | Kachin State | 2 Kayah State | 3 Chin State | 4 Sagaing Div: | 5 Magway Div: | 6 Mandalay Div: | 7 Shan (S) State | 8 Shan (E) State | 9 Shan (N) State | 10 Kayin State | 11 Tanintharyi Div: | 12 Bago (East) | 13 Bago (West) | 14 Mon State | 15 Rakhine State | 16 Yangon Div: | 17 Ayeyarwady Div: | All State & Div: Total | Other Unit | Union of Myanmar |
| | | | Sr.No | | | _ | | | | | | | | | | | | | | | | | | | |
| | No.of | report | recieved Sr.No | Tsp: | | 15 | 7 | 6 | 37 | 25 | 31 | 21 | 6 | 19 | 7 | ₽ 02 | 14 | 14 | 10 | 17 | 45 | 26 | 316 | 18 | 316 |

Reporting Efficiency Rate = **97%** (316/325) tsps Report had not been received from (9)Townships

CDR = 95%

CR = <mark>78%</mark> TSR = <mark>85 %</mark>

TAD = Treatment after default

TAF = Treatment after failure

Shan (N) State (5)Ts₁1. Kongyan 2. Panwine 3.Mongmaw 4. Manphant 5. Narphant Shan (E) State (1)Ts₁1. Matman

Kachin State (3) Tspt 1. N'ganyan 2. Hsawlaw 3.Khaunglanbu

NATIONAL TUBERCULOSIS PROGRAMME CASE FINDING ACTIVITIES (2009)

| | TOWNSHIP | Population Stimated | stimated | | | | P SME, | PULMON/ SMEAR POSI | JARY SITIVE | TUBEF | <u> </u> | SIS | | | Smear | | Pulm | Extra Pulmonary | | | | | TOTAL | |
|----|--------------|---------------------|----------|-----|-----------|------|-----------|-----------------------|----------------|---|------------------------|-----------------------|----------|-------|----------|-------|-------|--------------------|-------|-------|----------|------|-------|-------|
| آ. | | | NewS(+) | | New Cases | S | CDR | Pre Relapses | | Previously treated cases es T'after Default T'a | ed cases efault T'a | es T'after failure | re Total | | Negative | Total | Tuber | Tuberculosis | Total | other | <u> </u> | | | |
| | | | | Σ | щ | ⊢ | | Σ | ш | ∑ | 上 上 | Ψ W | | Σ | ட | | Σ | щ | | Σ | ш | Σ | щ | TOTAL |
| | Kachin State | | | | ľ | | | } | } | | | - | - | | | | | | - | E | - | - | - | |
| ~ | Bahmo | 108113 | 81 | 61 | 19 | 80 | %66 | 18 | 2 | - | 0 | က | 0 107 | 7 92 | 49 | 141 | 55 | 49 | 104 | 4 | 7 | 234 | 124 | 358 |
| 2 | Mansi | 68836 | 52 | 34 | 22 | 56 | 108% | က | 7 | - | 0 | 0 | 0 62 | 2 17 | 17 | 34 | 15 | 17 | 26 | ∞ | 2 | 78 | 57 | 135 |
| က | Momauk | 93146 | 70 | 20 | 7 | 27 | 39% | ~ | _ | 0 | 0 | - | 0 30 | 0 20 | 23 | 43 | 37 | 23 | 09 | 2 | 0 | 8 | 54 | 135 |
| 4 | Shwegu | 81593 | 61 | 25 | 2 | 30 | 49% | ~ | _ | 0 | 0 | 7 | 0 34 | 4 22 | 2 | 43 | 3 16 | 10 | 26 | - | 0 | 67 | 37 | 104 |
| ည | Mohynin | 201879 | 151 | 82 | 38 | 120 | %62 | 12 | 7 | 0 | 0 | - | 0 135 | 98 | 3 65 | 163 | 194 | 125 | 319 | 6 | 7 | 396 | 232 | 628 |
| 9 | Kamaing | 147597 | 111 | 143 | 47 | 190 | 172% | 20 | 9 | 7 | 7 | 2 | 2 227 | 7 29 | 9 22 | 51 | 95 | 50 | 145 | _ | 2 | 295 | 131 | 426 |
| 7 | Mogaung | 134989 | 101 | 91 | 43 | 134 | 132% | 2 | 7 | ~ | ~ | 10 | 4 157 | 7 113 | 3 92 | 205 | 133 | 94 | 227 | က | 2 | 356 | 238 | 594 |
| ∞ | Tanai | 37899 | 28 | 41 | 24 | 65 | 229% | 2 | 2 | 0 | ~ | _ | 0 74 | 4 25 | 6 | 34 | 18 | 10 | 28 | 2 | 0 | 92 | 46 | 138 |
| თ | Myitkyina | 204102 | 153 | 251 | 120 | 371 | 242% | 40 | 6 | 7 | - | 32 1 | 11 471 | 1 327 | 7 167 | 494 | 1 383 | 292 | 675 | 88 | 30 | 1128 | 630 | 1758 |
| 10 | Chipway | 18277 | 14 | 4 | 2 | 9 | 44% | 4 | 0 | 0 | 0 | 0 | 0 10 | | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | ∞ | 19 |
| 1 | Hsawlaw | 6617 | 5 | Z. | | | | | | | | | | | | | | | | | | | | |
| 12 | N Jan Yan | 8658 | 9 | N. | | | | | | | | | | | | | | | | | | | | |
| 13 | Waingmaw | 115580 | 87 | 81 | 27 | 108 | 125% | 13 | 7 | 3 | 0 | 2 | 1 132 | 2 90 |) 58 | 148 | 187 | 178 | 365 | 80 | 2 | 387 | 271 | 658 |
| 4 | PutaO | 87194 | 65 | 47 | 20 | 67 | 102% | 7 | 4 | ~ | 0 | 0 | 3 82 | 2 | 1 36 | 77 | , 28 | 22 | 20 | _ | 0 | 125 | 85 | 210 |
| 15 | Khaunglanbu | 14550 | 11 | N. | | | | | | | | | | | | | | | | | | | | |
| 16 | Machanbaw | 20782 | 16 | 0 | 0 | 0 | %0 | 0 | _ | 0 | 0 | 0 | 0 | | 7 | 2 | 0 | 0 | 0 | 0 | 0 | _ | 2 | 3 |
| 17 | Nogmun | 11420 | 6 | ~ | 0 | _ | 12% | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | _ | 0 | 7 |
| 18 | Sumprabum | 14835 | 11 | 0 | 0 | 0 | %0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 0 |) 2 | 2 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| | Total | 1376067 | 1032 | 881 | 374 | 1255 | 122% | 129 | 37 | 16 | 5 | 60 2 | 21 1523 | 3 880 |) 566 | 1446 | 1161 | 864 | 2025 | 127 | 48 | 3254 | 1915 | 5169 |

* Note* (Nr.) Report had not been received from (3) townships Nr. 3 Tsp; 1.N'ganyan. 2. Hsawlaw, 3 Khaunglanbu

| | | | | | TOTAL |
|--------------|------------|---------------|--------------------------|---------------------------------|----------|
| | | TOTAL | | | ш |
| /e (.eepee.) | | | | | Σ |
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| | | | Tota | | |
| | Extra | ulmonary | culosis | | ш |
| | Ê | Pulm | Tuber | | Σ |
| | | | Total Tuberculosis Total | | |
| | | mear | legative | | ட |
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| | | | | Total | • |
| | | | | ailure | ட |
| | SISC | | es | T'after f | Σ |
| | UBERCULOSI | | Previously treated cases | l'after Default T'after failure | Щ |
| | TUBE | | ously tre | _ | Σ |
| | NARY | SITIVE | Previ | bses | ш |
| | PULMON | AR POSI | | Relaps | Σ |
| | 4 | SMEAR | | CDR | |
| | | | | S | F |
| | | | | Vew Cases | ш |
| | | | | ž | Σ |
| | | timated | lewS(+) | cases | <u> </u> |
| | | Population is | | | |
| | | TOWNSHIP | | | |
| | | | ΰ | 5 | |

| | Kayah State | • | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------------|--------|-----|----|----|-----|------|----|---|---|---|---|-----|-----|-----|----|-----|-----|-----|-----|----|----|-----|-----|------|
| ~ | Bawlake | 9826 | 7 | 9 | က | 6 | 122% | ~ | 0 | ~ | 0 | 0 | 0 | 7 | 9 | ~ | 7 | 4 | 2 | 6 | 0 | 0 | 18 | 6 | 27 |
| 7 | Masai | 12406 | თ | 7 | 0 | 7 | 75% | ~ | - | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | - | 0 | - | - | 0 | 10 | - | 11 |
| က | Pasaung | 34845 | 26 | 13 | 6 | 22 | 84% | 0 | 0 | - | ~ | 2 | - | 27 | 7 | 22 | | 17 | 13 | 30 | - | 0 | 36 | 59 | 65 |
| 4 | Loikaw | 105384 | 79 | 09 | 17 | 77 | %26 | 4 | - | - | 0 | က | 2 | 88 | 142 | 92 | 207 | 374 | 238 | 612 | 30 | ∞ | 614 | 331 | 945 |
| Ω | Dimawhso | 95499 | 72 | 6 | C) | 14 | 20% | ~ | 0 | 0 | 0 | 0 | 0 | 15 | 13 | 4 | 17 | 88 | 21 | 29 | က | - | 64 | 31 | 95 |
| 9 | Phruhso | 28000 | 21 | 2 | 0 | 2 | 10% | က | 0 | 0 | 0 | 0 | 0 | 2 | 7 | က | C) | 10 | 6 | 19 | - | - | 18 | 13 | 31 |
| 7 | Shataw | 2929 | 2 | 0 | 0 | 0 | %0 | 0 | 0 | 0 | 0 | 0 | - | | 0 | 0 | 0 | - | 0 | _ | | 0 | 2 | 1 | 3 |
| | Total | 288919 | 217 | 97 | 34 | 131 | %09 | 10 | 2 | 3 | 1 | 5 | 1 1 | 156 | 165 | 78 | 243 | 445 | 286 | 731 | 37 | 10 | 762 | 415 | 1177 |

| 2 Hakha 55210 39 8 6 14 36% 8 5 1 0 23 31 20 21 41 29 24 53 1 7 20 2 Hakha 57884 43 14 6 20 46% 2 1 0 0 0 0 23 31 20 51 122 91 213 8 3 177 121 171 121 171 | | Chin State | | | | | | | | | | | | | | | | | | | | | | | ı |
|--|----|------------|--------|-----|-----|----|-----|-----------|---|----|---|---|---|---|----|----|----|----|----|----|-----|---|---|-------|-----|
| Hakha 57884 43 14 6 20 46% 2 1 0 0 0 23 31 20 51 122 91 213 8 3 177 1 Htantalan 70048 53 3 0 3 6% 0 0 0 0 0 9 9 9 1 1 0 | ~ | Falam | 52210 | 39 | ∞ | 9 | 41 | | | 2 | ~ | 0 | 2 | 2 | 35 | 20 | 21 | 41 | 59 | 24 | 53 | | | 131 | Σ |
| Heantellan 700468 53 3 6% 0 0 0 0 3 8 6 14 10 9 19 19 19 0 21 Triddim 90408 68 20 8 28 31 59 109 89 198 30 161 1 Triddim 90408 68 20 8 2 1 1 0 0 0 30 28 31 59 109 89 198 3 0 1 0 | 2 | | 57884 | 43 | 14 | 9 | 20 | 46% | 2 | | 0 | 0 | 0 | 0 | 23 | 31 | 20 | | 22 | | 213 | | , | 1 298 | 8 |
| Tunzan 32470 24 6 6 12 49% 2 1 1 0 0 0 0 16 42 35 77 24 20 44 0 0 75 Mindat 43148 32 17 10 27 83% 9 3 0 0 0 1 0 0 0 0 16 17 1893 14 0 0 0 0 0 0 0 0 16 17 1893 15 17 18 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 101 50 151 18 18 18 101 50 151 18 18 18 101 50 151 18 18 18 10 18 18 18 18 18 18 18 18 18 18 18 18 18 | 3 | | 70048 | 53 | က | 0 | 3 | %9 | 0 | 0 | 0 | 0 | 0 | 0 | က | 8 | 9 | 4 | 10 | 6 | 19 | | | | 36 |
| Tunzan 32470 24 6 6 12 49% 2 1 1 0 0 16 42 35 77 24 20 44 0 75 Mindat 43148 32 17 10 27 83% 9 3 0 0 1 0 43 28 71 2 44 0 0 10 | 4 | | 90408 | 68 | 20 | 8 | 28 | 41% | _ | _ | 0 | 0 | 0 | 0 | 30 | 28 | 31 | | 60 | • | 861 | Ì | , | 9 290 | 9 |
| Mindat 43148 32 17 10 27 83% 9 3 0 0 40 40 30 60 43 28 71 2 0 10 Kanpetlet 18933 14 0 0 0 0 0 0 0 0 0 14 10 0 14 Matupi 56765 43 12 3 15 35% 0 0 0 0 15 17 16 33 4 4 8 1 34 1 34 Paletwa 86485 65 21 11 32 49% 1 1 0 0 35 12 7 19 12 3 15 1 1 0 <td>2</td> <td></td> <td>32470</td> <td>24</td> <td>9</td> <td>9</td> <td>12</td> <td>49%</td> <td>7</td> <td>~</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>16</td> <td>42</td> <td>35</td> <td></td> <td>24</td> <td>20</td> <td>4</td> <td></td> <td></td> <td>-</td> <td>137</td> | 2 | | 32470 | 24 | 9 | 9 | 12 | 49% | 7 | ~ | | 0 | 0 | 0 | 16 | 42 | 35 | | 24 | 20 | 4 | | | - | 137 |
| Kanpetlet 18933 14 0 | 9 | | 43148 | | 17 | 10 | 27 | 83% | 6 | က | 0 | 0 | - | 0 | 40 | 30 | 30 | 09 | 43 | 28 | 71 | , | | | 173 |
| Matupi 56765 43 12 3 15 35% 0 0 0 0 15 17 16 33 4 4 8 1 1 34 Paletwa 86485 65 21 11 32 49% 1 1 0 0 35 12 7 19 16 7 19 16< | 7 | | 18933 | 14 | 0 | 0 | 0 | %0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | - | 6 | 9 | 4 | 10 | | | | 19 |
| Paletwa 86485 65 21 11 32 49% 1 1 0 1 0 35 12 7 19 12 5 17 0 0 46 Total 508351 381 101 50 151 40% 23 12 2 197 196 167 363 359 274 633 15 5 702 5 | 80 | | 56765 | 43 | 12 | က | 15 | 35% | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 17 | 16 | 33 | 4 | 4 | ω | | | | 28 |
| 508351 381 101 50 151 40% 23 12 2 1 6 2 197 196 167 363 359 274 633 15 5 702 | 6 | | 86485 | 65 | 21 | 11 | 32 | 49% | - | - | 0 | - | 0 | 0 | 35 | 12 | 7 | 19 | 12 | 5 | 17 | | | | 71 |
| | | Total | 508351 | 381 | 101 | 50 | 151 | 40% | | 12 | 2 | 1 | 9 | 2 | | · | | | | | | | | 1213 | က |

| | | | ľ | | | | ľ | 401 | 200 | | | 0 | | | | - | - | 1 | ļ | - | | | | |
|----------|------------|-----------------|----------|------|-----------|------|------------|-------------|--------|--------------------------|-----------|-----------------|----------------|---------|----------|--------------------------|----------|--------------------|---------|-------|-------|------|-------------|-------|
| | TOWNSHIP | Population Fe | stimated | | | | SME | SMEAR POSIT | SITIVE | I OBE | UBERCULUS | 20 | \vdash | \mid | Smear | <u> </u> | <u></u> | Extra Pulmonarv | | | | | TOTAL | |
| ċ | | | NewS(+) | | | | | | Previo | Previously treated cases | ed cases | ,, | 1 | | Negative | Total | | Tuberculosis | s Total | | other | | ! :) | |
| <u>,</u> | | | cases | | New Cases | es | CDR | Relaps | ses | T'after Default | efault T | T'after failure | | Total | , | | | | _ | | | ļ | ı | |
| | | - 1 | | Σ | L | - | | Σ | L | Σ | <u> </u> | Σ | | | ± ∑ | $\left\ \cdot \right\ $ | ≥ | ш_ | | Σ | Т | Σ | ш | TOTAL |
| 7 | | loisi Coesso | 000 | 107 | 7 | | /000 | 7 | - | c | C | _ | | 940 | Co | 22 | | 147 | | | | 0.40 | 402 | 702 |
| - 0 | Myaung | 183492 | 138 | 38 | 24 | 62 | 45% | - 2 | - m | v 0 | 0 0 | - 0 |) - | 68 | 70 | 17 | - 0 0 | | 18 42 | | 0 0 | 242 | 47 | 118 |
| က | Myinmu | 165468 | 124 | 54 | 34 | | 71% | 2 | 4 | 0 | 0 | 0 | 0 | 97 | 4 | 22 | | | | | | 125 | 83 | 208 |
| 4 | Shwebo | 350351 | 263 | 78 | 41 | 119 | | 9 | 2 | 0 | 0 | 0 | 0 | 127 | 02 | 30 | 100 | 92 | 69 | | 3 4 | 249 | 146 | 395 |
| 2 | Kanbalu | 311018 | 233 | 72 | 36 | 108 | 46% | 2 | _ | - | - | 0 | 0 | 116 | 37 | 11 | 48 | 92 | 63 139 | | 0 1 | 191 | 113 | 304 |
| 9 | Khin-U | 195661 | 147 | 64 | 28 | 92 | %89 | 4 | 0 | 0 | 0 | _ | 0 | 26 | 1 | 3 | 14 | 69 | 50 119 | | 2 2 | 151 | 83 | 234 |
| 7 | Kyunhla | 87987 | 99 | 30 | 20 | 50 | %92 | 2 | 0 | 0 | 0 | 0 | 0 | 25 | 15 | 10 | 25 | 30 | 20 5 | 20 | 3 0 | 80 | 20 | 130 |
| 8 | Tabayin | 184205 | 138 | 39 | 16 | 55 | 40% | 2 | - | 0 | 0 | 0 | 0 | 28 | 11 | 3 | 14 | 16 2 | 22 | 38 | 2 0 | 70 | 42 | 112 |
| 6 | Taze | 217437 | 163 | 62 | 14 | 76 | 47% | 4 | - | 0 | 0 | - | 0 | 82 | 19 | 6 | 28 | 34 | 25 5 | 26 | 3 0 | 123 | 49 | 172 |
| 10 | Wetlet | 290688 | 218 | 87 | 40 | 127 | %89 | 6 | 4 | 0 | - | _ | - | 143 | 16 | 9 | 22 | 96 | 62 15 | 28 (| 0 2 | 209 | 116 | 325 |
| 11 | Ye-U | 172050 | 129 | 42 | 15 | 57 | 44% | 2 | 0 | 3 | 0 | _ | 0 | 63 | 38 | 15 | 23 | 26 | 29 8 | 88 | 9 2 | 154 | 61 | 215 |
| 12 | Monywa | 412070 | 309 | 141 | 54 | 195 | 63% | 12 | 9 | 8 | 0 | 12 | က | 231 | 29 | 11 | 100 | 22 | 50 107 | 12 | 2 | 296 | 156 | 452 |
| 13 | Ayadaw | 243833 | 183 | 78 | 44 | 122 | %29 | 2 | 4 | 0 | 0 | 0 | 0 | 128 | 25 | 12 | 37 | , | 17 2 | 27 | 2 1 | 117 | 78 | 195 |
| 14 | Budalin | 190532 | 143 | 09 | 27 | 87 | 61% | 1 | 2 | 2 | 1 | 9 | 0 | 66 | 18 | 20 | 38 | 70 | 47 117 | | 4 3 | 161 | 100 | 261 |
| 15 | ChaungU | 140336 | 105 | 38 | 16 | 54 | 51% | 4 | _ | 0 | 0 | 0 | 0 | 29 | 52 | 23 | 75 | 10 | 9 | 19 (| 0 0 | 104 | 49 | 153 |
| 16 | Kani | 169551 | 127 | 34 | 11 | 45 | 35% | 1 | 3 | 0 | 0 | 0 | 0 | 49 | 20 | 5 | 25 | 22 | 8 | 30 (| 0 0 | 77 | 27 | 104 |
| 17 | Pale | 183135 | 137 | 34 | 12 | 46 | 33% | _ | 0 | _ | 0 | 7 | _ | 51 | 41 | 8 | 22 | 33 | 17 5 | 20 (| 6 0 | 91 | 38 | 129 |
| 18 | Salingyi | 178851 | 134 | 61 | 27 | 88 | %99 | 2 | 0 | 0 | 0 | 0 | — | 91 | 12 | 6 | 21 | 27 | 18 4 | 45 | 1 | 103 | 56 | 159 |
| 19 | Yinmabin | 174058 | 131 | 36 | 7 | 43 | 33% | 2 | 0 | 1 | 0 | 0 | 0 | 46 | 26 | 16 | 42 | 22 | 13 3 | 35 1 | 1 0 | 88 | 36 | 124 |
| 20 | Katha | 160703 | 121 | 29 | 23 | 90 | 75% | 8 | 4 | 0 | 0 | 0 | 0 | 102 | 32 | 19 | 21 | 33 | 28 6 | 61 | 3 1 | 143 | 75 | 218 |
| 71 | Banmauk | 104386 | 78 | 21 | 10 | 31 | 40% | 2 | _ | 0 | 0 | _ | 0 | 35 | 4 | _ | 2 | 2 | 3 | 8 | 0 0 | 33 | 15 | 48 |
| 22 | Htigyaing | 123947 | 93 | 37 | 12 | 49 | 53% | 0 | 0 | 0 | 0 | 2 | က | 54 | 14 | 11 | 25 | 11 | 9 | 20 | 2 0 | 99 | 35 | 101 |
| 23 | Indaw | 136394 | 102 | 37 | 22 | | 28% | 2 | _ | 0 | 0 | 0 | _ | 99 | 16 | 2 | 21 | 29 | 26 5 | 25 | 4 1 | 91 | 56 | 147 |
| 24 | Kawlin | 154864 | 116 | 55 | 19 | 74 | 64% | 9 | _ | 2 | 0 | က | 7 | 88 | 14 | 12 | 53 | , | 18 4 | 46 (| 0 1 | 135 | 53 | 188 |
| 22 | Pinlebu | 134109 | 101 | 31 | 19 | | | 0 | 0 | _ | 0 | _ | 0 | 25 | 0 | 3 | 12 | ∞ | 8 | 16 | 0 0 | 20 | 30 | 80 |
| 56 | Wuntho | 82337 | 62 | 27 | 0 | | | - | 0 | 0 | 0 | က | 7 | 42 | 9 | 2 | 11 | 2 | 4 | 6 | 0 0 | 42 | 20 | 62 |
| 27 | Kalay | 318524 | 239 | 145 | 88 | 7 | | 15 | 2 | 7 | 0 | 16 | 4 | | 126 | 71 | | က | 3 796 | | | 779 | 491 | 1270 |
| 78 | Kalewa | 72826 | 22 | 24 | 6 | | | 7 | _ | 0 | 0 | 0 | _ | 37 | 8 | 80 | | | | | | 52 | 32 | 84 |
| 23 | Minkin | 129137 | 97 | 40 | 18 | | | 0 | 7 | 0 | 0 | 0 | | 09 | 7 | 2 | | | | | | 89 | 36 | 104 |
| 30 | Tamu | 97010 | 73 | 125 | 09 | 185 | ~ | 20 | 9 | 0 | 0 | 7 | 0 | 213 | 105 | 77 | 182 | 188 12 | | | 0 0 | 440 | 263 | 703 |
| 31 | Mawlaik | 61760 | 46 | 9 | 5 | | | 0 | - | 0 | 0 | 0 | 0 | 12 | 4 | 4 | 80 | | | 12 (| 0 0 | 17 | 15 | 32 |
| 32 | Phaungbyin | 122349 | 92 | 33 | 21 | 54 | | 2 | 0 | 2 | 7 | _ | 0 | 61 | 20 | 4 | 24 | , 56 | 18 4 | 44 | 0 0 | 84 | 45 | 129 |
| 33 | Khamti | 40841 | 31 | 51 | 23 | 74 | 7 | 2 | _ | 0 | 0 | 9 | _ | 87 | 27 | 25 | | 20 1 | က | 33 (| 0 0 | 109 | 63 | 172 |
| 8 | Homalin | 187739 | 141 | 73 | 38 | 111 | 4 | 9 | 0 | 0 | - | - | 0 | 119 | 80 | 51 1 | 131 | , | 17 2 | 27 12 | 2 | 182 | 111 | 293 |
| 32 | Layshi | 20340 | 15 | 4 | 3 | 7 | 46% | 0 | _ | 0 | 0 | 0 | 0 | ∞ | 2 | 4 | တ | 2 | 7 | 12 | 1 0 | 15 | 15 | 30 |
| 36 | Lahel | 54955 | 41 | 20 | 15 | (1) | ۵ | 7 | ~ | 0 | 0 | 0 | 0 | 43 | 0 | 2 | | | | | 0 0 | 47 | 31 | 78 |
| 37 | Nanyun | 76045 | 57 | 2 | 2 | 4 | 7% | 3 | 0 | 0 | _ | 0 | - | 6 | 18 | 12 | 30 | 7 | 3 | 10 | 2 1 | 32 | 20 | 52 |
| | Total | 6325851 | 4744 | 1983 | 926 | 2909 | 61% | 159 | 28 | 20 | 7 | 61 | 22 | 3236 10 | 1091 | 593 16 | 684 1785 | 85 1295 | 3080 | 88 | 3 28 | 5187 | 2929 | 8116 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | ٩ | ULMOR | VARY | TUBE | FUBERCULOSI | SIS | | | | | | Extra | ١ | | | L | | | |
|----|----------------|---------------------|----------|-------|-------------|------------|------|-------------|--------|------------------|--------------------|-----------------------|----|------|----------|-----|---------|--------------|------|-------|-------|-------|------|-------|-------|
| | TOWNSHIP | Population stimated | stimated | | | | SME, | SMEAR POSIT | SITIVE | | | | | | Smeal | | | Pulmonary | | | | | ĭ | TOTAL | |
| S. | | | NewS(+) | , all | sese J mely | u | 900 | Polar | Previo | usly treated cas | () | es T'after failure | | Leto | Negative | | Total T | Tuberculosis | | Total | other | | | | |
| | | | Cases | M | F | , – | | M | F | M | | M | | | M | щ | | M | ш | | M | _ | M | F | TOTAL |
| | Magwe Division | ion | | | | | | | | | | | | | | | • | | | | | | | | |
| _ | Magwe | 291526 | 219 | 206 | 124 | 330 | 151% | 20 | 1 | က | _ | 16 | 10 | 391 | 180 | 124 | 304 | 161 | 128 | 289 | 09 | 44 | 949 | 442 | 1088 |
| 7 | Chauk | 212349 | 159 | 79 | 43 | 122 | 77% | 14 | 9 | _ | 0 | 0 | 7 | 145 | 74 | 61 | 135 | 65 | 29 | 124 | 13 | 7 | 246 | 178 | 424 |
| က | Taundwingyi | 252185 | 189 | 88 | 44 | 132 | %02 | 7 | _ | 0 | 0 | 0 | 0 | 140 | 53 | 43 | 96 | 37 | 20 | 22 | 6 | 6 | 194 | 117 | 311 |
| 4 | Myothit | 172620 | 129 | 79 | 20 | 129 | 100% | 7 | 5 | 0 | 0 | 0 | 0 | 141 | 34 | 28 | 62 | 22 | 16 | 38 | 1 | 9 | 153 | 105 | 258 |
| 2 | Natmauk | 243381 | 183 | 40 | 42 | 82 | 45% | 4 | _ | 0 | 0 | 0 | 0 | 87 | 27 | 13 | 40 | 30 | 19 | 49 | 9 | 7 | 107 | 77 | 184 |
| 9 | Yenanchaung | 163292 | 122 | 58 | 43 | 101 | 82% | 7 | _ | 0 | 0 | 4 | က | 116 | 34 | 33 | 29 | 21 | 16 | 37 | 4 | 12 | 138 | 108 | 246 |
| 7 | Pakokku | 315504 | 237 | 75 | 38 | 113 | 48% | 4 | 7 | 0 | 0 | 2 | 7 | 141 | 176 | 132 | 308 | 53 | 29 | 120 | 20 | 4 | 343 | 250 | 593 |
| ∞ | Yesagyo | 252219 | 189 | 44 | 17 | 61 | 32% | 2 | 0 | 0 | 0 | 0 | 0 | 63 | 72 | 59 | 131 | 22 | 30 | 52 | 2 | 0 | 145 | 106 | 251 |
| 6 | Pauk | 167577 | 126 | 20 | 48 | 98 | 78% | ~ | 2 | 0 | 0 | 0 | 0 | 101 | 24 | 1 | 35 | 06 | 49 | 139 | က | _ | 168 | 111 | 279 |
| 10 | Myaing | 244240 | 183 | 61 | 28 | 88 | 49% | 2 | 4 | 0 | 0 | 0 | 0 | 86 | 10 | 9 | 16 | 162 | 105 | 267 | 0 | 0 | 238 | 143 | 381 |
| 7 | Seikphyu | 98725 | 74 | 18 | 4 | 22 | 30% | 0 | _ | 0 | 0 | 0 | 0 | 23 | 4 | 6 | 13 | 30 | 24 | 54 | 0 | 0 | 52 | 38 | 90 |
| 12 | Gangaw | 122416 | 92 | 28 | 1 | 39 | 45% | 2 | 0 | _ | 0 | 7 | _ | 45 | 42 | 20 | 62 | 29 | 37 | 96 | 0 | 0 | 134 | 69 | 203 |
| 13 | Saw | 66502 | 50 | 14 | 6 | 23 | 46% | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 9 | 2 | 1 | 4 | 2 | 6 | 0 | 0 | 24 | 19 | 43 |
| 4 | Htinlin | 53085 | 40 | 12 | - | 13 | 33% | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 9 | 4 | 10 | 4 | 9 | 20 | 0 | 0 | 32 | 1 | 43 |
| 15 | Minbu | 180744 | 136 | 77 | 32 | 109 | %08 | 9 | _ | _ | 0 | 7 | 2 | 126 | 100 | 54 | 154 | 362 | 299 | 199 | 18 | 9 | 571 | 394 | 965 |
| 16 | Ngape | 45499 | 34 | 16 | 7 | 23 | %29 | 4 | _ | 0 | 0 | 0 | 0 | 28 | 24 | 13 | 37 | 10 | 13 | 23 | 2 | 0 | 29 | 34 | 93 |
| 17 | Pwintphyu | 173892 | 130 | 31 | 29 | 09 | 46% | 0 | 0 | 0 | 0 | 0 | 0 | 09 | 7 | 7 | 22 | 6 | 13 | 22 | 2 | က | 26 | 26 | 112 |
| 18 | Saytoketaya | 42080 | 32 | 4 | က | 17 | 54% | ~ | 0 | 0 | 0 | 7 | 0 | 20 | 8 | 7 | 10 | 10 | თ | 19 | - | 0 | 31 | 19 | 50 |
| 19 | Salin | 253591 | 190 | 53 | 29 | 82 | 43% | 4 | _ | 0 | 0 | 0 | 0 | 87 | 38 | 37 | 75 | 45 | 43 | 88 | 7 | 4 | 147 | 114 | 261 |
| 20 | Thayet | 105669 | 79 | 92 | 35 | 111 | 140% | 4 | _ | 2 | 0 | œ | 7 | 128 | 89 | 63 | 131 | 53 | 18 | 47 | 2 | 7 | 192 | 121 | 313 |
| 2 | Minhla | 109668 | 82 | 20 | 18 | 68 | 83% | 2 | _ | 0 | 0 | 0 | 0 | 71 | 18 | 41 | 32 | 31 | 21 | 52 | 7 | _ | 108 | 55 | 163 |
| 22 | Kanma | 81208 | 61 | 33 | 17 | 20 | 82% | 4 | 4 | 0 | 0 | 0 | 0 | 28 | 24 | 28 | 52 | 48 | 21 | 69 | 9 | 9 | 115 | 92 | 191 |
| 23 | Sinpaukwae | 128545 | 96 | 4 | 4 | 18 | 19% | 2 | _ | 0 | 0 | 7 | 0 | 23 | 70 | 20 | 40 | 47 | 32 | 79 | 0 | 0 | 82 | 22 | 142 |
| 24 | Mindon | 90209 | 45 | 27 | 12 | 39 | %98 | 12 | 4 | 0 | 0 | 0 | 0 | 25 | 153 | 113 | 266 | 268 | 189 | 457 | 0 | 0 | 460 | 318 | 778 |
| 25 | Aunglan | 255948 | 192 | 98 | 35 | 121 | %89 | 6 | 0 | 2 | 0 | 7 | - | 138 | 84 | 61 | 145 | 9/ | 61 | 137 | 14 | 4 | 276 | 162 | 438 |
| | Total | 4092771 | 3070 | 1329 | 723 | 2052 | %29 | 131 | 53 | 13 | - | 48 | 23 | 2321 | 1285 | 696 | 2254 | 1705 | 1300 | 3005 | 209 1 | 111 4 | 4720 | 3180 | 7900 |

| PULMONA SMEAR POSI | PULMONAR SMEAR POSITIN | PULMONAR SMEAR POSITIN | PULMONAR SMEAR POSITIN | PULMONAR SMEAR POSITIN | LMONAR R POSITIN | ا کا پھ | _ \F | ruber | SOILOSI | S | | ß. | near | <u> </u> | Pulm Ex | tra | ŀ | , ; | | | OTAL | |
|--|---|---|--|---|---|---|---|---|--|--|---|--|---|---|--|--|---|---|---|---|--|---|
| | NewS(+) | Ne | v Cases | | | Relapse | Previous es T | sly treater after Def | d cases ault T'aft | er failur | e Total | | gative | Total | Tuber | culosis | Total | othe | _ | | | |
| | | M | Ь | ⊢ | Ш | W | ш | M | | ഥ | | Σ | н | | Σ | Ь | | Σ | ш | M | F | TOTAL |
| | | | | | | | | | | | | | | | | | | | | | | |
| 78378 | 134 | 09 | 33 | 93 | %02 | 10 | 2 | _ | 0 | , 2 | 1 105 | 44 | | | 3 47 | 31 | 82 | 6 | 2 | 173 | 91 | 264 |
| 246220 | 185 | 149 | 70 | 219 | 119% | 18 | 12 | _ | 0 | , | | 7 143 | | | 141 | 115 | 256 | 27 | 6 | 485 | 273 | 758 |
| 233028 | 175 | 96 | 45 | 141 | 81% | 13 | 80 | 3 | 2 | 9 | | 5 103 | | | 116 | 92 | 192 | 18 | 80 | 355 | 193 | 548 |
| 173490 | 130 | 171 | 76 | 247 | %061 | 25 | 2 | 1 | 1 | 4 | | 3 180 | | | 3 94 | 91 | 185 | 28 | 12 | 503 | 271 | 774 |
| 218577 | 164 | 110 | 22 | 165 1 | 101% | 19 | 2 | 3 | 0 | 2 (| | 107 | | | 121 | 78 | 199 | 27 | 7 | 389 | 201 | 290 |
| 145046 | 109 | 84 | 49 | 133 | 122% | 4 | 2 | 3 | _ | - | | | | | 109 | 74 | 183 | 20 | _ | 336 | 178 | 514 |
| 173723 | 130 | 63 | 42 | 105 | 81% | 6 | 3 | 5 | 2 | 0 | | | | | 3 92 | 22 | 149 | 7 | 4 | 254 | 139 | 393 |
| 355886 | 267 | 28 | 26 | 54 | 20% | 20 | 2 | 0 | 0 | 1 | | 194 | | | 3 227 | 196 | 423 | 31 | 19 | 501 | 350 | 851 |
| 199444 | 150 | 31 | 13 | 44 | 79% | _ | 3 | _ | 0 | 0 | | | | | 3 22 | 15 | 37 | 10 | 2 | 123 | 28 | 181 |
| 198752 | 149 | 99 | 36 | 92 | %29 | 6 | 3 | 0 | 0 | 0 | | 32 | | | 3 47 | 20 | 29 | 3 | 0 | 147 | 92 | 212 |
| 299002 | 224 | 74 | 25 | 66 | 44% | 21 | 9 | 0 | 0 | 0 | | | | | 30 | 33 | 63 | 0 | 0 | 151 | 98 | 237 |
| 286837 | 215 | 93 | 46 | 139 | %59 | 20 | 6 | 0 | 0 | 0 | | | 61 | | 164 | 149 | 313 | 8 | 0 | 411 | 265 | 929 |
| 299881 | 225 | 88 | 46 | 135 | %09 | 10 | 6 | - | _ | 0 | | 39 | | | 31 | 28 | 29 | 3 | 7 | 173 | 108 | 281 |
| 234263 | 176 | 32 | 13 | 45 | %97 | 3 | - | 0 | _ | - | | | 7 | | 15 | 13 | 28 | 2 | 2 | 81 | 37 | 118 |
| 138323 | 104 | 29 | 17 | 46 | 44% | 9 | က | 0 | 0 | 0 | | 7 29 | 11 | | 35 | 16 | 51 | _ | 0 | 100 | 49 | 149 |
| 240534 | 180 | 35 | 14 | 49 | 27% | 10 | 7 | 0 | 2 | 0 | | 3 57 | | | 44 | 37 | 81 | - | 0 | 147 | 98 | 233 |
| 269023 | 202 | 22 | 39 | 94 | 47% | 10 | 7 | 0 | 0 | 9 | | 93 | | _ | 3 93 | 87 | 180 | 14 | 21 | 271 | 226 | 497 |
| 175615 | 132 | 28 | 24 | 82 | %29 | _ | က | 0 | 0 | | | 9 62 | | | 130 | 96 | 226 | 4 | 7 | 257 | 150 | 407 |
| 259994 | 195 | 82 | 25 | 107 | 22% | 9 | _ | 9 | 0 | , | | 1 62 | | | 44 | 31 | 75 | 2 | _ | 212 | 94 | 306 |
| 192044 | 144 | 50 | 18 | 89 | 47% | 7 | လ | 2 | 0 | 4 | | | | | 103 | 77 | 180 | 20 | 80 | 236 | 131 | 367 |
| 139133 | 104 | 98 | 15 | 113 | %801 | 23 | 2 | - | 0 | 1 | _ | 72 | | | 9 41 | 27 | 89 | 18 | 2 | 254 | 73 | 327 |
| 111228 | 83 | 09 | 17 | 77 | %76 | 2 | 0 | - | 0 | 4 | | 7 | | | 95 | 37 | 132 | 2 | 0 | 221 | 78 | 299 |
| 251473 | 189 | 62 | 28 | 06 | 48% | 13 | - | 0 | 0 | 0 | | 4 47 | 19 | | 3 79 | 37 | 116 | 2 | 2 | 203 | 87 | 290 |
| 274514 | 206 | 106 | 82 | 188 | 91% | 4 | 2 | 0 | 0 | 0 | | 1 24 | | | 25 | 16 | 41 | 3 | - | 162 | 118 | 280 |
| 350636 | 263 | 26 | 27 | 83 | 32% | 7 | 80 | 0 | 0 | 0 | | | | | 42 | 43 | 85 | 0 | 0 | 165 | 106 | 271 |
| 319219 | 239 | 164 | 65 | 229 | %96 | 21 | 7 | o | 0 | 6 | | | | | 117 | 65 | 182 | 19 | 2 | 527 | 231 | 758 |
| 288263 | 216 | 92 | 33 | 109 | 20% | ∞ | _ | 0 | 0 | 0 | | | | | 43 | 21 | 64 | 10 | 7 | 166 | 69 | 235 |
| 226287 | 170 | 101 | 36 | 137 | 81% | 7 | 7 | 7 | 3 | 7 | | 7 109 | | | 180 | 156 | 336 | 2 | က | 413 | 240 | 653 |
| 232564 | 174 | 54 | 35 | 89 | 21% | 80 | 2 | 0 | 0 | 0 | | 22 | | | 9 40 | 36 | 92 | 0 | 0 | 124 | 93 | 217 |
| 125155 | 94 | 44 | 10 | 54 | 28% | 8 | 0 | - | 0 | 0 | | | | | 9 60 | 47 | 107 | 2 | _ | 143 | 80 | 223 |
| 146892 | 110 | 27 | 7 | 34 | 31% | 1 | 3 | 2 | 0 | 0 | | | | | 1 7 | 7 | 14 | 2 | 2 | 55 | 27 | 82 |
| 6983424 | 5238 | 2293 | | | 64% | | 121 | 43 | 13 6 | | | | | | | 1812 | 4246 | 304 | | | | 11991 |
| Mandalay Div Amarapura Aungmyaytharza Chanayetharzan Chanayetharzan Chanayetharzan Chanayetharzan Chanayetharzan Chanayetharzan Chanayetharzan Chanayetharzan Chanayetharzan Maharaungmyae Pyigyitagonn Mahlaing Tharzi Wundwin Myingan Myingan Myingan MyaungU Pyin oo Lwin Madayar Mogok Sintgu Thabeikkyin Yamethin Lewei Pyinmana Tatkone Kyaukse Myitha Sintgine Tatkoo | rision 178378 24620 233028 173490 218577 145046 173723 355886 198752 299002 286837 299881 234263 138323 269023 175615 259994 192044 139133 111228 251473 274514 350636 319219 288263 226287 226287 226287 226287 226287 125155 146892 | Ision Aision 178378 246220 233028 173430 173430 173432 233028 173432 233028 1734333 234263 234263 269023 234263 269023 175615 259994 192044 192044 139133 111228 251473 274514 274514 350636 319219 226287 232564 125155 146892 6983424 | Population Stimated NewS(+) Casses NewS(+) Casses 148 14 173723 130 6 173723 130 6 173723 130 6 173723 130 6 173723 130 6 173724 149 5 193725 149 5 193727 149 5 193728 176 3 193728 176 3 193729 176 3 193729 180 3 240534 180 3 259994 195 8 192044 144 5 13219 239 16 259394 170 10 259394 170 10 258263 216 7 26925 170 10 274514 206 10 256287 170 10 232564 174 5 125155 94 4 146892 110 2 | Population Estimated Cases NewS(+) NewS(+) | Population Stimated cases NewS(+) New Cases Orases NewS(+) NewS(+) Tision rases NewS(+) NewS(+) T rases T rases NewS(+) NewS(+) T <t< td=""><td> Population Stimated New Cases New</td><td> Population Stimated Cases New Cases A F T T T T T T T T T</td><td> NewS(+) New Cases CDR F T T NewS(+) New Cases New Cases </td><td> Population Stiffmate Cases Method Meth</td><td> NewNotation Stiffnate New Cases Ne</td><td> Stiff the color Stiff the</td><td> PULMONARY TUBE RCULOSIS SMEAR POSTING TABLE RCULOSIS SMEAR POSTING TABLE R POSTING TABLE</td><td> Population Stiffmate Population Population</td><td> New New New New New New New New New New</td><td> Population Sintanteal Sin</td><td> Population Pop</td><td> Particulary Particulary </td><td> Particulary Particulary </td><td> Particulary Particulary </td><td> Particulary Particulary </td><td> Participa Part</td><td> Page Page </td></t<> | Population Stimated New Cases New | Population Stimated Cases New Cases A F T T T T T T T T T | NewS(+) New Cases CDR F T T NewS(+) New Cases New Cases | Population Stiffmate Cases Method Meth | NewNotation Stiffnate New Cases Ne | Stiff the color Stiff the | PULMONARY TUBE RCULOSIS SMEAR POSTING TABLE RCULOSIS SMEAR POSTING TABLE R POSTING TABLE | Population Stiffmate Population Population | New | Population Sintanteal Sin | Population Pop | Particulary Particulary | Particulary Particulary | Particulary Particulary | Particulary Particulary | Participa Part | Page Page |

| | | | | | | | ľ | | 2 | L | | c | | | | | - | - | | - | | _ | , | |
|----------|---------------|----------------------|---------|-----|-----------|-----|------|----------------|--------|--------------------------|------------|-----------------|----------|-------------|----------|----------|-------|--------------|-------|----|-------|------|-------|-------|
| | di HSNNCL | Population Estimated | timated | | | | SME | SMEAR POSITIVI | SITIVE | I OBE | COLOS | 2 | | | Smear | <u> </u> | Pulr | Pulmonary | | | | | TOTAL | |
| ò | | | NewS(+) | | | | | | Previo | Previously treated cases | ed cases | | 1 | ž | Negative | Total | | Tuberculosis | Total | ŧ | other | | | |
| <u>,</u> | | | cases | | New Cases | S | CDR | Relaps | ses | T'after Default | sfault T'a | T'after failure | re Total | | , | | | | | | | | | |
| | | | | M | ш | F | | M | ш | M | Ь | 1 F | | Σ | Ь. | | Σ | ч | | M | Ь | M | ш | TOTAL |
| | SHAN (South) | h) State | | | | | | | | | | | | | | | | | | | | | | |
| | 1 Linhkay | 61590 | 46 | 22 | 2 | 27 | %89 | 0 | 0 | - | 0 | 0 | 0 2 | 28 1 | 10 | 7 | 2 | 1 5 | 9 | 2 | 0 | 36 | 17 | 53 |
| . 1 | 2 Maukme | 30016 | 23 | 6 | 10 | 19 | 84% | 1 | 1 | 0 | 0 | 1 | 0 2 | 22 | 1 | 1 | 2 | 3 2 | 2 | | 0 | 15 | 14 | 29 |
| | 3 Monai | 43098 | 32 | 8 | 7 | 15 | 46% | 0 | _ | 0 | 0 | - | 0 | 17 | 4 | 4 | 8 | 0 | _ | 0 | 0 | 13 | 13 | 26 |
| , | 4 Mangpang | 37017 | 28 | 8 | 5 | 13 | 47% | 0 | 1 | 0 | 0 | 2 (| 0 1 | 16 | 4 | 0 | 4 | 0 1 | 1 | 0 | 0 | 14 | 7 | 21 |
| | 5 Loilem | 107128 | 80 | 1 | 15 | 26 | 32% | 4 | 0 | 0 | 0 | 0 | 0 | 30 4 | 49 | 15 6 | 64 | 3 4 | 7 | 1 | _ | 68 | 35 | 103 |
| | 6 Kunhein | 74686 | 56 | 30 | 26 | 56 | 100% | 2 | _ | 0 | 0 | 2 | 2 6 | 99 | 29 2 | 22 5 | 51 23 | 36 | 5 59 | 1 | 0 | 90 | 87 | 177 |
| | 7 Kyeethi | 35438 | 27 | 2 | 2 | 10 | 38% | 0 | 0 | 0 | 0 | _ | 0 | 11 | 26 1 | 18 4 | 44 | 8 13 | 3 21 | 0 | 0 | 40 | 36 | 76 |
| | 8 Laikha | 40331 | 30 | 27 | 80 | 35 | 116% | 4 | 0 | 0 | 0 | - | 0 | 40 3 | 33 | 10 | 43 8 | 8 | 12 | 1 | 0 | 74 | 22 | 96 |
| | 9 Mongaking | 121367 | 91 | 15 | 4 | 19 | 21% | 0 | _ | _ | _ | - | 2 | 25 | 2 | 3 | 8 12 | 0 | 12 | 0 | 0 | 34 | 11 | 45 |
| 7 | 10 Mongshu | 63654 | 48 | 15 | တ | 24 | 20% | _ | _ | 0 | 0 | 0 | 0 | 26 2 | 26 2 | 25 5 | 51 11 | 15 | 5 26 | 0 | 0 | 53 | 50 | 103 |
| - | 11 Namsan | 75439 | 22 | 29 | 13 | 42 | 74% | 2 | 0 | 0 | 0 | 0 | 0 | 44 | 71 2 | 29 100 | 0 43 | 31 | 1 74 | 8 | 2 | 153 | 75 | 228 |
| 1 | 12 Taunggyi | 345516 | 259 | 107 | 42 | 149 | 21% | 14 | 3 | 8 | 0 | 7 | 3 184 | 162 | 107 | 7 269 | 68 | 9 62 | 151 | 19 | 5 | 406 | 222 | 628 |
| τ | 13 Hopone | 97136 | 73 | 13 | 10 | 23 | 32% | _ | 0 | _ | 0 | 0 | 0 | 25 1 | 12 | 7 | 19 6 | 6 4 | 10 | 0 | _ | 33 | 22 | 55 |
| Ţ | 14 Hpekon | 77340 | 58 | 16 | 5 | 21 | 36% | - | 0 | 0 | 0 | - | 0 | 23 3 | 35 2 | 27 6 | 62 8 | 8 | 10 | 4 | 0 | 65 | 34 | 66 |
| Ť | 15 Hsiseng | 133276 | 100 | 27 | 18 | 45 | 45% | 2 | 2 | 3 | _ | <u>_</u> | 1 | 58 1 | 14 | 10 2 | 24 22 | 14 | 1 36 | - | 0 | 73 | 46 | 119 |
| Ť | 16 Kalaw | 155979 | 117 | 51 | 13 | 64 | 22% | 2 | 0 | 0 | 0 | 4 | 2 7 | 72 2 | 28 1 | 17 4 | 45 19 | 10 | 29 | 0 | 0 | 104 | 42 | 146 |
| 17 | 7 Lauksauk | 133862 | 100 | 37 | 12 | 49 | 49% | - | 0 | _ | 0 | 0 | 0 | 51 5 | 58 2 | 27 8 | 85 (| 9 | 6 | 3 | _ | 106 | 43 | 149 |
| ĩ | 18 Pindaya | 78686 | 29 | 7 | 2 | 12 | 20% | 0 | 0 | 0 | 0 | - | 0 | 13 3 | 35 | 6 | 41 | 4 | 3 12 | 0 | 0 | 47 | 19 | 99 |
| Ť | 19 Pinlaung | 152973 | 115 | 34 | 0 | 43 | 37% | 2 | _ | 0 | 0 | 0 | 0 | 1 46 | 11 | 8 | 19 21 | 14 | 1 35 | 0 | 0 | 68 | 32 | 100 |
| Ñ | 20 Nyaungshwe | 181017 | 136 | 43 | 33 | 76 | 26% | 3 | 2 | 0 | 0 | 0 | - 8 | 82 2 | 22 | 16 3 | 38 18 | 3 12 | 30 | 2 | 0 | 88 | 64 | 152 |
| 2 | 21 Ywangan | 73752 | 22 | 10 | 2 | 12 | 22% | 0 | 1 | 0 | 0 | 2 (| 0 | 15 2 | 23 1 | 11 3 | 34 | 1 | 1 2 | 1 | 1 | 37 | 16 | 53 |
| | Total | 2119301 | 1589 | 524 | 256 | 780 | 49% | 43 | 15 | 15 | 2 | 28 11 | 1 894 | 94 658 | 370 | 1028 | 306 | 5 242 | 2 548 | 43 | 11 | 1617 | 907 | 2524 |
| | N (Fact) | State | | | | | | | | | | | | | | | | | | | | | | |
| _ | Kenatona | 188211 | 141 | 85 | 31 | 116 | 82% | 19 | c. | 7 | - | 4 | 0 15 | 50 | 96 | 51 147 | 7 48 | 3 46 | 94 | α | 7. | 267 | 137 | 404 |
| 7 | | 29526 | 22 | 2 | - | 3 | | 0 | 0 | 0 | 0 | | | | | | | | | | 0 | 9 | 8 | 6 |
| က | | 94417 | 71 | 14 | 8 | 22 | 31% | - | - | 0 | 0 | 0 | 0 | 24 | 3 | 9 | 12 16 | 3 7 | 7 23 | 0 | 0 | 34 | 25 | 59 |
| 4 | Monghsat | 77793 | 58 | 46 | 32 | 78 | 134% | 7 | 0 | 9 | _ | - | 6 0 | 93 | 7 | 4 | 11 24 | 14 | 38 | 0 | 0 | 91 | 51 | 142 |
| 2 | Mongping | 53700 | 40 | 23 | 14 | 37 | 95% | 2 | 2 | _ | _ | 0 | 0 | 43 | 11 | 8 | 19 24 | 14 | 1 38 | 0 | 0 | 61 | 39 | 100 |
| 9 | Mongton | 39692 | 30 | 22 | 10 | 32 | 107% | 4 | 2 | 2 | 0 | 2 | 0 | 42 2 | 29 | 3 4 | 42 23 | 3 22 | 2 45 | 0 | 0 | 82 | 47 | 129 |
| 7 | Monpyak | 40024 | 30 | 1 | 12 | 23 | 77% | 2 | 2 | - | 0 | 0 | 0 | 28 1 | 15 | 8 | 23 22 | 19 | 9 41 | 0 | 0 | 51 | 41 | 92 |
| ∞ | Mongyaung | 70514 | 53 | 27 | ∞ | 35 | %99 | 2 | 0 | 0 | 0 | 3 | 0 | 43 | 17 1 | 11 2 | 28 2 | 5 | 6 | 0 | 0 | 56 | 24 | 80 |
| 0 | | 118216 | 83 | 88 | 48 | 137 | 155% | 17 | 4 | 0 | _ | 0 | 0 15 | 59 186 | 119 | 9 305 | | 9 16 | 3 25 | 5 | 2 | 306 | 190 | 496 |
| 10 |) Matman | Ä | | | | | | \dashv | | \dashv | - | - | | \parallel | | | | _ | | | | | | |
| | Total | 712093 | 534 | 319 | 164 | 483 | %06 | 22 | 14 | 17 | 4 | -0 | 0 585 | 364 | 223 | 587 | 174 | 145 | 319 | 13 | 7 | 954 | 557 | 1511 |
| | | | | | | | ı | | | | | | | | | | | | | | | | | |

| | | | TOTAL | | | 95 | 178 | 324 | 334 | 104 | 10 | 138 | 125 | 125 | 679 | 94 | | 151 | 162 | | 49 | | | 322 | 118 | | 260 | 313 | 200 | 3781 |
|-------------|----------------------------|--|---------------|--------------------|--------------------|----------------|--------|---------|--------|--------|--------|----------|--------|-----------|--------|--------|---------|---------|---------|----------|---------|----------|----------|--------|---------|---------|--------|--------|---------|---------|
| 131) | TOTAL | | <u>.</u> Ц | | | 35 | 82 | 117 | 120 | 45 | 9 | 47 | 50 | 49 | 212 | 47 | | 61 | 59 | | 19 | | | 133 | 44 | | 101 | 127 | 78 | 1432 |
| 2 | | | M | | | 09 | 96 | 207 | 214 | 59 | 4 | 91 | 75 | 26 | 467 | 47 | | 90 | 103 | | 30 | | | 189 | 74 | | 159 | 186 | 122 | 2349 |
| 2 | | | ь | | | 0 | _ | 1 | 4 | 0 | 0 | _ | 7 | _ | 3 | 0 | | 2 | 0 | | 0 | | | 0 | 4 | | _ | 0 | 0 | 19 |
| | | other | Μ | | | 0 | _ | 2 | 8 | 0 | 0 | 3 | 7 | _ | 12 | 0 | | 0 | 0 | | 0 | | | 0 | 3 | | 0 | _ | 1 | 33 |
| \ \ \ | | Total | | | | 16 | 73 | 33 | 85 | 51 | 0 | 28 | 43 | 37 | 180 | 38 | | 45 | 116 | | _ | | | 84 | 27 | | 104 | 180 | 89 | 1230 |
| | a Jar | losis | ь | | | 7 | 28 | 18 | 35 | 25 | 0 | 6 | 20 | 17 | 60 | 23 | | 25 | 45 | | _ | | | 35 | 12 | | 41 | 86 | 41 | 528 |
| | Extra Pulmonary | Tuberculosis | Μ | | | 6 | 45 | 15 | 20 | 26 | 0 | 19 | 23 | 20 | 120 | 15 | | 20 | 71 | | 0 | | | 49 | 15 | | 63 | 94 | 48 | 702 |
| | | Total | ı | | | 29 | 37 | 181 | 113 | 23 | 0 | 39 | 27 | 45 | 243 | 27 | | 39 | 12 | | 25 | | | 118 | 36 | | 74 | 85 | 36 | 1189 |
| | ar | ive | ц | | | 12 | 22 | 62 | 30 | 10 | 0 | 15 | 6 | 18 | 77 | 14 | | 8 | 2 | | 11 | | | 54 | 15 | | 30 | 22 | 15 | 429 |
| | Smear | Negative | M | | | 17 | 15 | 119 | 83 | 13 | 0 | 24 | 18 | 27 | 166 | 13 | | 31 | 7 | | 14 | | | 64 | 21 | | 4 | 63 | 21 | 092 |
| | | Total | <u> </u> | | | 20 | 99 | 107 | 124 | 30 | 10 | 29 | 53 | 41 | 241 | 29 | | 65 | 34 | | 23 | | | 120 | 48 | | 81 | 47 | 74 | 1310 |
| | | ailure | Ь | | | _ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | | 0 | 0 | | 0 | | | _ | 0 | | 0 | _ | 0 | 2 |
| | SIS | es T'after failure | Μ | | | 0 | 0 | 1 | 0 | 3 | 0 | 3 | 0 | 0 | 10 | 0 | | _ | 0 | | 0 | | | 0 | 0 | | 7 | 7 | 1 | 21 |
| | UBERCULOS | cas | M | | | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | | 0 | 0 | | 0 | | | 0 | _ | | 0 | _ | 1 | 10 |
| | TUBE | Previously treated State Instance States | M | | | 0 | ~ | 0 | 0 | 0 | 0 | 2 | 0 | ~ | 2 | 0 | | 7 | 0 | | 0 | | | ~ | _ | | 0 | 0 | 1 | 11 |
| | NARY SITIVE | Previo | ш | | | 1 | 7 | 2 | 7 | 1 | 1 | 0 | 2 | 0 | 2 | 1 | | 4 | 0 | | 0 | | | 2 | 0 | | 3 | _ | 1 | 30 |
| | PULMONARY SMEAR POSITIV | Relap | W | | | 2 | 3 | 13 | 9 | 1 | 0 | 4 | 2 | 3 | 25 | 2 | | - | - | | 3 | | | 15 | 0 | | 9 | 0 | 9 | 93 |
| | SME/ | CDR | | | | 41% | 71% | 26% | 85% | 95% | 27% | %86 | 43% | 35% | 95% | 35% | | %26 | 28% | | 30% | | | %99 | 30% | | 29% | 28% | %99 | 26% |
| | | S | ⊢ | | | 46 | 09 | 90 | 111 | 25 | 6 | 26 | 49 | 37 | 198 | 24 | | 22 | 33 | | 20 | | | 101 | 46 | | 71 | 43 | 64 | 1140 |
| | | New Cases | ч | | | 14 | 29 | 33 | 44 | 6 | 2 | 20 | 18 | 13 | 99 | 7 | | 22 | 6 | | 7 | | | 41 | 12 | | 26 | 16 | 20 | 411 |
| | | Ne | M | | | 32 | 31 | 57 | 29 | 16 | 4 | 36 | 31 | 24 | 132 | 17 | Ņ. | 35 | 24 | Ŋ. | 13 | Ņ. | Nr. | 09 | 34 | Ņ. | 45 | 27 | 44 | 729 |
| | timated | NewS(+) | | | | 113 | 84 | 160 | 131 | 27 | 33 | 22 | 115 | 104 | 215 | 69 | 12 1 | 59 | 26 | 46 | 29 | 29 | 11 | 152 | 153 | 36 | 120 | 153 | 98 | 2035 |
| | Population Estimated | Z | | | ıte | 151169 | 112522 | 213407 | 175103 | 36335 | 43924 | 75996 | 153682 | 139287 | 286720 | 92215 | 16017 | 78137 | 75297 | 60947 | 89468 | 38841 | 15216 | 203181 | 113334 | 48509 | 159628 | 203860 | 130098 | 2712893 |
| | Popi | | | man | h) Sta | 1 | 7 | 2 | 1 | | | | 1 | 7 | 2 | | | | | | | | | 2 | _ | | _ | 2 | 1 | 27 |
| | TOWNSHIP | | | Nr. 1Tsp; 1.Matman | SHAN (North) State | Kunlon | Hopan | Kyaukme | Hsipaw | Mabein | Manton | Mongmeik | Namtu | Nyaungcho | Lashio | Namsam | Mongmaw | Theinni | Mongreh | Manphant | Pangyan | Narphant | Panwaing | Tanyan | Laukkai | Kongyan | Muse | Kuitai | Namkham | Total |
| ŀ | | S. | | _ | -, | - Σ | 2 | 8 | 4 | 5 N | 9 | 7 | 8 | 6 | 10 L | 11 | 12 N | 13 T | 14 N | 15 N | 16 F | 17 | 18 F | 19 T | 20 L | 21 | 22 N | 23 | 24 N | |
| L | | | | | | | | | - | | - | | | | | | | | | | | | | | | | | | | |

^{*} Note* (Nr.) Report had not been received from (3) townships

Nr. (5) tsp: 1.Manphant, 2.Panwaing, 3.Mongmaw, 4.Kongyan, 5.Narphant

| L | | | | | | | | | 2 | Ĺ | | 9 | | | | - | - | | } | ֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֡֡֡֜֜֜֜֡֡֡֡֡֡֡֜֜֜֜ | | | | |
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| | dih&N/VCT | Population Estimated | stimated | | | | SME, | PULMON SMEAR POS | SITIVE | I OBE | UBERCULOSIS | 2 | - | F | Smear | 1 | Pu | Extra Pulmonary | > | | | | TOTAL | |
| 0 | ò | 5 | NewS(+) | | | | | | Previo | usly treat | Previously treated cases | | 1 | | Negative | | Total Tub | Tuberculosis | is Total | | other | |) | |
| , | <u>.</u> | | cases | | New Cases | ş | CDR | Relapses | sesc | Tafter Default | | T'after failure | ure Total | | <u> </u> | Ī | | <u> </u> | | | L | | | - - |
| | | | | Σ | L | - | | Σ | _ | Σ | L | ⊥ ∑ | | Σ | _ | - | Σ | _ | | Σ | _ | Σ | L | IOIAL |
| | KAYIN State | ď | | | | | | | | | | | | | | | | | | | | | | |
| • | 1 Kawkareik | 332438 | 249 | 108 | 74 | 182 | 73% | 14 | 4 | က | 0 | 3 | 0 20 | 206 10 | 60 | . 29 | 176 | 24 | 24 | 48 | 3 2 | 264 | 171 | 435 |
| • | 2 Kyainseikkyi | 181508 | 136 | 37 | 17 | 54 | 40% | 0 | 0 | _ | 0 | 0 | - | , 99 | 43 | 27 | 70 | 6 | 8 | 17 | 0 | 06 |) 53 | 143 |
| | 3 Myawady | 62327 | 47 | 113 | 22 | 170 | 364% | 8 | 4 | 7 | _ | - | 2 18 | . 66 | 62 | 48 | | 20 | 1 29 | 126 1 | 17 3 | 3 295 | 171 | 466 |
| • | 4 Hpa-an | 501451 | 376 | 301 | 152 | 453 | 120% | 26 | 2 | 4 | 7 | - | 1 46 | 492 9; | 926 6 | 682 10 | 1608 | 9 89 | 09 | 128 | 2 0 | 1328 | 3 902 | 2230 |
| | 5 Hlaingbwe | 292053 | 219 | 75 | 99 | 141 | 64% | တ | က | - | - | - | 1 | 57 1 | 117 1 | 36 | 253 | 72 | 15 | 40 | 0 | 228 | 3 222 | 450 |
| _ | 6 Papun(Kamamau | au 75217 | 56 | 34 | 15 | 49 | 87% | _ | 0 | 0 | 0 | 2 | 2 | 54 | 25 | 40 | 92 | 0 | 10 | 19 | 0 | 101 | 1 67 | 168 |
| • | 7 Thandaung | 92459 | 69 | 7 | 2 | 12 | 17% | 7 | 0 | 0 | 0 | 7 | 0 | 14 | 20 | 6 | 29 | 2 | 2 | 4 | 1 0 | 32 | 16 | 48 |
| | Total | 1537453 | 1153 | 675 | 386 | 1061 | 95% | 59 | 16 | 16 | 4 | 6 | 7 1172 | 72 1349 | | 1009 2: | 2358 20 | 207 17 | 75 3 | 382 2 | 23 5 | 2338 | 1602 | 3940 |
| | Tanintharyi Division | Division | | | | | | | | | | | | | | | | | | | | | | |
| • | 1 Dawei | 218396 | 164 | 74 | 44 | 118 | 72% | 2 | 2 | 0 | 0 | 2 | 4 | 31 2 | 212 1 | 161 | 373 24 | 252 19 | 92 4 | 444 | | 546 | 3 404 | 950 |
| ., | 2 Launglon | 211951 | 159 | 6 | 2 | 14 | %6 | 0 | 7 | 0 | 0 | 0 | 0 | 16 | 2 | 2 | | 14 | 10 | 24 | 0 |) 25 | 5 22 | 47 |
| • • | 3 Thayetchaung | 175284 | 131 | 11 | 7 | 18 | 14% | 0 | _ | - | 0 | 0 | 0 | 20 | 8 | 7 | 15 | 5 | 13 | 18 | 0 | 25 | 5 28 | 53 |
| , | 4 Yebyu | 157458 | 118 | 22 | 80 | 30 | 25% | 2 | 0 | 7 | 0 | 7 | 7 | 41 | 36 | 26 | 62 | 8 | 7 | 15 | 0 | 80 |) 42 | 122 |
| | 5 Kawthaung | 99586 | 75 | 135 | 47 | 182 | 244% | 7 | ~ | 0 | 0 | 0 | 0 18 | 06 | 88 | 25 | 143 | 81 7 | 74 1 | 155 | 0 0 | 311 | 177 | 488 |
| | 6 Bokpyin | 67834 | 51 | 20 | 10 | 30 | 29% | 2 | 0 | 0 | 0 | 0 | 0 | 32 | 88 | 63 | 151 | 30 | 56 | 26 | 0 | 140 |) 99 | 239 |
| · | 7 Myeik | 309352 | 232 | 242 | 112 | 354 | 153% | 24 | 4 | 2 | 8 | က | 1 40 | 404 8 | 848 6 | 629 1 | 507 8 | 885 74 | 742 16 | 627 3 | 32 22 | 2039 | 1553 | 3592 |
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| | 9 Tanintharyi | 107484 | 81 | 34 | 6 | 43 | 53% | 2 | ~ | 7 | - | 0 | - | 20 | 21 | 2 | 56 | 14 | 16 | 30 | 1 0 | 74 | 1 33 | 107 |
| _ | 10 Palaw | 141855 | 106 | 36 | 36 | 72 | %89 | 5 | 10 | 5 | 0 | 0 | 2 | 94 10 | 107 | 116 | 223 | 38 | 34 | 72 | 1 | 192 | 2 200 | 392 |
| | Total | 1646224 | 1235 | 009 | 285 | 885 | 475% | 48 | 32 | 17 | 2 | 12 | 10 1009 | 1423 | | 1116 2 | 2539 1347 | 47 1131 | | 2478 3 | 39 27 | 3486 | 3 2606 | 6092 |

| TOWINGHIP Payable Pa | | | | | | | | | 400 | > 0 | L | | | | | | | - | 1 | - | - | | | | |
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| Particular Par | | | doitol ido | *timoto | | | | Z JWE | VEIWOR | TAK! | I OBE | SCOLO. | 200 | - | ŀ | Smear | 1 | | Extra | | | | | TOT | ٦ |
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| Newwork 11 (27) Gas (18) 173 33 106 90% 5 3 1 157 (36) 28 12 <t< td=""><th>v</th><td>5 Shwekyin</td><td>83566</td><td>63</td><td>30</td><td>20</td><td>50</td><td>%08</td><td>_</td><td>0</td><td>0</td><td>_</td><td>0</td><td>0</td><td>52</td><td>61</td><td></td><td>00</td><td>2</td><td>3</td><td>8</td><td></td><td></td><td></td><td>63 160</td></t<> | v | 5 Shwekyin | 83566 | 63 | 30 | 20 | 50 | %08 | _ | 0 | 0 | _ | 0 | 0 | 52 | 61 | | 00 | 2 | 3 | 8 | | | | 63 160 |
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| Page (Next) 285562 2142 1161 603 1764 82% 128 128 178 | 12 | 4 Yedashe | 187208 | 140 | 99 | 51 | 117 | 83% | 7 | 4 | 2 | 3 | 3 | | 37 | 20 | 37 | | 10 | 3 | 13 | | | | 99 237 |
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| Pyay 234344 176 143 67 210 119% 4 3 0 0 10 28 21 506 22 21 43 3 2 Paukkhaung 117266 108 59 41 100 93% 7 1 0 0 108 79 60 1 6 149 7 6 13 1 0 0 0 10 6 1 1 74 67 141 7 6 13 1 0 1 0 11 74 67 141 7 6 13 9 7 1 0 1 0 11 7 6 1 2 0 0 0 0 1 1 1 1 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <t< th=""><th></th><th>Bago (West</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<> | | Bago (West | | | | | | | | | | | | | | | | | | | | | | | |
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| Paungde 143663 101 67 26 93 92% 12 4 1 0 111 74 67 141 7 67 141 7 67 141 7 67 141 7 67 141 7 67 141 7 67 141 7 67 141 141 | . 1 | 2 Paukkhaung | 117296 | 108 | 59 | 41 | 100 | 93% | 7 | _ | 0 | 0 | 0 | | 80 | 79 | | 29 | 4 | 2 | 6 | | | | 127 276 |
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| Shwedaung 142659 107 55 46 101 94% 9 5 1 0 117 121 90 211 29 33 62 4 1 Thegon 134075 101 79 29 108 107% 5 2 0 17 206 156 16 1 1 20 11 206 156 13 125 5 1 1 2 4 0 6 2 200 86 73 156 1 1 1 2 4 0 0 0 0 7 2 6 1 1 1 1 1 2 4 0 0 0 0 7 2 6 1 | 7 | 4 Padaung | 135012 | 101 | 68 | 18 | 86 | 85% | 4 | 2 | 0 | 0 | 4 | 2 | 86 | 26 | | | | 12 | 24 | | | | 104 293 |
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| Thatyanwady 150725 113 125 54 179 158% 7 2 4 0 6 6 2 200 86 73 159 5 6 10 1 4 0 1 1 0 0 1 1 1 0 0 1 1 1 1 0 0 1 | 3 | 6 Thegon | 134075 | 101 | 79 | 29 | 108 | 107% | 2 | 2 | 0 | 0 | 2 | | | 506 | | | 16 | 9 | 22 | | | | 193 502 |
| Zigon 72806 55 18 68 125% 3 1 0 0 72 95 65 10 1 6 72 95 65 10 1 0 72 95 65 10 1 0 72 95 65 10 1 0 7 10 7 10 1 1 50 23 7 1 50 7 10 1 1 50 25 16 1 0 97 29 26 55 16 1 0 97 29 26 55 10 0 <t< td=""><th></th><td></td><td>150725</td><td>113</td><td>125</td><td>54</td><td>179</td><td>158%</td><td>7</td><td>2</td><td>4</td><td>0</td><td>9</td><td></td><td>00;</td><td>98</td><td></td><td>29</td><td>2</td><td>9</td><td>-</td><td></td><td></td><td>_</td><td>37 371</td></t<> | | | 150725 | 113 | 125 | 54 | 179 | 158% | 7 | 2 | 4 | 0 | 9 | | 00; | 98 | | 29 | 2 | 9 | - | | | _ | 37 371 |
| Minhla 119742 90 69 98 109% 4 5 0 111 50 23 73 73 73 7 10 0 0 Moenyo 143078 107 56 31 87 81% 4 2 3 1 6 92 56 56 56 1 6 7 56 56 57 86 56 6 3 1 8 4 1 0 9 56 59 6 56 56 56 3 1 6 7 6 9 6 9 | | | 72806 | 55 | 20 | 18 | 68 | 125% | က | - | 0 | 0 | 0 | 0 | 72 | 32 | | 09 | ~ | 4 | 2 | | _ | | 91 242 |
| Moenyo 143078 107 56 31 87 81% 4 2 3 0 1 0 97 29 26 55 16 13 29 0 0 0 92 56 56 16 13 29 0 <t< td=""><th>3,</th><td>9 Minhla</td><td>119742</td><td>90</td><td>69</td><td>29</td><td>98</td><td>109%</td><td>4</td><td>2</td><td>0</td><td>0</td><td>4</td><td></td><td>11</td><td>20</td><td>23</td><td>73</td><td>က</td><td>7</td><td>10</td><td></td><td>_</td><td></td><td>64 194</td></t<> | 3, | 9 Minhla | 119742 | 90 | 69 | 29 | 98 | 109% | 4 | 2 | 0 | 0 | 4 | | 11 | 20 | 23 | 73 | က | 7 | 10 | | _ | | 64 194 |
| Okposingauk 1140158 166 56 31 87 43% 4 1 0 0 92 59 40 99 0 3 3 0 0 Gyobingauk 114852 86 68 37 105 122% 8 5 0 0 0 118 130 124 254 3 7 10 0 0 0 0 118 130 124 3 7 10 0 0 Latpadan 218400 164 102 42 124 48 20 11 0 178 171 161 332 12 1 0 | 7 | 0 Moenyo | 143078 | 107 | 26 | 31 | 87 | 81% | 4 | 2 | 3 | 0 | - | 0 | 26 | 59 | 26 | | 16 | 13 | 29 | | | | 72 181 |
| Gyobingauk114852866837105122%850001181301242543710000013510610120746100013510610120746101011101111110111 | , | | 140158 | 105 | 26 | 31 | 87 | 83% | 4 | - | 0 | 0 | 0 | 0 | 92 | 29 | 40 | 66 | 0 | က | က | | | | 75 194 |
| Nattalin 158878 119 80 42 122 102% 9 4 0 0 0 135 106 101 207 4 6 10 1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1, | | 114852 | 98 | 89 | 37 | 105 | 122% | 80 | 2 | 0 | 0 | 0 | | | | | 24 | က | 7 | 10 | | | | 173 382 |
| Latpadan 218400 164 102 42 144 88% 22 11 0 0 1 0 178 171 161 332 12 9 21 0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 | 7 | | 158878 | 119 | 80 | 42 | 122 | 102% | 0 | 4 | 0 | 0 | 0 | 0 | | | | 07 | 4 | 9 | 10 | | | | 153 353 |
| 2025688 1519 1077 511 1588 105% 102 48 9 0 30 8 1785 1598 1287 2885 134 138 272 17 6 | 1, | | 218400 | 164 | 102 | 42 | 144 | 88% | 22 | 7 | 0 | 0 | - | | | | | | 12 | 6 | 21 | | | | 223 531 |
| | | Total | 2025688 | 1519 | 1077 | 511 | 1588 | 105% | 102 | 48 | 6 | 0 | 30 | | _ | _ | | _ | _ | | . 272 | | | _ | 998 4965 |

| | | | | | | | | | | i. | | | | | | - | - | | ŀ | | | | • | |
|----|---------------|---------------------|----------|------|------------|------|------|------------|--------|--------------------------|------------------|------------|----------|----------|----------|----------|----------|--------------------|--------|-------|-------|---------|---------|---------|
| | TOWNSHIP | Population stimated | stimated | | | | SME | SMEAR POSI | SITIVE | 100 | UBERCULUS | 20 | \vdash | \vdash | Smear | <u> </u> | | Extra Pulmonary | 2 | | | | TOTAI | Ļ |
| S. | | | NewS(+) | | adac) moly | 9 | ٥ | Donalog | Previo | Previously treated cases | ly treated cases | SS foilure | | | Negative | | Total Tu | Tuberculosis | | Total | other | | | |
| | | | Cases | Z | T V | - CD | 5 | M | S L | M | | | | | M | ш | | M | - | _ | M | Σ | ш | TOTAL |
| | Mon State | | | | | | | | 1 | 1 | | 1 | | - | 1 | - | | 1 | _ | _ | | | _ | |
| 7 | Mawlamyaing | 274496 | 206 | 249 | 106 | 355 | 172% | 40 | 20 | 9 | 2 | 9 | 3 | 432 | 476 | 367 | 843 | 63 | 09 | 123 | 9 | 3 8 | 846 561 | 1407 |
| 2 | Chanungzon | 153662 | 115 | 63 | 30 | 93 | 81% | ო | 3 | 0 | 0 | 2 | 0 | 101 | 141 | 93 | 234 | 3 | 9 | 6 | 0 | 0 21 | 132 | 32 344 |
| က | Kyaikmaraw | 209698 | 157 | 70 | 35 | 105 | %29 | 1 | 2 | _ | 0 | 0 | 0 | 119 | 208 | 185 | 393 | 20 | 7 | 31 | 0 | 3, | 310 23 | 233 543 |
| 4 | Mudon | 207832 | 156 | 110 | 53 | 163 | 105% | 7 | 3 | _ | _ | 4 | - | 180 | 184 | 154 | 338 | 166 | 129 | 295 | က | 3 47 | 475 34 | 344 819 |
| 2 | Thanbyuzayat | 161455 | 121 | 77 | 43 | 120 | %66 | ო | 3 | 0 | 0 | _ | 7 | 129 | 156 | 145 | 301 | 8 | 10 | 18 | 0 | 1 24 | 245 204 | 94 449 |
| 9 | Ye | 240461 | 180 | 116 | 67 | 183 | 101% | 11 | 6 | 80 | 2 | 12 | က | 231 | 150 | 119 | 269 | 11 | 18 | 29 | 2 | 0 3, | 310 221 | 21 531 |
| 7 | Thaton | 243618 | 183 | 159 | 68 | 227 | 124% | 0 | 80 | 4 | _ | 2 | က | 257 | 96 | 78 | 172 | 33 | 33 | 99 | _ | 1 3(| 305 19 | 192 497 |
| ∞ | Belin | 168852 | 127 | 129 | 72 | 201 | 159% | 10 | 2 | 0 | 0 | _ | 7 | 216 | 217 | 175 | 392 | 1 | 18 | 29 | _ | 1 36 | 369 27 | 270 639 |
| თ | Kyaikto | 154119 | 116 | 62 | 46 | 108 | 93% | 9 | 2 | _ | _ | 4 | 7 | 127 | 91 | 28 | 149 | 15 | 7 | 22 | 0 | 17 | 179 11 | 119 298 |
| 10 | Paung | 238956 | 179 | 129 | 74 | 203 | 113% | 9 | 4 | 0 | 0 | 4 | _ | 218 | 346 | 365 | 711 | 32 | 20 | 52 | 0 | 0 5 | 517 464 | 34 981 |
| | Total | 2053149 | 1540 | 1164 | 594 | 1758 | 114% | 106 | 59 | 21 | 10 | 39 | 17 2 | 2010 2 | 2063 1 | 1739 3 | 3802 | 362 | 312 (| 674 | 13 | 9 3768 | 38 2740 | 10 6508 |
| | Rakhine State | ė | | | | | | | | | | | | | | | | | | | | | | |
| _ | Kyaukphyu | 206016 | 155 | 09 | 50 | 110 | 71% | ~ | 4 | 4 | _ | - | 7 | 123 | 78 | 93 | 171 | 51 | 40 | 91 | 7 | 5 2(| 202 | 95 397 |
| 7 | Ann | 154829 | 116 | 40 | 20 | 09 | 52% | ო | 2 | 0 | _ | _ | 0 | 29 | 4 | 41 | 82 | 235 | 213 | 448 | 9 | 4 | 329 281 | 31 610 |
| က | Manaung | 104610 | 78 | 32 | 15 | 47 | %09 | | _ | 0 | 0 | 0 | 0 | 53 | 15 | 7 | 22 | 18 | 6 | 27 | 0 | 0 | 20 | 32 102 |
| 4 | Rambye | 155273 | 116 | 30 | 21 | 51 | 44% | 5 | _ | 0 | 0 | 0 | _ | 58 | 17 | 15 | 32 | 14 | 15 | 29 | 2 | 3 | 89 | 56 124 |
| 2 | Maungdaw | 459367 | 345 | 103 | 50 | 153 | 44% | 12 | 3 | 2 | 0 | 4 | 2 | 179 | 260 | 239 | 499 | 52 | 21 | 103 | 0 | 0 | 433 34 | 348 781 |
| 9 | Buthidaung | 304421 | 228 | 154 | 111 | 265 | 116% | 13 | 9 | 0 | 0 | 0 | 0 | 284 | 253 | 342 | 595 | 8 | 11 | 19 | ო | 7 | 431 477 | 77 908 |
| 7 | Rathedaung | 176638 | 132 | 80 | 57 | 137 | 103% | n | 0 | 2 | - | - | 0 | 144 | 29 | 16 | 45 | 8 | 4 | 12 | 4 | 1, | 127 7 | 79 206 |
| ∞ | Sittwe | 288215 | 216 | 184 | 92 | 276 | 128% | 23 | 2 | 9 | - | 7 | 2 | 320 | 310 | 266 | 929 | 96 | 95 | 188 | 28 1: | 3 6 | 654 471 | 1125 |
| တ | Kyauktaw | 253575 | 190 | 111 | 78 | 189 | %66 | 7 | 9 | 7 | 7 | 0 | 0 | 206 | 133 | 102 | 235 | 4 | 12 | 56 | - | 1 26 | 268 201 | 11 469 |
| 9 | Minbya | 207702 | 156 | 92 | 72 | 167 | 107% | ო | _ | 0 | 0 | က | 0 | 174 | 19 | 22 | 4 | 12 | 7 | 23 | - | 1, | 33 107 | 7 240 |
| 7 | Myaukoo | 237778 | 178 | 96 | 85 | 181 | 101% | 12 | Э | 0 | 0 | - | 0 | 197 | 80 | 99 | 146 | 31 | 24 | 22 | 9 | 1 22 | 226 17 | 179 405 |
| 12 | Myebon | 130011 | 98 | 40 | 34 | 74 | %9/ | 4 | 0 | 0 | 0 | - | 0 | 79 | 72 | 27 | 48 | 22 | 22 | 44 | 7 | 0 | 3 06 | 83 173 |
| 13 | Pauktaw | 140818 | 106 | 52 | 41 | 96 | 91% | ∞ | - | _ | - | 0 | - | 114 | 14 | 22 | 63 | 7 | ∞ | 15 | 2 | 1, | 123 7 | 75 198 |
| 4 | Ponnagyun | 139829 | 105 | 73 | 25 | 98 | 93% | က | _ | 0 | 0 | - | 0 | 103 | 65 | 29 | 124 | 7 | 2 | 16 | 7 | 1 | 55 | 95 250 |
| 15 | Thandwe | 160363 | 120 | 86 | 37 | 123 | 102% | 7 | 2 | 0 | 0 | 7 | 0 | 129 | 54 | 30 | 84 | 24 | 25 | 49 | - | 3 16 | 69 | 97 266 |
| 16 | Gwa | 83419 | 63 | 36 | 14 | 50 | 80% | 0 | - | 0 | 0 | 0 | 0 | 21 | 40 | 22 | 62 | 7 | 8 | 19 | 0 | 0 | 7 28 | 45 132 |
| 17 | Taungup | 153077 | 115 | 87 | 35 | 122 | 106% | 4 | _ | 0 | 0 | 0 | 0 | 127 | 29 | 62 | 129 | 35 | 19 | 54 | - | 15 | 94 11 | 118 312 |
| | Total | 3355941 | 2517 | 1362 | 837 | 2199 | 87% | 108 | 35 | 23 | 7 | 22 | 14 2 | 2408 1 | 526 1 | 1431 2 | 2957 | 649 | 569 13 | 1218 | 69 4 | 46 3759 | 59 2939 | 6698 |
| | | | | | | | | | | | | | | | | | | | | | | | | |

| NASH P Population Simple Simple Population Simple Sim | | | | | | | | | | 200 | Ē | | | | | | | | 1 | • | • | | | | | |
|--|----|---------------|-------------|----------|------|----------|------|--------------|-------------------|-------|-----------|----------|-----------|--------|-------|------|------|------|---------|-------------|-------|-------|-----|------|-------|-------|
| YANGON Division New Cases CD CD< | | TOWNSHIP | Population | etimater | | | | M.C. | FULINIC FAR PO | 2 ≥ | 001 | I PCOL | 200 | r | | SmS | jar | | Pulmo | מ ב ב | | | | | TOTAL | |
| YANGON Division Coses New Clases Trine Depart Trine Depart Trine Depart Trine Trial Total M F <td>Ċ</td> <td></td> <td>- opdiation</td> <td>NewS(+)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Previ</td> <td>ously tre</td> <td>ated cas</td> <td>es</td> <td></td> <td></td> <td>Nega</td> <td>tive</td> <td></td> <td>Tubercu</td> <td></td> <td>Total</td> <td>other</td> <td></td> <td></td> <td></td> <td></td> | Ċ | | - opdiation | NewS(+) | | | | | | Previ | ously tre | ated cas | es | | | Nega | tive | | Tubercu | | Total | other | | | | |
| YANGON Division Factor District Name of the control of | ሽ | | | cases | | ew Ca | ses | CDR | Rela | sesd | Tafter | Default | T'after f | ailure | Total |) | | | | | | | | | | |
| MingalarTyl 152847 60 1 0 0 0 1 1 4 6 2 1 0 1 0 0 0 1 1 4 6 2 1 0 1 1 4 6 2 4 1 0 1 1 4 6 2 1 1 4 6 2 1 1 4 6 2 4 1 0 1 1 4 6 7 1 4 1 0 0 0 1 1 4 1 0 0 0 1 1 4 1 0 0 0 0 1 1 0 1 0 0 0 0 1 1 0 1 0 0 1 1 0 1 0 0 1 1 4 0 0 0 0 1 1 | | | | | Σ | ш | ⊢ | | ∑ | ш | Σ | ш | | ш | | Σ | L | | ⊠ | ш | | Σ | ш | Σ | ш | TOTAL |
| East District | | | a Ci ci | | | | | | | | | | | | | | | | | | | | | | | |
| Bobalaumy 35427 60 29 11 40 67% 4 3 0 0 1 1 49 62 44 106 9 9 9 9 9 9 9 9 9 | | Fast District | | | _ | | | | | C | | C | C | - | _ | _ | - | 7 | C | - | C | - | - | C | - | , |
| Degon(s) 161728 274 131 60 191 70% 23 10 1 1 2 0 1 1 2 1 2 1 1 7 0 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - | Botataund | 35427 | 90 | - 58 | | | | |) m | 0 0 | 0 0 | 7 | 7 | - 49 | - 69 | 44 | 106 | ο σ | 9 6 | , r. | 0 00 | 0 0 | 1 2 | 67 | 180 |
| Degon(S) 181732 274 131 60 191 70% 23 10 1 2 0 1 228 153 87 240 22 Degon(S) 263367 447 386 193 578 129% 89 44 11 3 24 17 760 372 244 616 116 Okkala(N) 271003 459 179 100 67% 21 61 6 4 190 227 126 38 Okkala(N) 271003 459 179 100 67% 21 6 1 1 2 1 7 224 178 2 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 <t< td=""><td>7</td><td></td><td>79892</td><td>-</td><td>105</td><td></td><td>_</td><td>7</td><td></td><td>6</td><td>0</td><td>0</td><td>0</td><td>0</td><td>181</td><td>22</td><td>47</td><td>104</td><td>33</td><td>45</td><td>78</td><td>0 00</td><td>2</td><td>223</td><td>153</td><td>376</td></t<> | 7 | | 79892 | - | 105 | | _ | 7 | | 6 | 0 | 0 | 0 | 0 | 181 | 22 | 47 | 104 | 33 | 45 | 78 | 0 00 | 2 | 223 | 153 | 376 |
| Degon(S) 2638F7 447 385 193 578 129% 89 44 11 3 24 17 760 372 244 616 17 MingalerTN 123264 209 108 32 140 67% 21 8 1 0 6 4 180 227 125 35 39 Okkela(S) 160471 222 122 43 165 61% 31 13 360 305 217 522 53 Thingangyun 1700 279 167% 31 13 1 21 1 21 15 14 183 77 15 1 1 21 1 1 21 1 1 21 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 | က | | 161732 | | 131 | | | | | 10 | - | 2 | 0 | - | 228 | 153 | 87 | 240 | 22 | 20 | 42 | 20 | 9 | 350 | 186 | 536 |
| MingalerTN 123264 209 108 32 140 67% 21 8 1 0 6 4 180 227 125 352 352 352 350 360 206 21 3 36 </td <td>4</td> <td></td> <td>263867</td> <td>447</td> <td>385</td> <td></td> <td></td> <td></td> <td></td> <td>44</td> <td>11</td> <td>3</td> <td>24</td> <td>1</td> <td>260</td> <td>372</td> <td>244</td> <td>616</td> <td>116</td> <td>91</td> <td>207</td> <td>18</td> <td>6</td> <td>1015</td> <td>595</td> <td>1610</td> | 4 | | 263867 | 447 | 385 | | | | | 44 | 11 | 3 | 24 | 1 | 260 | 372 | 244 | 616 | 116 | 91 | 207 | 18 | 6 | 1015 | 595 | 1610 |
| Okkale(s) 271003 459 179 100 279 61% 35 12 6 2 13 13 360 305 217 522 53 Thaketa 230066 391 324 153 477 122% 56 17 6 1 4 3 564 146 83 229 13 Thaketa 230966 391 324 153 477 122% 56 17 6 1 4 3 564 146 83 229 13 Yankin 13280 145 146 148 46 10 0 0 172 49 17 18 19 10 0 0 0 0 172 49 18 18 49 40 10 0 0 172 49 18 49 40 10 0 0 172 49 48 49 40 10 | 5 | | 123264 | | 108 | | | | | 8 | _ | 0 | 9 | 4 | 180 | 227 | 125 | 352 | 39 | 26 | 65 | 27 | 9 | 429 | 201 | 630 |
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| Thaketa 230966 391 324 152 477 122% 56 17 6 1 4 3 564 146 83 229 119 Thingangyun 174277 296 161 79 240 81% 46 10 0 1 3 10 150 76 226 78 78 Yankin 92897 157 103 43 146 93% 20 6 0 0 172 94 73 167 6 Pazundaung 44766 76 28 8 36 47% 11 1 0 6 1 162 13 6 18 6 13 6 1 16 47% 1 1 1 0 0 0 0 172 94 73 16 1 1 0 0 1 1 1 0 0 0 0 1 <td< td=""><td>7</td><td></td><td>160471</td><td>272</td><td>122</td><td></td><td></td><td></td><td></td><td>13</td><td>_</td><td>2</td><td>~</td><td>~</td><td>214</td><td>153</td><td>77</td><td>230</td><td>42</td><td>99</td><td>108</td><td>25</td><td>9</td><td>375</td><td>208</td><td>583</td></td<> | 7 | | 160471 | 272 | 122 | | | | | 13 | _ | 2 | ~ | ~ | 214 | 153 | 77 | 230 | 42 | 99 | 108 | 25 | 9 | 375 | 208 | 583 |
| Thingangyun 174277 296 161 79 240 81% 46 10 10 1 3 310 150 76 226 78 Yankin 92897 157 103 43 146 93% 20 6 0 0 172 94 73 167 6 Pazundaung 44765 76 28 36 47% 11 1 0 6 1 162 12 57 169 71 Dagon(E) 86354 145 123 82 206 142% 7 0 0 0 0 0 0 0 0 172 94 73 167 6 Dagon(E) 88354 145 123 82 206 64% 13 7 0 0 0 10 8 4 18 18 Dagon(E) 88354 195 122 22 25 14 | 8 | | 230966 | | 324 | | | | | 17 | 9 | 1 | 4 | 3 | 564 | 146 | 83 | 229 | 119 | 66 | 218 | 14 | 6 | 699 | 365 | 1034 |
| Yankin 92897 157 103 43 146 93% 20 6 0 0 0 0 172 94 73 167 6 Tammwe 143806 244 77 48 119 49% 25 10 6 1 162 112 57 189 51 Pazundaung 44765 76 28 8 36 47% 11 1 0 6 1 162 12 57 189 51 Dagon Seikkan 73888 125 26 142% 13 7 0 0 0 0 0 10 88 6 48 18 18 36 47% 1 1 0 | 6 | | 174277 | 295 | 161 | 32 | | | | 10 | 10 | 0 | - | 3 | 310 | 150 | 92 | 226 | 78 | 78 | 156 | 22 | 10 | 468 | 256 | 724 |
| Tammwe 143806 244 71 49 71 11 1 0 6 1 162 112 57 169 51 Pazundaung 44765 76 28 8 36 47% 11 1 0 0 5 0 53 44 20 64 18 Dagon Seikkan 73888 125 26 142% 28 13 1 3 2 2 254 88 43 131 20 Dagon Seikkan 73888 125 54 26 142% 13 7 0 0 0 100 8 60 148 3 Vest District 10 4 1 7 99% 7 9 7 9 7 9 7 9 1 9 1 9 1 9 1 9 1 1 1 1 1 1 1 1 | 10 | | 92897 | 157 | 103 | | | | | 9 | 0 | 0 | 0 | 0 | 172 | 94 | 73 | 167 | 9 | 1 | 17 | 12 | - | 235 | 134 | 369 |
| Pagon(E) 85354 16 12 6 5 6 53 44 20 64 18 Dagon(E) 85354 145 123 82 205 142% 28 13 1 3 2 2 254 88 43 131 20 Dagon Seikkan 73888 125 54 26 80 64% 13 7 0 0 0 100 88 60 148 32 Vest District Aest District Aest District 46092 78 48 23 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 7 9 9 4 8 9 4 8 9 4 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 1 | | 143806 | | 71 | 48 | | | | 10 | _ | 0 | 9 | ~ | 162 | 112 | 22 | 169 | 51 | 34 | 82 | 12 | 2 | 278 | 155 | 433 |
| Dagon (E) 86.354 145 123 82 205 142% 28 13 1 3 2 2 254 88 43 131 2 2 2 254 88 43 131 2 4 3 2 2 2 4 3 3 4 3 4 3 4 3 4 | 12 | | 44765 | | 28 | | | | | _ | 0 | 0 | 2 | 0 | 53 | 4 | 20 | 64 | 18 | 20 | 38 | 4 | 2 | 110 | 51 | 161 |
| Total 1941609 3291 1924 2849 87% 422 463 38 13 63 40 10 0 0 0 0 0 10 10 10 108 60 148 32 Total 1941609 3291 1924 925 2849 87% 422 163 43 63 40 50 10 0 0 10 108 60 148 3306 | 13 | | 85354 | 145 | 123 | | | | | 13 | _ | က | 2 | 2 | 254 | 88 | 43 | 131 | 20 | 21 | 41 | 15 | 9 | 277 | 170 | 447 |
| Total 1924 609 3291 1924 925 2849 87% 422 163 38 13 63 40 3588 2052 1253 3306 638 638 40 358 12 63 40 63 40 63 40 63 40 63 40 63 40 63 40 63 40 63 40 63 40 63 40 63 40 63 40 63 40 63 64 40 64 11 1 <t< td=""><td>14</td><td></td><td>73888</td><td></td><td>54</td><td></td><td></td><td></td><td></td><td>7</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td><td>88</td><td>09</td><td>148</td><td>32</td><td>24</td><td>56</td><td>23</td><td>11</td><td>210</td><td>128</td><td>338</td></t<> | 14 | | 73888 | | 54 | | | | | 7 | 0 | 0 | 0 | 0 | 100 | 88 | 09 | 148 | 32 | 24 | 56 | 23 | 11 | 210 | 128 | 338 |
| Kamayut 46092 78 48 29 77 59% 7 5 0 3 1 93 44 36 80 22 Kyauktada 37701 64 14 6 20 31% 1 1 1 0 3 0 26 15 14 20 1 1 1 0 3 0 26 15 14 20 1 1 1 0 3 0 26 15 14 2 1 1 1 1 0 3 0 26 15 14 2 1 | | Total | 1941609 | 3291 | 1924 | | | | | 163 | 38 | 13 | 63 | 40 | 3588 | 202 | 1253 | 3305 | 638 | 593 | 1231 | 228 | 94 | 5365 | 3081 | 8446 |
| Kamayut 46092 78 48 29 77 99% 7 59% 7 59% 7 59% 7 59% 7 59% 7 6 6 20 31% 1 1 0 3 0 26 15 14 20 3 0 26 15 14 6 20 31% 1 1 1 0 3 0 26 15 14 20 3 0 26 15 14 20 2 2 1 13 6 4 11 1 <t< td=""><td></td><td>West District</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | West District | | | | | | | | | | | | | | | | | | | | | | | | |
| Kyauktada 37701 64 14 6 20 31% 1 1 1 0 26 15 14 29 17 4 17 4 17 4 17 4 17 34 18 64% 13 2 2 1 13 5 15 14 20 2 1 13 5 14 4 117 34 34 34 34 34 35 64 1 13 5 14 4 11 9 2 0 4 4 11 9 2 0 4 4 11 9 2 0 | _ | Kamayut | 46092 | | | | | | | 5 | 0 | 0 | 3 | - | 93 | 44 | 36 | 80 | 22 | 13 | 35 | 2 | 4 | 129 | 88 | 217 |
| Kyinmyindaing 93869 159 94 55 149 94% 23 2 1 13 5 195 77 40 117 34 Sanchaung 75999 129 56 27 83 64% 11 9 2 0 4 4 113 59 39 98 30 Seikkan 1171 2 4 0 0 0 0 0 4 2 2 4 11 44 13 59 98 30 Beikkan 23700 40 2 1 0 0 0 0 4 2 4 1 4 11 38 87% 4 2 1 4 11 4 1 4 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 4 1 1 1 | 7 | | 37701 | 64 | | | | | | - | - | 0 | က | 0 | 26 | 15 | 41 | 29 | 12 | 10 | 22 | 7 | 2 | 48 | 33 | 81 |
| Sanchaung 75999 129 56 27 83 64% 11 9 2 0 4 4 113 59 39 98 30 Seikkan 1171 2 4 0 0 0 0 4 2 2 4 1 4 1 4 1 4 1 4 1 4 1 3 98 30 98 30 3 48% 4 1 1 4 1 4 1 4 1 4 4 1 4 4 1 4 4 1 4 4 1 4 1 4 1 4 4 1 4 1 4 4 1 4 1 4 1 1 4 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 <td>က</td> <td></td> <td>69626</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>2</td> <td>-</td> <td>13</td> <td>2</td> <td>195</td> <td>11</td> <td>40</td> <td>117</td> <td>8</td> <td>28</td> <td>62</td> <td>7</td> <td>2</td> <td>250</td> <td>136</td> <td>386</td> | က | | 69626 | | | | | | | 2 | 2 | - | 13 | 2 | 195 | 11 | 40 | 117 | 8 | 28 | 62 | 7 | 2 | 250 | 136 | 386 |
| Seikkan 1171 2 4 0 4 202% 0 0 0 0 4 2 4 1 Dagon 23700 40 24 11 35 87% 4 2 1 1 44 13 17 30 10 Pabadan 36644 62 23 7 30 48% 4 3 0 0 0 1 1 44 13 17 30 10 Bahan 71091 120 67 23 48% 4 3 0 0 0 0 1 1 44 13 17 30 10 Mayangon 146226 248 140 85 225 91% 24 14 1 9 6 280 13 1 1 4 1 1 4 1 1 1 4 1 1 1 4 1 | 4 | | 75999 | | | | | | | 6 | 2 | 0 | 4 | 4 | 113 | 29 | 33 | 98 | 30 | 24 | 24 | 4 | ~ | 166 | 104 | 270 |
| Dagon 23700 40 24 11 35 87% 4 2 1 1 44 13 17 30 10 Pabadan 36644 62 23 7 30 48% 4 3 0 0 1 38 21 7 28 10 Bahan 71091 120 67 23 90 75% 9 5 2 0 2 1 109 57 32 89 13 Mayangon 146226 248 140 85 225 91% 24 14 1 9 6 280 12 7 28 13 Latha 27690 47 15 10 25 53% 3 3 0 0 0 1 1 4 39 11 Latha 27690 47 15 1 1 1 4 2 1 1 | 2 | | 1171 | | | | | | | 0 | 0 | 0 | 0 | 0 | 4 | 7 | 7 | 4 | - | - | 7 | 0 | 0 | _ | က | 10 |
| Pabadan 36644 62 23 7 30 48% 4 3 0 0 1 38 21 7 28 10 Bahan 71091 120 67 23 90 75% 9 5 2 1 109 57 32 89 13 Mayangon 146226 248 140 85 225 91% 24 14 1 9 6 280 121 79 200 87 Latha 27690 47 15 10 25 53% 3 3 0 0 0 0 1 1 4 7 25 3 1 1 4 1 0 0 0 0 0 0 0 0 1 1 4 1 1 4 1 1 1 4 1 1 1 1 1 1 1 1 <td< td=""><td>9</td><td></td><td>23700</td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>-</td><td>0</td><td>-</td><td>-</td><td>44</td><td>13</td><td>17</td><td>30</td><td>10</td><td>6</td><td>19</td><td>-</td><td>က</td><td>24</td><td>43</td><td>97</td></td<> | 9 | | 23700 | | | | | | | 2 | - | 0 | - | - | 44 | 13 | 17 | 30 | 10 | 6 | 19 | - | က | 24 | 43 | 97 |
| Bahan 71091 120 67 23 90 75% 9 5 2 0 2 1 109 57 32 89 13 Mayangon 146226 248 140 85 225 91% 24 14 1 1 9 6 280 121 79 200 87 Latha 27690 47 15 10 25 53% 3 3 0 0 0 31 18 7 25 3 Hlaing 144706 194 124 60 184 95% 19 4 0 1 1 4 2 229 162 85 247 34 Ahlone 48794 83 43 18 61 74 1 1 4 2 86 61 37 98 9 | 7 | | 36644 | 62 | | <u>'</u> | Ď. | | | 3 | 0 | 0 | 0 | _ | 38 | 21 | 7 | 28 | 10 | 15 | 25 | 4 | _ | 62 | 34 | 96 |
| Mayangon1462262481408522591%241411962801217920087Latha276904715102553%3300031187253Lanmadaw400936826103653%410011435143911Hlaing1147061941246018495%199401122291628524734Ahlone487948343186174%1161142866137989 | ∞ | | 71091 | | | 23 | | | | 2 | 2 | 0 | 7 | - | 109 | 22 | 32 | 88 | 13 | 18 | 31 | 4 | _ | 154 | 88 | 234 |
| Latha 27690 47 15 10 25 53% 3 3 0 0 0 0 1 1 43 25 14 39 11 Lanmadaw 40093 68 26 10 36 53% 4 1 0 0 1 1 43 25 14 39 11 Hlaing 114706 194 124 60 184 95% 19 9 4 0 11 2 229 162 85 247 34 Ahlone 48794 83 43 18 61 74% 11 6 1 1 4 2 86 61 37 98 9 | ၈ | | 146226 | | | | | | | 14 | _ | - | ဝ | 9 | 280 | 121 | 79 | 200 | 87 | 71 | 158 | ∞ | 7 | 330 | 258 | 648 |
| Lanmadaw 40093 68 26 10 36 53% 4 1 0 0 1 1 43 25 14 39 11 Hlaing 114706 194 124 60 184 95% 19 9 4 0 11 2 229 162 85 247 34 Ahlone 48794 83 43 18 61 74% 11 6 1 1 4 2 86 61 37 98 9 | 10 | | 27690 | | | | | | | 3 | 0 | 0 | 0 | 0 | 31 | 18 | 7 | 25 | 3 | 7 | 10 | - | 0 | 40 | 27 | 29 |
| Hlaing 114706 194 124 60 184 95% 19 9 4 0 11 2 229 162 85 247 34 34 Albine 48794 83 43 18 61 74% 11 6 14 7 6 84 2 86 61 37 98 9 8 9 | 1 | | 40093 | | | | | | | _ | 0 | 0 | - | _ | 43 | 22 | 14 | 33 | 7 | 6 | 20 | 2 | _ | 72 | 36 | 108 |
| Ahlone 48794 83 43 18 61 74% 11 6 1 1 4 2 86 61 37 98 9 | 12 | | 114706 | | | | | | | 6 | 4 | 0 | 1 | 2 | 229 | 162 | 85 | 247 | 8 | 26 | 09 | 9 | ∞ | 360 | 190 | 550 |
| 370 1001 001 373 1001 10 13 6 11 03 001 1001 110 02 0 1001 37632 | 13 | | 48794 | - 11 | | | _ | | | 9 | 7 | _ | 4 | 2 | 98 | 61 | 37 | 98 | 6 | 1 | 20 | 7 | - | 136 | 26 | 212 |
| 763876 1294.8 678 341 1019 79% 120 60 14 3 51 24 1291 675 409 1084 276 | | Total | 763876 | 1294.8 | 678 | 341 | 1019 | 6 79% | 120 | 09 | 14 | 3 | 51 | 24 | 1291 | 675 | 409 | 1084 | 276 | 242 | 518 | 24 | 59 | 1868 | 1108 | 2976 |

| Summon Division Population Simple Simple Population Simple Population Simple Population Simple | | | | ŀ | | | | | | | | | | | | | | , | | | | | 2d2 | <i>'</i> ->- | |
|--|----|-----------------|---------------|----------|------|----------|------|------|--------|--------------|-------------|------------------|------------|------|----------|----------|------|------------|-------------|---|---|------|------|--------------|-------|
| South Detected Sout | | DW/NOH | Donilation | etimated | | | | SMFA | A POS | ARY ITIVE | I UBE | SCOLOS SCOLOS | | - | <u> </u> | Smear | 1 | - <u>-</u> | =xtra | | | | | TOTAL | |
| South District South | | | - opdiation - | Jows (+) | | | | | | review. | icly treate | od caces | | 1 | Z | postive | Tota | - | arci Ilosis | | | ther | | - - - | |
| South District M F T M F | Š. | | | cases | Ne | w Case | ·^ | CDR | Relap | 3S | Tafter De | ğ | fter failu | | | cyalive | 2 | | isono is | | | 5 | | | |
| South District Section | | | | | | <u> </u> | ⊢ | 1 | _ Z | L | Σ | L L | ⊢ F | | | <u>ц</u> | | Σ | <u>ц</u> | | Σ | ட | Σ | ш | TOTAL |
| Self-kylythannung 300e. SS 1 12 18 11 3 0 0 2 12 35 81 18 11 28 19 19 1 1 0 2 2 15 18 11 2 1 1 18 2 18 18 19 11 28 0 1 <td></td> <td>South District</td> <td></td> | | South District | | | | | | | | | | | | | | | | | | | | | | | |
| National Section 1460c4 251 123 56 175 176 2 10 10 10 10 10 10 10 | _ | Seikkyikhanaung | | 52 | 37 | 21 | 58 | 111% | - | က | 0 | 0 | 2 | | | 7. | | | | _ | | | 73 | 43 | 116 |
| National Cocagnum Strate Section Secti | 7 | Dallah | 148054 | 251 | 123 | 56 | 179 | 71% | 6 | 4 | 10 | ~ | 0 | | | | | | | | | | 396 | 207 | 603 |
| Keyankırınu 117743 250 40 20 6 64 46 44 49 10 12 22 2 1 10 14 14 70 62 141 25 2 1 10 Keyankılanı 154682 262 71 63 134 51% 7 4 1 0 114 70 62 141 25 9 1 10 Keyanı 113402 188 73 8 6 1 1 1 14 70 62 14 10 1 | က | Cocogyun | 926 | 2 | 0 | 0 | 0 | %0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | 0 | 0 | 0 |
| Kyanuklan 154682 262 77 63 134 67 4 1 1 148 79 62 141 25 28 141 25 28 141 25 28 141 25 28 141 25 28 141 25 28 141 25 28 141 25 28 141 25 28 141 25 28 141 28 29 28 28 28 28 28 28 28 28 28 28 28 28 28 28 28 29 2 | 4 | Kawhmu | 147749 | 250 | 40 | 20 | 09 | 24% | 7 | 2 | 0 | 0 | 0 | | | | | | _ | | | | 100 | 79 | 179 |
| Kunggyangnene 111409 199 74 30 104 55% 7 8 0 0 1 17 8 8 6 6 4 4 10 3 10 0 1 7 8 6 4 1 10 3 6 6 4 1 10 3 1 1 2 4 1 10 3 6 6 4 4 10 3 6 6 4 4 10 3 6 6 4 4 10 0 1 1 7 6 6 6 4 4 1 6 0 0 1 7 6 4 4 1 6 0 0 1 1 4 4 1 6 6 6 1 6 1 6 1 1 6 4 1 9 9 6 4 1 | 2 | Kyauktan | 154682 | 262 | 71 | 63 | 134 | 21% | 7 | 4 | - | 0 | - | 7 | | | | | | | | | 187 | 141 | 328 |
| Kayan 163322 277 96 66 16 6 0 160 160 180 32 36 66 41 105 44 171 61 34 36 66 44 110 340 16 16 16 16 34 16 34 15 34 15 34 16 6 11 61 36 36 66 41 10 16 63 36 66 41 10 11 61 63 36 66 41 41 10 60 11 61 63 36 66 41 41 11 61 62 30 36 | 9 | Kunggyangone | 111409 | 189 | 74 | 30 | 104 | 25% | 7 | 80 | 0 | 0 | 0 | | | | | | | | | | 164 | 88 | 252 |
| Thorregive 17:568 281 73 37 110 38% 15 2 0 1 0 0 1 1 17 0 0 1 1 17 0 1 1 1 1 1 1 | 7 | Kayan | 163322 | 277 | 96 | 99 | 162 | 29% | 12 | 9 | 0 | 0 | 0 | _ | | | | | | | | | 207 | 152 | 359 |
| The negative The | ∞ | Twantay | 259701 | 440 | 106 | 44 | 150 | 34% | 15 | 4 | _ | 0 | 0 | | | | | | | | | | 245 | 119 | 364 |
| Thanhyin 174282 236 202 40 | ნ | Thonegwa | 171568 | 291 | 73 | 37 | 110 | 38% | 3 | 2 | 0 | - | 0 | | | | | | | | _ | | 178 | 91 | 269 |
| North District North District | 10 | Thanlyin | 174282 | 295 | 202 | 100 | 302 | 102% | 23 | 8 | 3 | 2 | 2 | | 1 | | | | | | | | 432 | 221 | 653 |
| Mingalardon 171806 291 356 19 12 2 33 6 15 291 166 459 136 16 17 2 33 6 15 291 166 459 136 66 19 27 5 884 162 16 18 45 14 4 4 4 432 149 116 266 17 6 19 17 5 84 162 16 18 84 16 18 84 16 18 88 84 16 18 88< | | Total | 1362585 | 2309 | 822 | 437 | 1259 | 25% | 79 | 41 | 15 | 4 | 11 | | | | | | | | | | 1982 | 1141 | 3123 |
| Mingalardon 171806 291 336 145 15 2 33 9 615 291 168 459 191 12 2 33 9 615 291 168 459 191 16 26 78 491 16 265 78 491 16 265 78 491 16 265 78 491 16 265 78 491 16 265 78 491 16 265 78 491 16 265 78 491 16 265 78 491 16 265 78 491 17 265 78 491 | | North District | | | | | | | | | | | | | | | | | | | | | | | |
| Name by the column 213015 361 164 17 3 1 4 432 149 116 265 78 14 65 78 14 65 78 78 65 78 16 65 78 | _ | Mingalardon | 171806 | 291 | 336 | 145 | 481 | 165% | 59 | 19 | 12 | 7 | 33 | | 2 | | | _ | | | | | 889 | 414 | 1303 |
| Hlaningthanyar 240579 466 367 367 969 176% 73 27 9 1 4 3 1076 534 407 941 77 65 142 33 18 133 Insein 240579 408 356 157 126% 65 15 6 2 2 6 628 273 133 406 12 2 6 628 273 133 406 16 12 2 6 628 273 406 16 9 0 0 2 0 247 156 93 248 40 139 79 10 0 0 0 2 0 247 156 93 241 74 33 73 136 138 3 136 138 139 138 139 138 139 138 139 138 139 138 131 138 131 131 | 7 | Shwepyithar | 213015 | 361 | 261 | 115 | 376 | 104% | 27 | 17 | က | ~ | 4 | | | | | | | | 7 | | 538 | 342 | 880 |
| Taikkyi 261429 408 355 157 512 156 6 2 2 6 628 273 133 406 169 12 2 6 6 2 2 6 6 2 2 6 6 6 2 2 6 6 6 1 2 1 5 9 0 0 2 0 2 1 6 2 2 0 2 1 6 2 2 1 6 4 26 2 2 1 6 2 2 1 6 2 2 1 6 2 2 1 6 2 2 1 6 4 2 2 2 1 4 0 0 1 2 1 6 2 2 1 2 1 1 2 1 2 1 2 1 2 1 1 | က | Hlaingtharyar | 321353 | 545 | 209 | 352 | 959 | 176% | 73 | 27 | 0 | ~ | 4 | | | | | | | | | 1 | 1337 | 873 | 2210 |
| Talikkyi 261429 443 147 73 220 60% 16 9 2 247 155 93 248 40 39 79 19 3 79 19 37 Htamtabin 139628 237 65 40 105 44% 7 4 0 1 2 119 33 19 52 26 12 38 2 1 3 19 52 26 12 3 19 52 26 13 3 19 52 26 13 3 19 52 26 13 4 26 19 2 14 26 4 26 18 2 1 1 1 1 2 13 74 26 13 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 | 4 | Insein | 240579 | 408 | 355 | 157 | 512 | 126% | 65 | 15 | 9 | 2 | 22 | | | | | 7 | _ | | | | 922 | 444 | 1366 |
| Htantabin 139628 237 65 44 105 44% 7 44% 7 44% 7 44% 7 44 7 4 0 1 2 119 3 11 2 14 26 98 62 160 87 90 177 3 1 356 Hlegu 185638 315 158 83 241 77% 21 11 1 1 26 134 74 208 165 160 87 17 3 1 356 14 77% 21 11 1 2 1 1 2 1 1 4 0 9 45 21 14 1 4 0 9 45 21 14 4 0 11 1 4 0 9 45 11 1 4 0 9 11 1 4 0 45 11 1 | 2 | Taikkyi | 261429 | 443 | 147 | 73 | 220 | 20% | 16 | 6 | 0 | 0 | 7 | | _ | | | | | | _ | | 370 | 223 | 593 |
| Hmawbi 185638 315 158 83 221 72% 20 10 0 1 2 6 4 262 98 62 160 87 90 177 3 1 356 Hlegu 185638 315 158 83 241 77% 21 11 1 1 2 134 74 208 105 73 178 3 0 423 U.T.I 0 0 1 1 4 0 89 45 21 66 8 6 14 4 0 11 7 8 7 29 77 29 3755 1719 110 29 11 7 8 15 13 8 15 14 1 | 9 | Htantabin | 139628 | 237 | 65 | 40 | 105 | 44% | 7 | 4 | 0 | 0 | - | | | | | | | | | | 134 | 77 | 211 |
| Hiegu 185638 315 158 83 241 77% 21 11 1 0 1 1 276 134 74 208 105 73 178 3 0 423 U.T.I 0 0 68 11 79 72 140 29 320 140% 294 113 32 85% 915 377 99 28 20 10049 5081 3139 8220 1933 1633 3626 488 215 14345 | 7 | Hmawbi | 180945 | 307 | 142 | 79 | 221 | 72% | 20 | 10 | 0 | ~ | 9 | | | | | | | | | | 356 | 247 | 603 |
| ic 0 68 11 79 84 8 | ∞ | Hlegu | 185638 | 315 | 158 | 83 | 241 | %11 | 21 | 1 | - | 0 | - | | _ | | | | | | | | 423 | 242 | 665 |
| ic 0 0 0 4 4 8 8 21 110% 294 113 32 8 77 29 1104393 29801 5567 2762 8329 85% 915 377 99 28 202 99 10049 5081 3139 8220 1993 1633 3626 488 215 14345 | | U.T.I | 0 | 0 | 89 | 7 | 79 | | 4 | 0 | - | ~ | 4 | | | | | | | | | | 134 | 39 | 173 |
| 1714393 2906 2143 1059 3202 110% 294 113 32 85% 915 377 99 28 202 99 10049 5081 3139 8220 1993 1633 3626 488 215 14345 14345 | | NTP(Diagnostic | 0 | 0 | 4 | 4 | 8 | | 2 | _ | 0 | 0 | 0 | | | 7 | | | | | | | 27 | 22 | 49 |
| 5782463 9801 5567 2762 8329 85% 915 377 99 28 202 99 10049 5081 3139 8220 1993 1633 3626 488 215 14345 | | Total | 1714393 | 2906 | 2143 | 1059 | 3202 | 110% | 294 | 113 | 32 | | | 37 | _ | | | | | 7 | 7 | | 5130 | 2923 | 8053 |
| | Y | angon Division | 5782463 | 9801 | 5567 | 2762 | 8329 | 85% | 915 | 377 | 66 | | | 1007 | | | | | | | | | | 8253 | 22598 |

| | | | | | | | L. | PULMONA | VARY | TUBE | TUBERCULOSI | <u>S</u> | | | | | Ĺ | Extra | L | | | | | |
|----|---------------------|------------|----------|------|------------|----------|------------|---------|--------|------------------|-------------|------------------------|-------|----------|----------|---------|-----------|--------------|-----------|-------|-------|------|-------|-------|
| | TOWNSHIP | Population | stimated | | | | SME | 4R PO | SITIVE | | | | H | | Smear | | | Pulmonary | | | , | | TOTAL | |
| S. | | _ | NewS(+) | Ž | agac) moly | ú | 0 | 200 | Previo | usly treated cas | | ies T'affor failura | - L | | Negative | Total | _ | Tuberculosis | is Total | | other | | | |
| | | | cases | M | T T | – | אלט | M | F | M | | aller lallu M F | | <u>a</u> | <u> </u> | \top | Σ | ш | \coprod | Σ | Щ | Σ | Щ | TOTAL |
| | AYEYARWADY Division | DY Divisio | u | | | | | | | | | | | | | | | | | | | | | |
| _ | Pathein | 372927 | 280 | 305 | 145 | 450 | 161% | 33 | 24 | 4 | 2 | _ | 1 | 515 2 | 283 | 177 4 | 460 164 | _ | 27 291 | | 24 11 | 814 | 487 | 1301 |
| 7 | Kanyidaung | 200982 | 151 | 37 | 24 | 61 | 40% | 2 | 2 | 0 | 0 | 0 | 0 | 7.1 | 23 | 27 | 80 2 | 24 1 | 14 | 38 | 3 | 122 | 70 | 192 |
| က | Yekyi | 216600 | 162 | 106 | 49 | 155 | %26 | 21 | 9 | 0 | 0 | - | 0 | 183 | 83 | 55 | 38 3 | 39 4 | 8 | 80 | 7 | 251 | 152 | 403 |
| 4 | Kyaunggon | 162484 | 122 | 85 | 50 | 135 | 111% | 7 | 80 | 7 | - | 8 | - | 157 | 93 | 52 | 145 2 | 21 2 | 25 4 | 46 | 3 | 214 | 140 | 354 |
| 2 | Kyonpyaw | 281681 | 211 | 94 | 48 | 142 | %29 | 8 | 4 | _ | 0 | 0 | 0 | 155 | 21 | 16 | 37 1 | 13 1 | 2 | 25 | 2 0 | 139 | 80 | 219 |
| 9 | Ngaputaw | 297330 | 223 | 103 | 99 | 169 | %9/ | 1 | 9 | _ | - | 7 | 0 | 190 | 84 | 1 1 | 130 2 | 29 3 | 31 (| 09 | 7 | 231 | 151 | 382 |
| 7 | Thabaung | 149741 | 112 | 69 | 40 | 109 | %26 | 8 | 2 | 0 | _ | - | - | 122 | 43 | 26 | 69 2 | 26 1 | 11 | 37 | 3 | 155 | 84 | 239 |
| ∞ | Hinhada | 357161 | 268 | 230 | 141 | 371 | 138% | 15 | 80 | 0 | 0 | 0 | 0 | 394 | 209 2 | 208 4 | 417 5 | 55 6 | 66 121 | 7. | 0 | 510 | 423 | 933 |
| တ | Kyankin | 95512 | 72 | 46 | 30 | 76 | 106% | 2 | _ | 0 | 0 | ~ | 0 | 83 | 64 | 50 1 | 114 | 18 | 7 | 25 | 7 3 | 141 | 91 | 232 |
| 10 | Myanaung | 326243 | 245 | 127 | 69 | 196 | %08 | 18 | 9 | 0 | 0 | 0 | 0 | 220 13 | 39 | 25 2 | 264 6 | 69 | 39 10 | 108 | 0 | 353 | 239 | 592 |
| 1 | Ingapu | 237337 | 178 | 160 | 83 | 243 | 137% | 13 | 3 | 0 | 0 | 0 | 0 | 259 1 | 168 | 187 3 | 355 149 | 119 | | 268 | 0 | 490 | 395 | 885 |
| 12 | Zalun | 180798 | 136 | 75 | 50 | 125 | 95% | 0 | 3 | 0 | _ | 7 | - | 141 | 53 | 64 1 | 117 3 | 39 | 32 7 | 71 | 0 | 178 | 151 | 329 |
| 13 | Laymtethna | 106825 | 80 | 33 | 28 | 61 | %92 | 2 | _ | _ | 0 | 0 | _ | 69 | 36 | 27 | 63 2 | 24 2 | 24 7 | 48 | 0 | 66 | 81 | 180 |
| 14 | Myaungmya | 344995 | 259 | 141 | 91 | 232 | %06 | 2 | 4 | က | 0 | 4 | 3 | 251 1 | 102 | 71 1 | 173 102 | | 95 18 | 97 | 2 | 361 | 266 | 627 |
| 15 | Laputta | 304988 | 229 | 121 | 82 | 203 | %68 | 6 | 8 | 0 | 0 | 2 | 0 | 222 | 127 | 99 2 | 226 2 | 29 2 | 29 | 58 | 8 | 296 | 222 | 518 |
| 16 | Mawgyun | 293333 | 220 | 86 | 56 | 142 | %59 | 2 | က | 0 | 0 | - | 0 | 151 | 62 | 32 | 1 | 17 1 | 41 | 31 | 10 3 | 181 | 108 | 289 |
| 17 | Wakema | 322100 | 242 | 126 | 70 | 196 | 81% | 2 | က | 0 | 0 | 80 | 1 | 213 | 65 | 53 1 | 118 2 | 23 2 | 23 2 | 46 | 7 | 234 | 154 | 388 |
| 18 | Einme | 207345 | 156 | 87 | 68 | 155 | 100% | 2 | 7 | 0 | 0 | _ | 0 | 168 | 20 | 41 | 91 | 7 | 2 | 12 | 5 | 155 | 127 | 282 |
| 19 | Pyapon | 321301 | 241 | 141 | 89 | 230 | %26 | 9 | 2 | 0 | 0 | 0 | 0 | 238 1 | 35 | 87 2 | 222 | 74 5 | 58 13 | 32 | 7 2 | 363 | 238 | 601 |
| 20 | Bogalay | 303013 | 227 | 130 | 88 | 218 | %96 | 13 | 8 | 4 | _ | _ | 1 | 246 | 93 | 70 1 | 63 10 | 02 | 71 17 | 173 1 | 14 6 | 357 | 245 | 602 |
| 21 | Dedaye | 211353 | 159 | 26 | 25 | 51 | 32% | 3 | 7 | 0 | 0 | 0 | 0 | 26 | 19 | 12 | 31 | 18 | 6 | 27 | 3 | 69 | 49 | 118 |
| 22 | Kyaiklatt | 231608 | 174 | 71 | 35 | 106 | 61% | 2 | _ | 0 | 0 | 7 | | 115 | 28 | 36 | 94 2 | 24 1 | 9 | 40 | 0 | 160 | 88 | 249 |
| 23 | Maubin | 338848 | 254 | 157 | 79 | 236 | 93% | 12 | 2 | - | _ | 9 | 9 | 267 | 96 | 65 | 161 9 | 94 7 | 79 17 | 173 2 | 21 6 | 387 | 241 | 628 |
| 24 | Nyaungdon | 215767 | 162 | 70 | 42 | 112 | %69 | 6 | 2 | 0 | 0 | 0 | 0 | 126 | 35 | 17 | 52 1 | 17 2 | 20 | 37 | 0 | 131 | 84 | 215 |
| 25 | Pantanaw | 269134 | 202 | 82 | 09 | 142 | %02 | 80 | 9 | 0 | 0 | 0 | 0 | 156 | 75 | 63 | 138 4 | 42 2 | 27 (| 69 | 0 | 207 | 156 | 363 |
| 26 | Danuphyu | 182325 | 137 | 119 | 72 | 191 | 140% | 1 | 4 | 0 | 0 | 0 | 0 | 206 | 62 | 76 1 | 138 7 | 75 5 | 53 12 | 128 | 0 | 267 | 205 | 472 |
| | Total | 6531731 | 4899 | 2827 | 1680 | 4507 | 95% | 254 | 132 | 17 | 8 | 36 2 | 20 49 | 4974 23 | 2308 17 | 1782 40 | 4090 1294 | 1047 | 17 2341 | 1129 | 9 59 | 6865 | 4728 | 11593 |

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| P | OTHER REPORTING UNITS | ļ | ļ | - | - | - | } | } | } | } | | | | | | | | | | | | |
|---------|---------------------------------|------|------|------|------|-----|-----|----|-------|---------|---------|--------|--------|------|------|------|------|-------|------|-------|------|-------|
| ~ | Aung San hospital | 09 | 10 | 70 | | 34 | 10 | 10 | - | 6 | 12 146 | 5 29 | 13 | 42 | 4 | 1 | | 5 130 | 9 64 | 276 | 111 | 387 |
| 7 | Patheingyi hospital | 15 | 9 | 21 | • | 19 | 7 | _ | 0 | | 4 59 | 30 | 8 | 38 | 5 | 5 | 10 | 0 52 | 15 | 129 | 45 | 174 |
| က | East YGH | 2 | 6 | 4 | | 7 | - | 0 | 0 | 0 | 0 17 | 7 28 | 3 10 | 38 | 112 | 114 | 226 | 0 | 0 | 147 | 134 | 281 |
| 4 | Mingalardon hospital | 53 | 16 | 69 | , | 4 | 2 | _ | 0 | က | 3 92 | 2 229 | 116 | 345 | 41 | 10 | 51 | 1 128 | 3 25 | 469 | 172 | 641 |
| 2 | Wabargi Hosipital (N/Okkalapa) | 128 | 29 | 195 | • | 15 | 2 | က | | 10 | 8 234 | 4 257 | 98 | 343 | 260 | 116 | 376 | 9 61 | 29 | 734 | 309 | 1043 |
| 9 | 6 No.1MBH (PyinOoLwin) | 53 | က | 56 | , | 19 | 0 | 0 | 0 | 0 | 0 75 | 5 48 | 3 | 51 | 2 | 2 | | 0 | 0 | 122 | 80 | 130 |
| 7 | 1000 beded Hospital (Naypyitaw) | 87 | 21 | 138 | | 6 | 4 | 22 | 0 | 22 | 2 163 | 3 235 | 90 | 325 | 126 | 92 | 218 | 9 12 | 9 | 479 | 245 | 724 |
| 8 | AZG (Ygn) | 85 | 35 | 120 | 7 | 44 | 13 | 9 | 0 | 9 | 1 190 | 131 | 92 | 207 | 113 | 64 | 177 | 7 112 | 45 | 497 | 234 | 731 |
| တ | AZG (Kachin) | 136 | 45 | 181 | 7 | 46 | 12 | 7 | | 12 | 4 266 | 5 153 | 3 99 | 252 | 103 | 65 | 168 | 11 | 80 | 471 | 234 | 705 |
| 7 | 10 PSI | 3460 | 1798 | 5258 | 2, | 260 | 131 | 39 | 8 | 33 6 | 60 5889 | 9 4124 | 1 2888 | 7012 | 1310 | 1068 | 2378 | 8 45 | 16 | 9371 | 5969 | 15340 |
| <u></u> | 11 AZG (Shan-North) | 137 | 64 | 201 | ., | 21 | 6 | 7 | 0 | 33 1 | 11 282 | 100 |) 63 | 163 | 62 | 36 | 98 | 3 17 | 9 | 377 | 189 | 999 |
| 7 | 12 AZG (Rakhine) | 7 | က | 10 | | 0 | 0 | 0 | 0 | 0 | 0 10 | 9 | 1 | 7 | 6 | 12 | 21 | 0 | 0 | 22 | 16 | 38 |
| ÷ | 13 Thingangyun Sanpya Hospital | 9 | 2 | 80 | | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 2 | 16 | 0 | 4 | | 1 | _ | 18 | 12 | 30 |
| 7 | 14 Medecins du monde | 12 | 2 | 14 | | 9 | 0 | _ | 0 | 2 | 0 23 | 3 39 | 11 | 20 | 52 | 14 | 99 | 0 | 0 | 112 | 27 | 139 |
| Ť | 15 New YGH | 43 | 23 | 99 | | 0 | 0 | 0 | 0 | 0 | 1 67 | 7 55 | 5 46 | 101 | 21 | 24 | 45 | 9 | 2 | 125 | 96 | 221 |
| 7 | 16 West YGH | 9 | 4 | 10 | • | 19 | 7 | 6 | _ | 0 | 1 47 | 7 55 | 5 46 | 101 | 12 | 12 | 24 | 2 | ~ | 103 | 72 | 175 |
| - | 17 MMA | 362 | 195 | 222 | 7 | 48 | 4 | 2 | 3 | 12 | 4 460 | 0 429 | 294 | 525 | 213 | 159 | 220 | 38 | 17 | 1107 | 676 | 1783 |
| 7 | 18 AHRN (Shan North) | 42 | 7 | 49 | | _ | 0 | 4 | 0 | 4 | 0 58 | 8 28 | 12 | 40 | 30 | 3 | 33 | 3 0 | 0 | 109 | 22 | 131 |
| | Total | 4697 | 2340 | 7037 | 0 55 | 257 | 202 | 86 | 15 23 | 239 111 | 1 8086 | 5987 | 3867 | 9656 | 2475 | 1801 | 4124 | 4 615 | 235 | 14668 | 8571 | 23239 |

NATIONAL TUBERCULOSIS PROGRAMME AGE AND SEX DISTRIBUTION OF NEW SMEAR POSITIVE TB PATIENTS

| | Block 2 | | | | | | | | | | | | | | • | | Annual 2009 | 2009 |
|-------|------------------------|------|-----|------|------|------|-------|-------|---------------|--------|------|------|------|---------|---------|-------|-------------|-------|
| Sr.No | | | | | | | AGE (| GROUP | $\overline{}$ | YEAR) | | | | | | | | |
| | S/D | 0-14 | 14 | 15 | 5-24 | 25 - | . 34 | - 32 | 44 | 45 - | 54 | - 22 | 64 | 65 or 1 | or more | | TOTAL | |
| | | M | Ь | M | Ь | M | ч | M | ட | Σ | ட | Μ | ь | M | ட | Σ | ட | Τ |
| _ | Kachin State | 9 | 13 | 159 | 101 | 227 | 79 | 221 | 72 | 167 | 9 | 72 | 27 | 29 | 22 | 881 | 374 | 1255 |
| 7 | Kayah State | 0 | 0 | 22 | 7 | 21 | 11 | 21 | 9 | 20 | 7 | 80 | 2 | 2 | 7 | 97 | 34 | 131 |
| က | Chin State | 0 | 0 | 13 | 5 | 16 | 14 | 22 | 9 | 18 | 10 | 19 | 7 | 13 | 80 | 101 | 50 | 151 |
| 4 | Sagaing Div: | 15 | 7 | 190 | 133 | 393 | 182 | 460 | 165 | 408 | 188 | 279 | 148 | 238 | 103 | 1983 | 926 | 2909 |
| 2 | Magway Div: | 5 | 2 | 154 | 114 | 247 | 155 | 290 | 115 | 284 | 124 | 198 | 129 | 151 | 84 | 1329 | 723 | 2052 |
| 9 | Mandalay Div: | 10 | 14 | 303 | 212 | 615 | 276 | 574 | 214 | 399 | 173 | 236 | 96 | 156 | 82 | 2293 | 1067 | 3360 |
| 7 | Shan (S) State | 5 | 8 | 02 | 45 | 126 | 55 | 123 | 49 | 101 | 45 | 99 | 30 | 33 | 24 | 524 | 256 | 780 |
| ∞ | Shan (E) State | 4 | 3 | 34 | 32 | 81 | 49 | 82 | 39 | 73 | 19 | 28 | 18 | 17 | 4 | 319 | 164 | 483 |
| 6 | Shan (N) State | 4 | 11 | 104 | 93 | 186 | 104 | 168 | 75 | 135 | 65 | 83 | 40 | 49 | 23 | 729 | 411 | 1140 |
| 10 | Kayin State | 3 | 3 | 99 | 53 | 130 | 69 | 161 | 84 | 143 | 99 | 120 | 99 | 52 | 45 | 675 | 386 | 1061 |
| 7 | Tanintharyi Div: | 0 | 1 | 54 | 51 | 159 | 67 | 159 | 58 | 105 | 61 | 72 | 30 | 51 | 17 | 009 | 285 | 885 |
| 12 | Bago (East) | 4 | 9 | 139 | 66 | 260 | 156 | 290 | 138 | 239 | 114 | 147 | 63 | 82 | 24 | 1161 | 603 | 1764 |
| 13 | Bago (West) | 2 | 3 | 89 | 77 | 217 | 109 | 243 | 66 | 234 | 104 | 169 | 77 | 123 | 42 | 1077 | 511 | 1588 |
| 4 | Mon State | 2 | 3 | 117 | 94 | 242 | 148 | 289 | 122 | 234 | 103 | 153 | 80 | 127 | 44 | 1164 | 594 | 1758 |
| 15 | Rakhine State | 8 | 8 | 140 | 129 | 226 | 165 | 311 | 181 | 300 | 164 | 226 | 116 | 151 | 74 | 1362 | 837 | 2199 |
| 16 | Yangon Div: | 23 | 38 | 806 | 652 | 1476 | 069 | 1384 | 520 | 1009 | 425 | 578 | 255 | 291 | 182 | 5567 | 2762 | 8329 |
| 17 | Ayeyarwady Div: | 4 | 8 | 236 | 213 | 494 | 366 | 635 | 334 | 656 | 371 | 471 | 231 | 331 | 157 | 2827 | 1680 | 4507 |
| All S | All State & Div: Total | 95 | 131 | 2696 | 2110 | 5116 | 2695 | 5433 | 2277 | 4525 | 2099 | 2925 | 1415 | 1899 | 936 | 22689 | 11663 | 34352 |
| | Other Unit | 23 | 33 | 567 | 449 | 1254 | 602 | 1196 | 464 | 796 | 364 | 510 | 267 | 351 | 161 | 4697 | 2340 | 7037 |
| Uni | Union of Myanmar | 118 | 164 | 3263 | 2559 | 6370 | 3297 | 6629 | 2741 | 5321 | 2463 | 3435 | 1682 | 2250 | 1097 | 27386 | 14003 | 41389 |

Annual 2009

AGE DISTRIBUTION OF PRIMARY COMPLEX, HILAR LYMPHADENOPATHY AND TB MENINGITIS PATIENTS NATIONAL TUBERCULOSIS PROGRAMME

NATIONAL TUBERCULOSIS PROGRAMME NOTIFIED TB PATIENTS ACCORDING TO CATEGORY OF REGIMENS

NATIONAL TUBERCULOSIS PROGRAMME LABORATORY PERFORMANCE

NATIONAL TUBERCULOSIS PROGRAMME SPUTUM CONVERSION OF NEW POSITIVE PULMONARY TB PATIENTS

84% 91% %06 83% 89% 88% 87% 87% 83% 83% 87% 85% %06 88% 88% 87% 91% 89% 83% 88% Conversion Annual 2009 Sputum Rate 1255 2052 1140 885 1588 1758 2199 2909 3360 483 8329 34352 6669 131 780 1061 1764 4507 151 41351 2+3+4+5 TOTAL 48 200 323 202 62 75 96 22 18 33 17 74 88 21 57 Remaining positive at 3 month 12% 8% 13% 7% 8% 8% 7% %6 8% 10% %/ 7% %6 8% %9 %6 %9 4% 8% % 3 month 270 123 300 2559 55 189 100 134 592 652 Sputum conversion at 10 20 137 63 32 95 50 68 3211 221 ŝ 81% 72% 82% %02 82% 81% 74% 79% 81% 77% 84% 85% 74% 79% 79% %92 78% %98 80% 80% % 2 month 5187 902 108 106 2389 1670 2662 619 844 826 698 1524 1282 1409 1692 7000 3818 27916 33103 367 ŝ 269 163 2998 50 6 332 122 155 212 3835 23 9/ 99 123 132 301 837 158 537 Smear not done at eighter 2or 3 months 1255 2909 2052 3360 780 483 1140 885 1764 1588 1758 2199 8329 4507 34352 6669 131 151 1061 41351 cases Register New smear(+) in previous Q: Shan (S) State Ayeyarwady Div: State/Division Shan (N) State Tanintharyi Div: Shan (E) State Union of Myanmar Rakhine State Mandalay Div: Kachin State Kayah State Sagaing Div: Magway Div: Bago (West) Yangon Div: Kayin State Bago (East) Total Chin State Other Unit Mon State Sr.no 13 15 10 4 16 7 12 17 2 9 0 α

TREATMENT OUTCOMES OF NEW SMEAR POSITIVE TB PATIENTS (2008 COHORT) NATIONAL TUBERCULOSIS PROGRAMME

| | | | | | | NEV | NEW SMEAR POSITIVE TB PATIENTS | POSITI | VE TB F | ATIEN | မှ | | | | | |
|------------|--|--------|-------------|-------------|-----------|----------|--|---------|---------|---------------|-------------------------------|-----------|-------|----------|------|--------|
| 2 | State/ | TOTAL | Cured | eq | Completed | eted | TSR | Died | Р | Failure | ıre | Defaulted | rlted | Transfer | fer | |
| or.No | Division | | No. | CR | No. | Rate | | No. | Rate | No. | Rate | No. | Rate | No. | Rate | ı otal |
| 1 | Kachin State | 1158 | 847 | 73% | 22 | 2% | 78% | 64 | %9 | 44 | 4% | 117 | 10% | 29 | 3% | 1158 |
| 2 | Kayah State | 157 | 66 | 63% | 29 | 18% | 82% | 9 | 4% | 9 | 4% | 11 | 7% | 9 | 4% | 157 |
| 3 | Chin State | 160 | 114 | 71% | 30 | 19% | %06 | 7 | 4% | 3 | 2% | 5 | 3% | 1 | 1% | 160 |
| 4 | Sagaing Division | 2800 | 2179 | 78% | 204 | %2 | 85% | 219 | 8% | 71 | 3% | 91 | 3% | 36 | 1% | 2800 |
| 2 | Magway Division | 2236 | 1697 | %9 2 | 230 | 10% | %98 | 137 | %9 | 45 | 2% | 92 | 4% | 35 | 2% | 2236 |
| 9 | Mandalay Division | 3649 | 2947 | 81% | 211 | %9 | 87% | 265 | 7% | 74 | 2% | 92 | 3% | 09 | 2% | 3649 |
| 7 | Shan State (South) | 773 | 621 | 80% | 41 | 2% | %98 | 51 | 7% | 13 | 2% | 36 | 2% | 11 | 1% | 773 |
| 8 | Shan State (East) | 561 | 393 | %02 | 77 | 14% | 84% | 18 | 3% | 16 | 3% | 43 | 8% | 14 | 2% | 561 |
| 6 | Shan State (North) | 1089 | 746 | %69 | 126 | 12% | %08 | 22 | 2% | 27 | 2% | 120 | 11% | 15 | 1% | 1089 |
| 10 | Kayin State | 1095 | 834 | %9 2 | 71 | %9 | 83% | 47 | 4% | 15 | 1% | 91 | 8% | 37 | 3% | 1095 |
| 11 | Tanintharyi Division | 822 | 809 | 74% | 44 | 2% | 79% | 25 | 3% | 18 | 2% | 71 | %6 | 56 | 2% | 822 |
| 12 | Bago (East) Division | 1894 | 1480 | 78% | 159 | 8% | 87% | 96 | 2% | 32 | 2% | 105 | %9 | 22 | 1% | 1894 |
| 13 | Bago (West) Division | 1716 | 1367 | 80% | 85 | 2% | 85% | 143 | 8% | 42 | 2% | 57 | 3% | 22 | 1% | 1716 |
| 14 | Mon State | 1800 | 1450 | 81% | 87 | 2% | 85% | 101 | %9 | 43 | 2% | 84 | 2% | 35 | 2% | 1800 |
| 15 | Rakhine State | 2228 | 1653 | 74% | 263 | 12% | %98 | 126 | %9 | 44 | 2% | 121 | 2% | 21 | 1% | 2228 |
| 16 | Yangon Division | 8828 | 7235 | 82% | 522 | %9 | %88 | 385 | 4% | 258 | 3% | 302 | 3% | 98 | 1% | 8788 |
| 17 | Ayeyarwaddy Division | 4966 | 4005 | 81% | 353 | %2 | %88 | 298 | %9 | 22 | 1% | 210 | 4% | 43 | 1% | 4966 |
| State | States & Divisions total | 35892 | 28275 | 462 | 2589 | 7% | 86% | 2043 | %9 | 808 | 2% | 1648 | 2% | 529 | 1% | 35892 |
| NS(+) TB | NS(+) TB patients, Unknown HIV status (NTP) | 35184 | 27968 | 79% | 2450 | 7% | 86% | 1837 | 2% | 800 | 2% | 1619 | 2% | 510 | 1% | 35184 |
| | Other Unit | 5365 | | 71% | 521 | 10% | %08 | 333 | %9 | 257 | 2% | 328 | %9 | 134 | 2% | 5365 |
| NS(+) TB p | NS(+) TB patients, Unknown HIV status (Other units) | 4800 | 3459 | 72% | 494 | 10% | 82% | 201 | 4% | 243 | 2% | 288 | %9 | 115 | 2% | 4800 |
| Ď | Union of Myanmar | 41257 | 32067 | 78% | 3110 | 8% | 85% | 2376 | %9 | 1065 | 3% | 1976 | 2% | 663 | 2% | 41257 |
| NS(+) TB I | NS(+) TB patients, unknown HIV status (Union) | 39984 | 31427 | 79% | 2944 | 7% | 86% | 2038 | 2% | 1043 | 3% | 1907 | 2% | 625 | 2% | 39984 |
| | | TREATA | IENT | OUTCOME | | 3/HIV P. | OF TB/HIV PATIENTS IN 2009 (2008 COHOR | S IN 20 | 00 (20 |) 08 CC | HORT | | | | | |
| | | | | | NEW SI | MEAR PC | NEW SMEAR POSITIVE TB | B PATIE | NTS (K | NOWN | PATIENTS (KNOWN HIV POSITIVE) | ITIVE) | | | | |
| , | Reporting units | TOTAL | Cured | ed | Completed | | TSR % | Died | р | Failure | rre | Defaulted | rlted | Transfer | fer | Total |
| 2 | | | No. | CR | No. | Rate | | No. | Rate | No. | Rate | No. | Rate | No. | Rate | Otal |
| _ | NTP | 708 | 307 | 43% | 139 | 20% | 93% | 206 | 29% | 80 | 1% | 29 | 4% | 19 | 3% | 708 |
| 2 | Other Units | 565 | 333 | 59% | 27 | 2% | 64% | 132 | 23% | 14 | 2% | 40 | 7% | 19 | 3% | 565 |
| | Total | 1273 | 640 | 20% | 166 | 13% | %89 | 338 | 27% | 22 | 2% | 69 | 2% | 38 | 3% | 1273 |

TREATMENT OUTCOMES OF NEW SMEAR POSITIVE TB PATIENTS (2008 COHORT) NATIONAL TUBERCULOSIS PROGRAMME

365 85 146 65 121 eva. Pts. 121 157 Total 100% 2% 2% %0 %0 %6 2% 3% %0 %0 %0 %0 %0 3% %0 %0 % 3% Transfered out %0 3% % %0 % Rate 욷 22% 10% 17% 12% %0 33% 3% %0 %0 2% %0 11% 3% 8% % % %0 8% %0 % %0 % %/ % %0 %0 8% 2% 18% % 10% Rate Defaulted 15 13 10 44 4 6 0 0 7 ž 2% 0% 0% 2% %9 %9 2% %0 4% %0 2% %0 %0 %0 4% %0 %0 7% %0 5% 5% %0 18% %0 %0 %0 3% % 1% % Rate Failure 19 0 44 ž 11% 33% % % % %9 2% 3% 8% 8% 2% 7% 5% 4% %9 %0 %6 2% %6 4% %6 %0 3% % 10% %0 %0 %0 % 3% % Rate 20 0 64 £ %98 71% 84% %26 65% 76% 88% %82 %29 64% %08 100% 100% 95% 79% 69% 74% 100% 85% %29 %0 100% 85% 100% 82% %98 87% 100% %06 100% %08 100% %06 13% %0 50% 45% 38% 100% 40% 62% 33% %0 %0 15% 3% 11% 11% %0 %0 %0 20% 8% 19% % % 4% %0 % %9 % 2% %6 10% 18% Rate Completed 0 0 5 5 8 13 8 0 0 12 3 30 57 29 ž 71% 84% 82% 75% 54% 69% 26% 71% 20% %69 63% %62 40% %29 84% 82% %62 %29 %0 73% 26% 18% %9/ 63% %98 87% 100% %08 38% **%98** 100% % 윉 Cured 35 84 84 258 35 16 28 110 90 99 57 847 59 25 5 99 20 23 12 31 114 ž 105 49 19 34 146 55 365 85 23 29 30 65 121 1158 33 13 37 160 121 157 Reg. Pts. ž ż ż Kachin State Kayah State Townships Chin State Khaunglanbu Total Sumprabum Machanbaw Waingmaw N Jan Yan Dimawhso Myitkyina **Sanpetlet** Mogaung Hsawlaw Nogmun Pasaung Phruhso Htantalan Bawlake Momauk Shwegu Mohynin Chipway Paletwa Bahmo Kamaing Shataw Mindat Tiddim Tunzan Matupi Loikaw Mansi Puta0 Falam Masai Hakha Tanai 12 13 15 10 7 4 16 18 α က 4 2 ဖ 8 တ N 9 က 2 9 ω 0 Š. 4

29

30

| S. | Townships | Reg. Pts. | Cured | pe. | Completed | leted | | Ο | Died | Fai | Failure | Def | Defaulted | Transf | Transfered out | Total |
|----------|------------------|-----------|-------|------------|-----------|-------|------------|-----|------|-----|---------|-----|-----------|--------|----------------|-----------|
| No. | | | No | CR | No | Rate | TSR | No | Rate | No | Rate | No | Rate | No | Rate | eva. Pts. |
| | | | | | | | | | | | | | | | | |
| | Sagaing Division | | | | | | | | | | | | | | | |
| - | Sagaing | 190 | 153 | 81% | 13 | 2% | 87% | 18 | %6 | 1 | 1% | 4 | 2% | _ | 1% | 190 |
| 7 | Myaung | 65 | 47 | 72% | 11 | 17% | 89% | 5 | 8% | 0 | %0 | 1 | 2% | _ | 2% | 65 |
| 3 | Myinmu | 108 | 105 | %26 | 0 | %0 | 97% | 3 | 3% | 0 | %0 | 0 | %0 | 0 | 0% | 108 |
| 4 | Shwebo | 121 | 16 | 75% | 8 | %2 | 82% | 8 | %/ | 1 | 1% | 7 | %9 | 9 | 2% | 121 |
| 2 | Kanbalu | 128 | 101 | %62 | 8 | %9 | 85% | 10 | %8 | 2 | 2% | 4 | 3% | က | 2% | 128 |
| 9 | Khin-U | 26 | 49 | %88 | 1 | 2% | 89% | 5 | %6 | _ | 2% | 0 | %0 | 0 | %0 | 26 |
| 7 | Kyunhla | 45 | 20 | 44% | 19 | 42% | 87% | 5 | 11% | 0 | %0 | 1 | 2% | 0 | %0 | 45 |
| 8 | Tabayin | 55 | 49 | %68 | က | 2% | 95% | 3 | 2% | 0 | %0 | 0 | %0 | 0 | %0 | 22 |
| б | Taze | 64 | 20 | 78% | 80 | 13% | 91% | 4 | %9 | 0 | %0 | _ | 2% | _ | 2% | 64 |
| 10 | Wetlet | 119 | 66 | 83% | 2 | 2% | 85% | 15 | 13% | က | 3% | 0 | %0 | 0 | %0 | 119 |
| 7 | Ye-U | 51 | 42 | 82% | 0 | %0 | 82% | 3 | %9 | 3 | %9 | 3 | %9 | 0 | %0 | 51 |
| 12 | Monywa | 191 | 139 | 73% | 80 | 4% | 77% | 25 | 13% | 9 | 3% | 10 | 2% | က | 2% | 191 |
| 13 | Ayadaw | 78 | 7.1 | 91% | 2 | 3% | 94% | 5 | %9 | 0 | %0 | 0 | %0 | 0 | %0 | 78 |
| 14 | Budalin | 91 | 71 | 78% | 0 | %0 | 78% | 8 | %6 | 7 | 8% | 5 | 2% | 0 | 0% | 91 |
| 15 | ChaungU | 73 | 28 | %62 | 4 | %9 | 85% | 9 | %8 | 0 | %0 | 4 | 2% | 1 | 1% | 23 |
| 16 | Kani | 41 | 30 | 73% | 1 | 27% | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | 0% | 41 |
| 17 | Pale | 54 | 30 | 26% | 13 | 24% | 80% | 3 | %9 | 4 | 7% | 4 | %2 | 0 | %0 | 54 |
| 18 | Salingyi | 54 | 40 | 74% | _ | 2% | 26% | 9 | 11% | 3 | %9 | 2 | 4% | 2 | 4% | 54 |
| 19 | Yinmabin | 51 | 47 | 95% | _ | 2% | 94% | 2 | 4% | 0 | %0 | 1 | 2% | 0 | 0% | 51 |
| 20 | Katha | 102 | 82 | 80% | _ | 1% | 81% | 8 | 8% | 4 | 4% | 5 | 2% | 2 | 2% | 102 |
| 21 | Banmauk | 22 | 14 | 64% | 9 | 27% | 91% | 2 | %6 | 0 | %0 | 0 | %0 | 0 | %0 | 22 |
| 22 | Htigyaing | 62 | 40 | 62% | 0 | 15% | 79% | 5 | 8% | 5 | 8% | 2 | 3% | _ | 2% | 62 |
| 23 | Indaw | 55 | 48 | 87% | 0 | %0 | 87% | 3 | 2% | ~ | 2% | 2 | 4% | _ | 2% | 22 |
| 24 | Kawlin | 09 | 40 | %29 | 9 | 10% | 77% | 9 | 15% | 3 | 2% | 2 | 3% | 0 | %0 | 09 |
| 25 | Pinlebu | 41 | 28 | %89 | 7 | 17% | 85% | 9 | 15% | 0 | %0 | 0 | %0 | 0 | %0 | 41 |
| 26 | Wuntho | 30 | 26 | | 0 | %0 | 87% | 2 | %/ | 2 | 7% | 0 | %0 | 0 | %0 | 30 |
| 27 | Kalay | 217 | 171 | %62 | 0 | %0 | 79% | 18 | 8% | 15 | 7% | 10 | 2% | 3 | 1% | 217 |
| 28 | Kalewa | 40 | 35 | 88% | 2 | 2% | 93% | 2 | 2% | 0 | %0 | 1 | 3% | 0 | %0 | 40 |
| 29 | Minkin | 54 | 52 | %96 | 0 | %0 | %96 | 2 | 4% | 0 | %0 | 0 | %0 | 0 | 0% | 54 |
| 30 | Tamu | 144 | 136 | 94% | _ | 1% | 95% | 4 | 3% | 0 | %0 | 2 | 1% | _ | 1% | 144 |
| 31 | Mawlaik | 17 | 12 | 71% | 4 | 24% | 94% | 0 | %0 | 0 | %0 | 1 | %9 | 0 | %0 | 17 |
| 32 | Phaungbyin | 9/ | 48 | 63% | 13 | 17% | 80% | 8 | 11% | _ | 1% | 3 | 4% | 3 | 4% | 92 |
| 33 | Khamti | 28 | 99 | 64% | 6 | 10% | 75% | 9 | %2 | 2 | %9 | 7 | %8 | 4 | 2% | 28 |
| 34 | Homalin | 85 | 52 | 21% | 22 | 24% | %08 | 6 | 10% | 2 | 2% | 4 | 4% | 3 | 3% | 85 |
| 35 | Layshi | 6 | 8 | %68 | 0 | %0 | 89% | 0 | %0 | 1 | 11% | 0 | %0 | 0 | %0 | 6 |
| 36 | Lahel | 20 | 34 | %89 | 10 | 20% | 88% | 0 | %0 | _ | 2% | 5 | 10% | 0 | %0 | 20 |
| 37 | Nanyun | 7 | 5 | 71% | 1 | 14% | 86% | 1 | 14% | 0 | 0% | 0 | %0 | 0 | 0% | 7 |
| | Total | 2800 | 2179 | %82 | 204 | %2 | 85% | 219 | 8% | 7.1 | 3% | 91 | 3% | 36 | 1% | 2800 |
| | | | | | | | | | | | | | | | | |

| S. | Townships | Reg. Pts. | Cul | Sured | Completed | leted | | | Died | Fail | Failure | Defa | Defaulted | Transt | Transfered out | Total |
|-----|----------------|-----------|------|-------|-----------|-------|------|-----|------|------|---------|------|-----------|--------|----------------|-----------|
| No. | | | No | CR | No | Rate | TSR | No | Rate | No | Rate | No | Rate | No | Rate | eva. Pts. |
| | Magwe Division | | | | | | | | | | | | | | | |
| _ | Magwe | 323 | 230 | 71% | 28 | %6 | 80% | 20 | %9 | 15 | 2% | 21 | 4% | 6 | 3% | 323 |
| 2 | Chauk | 152 | 106 | %02 | 20 | 13% | 83% | 5 | 3% | _ | 1% | 15 | 10% | 5 | 3% | 152 |
| 3 | Taundwingyi | 122 | 109 | %68 | 0 | %0 | 89% | 8 | %/ | 0 | %0 | 3 | 2% | 2 | 2% | 122 |
| 4 | Myothit | 117 | 112 | %96 | 0 | %0 | %96 | 4 | 3% | 0 | %0 | - | 1% | 0 | %0 | 117 |
| 2 | Natmauk | 92 | 73 | %22 | 6 | %6 | %98 | 5 | 2% | _ | 1% | 9 | %9 | 7 | 1% | 95 |
| 9 | Yenanchaung | 120 | 107 | %68 | 4 | 3% | 93% | 5 | 4% | 2 | 2% | 2 | 2% | 0 | %0 | 120 |
| 7 | Pakokku | 144 | 97 | %29 | 30 | 21% | 88% | 7 | 2% | _ | 1% | 9 | 4% | 3 | 2% | 144 |
| 8 | Yesagyo | 53 | 47 | %68 | 0 | %0 | %68 | 4 | %8 | 0 | %0 | 1 | 2% | 7 | 2% | 53 |
| 6 | Pauk | 66 | 94 | %26 | 0 | %0 | 95% | 5 | 2% | 0 | %0 | 0 | %0 | 0 | %0 | 66 |
| 10 | Myaing | 126 | 59 | 47% | 22 | 45% | 95% | 6 | %/ | _ | 1% | 0 | %0 | 0 | %0 | 126 |
| 11 | Seikphyu | 4 | 39 | %68 | က | 7% | 95% | 1 | 2% | 0 | %0 | 0 | %0 | 7 | 2% | 44 |
| 12 | Gantgaw | 65 | 40 | 62% | 23 | 35% | 97% | 2 | 3% | 0 | %0 | 0 | %0 | 0 | %0 | 65 |
| 13 | Saw | 22 | 21 | 95% | 0 | %0 | 95% | 1 | 2% | 0 | %0 | 0 | %0 | 0 | %0 | 22 |
| 14 | Htilin | 16 | 14 | %88 | 0 | %0 | 88% | 2 | 13% | 0 | %0 | 0 | %0 | 0 | %0 | 16 |
| 15 | Minbu | 110 | 77 | %02 | 4 | 4% | 74% | 7 | %9 | 0 | 8% | 10 | %6 | 3 | 3% | 110 |
| 16 | Ngape | 24 | 13 | 54% | 9 | 25% | 79% | 3 | 13% | 0 | %0 | 0 | %0 | 2 | 8% | 24 |
| 17 | Pwintphyu | 35 | 30 | %98 | 0 | %0 | %98 | 3 | %6 | 2 | %9 | 0 | %0 | 0 | %0 | 35 |
| 18 | Saytoketaya | 24 | 5 | 21% | 10 | 42% | 63% | 1 | 4% | 4 | 17% | 3 | 13% | 7 | 4% | 24 |
| 19 | Salin | 120 | 85 | 71% | 24 | 20% | 91% | 8 | %/ | _ | 1% | 1 | 1% | 7 | 1% | 120 |
| 20 | Thayet | 113 | 71 | 63% | 11 | 10% | 73% | 7 | %9 | 4 | 4% | 18 | 16% | 2 | 2% | 113 |
| 21 | Minhla | 48 | 47 | %86 | 0 | %0 | %86 | 0 | %0 | 0 | %0 | ٢ | 2% | 0 | %0 | 48 |
| 22 | Kanma | 62 | 56 | %06 | 0 | %0 | %06 | 9 | 10% | 0 | %0 | 0 | %0 | 0 | %0 | 62 |
| 23 | Sinpaukwae | 32 | 32 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 32 |
| 24 | Mindon | 35 | 35 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 35 |
| 25 | Aunglan | 135 | 98 | 73% | 7 | 1% | 73% | 24 | 18% | 4 | 3% | 4 | 3% | , 4 | 3% | 135 |
| | Total | 2236 | 1697 | %92 | 230 | 10% | 86% | 137 | %9 | 45 | 2% | 92 | 4% | 35 | 2% | 2236 |

| S. | Townships | Reg. Pts. | n | Sured | Completed | leted | | ΙÖ | Died | Fai | Failure | Def | Defaulted | Transfered | fered out | Total |
|-----|-------------------|-----------|------|------------|--------------|-------|-------------|-----|------|--------------|---------|---------|-----------|------------|-----------|-----------|
| No. | |) | No | CR | _S | Rate | TSR | N | Rate | _S | Rate | oN N | Rate | 9 | Rate | eva. Pts. |
| | Mandalay Division | | | | | | | | | | | | | | | |
| _ | Amarapura | 88 | 59 | %29 | 18 | 20% | 88% | 5 | %9 | _ | 1% | 2 | 2% | 3 | 3% | 88 |
| 2 | Aungmyaytharzan | 219 | 193 | %88 | 0 | %0 | %88 | 13 | %9 | 2 | 2% | 3 | 1% | 5 | %7 | 219 |
| က | Chanayetharzan | 148 | 115 | 78% | 8 | 2% | 83% | 12 | 8% | 2 | 3% | 5 | 3% | 3 | 2% | 148 |
| 4 | Chanmyatharzi | 241 | 216 | %06 | 2 | 1% | %06 | 11 | 2% | 2 | 1% | 8 | 3% | 2 | 1% | 241 |
| 5 | Maharaungmyae | 188 | 169 | %06 | 0 | %0 | %06 | 15 | 8% | 1 | 1% | 0 | %0 | 3 | %7 | 188 |
| 9 | Pyigyitagonn | 147 | 108 | 73% | 13 | %6 | 82% | 17 | 12% | 3 | 2% | 2 | 1% | 4 | 3% | 147 |
| 7 | Patheingyi | 134 | 114 | 85% | 8 | 2% | 87% | 9 | 4% | က | 2% | 2 | 1% | 9 | 4% | 134 |
| 8 | Meiktilar | 61 | 38 | 62% | 8 | 13% | 75% | 6 | 15% | 0 | %0 | 2 | 3% | 4 | %2 | 61 |
| 6 | Mahlaing | 37 | 29 | 78% | 3 | 8% | 86% | 2 | 2% | _ | 3% | 2 | 2% | 0 | %0 | 37 |
| 10 | Tharzi | 92 | 88 | %96 | 4 | 4% | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 92 |
| 11 | Wundwin | 104 | 86 | 83% | _ | 1% | 84% | 15 | 14% | 0 | %0 | 2 | 2% | 0 | %0 | 104 |
| 12 | Myingan | 190 | 163 | %98 | 0 | %0 | 86% | 18 | %6 | 2 | 3% | 4 | 2% | 0 | %0 | 190 |
| 13 | Kyaukpadaung | 223 | 178 | 80% | 11 | 2% | 85% | 25 | 11% | က | 1% | 4 | 2% | 2 | 1% | 223 |
| 14 | Natogyi | 36 | 27 | 75% | 2 | %9 | 81% | 3 | 8% | _ | 3% | 2 | %9 | _ | 3% | 36 |
| 15 | Ngazun | 22 | 45 | 79% | 4 | %2 | 86% | 3 | 2% | _ | 2% | 4 | 7% | 0 | %0 | 22 |
| 16 | Taungtha | 54 | 44 | 81% | 9 | 11% | 93% | 0 | %0 | 0 | %0 | 2 | 4% | 2 | 4% | 54 |
| 17 | NyaungU | 140 | 101 | 72% | 18 | 13% | 85% | 10 | %/ | 9 | 4% | 3 | 2% | 2 | 1% | 140 |
| 18 | Pyin oo Lwin | 83 | 79 | 95% | 0 | %0 | 95% | 0 | %0 | 4 | 2% | 0 | %0 | 0 | %0 | 83 |
| 19 | Madayar | 132 | 92 | 40% | 8 | %9 | %9 2 | 15 | 11% | 80 | %9 | 8 | %9 | _ | 1% | 132 |
| 20 | Mogok | 29 | 47 | 80% | 9 | 10% | %06 | 4 | 7% | _ | 2% | 0 | %0 | _ | 2% | 59 |
| 21 | Sintgu | 116 | 110 | 95% | 5 | 4% | %66 | _ | 1% | 0 | %0 | 0 | %0 | 0 | %0 | 116 |
| 22 | Thabeikkyin | 80 | 56 | 40% | 11 | 14% | 84% | 3 | 4% | က | 4% | 4 | 2% | 3 | 4% | 80 |
| 23 | Yamethin | 105 | 92 | 88% | 0 | %0 | 88% | 12 | 11% | 0 | %0 | _ | 1% | 0 | %0 | 105 |
| 24 | Lewei | 147 | 131 | 89% | 80 | 2% | 95% | 9 | 4% | _ | 1% | 0 | %0 | 1 | 1% | 147 |
| 25 | Pyawbwei | 108 | 97 | %06 | 0 | %0 | %06 | 8 | 7% | က | 3% | 0 | %0 | 0 | %0 | 108 |
| 26 | Pyinmana | 220 | 130 | 29% | 38 | 17% | 492 | 19 | %6 | 2 | 2% | 22 | 10% | 9 | 3% | 220 |
| 27 | Tatkone | 76 | 51 | %29 | 10 | 13% | 80% | 9 | 8% | 2 | 3% | 2 | 3% | 5 | %2 | 26 |
| 28 | Kyaukse | 193 | 153 | 79% | 12 | %9 | 85% | 11 | %9 | ∞ | 4% | 4 | 2% | 5 | %8 | 193 |
| 29 | Myittha | 9/ | 56 | 74% | 11 | 14% | 88% | 9 | 8% | 0 | %0 | 3 | 4% | 0 | %0 | 26 |
| 30 | Sintgine | 51 | 46 | %06 | _ | 2% | 95% | 4 | 8% | 0 | %0 | 0 | %0 | 0 | %0 | 51 |
| 31 | TadaOo | 44 | 34 | 77% | 0 | 0% | 77% | 9 | 14% | 2 | 5% | 1 | 2% | 1 | 2% | 44 |
| | Total | 3649 | 2947 | 81% | 211 | %9 | 87% | 265 | %2 | 74 | 2% | 92 | 3% | 09 | 2% | 36 |

| Townships | Reg. Pts. | Cured | red | Com | Completed | | ۵ | Died | Fai | Failure | Def | Defaulted | Trans | Transfered out | Total |
|--------------------|-----------|-------|------|-----|-----------|------------|----|------|-----|---------|-----|-----------|----------------|----------------|-----------|
| | | No | CR | No | Rate | TSR | No | Rate | No | Rate | No | Rate | N _o | Rate | eva. Pts. |
| Shan State (South) | | | | | | | | | | | | | | | |
| | 28 | 25 | %68 | 0 | %0 | %68 | 2 | %2 | 1 | 4% | 0 | %0 | 0 | %0 | 28 |
| | 18 | 16 | 89% | 0 | %0 | 89% | 2 | 11% | 0 | %0 | 0 | %0 | 0 | %0 | 18 |
| | 17 | 17 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 17 |
| | 0 | | | | | | | | | | | | | | 0 |
| | 30 | 26 | 87% | 0 | %0 | 87% | 1 | 3% | 0 | %0 | 2 | 7% | 1 | 3% | 30 |
| | 41 | 24 | 29% | 12 | 78% | %88 | 3 | %2 | 1 | 2% | 1 | 7% | 0 | %0 | 41 |
| | 18 | 16 | %68 | 0 | %0 | %68 | 1 | %9 | 0 | %0 | 0 | %0 | 1 | %9 | 18 |
| | 26 | 26 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 26 |
| Mongkaing | 23 | 10 | 43% | 7 | 30% | 74% | 1 | 4% | 0 | %0 | 5 | 22% | 0 | %0 | 23 |
| Mongshu | 34 | 34 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 34 |
| | 37 | 25 | %89 | 1 | 3% | %02 | 3 | %8 | 0 | %0 | 9 | 16% | 2 | 2% | 37 |
| Taunggyi | 157 | 106 | %89 | 10 | %9 | 74% | 13 | 8% | 5 | 3% | 17 | 11% | 9 | 4% | 157 |
| | 21 | 18 | %98 | 0 | %0 | %98 | 2 | 10% | 0 | %0 | 0 | %0 | 1 | 2% | 21 |
| | 23 | 19 | 83% | 1 | 4% | 87% | 0 | %0 | 1 | 4% | 2 | 9% | 0 | %0 | 23 |
| | 36 | 25 | %69 | 4 | 11% | 81% | 5 | 14% | 0 | %0 | 2 | %9 | 0 | %0 | 36 |
| | 82 | 67 | 82% | 1 | 1% | 83% | 10 | 12% | 3 | 4% | 1 | 1% | 0 | %0 | 82 |
| Lauksauk | 48 | 43 | %06 | 0 | %0 | %06 | 5 | 10% | 0 | %0 | 0 | %0 | 0 | %0 | 48 |
| | 11 | 10 | 91% | 1 | %6 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 11 |
| | 44 | 38 | %98 | 4 | %6 | 95% | 2 | 2% | 0 | %0 | 0 | %0 | 0 | %0 | 44 |
| Nyaungshwe | 69 | 89 | %66 | 0 | %0 | %66 | 0 | %0 | _ | 1% | 0 | %0 | 0 | %0 | 69 |
| | 10 | 8 | 80% | 0 | %0 | 80% | _ | 10% | _ | 10% | 0 | %0 | 0 | %0 | 10 |
| Total | 773 | 621 | %08 | 41 | %9 | %98 | 51 | %2 | 13 | 2% | 36 | %9 | 11 | 1% | 773 |

| Shan State (East) | | | | | | | | | | | | | | | |
|-------------------|-----|-----|-----|----|-----|-------------|----|----|----|----|----|-----|----|----|-----|
| Kengtong | 147 | 106 | 72% | 17 | 12% | 84% | 0 | %0 | 4 | 3% | 13 | %6 | 7 | 2% | 147 |
| Mongkhat | 0 | 0 | | 0 | | | 0 | | 0 | | 0 | | 0 | | 0 |
| Mongyan | 40 | 29 | 73% | 6 | 23% | 95% | 1 | 3% | 0 | %0 | 1 | 3% | 0 | %0 | 40 |
| Monghsat | 117 | 74 | 63% | 19 | 16% | 19 % | 7 | %9 | 6 | 8% | 9 | 2% | 2 | 2% | 117 |
| Mongping | 41 | 30 | 73% | 5 | 12% | 85% | 1 | 2% | 0 | %0 | 5 | 12% | 0 | %0 | 41 |
| Mongton | 17 | 6 | 23% | 2 | 12% | 65 % | 0 | %0 | _ | %9 | 5 | 29% | 0 | %0 | 17 |
| Monpyak | 23 | 19 | 83% | 2 | %6 | 91% | 0 | %0 | 1 | 4% | 1 | 4% | 0 | %0 | 23 |
| Mongyaung | 37 | 23 | 62% | 6 | 24% | 86% | 0 | %0 | 0 | %0 | 5 | 14% | 0 | %0 | 37 |
| Tachileik | 139 | 103 | 74% | 14 | 10% | 84% | 6 | %9 | 1 | 1% | 7 | 2% | 5 | 4% | 139 |
| Matman | N. | | | | | | | | | | | | | | |
| Total | 561 | 393 | %02 | 77 | 14% | 84% | 18 | 3% | 16 | 3% | 43 | %8 | 14 | 2% | 561 |

| Total | va. Pts. |
|-----------|----------|
| ered out | Rate |
| Transfe | No |
| Defaulted | Rate |
| Def | No |
| ailure | Rate |
| Fa | No |
| Died | Rate |
| Q | No |
| | TSR |
| pleted | Rate |
| Com | No |
| red | CR |
| Cur | No |
| Reg. Pts. | |
| Townships | |
| Sr. | No. |

| | Shan State (North) | | | | | | | , | | • | i | , | , | • | • | |
|----|--------------------|------|-----|------|-----|-----|------|----|-----|----|----|-----|-----|----|-----|------|
| _ | Kunlon | 24 | 23 | %96 | 0 | %0 | %96 | _ | 4% | 0 | %0 | 0 | %0 | 0 | %0 | 24 |
| 2 | Hopan | 75 | 28 | 37% | 38 | 51% | 88% | 3 | 4% | _ | 1% | 2 | 7% | 0 | %0 | 75 |
| 3 | Kyaukme | 120 | 98 | 72% | 80 | %2 | 78% | 10 | %8 | 2 | 2% | 1 | %6 | က | 3% | 120 |
| 4 | Hsipaw | 109 | 109 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 109 |
| 2 | Mabein | 20 | 18 | %06 | 2 | 10% | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 20 |
| 9 | Manton | 5 | 5 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 5 |
| 7 | Mongmeik | 51 | 40 | 78% | 3 | %9 | 84% | 3 | %9 | 2 | 4% | 3 | %9 | 0 | %0 | 51 |
| 80 | Namtu | 52 | 35 | %29 | 8 | 15% | 83% | 7 | 13% | 0 | %0 | 2 | 4% | 0 | %0 | 52 |
| 6 | Nyaungcho | 40 | 38 | 95% | 0 | %0 | 95% | _ | 3% | _ | 3% | 0 | %0 | 0 | %0 | 40 |
| 10 | Lashio | 217 | 133 | 61% | 7 | 3% | 65% | 15 | %2 | 11 | 2% | 49 | 23% | 2 | 1% | 217 |
| 11 | Namsam | 21 | 12 | 21% | 7 | 33% | %06 | _ | 2% | _ | 2% | 0 | %0 | 0 | %0 | 21 |
| 12 | Mongmaw | Ž. | | | | | | | | | | | | | | |
| 13 | Theinni | 4 | 21 | 48% | 6 | 20% | %89 | 5 | 11% | 3 | 7% | 9 | 14% | 0 | %0 | 44 |
| 4 | Mongreh | 33 | 27 | 82% | 4 | 12% | 94% | _ | 3% | 0 | %0 | ~ | 3% | 0 | %0 | 33 |
| 15 | Manphant | ž | | | | | | | | | | | | | | |
| 16 | Pangyan | 1 | 2 | 18% | 3 | 27% | 45% | 0 | %0 | 0 | %0 | 9 | 22% | 0 | %0 | 11 |
| 17 | Narphant | Ž. | | | | | | | | | | | | | | |
| 18 | Panwaing | ž | | | | | | | | | | | | | | |
| 19 | Tanyan | 61 | 4 | %29 | 15 | 25% | 95% | _ | 2% | 3 | 2% | ~ | 2% | 0 | %0 | 61 |
| 20 | Laukkai | 22 | 8 | 36% | 4 | 18% | 25% | 0 | %0 | 0 | %0 | 9 | 27% | 4 | 18% | 22 |
| 21 | Kongyan | ž | | | | | | | | | | | | | | |
| 22 | Muse | 09 | 39 | %59 | 5 | %8 | 73% | 3 | 2% | 0 | %0 | 10 | 17% | က | 2% | 09 |
| 23 | Kutkai | 45 | 29 | 64% | 3 | 4% | 71% | 3 | %2 | 2 | 4% | 8 | 18% | 0 | %0 | 45 |
| 24 | Namkham | 79 | 52 | %99 | 10 | 13% | 78% | 1 | 1% | 1 | 1% | 12 | 15% | 3 | 4% | 79 |
| | Total | 1089 | 746 | %69 | 126 | 12% | 80% | 55 | 2% | 27 | 2% | 120 | 11% | 15 | 1% | 1089 |

| ທັ | Lownships | Reg. Pts. | ี่ | Cured | Sog | Completed | | <u></u> | Died | Fai | Failure | Def | Defaulted | Transf | Fransfered out | Iotal |
|-----|------------------|-----------|-----|-------|-----|-----------|-----|---------|------|-----|---------|-----|-----------|--------|----------------|-----------|
| No. | | | No | CR | No | Rate | TSR | oN | Rate | No | Rate | No | Rate | No | Rate | eva. Pts. |
| | | | | | | | | | | | | | | | | |
| | Kayin State | | | | | | | | | | | | | | | |
| _ | Kawkareik | 179 | 139 | %82 | 11 | %9 | 84% | 12 | %2 | 2 | 1% | 41 | 8% | 1 | 1% | 179 |
| 2 | Kyainseikkyi | 25 | 36 | %E9 | 16 | 78% | 91% | 3 | %9 | 0 | %0 | 2 | 4% | 0 | %0 | 25 |
| က | Myawady | 168 | 107 | 64% | 16 | 10% | 73% | 11 | %2 | 5 | 3% | 18 | 11% | 11 | %2 | 168 |
| 4 | Hpa-an | 461 | 366 | %62 | 19 | 4% | 84% | 10 | 2% | - | %0 | 45 | 10% | 20 | 4% | 461 |
| 2 | Hlaingbwe | 142 | 114 | %08 | 0 | %9 | 87% | 9 | 4% | က | 2% | 7 | 2% | က | 2% | 142 |
| 9 | Papun(Kamamaung) | 65 | 54 | 83% | 0 | %0 | 83% | 2 | 3% | 2 | 3% | 2 | 8% | 2 | 3% | 92 |
| 7 | Thandaung | 23 | 18 | 78% | 0 | %0 | 78% | 3 | 13% | 2 | %6 | 0 | %0 | 0 | %0 | 23 |
| | Total | 1095 | 834 | %92 | 71 | %9 | 83% | 47 | 4% | 15 | 1% | 91 | %8 | 37 | 3% | 1095 |

| | Tanintharyi Division | | | | | | | | | | | | | | | |
|-----|----------------------|-----|-----|-----|----|-----|-----|----|----|----|----|----|-----|----|-----|-----|
| _ | Dawei | 143 | 120 | 84% | 5 | 3% | 87% | 1 | 1% | 8 | %9 | 9 | 4% | 3 | 2% | 143 |
| CI. | Launglon | 26 | 24 | 95% | 0 | %0 | 95% | 2 | 8% | 0 | %0 | 0 | 0% | 0 | %0 | 26 |
| ~ | Thayetchaung | 18 | 14 | 78% | 1 | %9 | 83% | 1 | %9 | 0 | %0 | 2 | 11% | 0 | %0 | 18 |
| 4 | Yebyu | 29 | 24 | 83% | 0 | %0 | 83% | 1 | 3% | 1 | 3% | 2 | 7% | 1 | 3% | 29 |
| 10 | Kawthaung | 135 | 103 | %92 | 13 | 10% | %98 | 4 | 3% | 1 | 1% | 11 | 8% | 3 | 2% | 135 |
| (0 | Bokpyin | 20 | 14 | 20% | 7 | 10% | 80% | - | 2% | 0 | %0 | က | 15% | 0 | %0 | 20 |
| _ | Myeik | 301 | 211 | 20% | 10 | 3% | 73% | 1 | 4% | 4 | 1% | 19 | %9 | 46 | 15% | 301 |
| _ m | Kyunsu | 11 | 10 | 91% | 0 | %0 | 91% | 0 | %0 | 0 | %0 | ~ | %6 | 0 | %0 | 1 |
| 6 | Tanintharyi | 54 | 44 | 81% | _ | 2% | 83% | က | %9 | ~ | 2% | S | %6 | 0 | %0 | 54 |
| 0 | Palaw | 85 | 44 | 25% | 12 | 14% | %99 | _ | 1% | က | 4% | 22 | 26% | က | 4% | 85 |
| | Total | 822 | 809 | 74% | 44 | 2% | 79% | 25 | 3% | 18 | 2% | 71 | %6 | 56 | %2 | 822 |
| ١ | | | | | | | | | | | | | | | | |

| S. | Townships | Reg. Pts. | Cur | red | Com | Completed | | | Died | Fai | Failure | Defa | Defaulted | Transfe | Transfered out | Total |
|----------|---------------------------|-----------|------|-------------|-----|-----------|-------------|-----|------|-----|---------|------|-----------|---------|----------------|-----------|
| Š. | | | No | CR | No | Rate | TSR | No | Rate | No | Rate | No | Rate | No | Rate | eva. Pts. |
| | | | | | | | | | | | | | | | | |
| | Bago East Division | Į | | - | | - | | | | | | | | İ | | |
| - | Bago | 465 | 318 | %89 | 63 | 14% | 82% | 24 | 2% | 18 | 4% | 37 | 8% | 2 | 1% | 465 |
| 7 | Daik-U | 134 | 119 | 89% | 2 | 1% | %06 | 4 | 3% | _ | 1% | 8 | %9 | 0 | %0 | 134 |
| 3 | Kawa | 96 | 69 | 72% | 14 | 15% | %98 | 4 | 4% | 1 | 1% | 7 | %2 | 1 | 1% | 96 |
| 4 | Kyauktaga | 150 | 130 | 87% | 10 | %2 | 93% | 8 | 2% | 0 | %0 | 0 | %0 | 2 | 1% | 150 |
| 2 | Nyaunglaybin | 110 | 88 | %08 | 6 | %8 | %88 | 5 | 2% | 2 | 2% | 2 | 2% | - | 1% | 110 |
| 9 | Shwekyin | 53 | 34 | 64% | 10 | 19% | 83% | 2 | 4% | 0 | %0 | 9 | 11% | - | 2% | 53 |
| 7 | Thanatpin | 66 | 9/ | 41% | 8 | %8 | 85% | 7 | %2 | 0 | %0 | 80 | 8% | 0 | %0 | 66 |
| 80 | Waw | 146 | 122 | 84% | 9 | 4% | %88 | 8 | 2% | 4 | 3% | 9 | 4% | 0 | %0 | 146 |
| 6 | Taunggoo | 138 | 113 | 82% | 0 | %0 | 82% | 6 | %2 | 4 | 3% | 2 | 4% | 7 | 2% | 138 |
| 10 | Kyaukkyi | 20 | 36 | 72% | 12 | 24% | %96 | 1 | 7% | 0 | %0 | 1 | 2% | 0 | %0 | 20 |
| 11 | Oktwin | 87 | 89 | %82 | 4 | %9 | 83% | 10 | 11% | 0 | %0 | 4 | 2% | 1 | 1% | 87 |
| 12 | Phyu | 193 | 158 | 85% | 10 | %9 | 8 2% | 5 | 3% | 2 | 1% | 16 | 8% | 2 | 1% | 193 |
| 13 | Htantabin | 62 | 99 | %06 | 3 | %9 | %56 | 3 | %9 | 0 | %0 | 0 | %0 | 0 | %0 | 62 |
| 14 | Yedashe | 111 | 93 | 84% | 8 | %2 | 91% | 9 | %9 | 0 | %0 | 2 | 2% | 2 | 2% | 111 |
| | Total | 1894 | 1480 | %82 | 159 | %8 | %28 | 96 | %9 | 32 | 2% | 105 | %9 | 22 | 1% | 1894 |
| | Bago West Division | | | | | | | | | | | | | | | |
| 1 | Pyay | 288 | 213 | 74% | 4 | 1% | 12 % | 29 | 10% | 19 | %2 | 14 | 2% | 6 | 3% | 288 |
| 2 | Paukkhaung | 101 | 88 | %88 | 0 | %0 | %88 | 10 | 10% | 0 | %0 | 2 | 2% | 0 | %0 | 101 |
| 3 | Paungde | 96 | 77 | %08 | 0 | %0 | %08 | 10 | 10% | 1 | 1% | 3 | 3% | 2 | %9 | 96 |
| 4 | Padaung | 82 | 62 | %9 2 | 7 | %6 | 84% | 10 | 12% | 0 | %0 | 3 | 4% | 0 | %0 | 82 |
| 2 | Shwedaung | 88 | 26 | 64% | 15 | 17% | 81% | 9 | 10% | 0 | %0 | 7 | 8% | 1 | 1% | 88 |
| 9 | Thegon | 76 | 59 | 78% | 4 | 2% | 83% | 2 | 3% | 2 | 3% | 8 | 11% | 1 | 1% | 76 |
| 7 | Tharyarwady | 172 | 147 | 82% | 0 | %0 | % 28 | 13 | %8 | 6 | %9 | 2 | 1% | 1 | 1% | 172 |
| 8 | Zigon | 96 | 87 | 91% | 9 | %9 | %26 | 3 | %8 | 0 | %0 | 0 | %0 | 0 | %0 | 96 |
| 6 | Minhla | 96 | 81 | 84% | 5 | %9 | %06 | 5 | %9 | 4 | 4% | 0 | %0 | 1 | 1% | 96 |
| 10 | Moenyo | 84 | 68 | 81% | 2 | 2% | 83% | 9 | 11% | 4 | 2% | 0 | %0 | 1 | 1% | 84 |
| 1 | Okpo | 96 | 90 | 94% | 0 | %0 | 94% | 9 | %9 | 0 | %0 | 0 | %0 | 0 | %0 | 96 |
| 12 | Gyobingauk | 101 | 89 | 88% | 1 | 1% | 89% | 7 | 7% | 0 | %0 | 2 | 2% | 7 | 2% | 101 |
| 13 | Nattalin | 145 | 113 | 78% | 14 | 10% | 88% | 12 | 8% | 2 | 1% | 4 | 3% | 0 | %0 | 145 |
| 14 | Latpadan | 195 | 136 | %02 | 27 | 14% | 84% | 18 | %6 | 1 | 1% | 12 | %9 | _ | 1% | 195 |
| | Total | 1716 | 1367 | %08 | 85 | %9 | 85% | 143 | %8 | 42 | 2% | 22 | 3% | 22 | 1% | 1716 |

| Mon State 1 Mawlamyaing 340 2 Chanungzon 67 3 Kyaikmaraw 146 4 Mudon 166 5 Thanbyuzayat 158 6 Ye 158 7 Thaton 209 9 Kyaikto 133 10 Paung 44 Askhine State 51 2 Ann 97 2 Ann 91 4 Rambye 56 5 Maungdaw 193 6 Buthidaung 326 7 Rathedaung 106 8 Sittwe 326 9 Kyauktaw 148 10 Minbya 148 11 Myebon 66 12 Myebon 66 13 Pauktaw 91 14 Ponnagyun 84 15 Thandwe 53< | N N | | | No | 0,40 | | No | Doto | CI4 | Doto | - 14 | -1-0 | No | Rate | 2.5 |
|--|--------|------|------------|-----|------|------------|-----|------|-----|------|--------|------|----|------|------------|
| Mon State Mawlamyaing 3 Chanungzon Kyaikmaraw 1 Mudon 11 Thanbyuzayat 11 Ye 11 Thaton 2 Belin 2 Ryaikto 11 Paung 11 Rakhine State Kyaukphyu 4 Ann Manaung 7 Buthidaung 3 Kyauktaw 11 Minbya 11 Minbya 11 Myaukoo 11 | | | <u>წ</u> | | שמ | TSR | 2 | Rate | 02 | אמני | o N | Kate | 2 | 25 | eva. Pts. |
| Mawlamyaing 3 Chanungzon Kyaikmaraw 1 Mudon 11 Thanbyuzayat 1 Ye 11 Thaton 2 Belin 2 Belin 2 Belin 2 Ryaikto 11 Manaung 11 Manaung 11 Rathedaung 3 Rathedaung 3 Kyauktaw 11 Minbya 11 Minbya 11 Myaukoo 11 | | | | | | | | | | | | | | | |
| Nawiamyang Nawiamyang Chanungzon Kyaikmaraw I Thanbyuzayat Ye Thaton Paung Rakhine State Kyaukphyu Ann Manaung Rambye Manaung Rambye Manungdaw I Ann Manaung Rathedaung Sittwe Sittwe Ninbya Myaukoo I Myaukoo I Myaukoo I Myaukoo I Thandwe Pauktaw Pauktaw Pauktaw Pauktaw Pauktaw Pauktaw Pauktaw Ponnagyun I Thandwe | | 1 | ,676 | , | ,00 | ,010 | 7 | 707 | C | ,0,7 | , | Č | | ,00 | 0.70 |
| Chanungzon Kyaikmaraw Mudon Thanbyuzayat Thaton Zelein Zelein Zelein Ann Manaung Rakhine State Kyaukphyu Ann Manaung Rambye Maungdaw Total Ann Manaung Rathedaung Sittwe Sittwe Sittwe Ayauktaw Myaukoo Myaukoo Thandwe Thandwe Gawa | | 117 | %1% | 19 | %9 | 87% | 13 | 4% | .v | 1% | 18 | 9% | 10 | 3% | 340 |
| Kyaikmaraw1Mudon1Thanbyuzayat1Ye1Thaton2Belin2Kyaikto1Paung1Rakhine State1Kyaukphyu1AnnManaung3Rambye1Manungdaw1Rathedaung3Rathedaung3Kyauktaw1Minbya1Myaukoo1Myaukoo1Myauktaw1PauktawPonnagyunThandwe1Gawa1 | 29 | 52 | 78% | 5 | 7% | 85% | 6 | 9% | 2 | 3% | 1 | 1% | 1 | 1% | 29 |
| Mudon 1 Thanbyuzayat 1 Ye 1 Thaton 2 Belin 2 Kyaikto 1 Paung 1 Rakhine State 1 Kyaukphyu 1 Ann Ann Manaung 1 Buthidaung 3 Rathedaung 3 Kyauktaw 1 Myaukoo 1 Myaukoo 1 Myauktaw 1 Pauktaw Ponnagyun Thandwe 1 Gwa 1 | 146 | 107 | 73% | 23 | 16% | %68 | 11 | %8 | 2 | 1% | 3 | 2% | 0 | %0 | 146 |
| Thanbyuzayat 1 Ye | 166 | 140 | 84% | 2 | 1% | %98 | 9 | 4% | 2 | 1% | 16 | 10% | 0 | %0 | 166 |
| Ye 1 Thaton 2 Belin 2 Kyaikto 1 Paung 1 Rakhine State 1 Kyaukphyu 1 Ann Manaung Rambye 1 Maungdaw 1 Sittwe 3 Kyauktaw 1 Minbya 1 Myebon 1 Pauktaw 1 Ponnagyun 1 Thandwe 1 Gwa 1 | | 113 | 84% | 0 | %0 | 84% | 11 | 8% | 2 | 4% | 2 | 1% | 3 | 2% | 134 |
| Thaton Ealin Ealin Ealin Ealin Ealin Eakhine State Eakhine State Eakhine State Eakhine State Eakhine State Eakhing Eathidaung Eathida | 159 | 92 | 28% | 13 | 8% | %99 | 18 | 11% | 14 | %6 | 21 | 13% | _ | 1% | 159 |
| Belin 2 Kyaikto 1 Paung 1 Rakhine State 1 Kyaukphyu 1 Ann Manaung 1 Maungdaw 1 1 Rathedaung 3 3 Ryauktaw 1 1 Myaukoo 1 1 Myaukoo 1 1 Myaukow Pauktaw Pauktaw Ponnagyun Thandwe Thandwe Gwa Thandwe 1 | | 224 | %08 | 6 | 3% | 83% | 20 | 7% | 6 | 3% | 11 | 4% | 8 | 3% | 281 |
| Ryaikto 1 Paung 11 Rakhine State Kyaukphyu Ann Manaung Rambye Maungdaw 1 Buthidaung 3 Rathedaung 3 Kyauktaw 1 Minbya 11 Myaukoo 11 Myaukoo 11 Myaukoo 11 Myaukoo 11 Myaukoo 11 Myaukoo 11 | | 183 | %88 | 7 | 3% | 91% | 8 | 4% | က | 1% | 7 | 3% | _ | %0 | 209 |
| Rakhine State Kyaukphyu Ann Manaung Rambye Maungdaw I Buthidaung Sittwe Sittwe Minbya Minbya Minbya Minbya Minbya Minbya Thandwe Thandwe Gawa | 133 | 112 | 84% | 6 | 2% | 91% | 2 | 2% | 2 | 2% | 5 | 4% | 3 | 2% | 133 |
| Rakhine State Kyaukphyu Ann Manaung Rambye Maungdaw Buthidaung Sittwe Sittwe Sittwe Myebon Pauktaw Pauktaw Thandwe Thandwe Gawa | 165 | 150 | 91% | 0 | %0 | 91% | 6 | 4% | 1 | 1% | 0 | 0% | 8 | 5% | 165 |
| Rakhine State Kyaukphyu Ann Manaung Rambye Maungdaw 1 Buthidaung 3 Rathedaung 3 Kyauktaw 1 Minbya Minbya 1 Myaukoo 1 Myaukoo 1 Myaukoo 1 Thandwe 1 Thandwe Gawa | | 1450 | 81% | 87 | 2% | 85% | 101 | %9 | 43 | 2% | 84 | 5% | 35 | 2% | 1800 |
| Kyaukphyu Ann Manaung Rambye Maungdaw Buthidaung Sittwe Sittwe Minbya Minbya Myebon Pauktaw Pauktaw Thandwe Gawa | | | | | | | | | | | | | | | |
| Ann Manaung Rambye Maungdaw Buthidaung Sittwe Sittwe Myebon Myebon Pauktaw Ponnagyun Thandwe Gawa | 26 | 26 | %19 | 16 | 16% | %22 | 7 | %/ | 3 | 3% | 7 | %2 | 2 | 2% | 26 |
| ManaungRambye1Maungdaw1Buthidaung3Rathedaung1Sittwe3Kyauktaw1Minbya1Myebon1PauktawPauktawPonnagyun1Thandwe1Gwa | 51 | 22 | 43% | 12 | 24% | %29 | 0 | %0 | 1 | 2% | 14 | 27% | 2 | 4% | 12 |
| Rambye Maungdaw 1 Buthidaung 3 Rathedaung 3 Kyauktaw 1 Minbya 1 Myaukoo 1 Myebon Pauktaw Ponnagyun Thandwe Gawa | 44 | 44 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | 0% | 0 | 0% | 7 7 |
| Maungdaw Buthidaung 3 Rathedaung 3 Sittwe 3 Kyauktaw 1 Minbya 1 Myaukoo 1 Myebon 7 Pauktaw 7 Pauktaw 6 Thandwe 1 | 26 | 40 | 71% | 3 | 2% | 77% | 5 | 9% | 5 | 9% | 1 | 2% | 2 | 4% | 99 |
| Buthidaung 3 Rathedaung 1 Sittwe 3 Kyauktaw 1 Minbya 1 Myebon 7 Myebon Pauktaw Ponnagyun Thandwe 1 | 193 | 117 | 61% | 51 | 76% | 87% | 14 | 7% | 6 | 2% | 2 | 1% | 0 | 0% | 193 |
| Rathedaung 1 Sittwe 3 Kyauktaw 1 Minbya 1 Myebon Pauktaw Ponnagyun Thandwe 1 | | 267 | 83% | 28 | %6 | 92% | 27 | 8% | 0 | %0 | 0 | 0% | 0 | 0% | 322 |
| Sittwe 3 Kyauktaw 1 Minbya 1 Myaukoo 1 Myebon Pauktaw Ponnagyun Thandwe 1 | 106 | 98 | 81% | 6 | 8% | 90% | 3 | 3% | 0 | %0 | 8 | 8% | 0 | 0% | 106 |
| Kyauktaw 1 Minbya 1 Myaukoo 1 Myebon Pauktaw Ponnagyun Thandwe 1 | 326 | 219 | %29 | 45 | 14% | 81% | 18 | %9 | 18 | %9 | 21 | 6% | 5 | 2% | 326 |
| Minbya 1 Myaukoo 1 Myebon Pauktaw Ponnagyun Thandwe 1 | 182 | 172 | %26 | 4 | 2% | 97% | 1 | 1% | 0 | %0 | 5 | 3% | 0 | 0% | 182 |
| Myebon Pauktaw Ponnagyun Thandwe Gawa | 148 | 125 | 84% | 4 | 3% | 87% | 8 | 2% | 2 | 3% | 4 | 3% | 2 | 1% | 148 |
| Myebon Pauktaw Ponnagyun Thandwe Gwa | 191 | 173 | 91% | 0 | %0 | 91% | 14 | 7% | 0 | %0 | 4 | 2% | 0 | 0% | 191 |
| Pauktaw Ponnagyun Thandwe Gwa | 99 | 26 | 39% | 26 | 39% | 79% | 4 | %9 | 0 | %0 | 10 | 15% | 0 | 0% | 99 |
| Ponnagyun Thandwe 1 | 91 | 28 | 31% | 29 | 32% | 63% | 3 | 3% | 1 | 1% | 30 | 33% | 0 | 0% | 91 |
| Thandwe Gwa | 84 | 99 | %62 | 15 | 18% | 96% | 1 | 1% | _ | 1% | _ | 1% | 0 | 0% | 84 |
| Gwa | 110 | 06 | 85% | 5 | 2% | 86% | 9 | 8% | 0 | %0 | 4 | 4% | 2 | 2% | 110 |
| Ď | 53 | 48 | 91% | 0 | %0 | 91% | 5 | %6 | 0 | %0 | 0 | 0% | 0 | 0% | 53 |
| 17 Taungup 108 | 108 | 71 | %99 | 16 | 15% | 81% | 7 | 6% | 1 | 1% | 10 | 9% | 3 | 3% | 108 |
| Total 2228 | | 1653 | 74% | 263 | 12% | %98 | 126 | %9 | 44 | 2% | 121 | %9 | 21 | 1% | 2228 |

| ΰ | Townshine | Dog Dto | اً ا | 702 | Com | Completed | | | Diod | <u>г</u> | Foilire | 1 | Dofultod | Trancf | Transferod out | Total |
|----|-----------------|---------|------|------------|-----|-----------|------------|-----|------|----------|---------|--------|----------|--------|----------------|-----------|
| Š. | | | | | 2 | Rate | TSR | 2 | Rate | 2 | Rate | 2 S | Rate | 2 | Rate | eva. Pts. |
| | | | 2 | | | | | 2 | | ? | | | | ? | | |
| | Yangon Division | | | | | | | | | | | | | | | |
| | East District | 3 | 3 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 3 |
| _ | Botataung | 22 | 48 | 87% | _ | 2% | %68 | 1 | 2% | 3 | 2% | _ | 2% | _ | 2% | 55 |
| 7 | Dawbon | 145 | 141 | %26 | 0 | %0 | %26 | 4 | 3% | 0 | %0 | 0 | %0 | 0 | %0 | 145 |
| 3 | Dagon(N) | 272 | 224 | 85% | 11 | %4 | %98 | 15 | %9 | 9 | 2% | 11 | 4% | 2 | 2% | 272 |
| 4 | Dagon(S) | 617 | 460 | 75% | 30 | 2% | %62 | 33 | 2% | 39 | %9 | 49 | 8% | 9 | 1% | 617 |
| 2 | MingalarTN | 165 | 144 | 87% | 1 | 1% | %88 | 7 | 4% | 10 | %9 | 1 | 1% | 2 | 1% | 165 |
| 9 | Okkala(N) | 296 | 257 | 87% | 3 | 1% | %88 | 11 | 4% | 10 | 3% | 13 | 4% | 2 | 1% | 296 |
| 7 | Okkala(S) | 207 | 182 | %88 | 0 | %0 | %88 | 10 | 2% | 8 | 4% | 7 | 3% | 0 | %0 | 207 |
| ω | Tharkata | 437 | 372 | 85% | 26 | %9 | 91% | 20 | 2% | 3 | 1% | 12 | 3% | 4 | 1% | 437 |
| 6 | Thingangyun | 226 | 192 | 85% | 1 | %0 | 85% | 16 | %2 | 6 | 4% | 9 | 3% | 2 | 1% | 226 |
| 10 | Yankin | 146 | 130 | %68 | 4 | %8 | 95% | 5 | 3% | 2 | 1% | 1 | 1% | 4 | 3% | 146 |
| 11 | Tarmwe | 119 | 102 | %98 | 2 | 7% | %28 | 2 | 2% | 10 | %8 | 1 | 1% | 2 | 2% | 119 |
| 12 | Pazundaung | 52 | 47 | %06 | _ | 2% | 95% | _ | 2% | _ | 2% | _ | 2% | _ | 2% | 52 |
| 13 | Dagon(E) | 219 | 190 | %28 | 4 | 7% | %68 | 7 | 3% | 8 | 4% | 6 | 4% | 1 | %0 | 219 |
| 14 | Dagon Seikkan | 109 | 85 | 78% | 7 | %9 | 84% | 5 | %9 | 0 | %0 | 10 | %6 | 2 | 2% | 109 |
| | Total | 3068 | 2577 | 84% | 91 | 3% | 87% | 137 | 4% | 109 | 4% | 122 | 4% | 32 | 1% | 3068 |
| | West District | | | | | | | | | | | | | | | |
| - | Kamayut | 72 | 20 | %69 | 6 | 13% | 85% | 4 | %9 | 2 | %2 | 2 | 3% | 2 | 3% | 72 |
| 2 | Kyauktaga | 27 | 24 | %68 | 2 | %2 | %96 | 0 | %0 | 0 | %0 | 1 | 4% | 0 | %0 | 27 |
| က | Kyeemyintdaing | 125 | 98 | 78% | 0 | %0 | 78% | 10 | %8 | 13 | 10% | 2 | 2% | 7 | 2% | 125 |
| 4 | Sanchaung | 110 | 96 | %98 | 2 | 7% | %88 | 4 | 4% | 4 | 4% | 3 | 3% | 2 | 2% | 110 |
| 2 | Seikkan | 4 | 4 | 100% | 0 | %0 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 4 |
| 9 | Dagon | 31 | 27 | 87% | 0 | %0 | 87% | 2 | %9 | 1 | 3% | 0 | %0 | 1 | 3% | 31 |
| 7 | Pabadan | 28 | 23 | 82% | 0 | %0 | 82% | 1 | 4% | 4 | 14% | 0 | %0 | 0 | %0 | 28 |
| 8 | Bahan | 66 | 81 | 82% | 6 | %6 | 91% | 3 | 3% | 0 | %0 | 3 | 3% | 3 | 3% | 66 |
| 6 | Mayangon | 231 | 199 | %98 | 10 | 4% | %06 | 9 | 4% | 7 | 3% | 2 | 1% | 4 | 2% | 231 |
| 10 | Latha | 30 | 21 | 40% | 0 | %0 | 40% | 1 | 3% | 4 | 13% | 3 | 10% | _ | 3% | 30 |
| 7 | Lanmadaw | 27 | 23 | 85% | 1 | 4% | 89% | 2 | 7% | 1 | 4% | 0 | %0 | 0 | %0 | 27 |
| 12 | Hlaing | 242 | 207 | %98 | 13 | 2% | 91% | 8 | 3% | 8 | 3% | 2 | 1% | 4 | 2% | 242 |
| 13 | Ahlone | 78 | 54 | %69 | 14 | 18% | 87% | 5 | %9 | 3 | 4% | 2 | 3% | 0 | %0 | 78 |
| | Total | 1104 | 906 | 82% | 60 | 2% | 88% | 49 | 4% | 50 | 2% | 20 | 2% | 19 | 2% | 1104 |

| | Townships | Reg. Pts. | Cur | ured | Comp | Completed | | Died | ğ | Fai | Failure | Defa | Defaulted | Transf | Transfered out | Total |
|-------------|-------------------|-----------|------|------------|------|-----------|-----|------|------|-----|---------|------|-----------|--------|----------------|-----------|
| No. | |) | No | CR | No | Rate | TSR | No | Rate | No | Rate | No | Rate | No | Rate | eva. Pts. |
| | South District | | | | | | | | | | | | | | | |
| ~ | Seikkyikhanaungto | 45 | 39 | 87% | 3 | %2 | 93% | 0 | %0 | 3 | 7% | 0 | %0 | 0 | %0 | 45 |
| 2 | Dallah | 155 | 119 | 77% | 7 | 2% | 81% | 12 | 8% | 9 | 4% | 11 | 7% | 0 | %0 | 155 |
| 3 | Cocogyun | 0 | | | | | | | | | | | | | | 0 |
| 4 | Kawhmu | 88 | 83 | 93% | _ | 1% | 94% | က | 3% | 0 | %0 | 2 | 2% | 0 | %0 | 89 |
| 2 | Kyauktan | 130 | 101 | 78% | 18 | 14% | 95% | 9 | 2% | က | 2% | _ | 1% | 7 | 1% | 130 |
| 9 | Kungyangone | 102 | 85 | 83% | 4 | 4% | 87% | 7 | 7% | 2 | 2% | 4 | 4% | 0 | %0 | 102 |
| 7 | Kayan | 150 | 138 | 92% | 3 | 2% | 94% | 80 | 2% | 0 | %0 | 0 | 0% | _ | 1% | 150 |
| 8 | Twantay | 179 | 147 | 82% | 15 | 8% | 91% | 80 | 4% | 4 | 2% | 5 | 3% | 0 | %0 | 179 |
| 6 | Thonegwa | 112 | 93 | 83% | 11 | 10% | 93% | 4 | 4% | _ | 1% | 2 | 2% | 7 | 1% | 112 |
| 10 | Thanlyin | 296 | 237 | 80% | 21 | 7% | 87% | 12 | 4% | 7 | 2% | 17 | 6% | 2 | 1% | 296 |
| | Total | 1258 | 1042 | 83% | 83 | 7% | 89% | 09 | 2% | 26 | 2% | 42 | 3% | 5 | 0% | 1258 |
| | North District | | | | | • | | | | | | | | | | |
| ~ | Mingalardon | 536 | 385 | 72% | 75 | 14% | 86% | 25 | 2% | 11 | 2% | 28 | 5% | 12 | 2% | 536 |
| 2 | Shwepyithar | 395 | 243 | 62% | 100 | 25% | 87% | 12 | 3% | 2 | 1% | 27 | 7% | 80 | 2% | 395 |
| က | Hlaingtharyar | 1011 | 942 | 93% | 19 | 2% | 95% | 17 | 2% | 4 | 1% | 19 | 2% | 0 | %0 | 1011 |
| 4 | Insein | 582 | 434 | 75% | 29 | 12% | 86% | 31 | 2% | 26 | 4% | 19 | 3% | 2 | 1% | 582 |
| 2 | Taikkyi | 240 | 204 | 85% | 0 | %0 | 85% | 32 | 13% | က | 1% | ~ | 0% | 0 | %0 | 240 |
| 9 | Htantabin | 66 | 78 | %62 | 11 | 11% | %06 | 2 | 2% | 2 | 2% | 9 | 9% | 0 | %0 | 66 |
| 7 | Hmawbi | 238 | 201 | 84% | 11 | 2% | 89% | 7 | 3% | 10 | 4% | 7 | 3% | 2 | 1% | 238 |
| ∞ | Hlegu | 174 | 167 | %96 | 0 | %0 | %96 | 2 | 3% | 2 | 1% | 0 | %0 | 0 | %0 | 174 |
| | U.T.I | 69 | 46 | %29 | 2 | 3% | 70% | ∞ | 12% | 0 | %0 | 1 | 16% | 2 | 3% | 69 |
| | NTP (Diagnostic) | 14 | 10 | 71% | 3 | 21% | 93% | 0 | %0 | 0 | 0% | 0 | 0% | 1 | 7% | 14 |
| | Total | 3358 | 2710 | 81% | 288 | 9% | 89% | 139 | 4% | 73 | 2% | 118 | 4% | 30 | 1% | 3358 |
| > | Yangon Division | 8788 | 7235 | 82% | 522 | %9 | 88% | 385 | 4% | 258 | 3% | 302 | 3% | 86 | 1% | 8788 |

| Sr. | Townships | Reg. Pts. | Cn | Cured | Com | Completed | | D | Died | Fai | Failure | Defa | Defaulted | Transf | Transfered out | Total |
|-----|----------------------|-----------|------|---------------------|-----|-----------|------------|-----|------|-----|---------|------|-----------|--------|----------------|-----------|
| No. | | | No | CR | No | Rate | TSR | No | Rate | No | Rate | No | Rate | No | Rate | eva. Pts. |
| | Ayeyarwaddy Division | uo | | | | | | | | | | | | | | |
| | 1 Pathein | 516 | 410 | %62 | 27 | 2% | 85% | 23 | 4% | 5 | 1% | 36 | %2 | 15 | 3% | 516 |
| . 4 | 2 Kanyidaung | 39 | 37 | %56 | 2 | 2% | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 39 |
| ., | 3 Yekyi | 150 | 113 | 75% | 17 | 11% | 87% | 12 | 8% | 0 | %0 | 8 | 2% | 0 | %0 | 150 |
| 7 | 4 Kyaunggon | 121 | 63 | % <i>LL</i> | 13 | 11% | %88 | 5 | 4% | 9 | 2% | 4 | 3% | 0 | %0 | 121 |
| 7 | 5 Kyonpyaw | 142 | 127 | %68 | 7 | 1% | 91% | 8 | %9 | 0 | %0 | 5 | 4% | 0 | %0 | 142 |
| • | 6 Ngaputaw | 202 | 146 | 72% | 98 | 18% | %06 | 11 | 2% | 1 | %0 | 8 | 4% | 0 | %0 | 202 |
| | 7 Thabaung | 103 | 80 | %82 | 10 | 10% | 87% | 5 | 2% | 4 | 4% | 2 | 2% | 2 | 2% | 103 |
| ~ | 8 Hinhada | 493 | 391 | %6 <i>L</i> | 47 | 10% | %68 | 24 | 2% | 0 | %0 | 22 | 4% | 6 | 2% | 493 |
| 5, | 9 Kyankin | 92 | 77 | 84% | 6 | 10% | 93% | 2 | 2% | 0 | %0 | 4 | 4% | 0 | %0 | 92 |
| 1(| 10 Myanaung | 150 | 135 | %06 | 0 | %0 | %06 | 12 | %8 | 0 | %0 | 2 | 1% | 1 | 1% | 150 |
| 1, | 11 Ingapu | 197 | 166 | 84% | 8 | 4% | %88 | 10 | 2% | 0 | %0 | 11 | %9 | 2 | 1% | 197 |
| 12 | 12 Zalun | 192 | 141 | % £ <i>L</i> | 19 | 10% | 83% | 8 | 4% | 1 | 1% | 23 | 12% | 0 | %0 | 192 |
| 15 | 13 Laymtethna | 77 | 67 | 81% | 0 | %0 | 87% | 5 | %9 | 2 | 3% | 3 | 4% | 0 | 0% | 77 |
| 12 | 14 Myaungmya | 275 | 241 | 88% | 21 | 8% | 95% | 8 | 3% | 2 | 1% | 3 | 1% | 0 | 0% | 275 |
| 11 | 15 Laputta | 242 | 209 | %98 | 0 | %0 | %98 | 25 | 10% | 1 | %0 | 2 | 2% | 2 | 1% | 242 |
| 16 | 16 Mawgyun | 227 | 160 | %0 <i>L</i> | 28 | 16% | 87% | 17 | %2 | 1 | %0 | 10 | 4% | 2 | 1% | 227 |
| 17 | 17 Wakema | 221 | 197 | %68 | 9 | 2% | 91% | 1 | %0 | 14 | %9 | 3 | 1% | 1 | %0 | 221 |
| 18 | 18 Einme | 113 | 88 | 78% | 5 | 4% | 82% | 7 | %9 | 1 | 1% | 10 | %6 | 2 | 2% | 113 |
| 18 | 19 Pyapon | 232 | 186 | 80% | 6 | 4% | 84% | 20 | %6 | 2 | 1% | 9 | 4% | 9 | 3% | 232 |
| 2(| 20 Bogalay | 302 | 205 | %89 | 32 | 11% | 78% | 45 | 15% | 0 | 0% | 20 | 7% | 0 | 0% | 302 |
| 2, | 21 Dedaye | 52 | 31 | %09 | 13 | 25% | 85% | 4 | 8% | 1 | 2% | 3 | %9 | 0 | 0% | 52 |
| 22 | 22 Kyaiklatt | 145 | 106 | 73% | 24 | 17% | %06 | 13 | %6 | 0 | 0% | 2 | 1% | 0 | 0% | 145 |
| 23 | 23 Maubin | 212 | 165 | 78% | 16 | 8% | 85% | 9 | 4% | 15 | 7% | 6 | 3% | 1 | 0% | 212 |
| 57 | 24 Nyaungdon | 109 | 97 | %68 | 0 | %0 | %68 | 11 | 10% | _ | 1% | 0 | %0 | 0 | %0 | 109 |
| 2, | 25 Pantanaw | 155 | 140 | %06 | 0 | %0 | %06 | 4 | 3% | 0 | %0 | 11 | %2 | 0 | %0 | 155 |
| 26 | 26 Danuphyu | 207 | 197 | 95% | 1 | %0 | %96 | 9 | 4% | 0 | %0 | 0 | %0 | 0 | %0 | 207 |
| | Total | 4966 | 4005 | 81% | 353 | %2 | %88 | 298 | %9 | 22 | 1% | 210 | 4% | 43 | 1% | 4966 |

Total eva. Pts.

Transfered out
No Rate e

Defaulted No Rate

N_o

Rate

S

Rate

ž

TSR

Rate

9

CR

2

Completed

Cured

Reg. Pts.

Townships

S. No.

| | | | | | | | | | | 1 | | | | | | |
|-------|-------------------------------------|------|------|-----|-----|-----|---------|-----|-----|-------|-----|-----|-----|-----|-----|--------|
| Other | Other reporting Units | | | | | | | | | | | | | | | |
| ~ | Aung San Hos: | 78 | 32 | 41% | | 1% | 42% | 10 | 13% | 7 | %6 | 17 | 22% | 1 | 14% | 78 |
| 7 | Patheingyi Hos: | 26 | 15 | 28% | ~ | 4% | 62% | | 12% | 0 | %0 | က | 12% | 4 | 15% | 26 |
| က | East YGH | 6 | 9 | %29 | 2 | 22% | 89% | | %0 | 0 | %0 | _ | 11% | 0 | %0 | 6 |
| 4 | Mingalardon Hos: | 102 | 09 | 29% | ~ | 1% | %09 | 37 | 36% | 7 | 2% | 0 | %0 | 2 | 2% | 102 |
| 5 | Wabargi Hosipital (N/Okkalapa) | 160 | 89 | 26% | 3 | 2% | 28% | 90 | 31% | 7 | 4% | 5 | 3% | 9 | 4% | 160 |
| 9 | No.1MBH (PyinOoLwin) | 99 | 55 | 83% | 0 | %0 | 83% | | 17% | 0 | %0 | 0 | %0 | 0 | %0 | 99 |
| 7 | 1000 bedded hospital (Naypyitaw) | 138 | 122 | %88 | 0 | %0 | %88 | 2 | 1% | ∞ | %9 | 5 | 4% | 7 | 1% | 138 |
| ∞ | AZG (Ygn) | 110 | 62 | 26% | 7 | %9 | 63% | 14 | 13% | 12 | 11% | 6 | 8% | 9 | 2% | 110 |
| 6 | AZG (Kachin) | 219 | 149 | %89 | 25 | 11% | %62 | 11 | 2% | 14 | %9 | 19 | %6 | 1 | %0 | 219 |
| 10 | PSI | 4098 | 2984 | 73% | 476 | 12% | 84% | 160 | 4% | 167 | 4% | 222 | 2% | 89 | 2% | 4098 |
| 7 | AZG (Shan-north) | 244 | 143 | 29% | 5 | 2% | 61% | 16 | %2 | 36 | 15% | 37 | 15% | 2 | 3% | 244 |
| 12 | AZG Rakhine | 4 | 3 | 75% | 0 | %0 | 75% | 1 | 25% | 0 | %0 | 0 | %0 | 0 | %0 | 4 |
| 13 | Thingangyun Sanpya Hospital | 0 | | | | | | | | | | | | | | 0 |
| 4 | Medecins du monde |), | 96 | 52% | C | %0 | بر م | 12 | 24% | C | %0 | 7 | 14% | ľ | 70% | , C |
| 15 | New YGH | 47 | 35 | 74% | 0 | %0 | 74% | | 11% | ο (6) | %9 | . 2 | 4% | 2 | 4% | 47 |
| 16 | West YGH | 0 | | | | | | | | | | | | | | 0 |
| 17 | AHRN (Shan North) | 4 | 3 | 75% | 0 | %0 | 75% | 0 | %0 | - | 25% | 0 | %0 | 0 | %0 | 4 |
| | Total | 5355 | 3784 | 71% | 521 | 10% | 80% | 332 | %9 | 257 | 2% | 327 | 6% | 134 | 0% | 5355 |

NATIONAL TUBERCULOSIS PROGRAMME TREATMENT OUTCOME OF SMEAR NEGATIVE TB PATIENTS (2008 COHORT)

| | State/ | | | | | SMEAR | NEGATIV | SMEAR NEGATIVE TB PATIENTS | IIENTS | | | | |
|------------|--|-----------------|-----------|--------------------|--------|-------|--------------------|-----------------------------|---------------|-------|----------|------|-------|
| 3 | Division | Total No | Completed | leted | Died | þ | Failure | nre | Defaulted | ulted | Transfer | sfer | Total |
| Sr.NO. | | Reg. pts | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | |
| 1 | Kachin State | 1347 | 1034 | %22 | 131 | 10% | 11 | 1% | 129 | 10% | 42 | 3% | 1347 |
| 2 | Kayah State | 166 | 122 | 73% | 19 | 11% | 1 | 1% | 18 | 11% | 9 | 4% | 166 |
| 3 | Chin State | 296 | 252 | %28 | 17 | %9 | 9 | 2% | 18 | %9 | 3 | 1% | 296 |
| 4 | Sagaing Division | 1925 | 1549 | %08 | 198 | 10% | 11 | 1% | 138 | %2 | 29 | 2% | 1925 |
| 2 | Magway Division | 2451 | 2040 | 83% | 222 | %6 | 2 | %0 | 137 | %9 | 47 | 2% | 2451 |
| 9 | Mandalay Division | 3420 | 2844 | 83% | 299 | %6 | 18 | 1% | 153 | 4% | 106 | 3% | 3420 |
| 7 | Shan State (South) | 745 | 225 | 74% | 20 | %6 | 9 | 1% | 86 | 13% | 19 | 3% | 745 |
| 8 | Shan State (East) | 340 | 276 | 81% | 20 | %9 | 2 | 1% | 34 | 10% | 8 | 2% | 340 |
| 6 | Shan State (North) | 1330 | 612 | 73% | 117 | %6 | 6 | 1% | 202 | 15% | 25 | 2% | 1330 |
| 10 | Kayin State | 1723 | 1355 | %62 | 74 | 4% | 2 | %0 | 227 | 13% | 9 | 4% | 1723 |
| 11 | Tanintharyi Division | 1862 | 1335 | 72% | 100 | 2% | 4 | %0 | 281 | 15% | 142 | 8% | 1862 |
| 12 | Bago (East) Division | 1585 | 1288 | 81% | 104 | %2 | 3 | %0 | 150 | %6 | 40 | 3% | 1585 |
| 13 | Bago (West) Division | 2038 | 1702 | 84% | 164 | 8% | 3 | %0 | 148 | %2 | 21 | 1% | 2038 |
| 14 | Mon State | 2793 | 2426 | 82% | 156 | %9 | 9 | %0 | 159 | %9 | 46 | 2% | 2793 |
| 15 | Rakhine State | 1568 | 1379 | %88 | 96 | %9 | 3 | %0 | 83 | %9 | 7 | %0 | 1568 |
| 16 | Yangon Division | 8057 | 7037 | 82% | 416 | 2% | 29 | 1% | 423 | 2% | 122 | 2% | 8057 |
| 17 | Ayeyarwaddy Division | 4247 | 3624 | 82% | 265 | %9 | 12 | %0 | 268 | %9 | 78 | 2% | 4247 |
| State | States & Divisions total | 35893 | 29792 | 83% | 2468 | %2 | 161 | %0 | 2666 | %2 | 806 | 2% | 35893 |
| ศร(-) 1B p | NS(-) 1B patients, Unknown HIV status (NTP) | 34678 | 29055 | 84% | 2155 | %9 | 141 | %0 | 2568 | %2 | 759 | 2% | 34678 |
| | Other Unit | 4853 | 3832 | %62 | 515 | 11% | 46 | 1% | 342 | %2 | 118 | 2% | 4853 |
| NS(-) TB F | NS(-) IB patients, Unknown HIV status (Other units) | 3503 | 2898 | 83% | 196 | %9 | 38 | 1% | 291 | 8% | 80 | 2% | 3503 |
| U | Union of Myanmar | 40746 | 33624 | 83% | 2983 | %2 | 207 | 1% | 3008 | %2 | 924 | 2% | 40746 |
| NS(-) TB F | NS(-) TB patients, unknown HIV status (Union) | 38181 | 31953 | 84% | 2351 | %9 | 179 | %0 | 2859 | %2 | 839 | 2% | 38181 |
| | | TREATN | MENT OU | OUTCOMES OF TB/HIV | OF TB/ | | PATIENTS IN | 2009 (2008 COHORT | 108 COH | ORT) | | | |
| | | | | | | SMEAR | NEGAT | NEGATIVE TB PATIENTS | ATIENTS | | | | |
| Sr.No. | Reporting units | Total No | Completed | leted | Died | þi | Failure | ure | Defaulted | ulted | Transfer | sfer | Total |
| | | 2,2 | - | 7,70 | VIV. | 77.0 | Į. | 2,70 | -14 | -1-0 | Į. | 2,70 | |

4% 3% Rate 47 38 No. 8% 4% Rate 98 51 No. Rate No. No. Rate 26% 313 319 No. Rate 61% %69 737 934 Reg. pts 1215 1350 Other Units

1215 1350 Annex-11

NATIONAL TUBERCULOSIS PROGRAMME TREATMENT OUTCOME OF RELAPSES (2008 COHORT)

| | State/ | | | | | | RE | RELAPSE C | CASES | | | | | | |
|---------|---|-------|---------|-------|----------|-----------|-----------|-----------|-------|---------|-----------|-------|---------|-----------------|-------|
| ŭ | Division | Total | Cu | Cured | Comp | Completed | Died | þe | Fai | Failure | Defaulted | ulted | Transfe | Transferred out | Total |
| 0 N. | | | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | |
| 1 | Kachin State | 109 | 78 | 72% | 13 | 12% | 7 | %9 | 7 | %9 | 4 | 4% | 0 | %0 | 109 |
| 2 | Kayah State | 18 | 11 | 61% | 3 | 17% | 1 | %9 | 0 | %0 | 2 | 11% | 1 | %9 | 18 |
| 3 | Chin State | 26 | 17 | 65% | 2 | 8% | 1 | 4% | 5 | 19% | 1 | 4% | 0 | %0 | 26 |
| 4 | Sagaing Division | 227 | 127 | 26% | 49 | 22% | 26 | 11% | 7 | 3% | 11 | 2% | 7 | 3% | 227 |
| 2 | Magway Division | 170 | 111 | %59 | 31 | 18% | 16 | %6 | 5 | 3% | 9 | 4% | 1 | 1% | 170 |
| 9 | Mandalay Division | 434 | 281 | 65% | 53 | 12% | 58 | 13% | 14 | 3% | 14 | 3% | 14 | 3% | 434 |
| 7 | Shan State (South) | 92 | 45 | 29% | 7 | %6 | 10 | 13% | 5 | 7% | 7 | %6 | 2 | 3% | 76 |
| 8 | Shan State (East) | 54 | 27 | 20% | 18 | 33% | 2 | 4% | 4 | 7% | 2 | 4% | 1 | 2% | 54 |
| 6 | Shan State (North) | 06 | 29 | %99 | 12 | 13% | 9 | %2 | 9 | %2 | 9 | %2 | 1 | 1% | 90 |
| 10 | Kayin State | 22 | 51 | %89 | 2 | 3% | 3 | 4% | 3 | 4% | 12 | 16% | 4 | 2% | 75 |
| 11 | Tanintharyi Division | 54 | 33 | 61% | 10 | 19% | 5 | %6 | 4 | 7% | 1 | 2% | 1 | 2% | 54 |
| 12 | Bago (East) Division | 232 | 162 | %02 | 21 | %6 | 24 | 10% | 7 | 3% | 12 | 2% | 9 | 3% | 232 |
| 13 | Bago (West) Division | 122 | 85 | %02 | 13 | 11% | 11 | %6 | 9 | 2% | 9 | 5% | 1 | 1% | 122 |
| 14 | Mon State | 171 | 123 | 72% | 12 | 7% | 15 | %6 | 5 | 3% | 9 | 5% | 7 | 4% | 171 |
| 15 | Rakhine State | 170 | 109 | 64% | 20 | 12% | 21 | 12% | 6 | 2% | 10 | %9 | 1 | 1% | 170 |
| 16 | Yangon Division | 1247 | 828 | %69 | 113 | %6 | 121 | 10% | 99 | 2% | 67 | 2% | 22 | 2% | 1247 |
| 17 | Ayeyarwaddy Division | 388 | 280 | 72% | 32 | %8 | 41 | 11% | 17 | 4% | 12 | 3% | 9 | 2% | 388 |
| Sta | States & Divisions total | 3663 | 2457 | %29 | 411 | 11% | 368 | 10% | 170 | 2% | 182 | 2% | 75 | 2% | 3663 |
| (relaps | (relapse) TB patients, Unknown HIV status (NTP) | 3596 | 2421 | %29 | 403 | 11% | 349 | 10% | 168 | 2% | 182 | 2% | 73 | 2% | 3596 |
| | Other Unit | 609 | 358 | 29% | 91 | 15% | 64 | 11% | 37 | %9 | 30 | 2% | 29 | 2% | 609 |
| (relaps | (relapse) TB patients, Unknown HIV status (Other) | 519 | 324 | 62% | 29 | 13% | 38 | 7% | 35 | %2 | 27 | 2% | 28 | 2% | 519 |
| | Union of Myanmar | 4272 | 2815 | %99 | 505 | 12% | 432 | 10% | 207 | 2% | 212 | 2% | 104 | 2% | 4272 |
| (relaps | (relapse) TB patients, unknown HIV status (Union) | 4115 | 2745 | %29 | 470 | 11% | 387 | %6 | 203 | 2% | 209 | 2% | 101 | 2% | 4115 |
| | | | TREATME | 뉟 | OUTCOMES | P | TB/HIV PA | PATIENTS | (2008 | COHORT | | | | | |

| | | | | | | | RE | RELAPSE CASES | ASES | | | | | • | |
|-----------------------------|----|--------|------|-----|-----|-----------|------|---------------|------|---------|------|-----------|---------|-----------------------|-------|
| Reporting units Total Cured | | Cured | ıred | | Com | Completed | Died | ed | Fai | Failure | Defa | Defaulted | Transfe | Transferred out Total | Total |
| No. Rate | | | Rate | | No. | Rate | No. | Rate No. | No. | Rate | No. | Rate | No. | Rate | |
| NTP 67 36 54% | 36 | | | % | 8 | 12% | 19 | 28% | 2 | 3% | 0 | %0 | 2 | 3% | 29 |
| Other Units 90 34 38% | | | | % | 24 | 27% | 26 | 29% | 2 | 2% | 3 | 3% | 1 | 1% | 06 |
| Total 157 70 45% | 02 | 70 45% | 45% | . 0 | 32 | 20% | 45 | 29% | 4 | 3% | 3 | 2% | 3 | 2% | 157 |

NATIONAL TUBERCULOSIS PROGRAMME
TREATMENT OUTCOME OF TREATMENT AFTER DEFAULT (2008 COHORT)

| | | | | | | | TREAT | TREATMINT AFTER DEFAULT | ER DEFA | ULT | | | | | |
|--------|---|-------|--------|------|---------|-----------|--------|-------------------------------|----------------|---------|------|-----------|----------|------|-------|
| 3 | State/ | TOTAL | Cul | ıred | Comp | Completed | ă | Died | Fai | Failure | Defa | Defaulted | Transfer | sfer | |
| Sr.NO. | Division | | No. | CR | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | lotai |
| 1 | Kachin State | 22 | 17 | %22 | 2 | %6 | 1 | %9 | 0 | %0 | 2 | %6 | 0 | %0 | 22 |
| 2 | Kayah State | 9 | 2 | 33% | 2 | 33% | 2 | 33% | 0 | %0 | 0 | %0 | 0 | %0 | 9 |
| 3 | Chin State | 1 | 1 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 1 |
| 4 | Sagaing Division | 28 | 13 | 46% | 2 | 25% | 2 | %2 | 2 | %4 | 4 | 14% | 0 | %0 | 28 |
| 2 | Magway Division | 35 | 19 | 54% | 11 | 31% | 2 | %9 | 0 | %0 | 3 | %6 | 0 | %0 | 35 |
| 9 | Mandalay Division | 18 | 7 | 39% | 5 | 28% | 3 | 17% | 0 | %0 | 3 | 17% | 0 | %0 | 18 |
| 7 | Shan State (South) | 11 | 9 | 22% | 0 | %0 | 1 | %6 | 0 | %0 | 3 | 27% | 1 | %6 | 11 |
| 8 | Shan State (East) | 8 | 1 | 13% | 2 | 25% | 4 | 20% | 0 | %0 | 0 | %0 | 1 | 13% | 8 |
| 6 | Shan State (North) | 30 | 18 | %09 | 4 | 13% | 5 | 17% | 2 | 7% | 0 | %0 | 1 | 3% | 30 |
| 10 | Kayin State | 8 | 4 | 20% | 1 | 13% | 1 | 13% | 0 | %0 | 1 | 13% | 1 | 13% | 8 |
| 11 | Tanintharyi Division | 11 | 4 | 36% | 4 | 36% | 0 | %0 | 0 | %0 | 0 | %0 | 3 | 27% | 11 |
| 12 | Bago (East) Division | 29 | 20 | %69 | 1 | 3% | 3 | 10% | 2 | 7% | 3 | 10% | 0 | %0 | 29 |
| 13 | Bago (West) Division | 12 | 5 | 42% | 2 | 17% | 3 | 25% | 0 | %0 | 2 | 17% | 0 | %0 | 12 |
| 14 | Mon State | 28 | 15 | 54% | 2 | 7% | 4 | 14% | 1 | 4% | 5 | 18% | 1 | 4% | 28 |
| 15 | Rakhine State | 32 | 17 | 53% | 7 | 22% | 4 | 13% | 1 | 3% | 3 | %6 | 0 | %0 | 32 |
| 16 | Yangon Division | 160 | 79 | 49% | 27 | 17% | 17 | 11% | 7 | 4% | 21 | 13% | 6 | %9 | 160 |
| 17 | Ayeyarwaddy Division | 51 | 34 | %29 | 6 | 18% | 4 | 8% | 0 | %0 | 4 | 8% | 0 | %0 | 51 |
| State | States & Divisions total | 490 | 262 | 53% | 86 | 18% | 56 | 11% | 15 | 3% | 54 | 11% | 17 | 3% | 490 |
| (TAD) | (TAD) TB patients, Unknown HIV status (NTP) | 483 | 261 | 54% | 84 | 17% | 52 | 11% | 15 | 3% | 54 | 11% | 17 | 4% | 483 |
| | Other Unit | 121 | 51 | 42% | 16 | 13% | 20 | 17% | 9 | 2% | 21 | 17% | 2 | %9 | 121 |
| (TAD) | (TAD) TB patients, Unknown HIV status (Other units) | 102 | 45 | 44% | 14 | 14% | 12 | 12% | 9 | %9 | 19 | 19% | 9 | %9 | 102 |
| ח | Union of Myanmar | 611 | 313 | 21% | 102 | 17% | 92 | 12% | 21 | 3% | 75 | 12% | 24 | 4% | 611 |
| (TAD) | (TAD) TB patients, unknown HIV status (Union) | 585 | 306 | 92% | 86 | 17% | 64 | 11% | 21 | 4% | 73 | 12% | 23 | 4% | 585 |
| | | | TREATI | MENT | OUTCOME | OF TB/HIV | | PATIENTS | (2008 C | COHORT | | | | | |
| | | | | | | TRE | EATMEN | TREATMENT AFTER DEFAULT CASES | JEFAULT | CASES | | | | | |
| ů | Reporting units | TOTAL | Cur | ıred | Comp | Completed | ΟĬ | Died | Fai | ailure | Defa | Defaulted | Transfer | sfer | Total |
| 5 | | | No. | CR | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | - Cla |
| _ | NTP | 7 | _ | 14% | 2 | 29% | 4 | 21% | 0 | %0 | 0 | %0 | 0 | %0 | 7 |
| 7 | Other Units | 19 | 9 | 32% | 2 | 11% | 80 | 42% | 0 | %0 | 2 | 11% | 1 | 2% | 19 |

NATIONAL TUBERDULOSIS PROGRAMME TREATMENT OUTCOME OF TREATMENT AFTER FAILURE (2008 COHORT)

| | | | | | | | TRE, | TREATMENT AFTER FAILURE | TER FAIL | URE | | | | | |
|----------|---|-------|----------|-------|------------------|---------|-----------|-------------------------|----------|--|------|-----------|------|----------|--------|
| 3 | State/ | TOTAL | Cn | Cured | Completed | leted | ۵ | Died | Fai | Failure | Defa | Defaulted | Trai | Transfer | - - |
| | Division | | No. | CR | .oN | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | וסומו |
| 1 | Kachin State | 09 | 47 | 78% | 0 | %0 | 0 | %0 | 9 | 10% | 9 | 10% | 1 | 2% | 09 |
| 2 | Kayah State | 10 | 4 | 40% | 2 | 20% | 1 | 10% | 1 | 10% | 1 | 10% | 1 | 10% | 10 |
| 3 | Chin State | 1 | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 1 | %0 | 1 |
| 4 | Sagaing Division | 80 | 20 | 63% | 6 | 11% | 10 | 13% | 4 | 2% | 4 | 2% | 3 | 4% | 80 |
| 2 | Magway Division | 49 | 30 | 61% | 3 | %9 | 5 | 10% | 1 | 2% | 6 | 18% | 1 | 2% | 49 |
| 9 | Mandalay Division | 40 | 21 | 23% | 5 | 13% | 3 | 8% | 4 | 10% | 2 | 2% | 5 | 13% | 40 |
| 7 | Shan State (South) | 21 | 12 | 21% | 1 | 2% | 0 | %0 | 2 | 10% | 5 | 24% | 1 | 2% | 21 |
| 8 | Shan State (East) | 5 | 2 | 40% | 1 | 20% | 0 | %0 | 1 | 20% | 1 | 20% | 0 | %0 | 5 |
| 6 | Shan State (North) | 26 | 19 | 73% | 0 | %0 | 0 | %0 | 4 | 15% | 2 | 8% | 1 | 4% | 26 |
| 10 | Kayin State | 6 | 4 | 44% | 0 | %0 | 0 | %0 | 5 | 26% | 0 | %0 | 0 | %0 | 6 |
| 11 | Tanintharyi Division | 26 | 13 | 20% | 7 | 27% | 3 | 12% | 2 | 8% | 1 | 4% | 0 | %0 | 26 |
| 12 | Bago (East) Division | 38 | 19 | 20% | 3 | 8% | 4 | 11% | 7 | 18% | 5 | 13% | 0 | %0 | 38 |
| 13 | Bago (West) Division | 35 | 25 | 71% | 1 | 3% | 4 | 11% | 3 | %6 | 2 | %9 | 0 | %0 | 35 |
| 14 | Mon State | 45 | 19 | 42% | 6 | 20% | 9 | 13% | 5 | 11% | 3 | 7% | 3 | 7% | 45 |
| 15 | Rakhine State | 40 | 24 | %09 | 3 | 8% | 4 | 10% | 3 | 8% | 5 | 13% | 1 | 3% | 40 |
| 16 | Yangon Division | 280 | 144 | 51% | 22 | 8% | 31 | 11% | 52 | 19% | 24 | %6 | 7 | 3% | 280 |
| 17 | Ayeyarwaddy Division | 50 | 25 | 20% | 7 | 14% | 7 | 14% | 5 | 10% | 2 | 10% | 1 | 2% | 20 |
| State | States & Divisions total | 815 | 458 | 26% | 73 | %6 | 78 | 10% | 105 | 13% | 75 | %6 | 26 | 3% | 815 |
| (TAF) | (TAF) TB patients, Unknown HIV status (NTP) | 803 | 453 | 26% | 20 | %6 | 75 | %6 | 105 | 13% | 75 | %6 | 25 | 3% | 803 |
| | Other Unit | 300 | 143 | 48% | 18 | %9 | 39 | 13% | 47 | 16% | 33 | 11% | 20 | 7% | 300 |
| (TAF) | (TAF) TB patients, Unknown HIV status (Other units) | 270 | 136 | 20% | 16 | %9 | 24 | %6 | 47 | 17% | 27 | 10% | 20 | 7% | 270 |
| ר | Union of Myanmar | 1115 | 601 | 54% | 91 | 8% | 117 | 10% | 152 | 14% | 108 | 10% | 46 | 4% | 1115 |
| (ТАF) ТВ | (TAF) TB patients, unknown HIV status (Union) | 1073 | 589 | 25% | 86 | 8% | 66 | %6 | 152 | 14% | 102 | 10% | 45 | 4% | 1073 |
| | | T | TREATMEN | | OUTCOME C | JF TB/H | IV PATI | ENTS IN | 2009 (2 | OF TB/HIV PATIENTS IN 2009 (2008 COHORT) | ORT) | | | | |
| | | | | | | | TREATMENT | ENT AFTER | FAILUR | FAILURE CASES | | | | | |
| r. | Reporting units | TOTAL | no | Cured | Completed | leted | ۵ | Died | Fai | Failure | Defa | Defaulted | Trai | Transfer | Total |
| | | | No. | CR | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | |
| ~ | NTP | 12 | 5 | 42% | 3 | 25% | 3 | 25% | 0 | %0 | 0 | %0 | 1 | 8% | 12 |
| 2 | Other Units | 30 | 7 | 23% | 2 | 7% | 15 | 20% | 0 | 0% | 9 | 20% | 0 | 0% | 30 |

NATIONAL TUBERCULOSIS PROGRAMME TREATMENT OUTCOME OF OTHER CASES (2008 COHORT)

| | State/ | | | | | | | OTHER | CASES | | | | | | |
|---------|--|-------|-------|--------|------|-----------|--------|---------|---------|--|-----------|-------|-------|--------------|-------|
| , V | Division | Total | Cur | red | Com | Completed | Di | Died | Fai | Failure | Defaulted | ılted | Trans | Transfer out | Total |
| | | | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | |
| 1 | Kachin State | 74 | 39 | 53% | 15 | 20% | 7 | %6 | 1 | 1% | 6 | 12% | ε | 4% | 74 |
| 2 | Kayah State | 22 | 2 | %6 | 18 | 82% | 1 | 2% | 0 | %0 | 0 | %0 | 1 | 5% | 22 |
| 3 | Chin State | 15 | 0 | %0 | 11 | 73% | 0 | %0 | 0 | %0 | 3 | 20% | 1 | 7% | 15 |
| 4 | Sagaing Division | 86 | 15 | 17% | 52 | %09 | 12 | 14% | 0 | %0 | 4 | 2% | 3 | 3% | 86 |
| 5 | Magway Division | 256 | 0 | 0% | 205 | 80% | 27 | 11% | 1 | %0 | 15 | %9 | 8 | 3% | 256 |
| 9 | Mandalay Division | 348 | 18 | 5% | 249 | 72% | 52 | 15% | 1 | %0 | 15 | 4% | 13 | 4% | 348 |
| 7 | Shan State (South) | 15 | 3 | 20% | 9 | 40% | 1 | %2 | 2 | 13% | 1 | 7% | 2 | 13% | 15 |
| 8 | Shan State (East) | 18 | 1 | %9 | 11 | 61% | 0 | %0 | 1 | %9 | 5 | 28% | 0 | %0 | 18 |
| 6 | Shan State (North) | 40 | 6 | 23% | 18 | 45% | 3 | 8% | 0 | %0 | 10 | 25% | 0 | 0% | 40 |
| 10 | Kayin State | 5 | 1 | 20% | 0 | %0 | 1 | 20% | 0 | %0 | 2 | 40% | 1 | 20% | 2 |
| 11 | Tanintharyi Division | 92 | 2 | 7% | 45 | 26% | 7 | %6 | 0 | %0 | 5 | 4.2 | 14 | 18% | 26 |
| 12 | Bago (East) Division | 28 | 11 | 39% | 6 | 32% | 7 | 25% | 0 | %0 | 1 | 4% | 0 | %0 | 28 |
| 13 | Bago (West) Division | 11 | 3 | 27% | 9 | 22% | 1 | %6 | 0 | %0 | 1 | %6 | 0 | 0% | 11 |
| 14 | Mon State | 27 | 3 | 11% | 19 | %02 | 3 | 11% | 0 | %0 | 1 | 4% | 1 | 4% | 27 |
| 15 | Rakhine State | 20 | 0 | 0% | 14 | %02 | 2 | 10% | 1 | 2% | 3 | 15% | 0 | 0% | 20 |
| 16 | Yangon Division | 776 | 102 | 13% | 501 | %59 | 87 | 11% | 16 | 2% | 52 | 7% | 18 | 2% | 776 |
| 17 | Ayeyarwaddy Division | 203 | 19 | 9% | 120 | 26% | 30 | 15% | 8 | 4% | 21 | 10% | 5 | 2% | 203 |
| State | States & Divisions total | 2020 | 231 | 11% | 1299 | 64% | 241 | 12% | 31 | 2% | 148 | 4% | 20 | 3% | 2020 |
| (Other) | (Other) TB patients, Unknown HIV status (NTP) | 1937 | 228 | 12% | 1253 | %59 | 213 | 11% | 31 | 2% | 143 | 7% | 69 | 4% | 1937 |
| | Other Unit | 613 | 16 | 3% | 354 | 28% | 139 | 23% | 19 | 3% | 52 | 8% | 33 | 2% | 613 |
| (Other) | (Other)TB patients, Unknown HIV status (Other units) | 393 | 15 | 4% | 228 | 28% | 61 | 16% | 15 | 4% | 45 | 11% | 29 | 7% | 393 |
| n | Union of Myanmar | 2633 | 247 | %6 | 1653 | %89 | 380 | 14% | 20 | 2% | 200 | %8 | 103 | 4% | 2633 |
| (Other) | (Other) TB patients, unknown HIV status (Union) | 2330 | 243 | 10% | 1481 | 64% | 274 | 12% | 46 | 2% | 188 | 8% | 86 | 4% | 2330 |
| | | | TRE/ | ATMENT | | OME OF | TB/HIV | PATIENT | S (2008 | OUTCOME OF TB/HIV PATIENTS (2008 COHORT | (| | | | |
| | | | | | | | | OTHER | CASES | | | | | | |
| Sr.No. | Reporting units | Total | Cured | pe. | Com | Completed | ۵ | Died | Fai | Failure | Defaulted | ılted | Trans | Transfer out | Total |
| | | | - | | | | - 14 | | - 14 | | - | , | | C | |

83 220 303

1% 2%

Rate

ġ

Rate 6% 3%

è.

Rate

No.

Rate

No.

Rate

Rate

No.

0% 2%

34% 35%

28 78

55% 57%

4% 0%

83 220 **303**

> Other Units Total

> > 0

N TP

No. 46

Annex-16

TREATMENT OUTCOME OF PRIMARY COMPLEX AND TB MENINGITIS (2008 COHORT) NATIONAL TUBERCULOSIS PROGRAMME

| | State/ | | PRIM | PRIMARY CON | COMPLEX | | | | | | | TBM | TB MENINGITIS | | |
|---------|---|-----------|----------|-------------|----------------|----------|-----------|----------|---------|---|----------|------------|--------------------|----------|-------|
| ů | Division | Total No. | Complete | leted | Died | Defa | Defaulted | Transfer | Total | Total No. Comple- | Comple- | Died | Defaulted | Transfer | Total |
| | | Reg. pts. | No | Rate | | No | Rate | out | | Reg. pts. | ted | | | | |
| 1 | 1 Kachin State | 216 | 205 | %56 | 4 | 3 | 1% | 5 | 216 | 9 | 9 | 0 | 0 | 0 | 9 |
| 2 | 2 Kayah State | 336 | 315 | %46 | 4 | 15 | 4% | 2 | 336 | 2 | 1 | 1 | 0 | 0 | 2 |
| 3 | 3 Chin State | 295 | 267 | 91% | 4 | 17 | %9 | 7 | 295 | 2 | 1 | 1 | 0 | 0 | 2 |
| 4 | 4 Sagaing Division | 2590 | 2495 | %96 | 15 | 48 | 2% | 32 | 2590 | 38 | 34 | 3 | 1 | 0 | 38 |
| 5 | 5 Magway Division | 1662 | 1594 | %96 | 16 | 25 | 2% | 27 | 1662 | 21 | 13 | 4 | 1 | 3 | 21 |
| 9 | 6 Mandalay Division | 2983 | 2874 | %96 | 24 | 63 | 2% | 22 | 2983 | 33 | 26 | 4 | 2 | 1 | 33 |
| 7 | 7 Shan State (South) | 513 | 465 | 91% | 11 | 34 | %2 | 3 | 513 | 8 | 8 | 3 | 1 | 1 | 8 |
| 8 | Shan State (East) | 291 | 271 | %86 | 0 | 19 | 7% | 1 | 291 | 8 | 9 | 1 | 1 | 0 | 8 |
| 6 | Shan State (North) | 487 | 430 | %88 | 7 | 41 | 8% | 6 | 487 | 27 | 11 | 7 | 8 | 1 | 27 |
| 10 | 10 Kayin State | 1006 | 881 | %88 | 1 | 102 | 10% | 22 | 1006 | 14 | 8 | 1 | 2 | 0 | 14 |
| 11 | 11 Tanintharyi Division | 2141 | 1753 | 85% | 75 | 254 | 12% | 59 | 2141 | 21 | 16 | 3 | 2 | 0 | 21 |
| 12 | 12 Bago (East) Division | 722 | 674 | 83% | 14 | 25 | 3% | 6 | 722 | 24 | 19 | 3 | 1 | 1 | 24 |
| 13 | 13 Bago (West) Division | 1029 | 985 | %96 | 9 | 31 | 3% | 7 | 1029 | 10 | 8 | 0 | 1 | 1 | 10 |
| 14 | 14 Mon State | 1611 | 1561 | %26 | 9 | 34 | 2% | 10 | 1611 | 3 | 2 | 0 | 1 | 0 | 3 |
| 15 | 15 Rakhine State | 929 | 643 | 95% | 12 | 21 | 3% | 0 | 676 | 33 | 23 | 7 | 1 | 2 | 33 |
| 16 | 16 Yangon Division | 3276 | 3181 | %26 | 16 | 58 | 2% | 21 | 3276 | 125 | 100 | 18 | 9 | 1 | 125 |
| 17 | 17 Ayeyarwaddy Division | 201 | 196 | %86 | 1 | 4 | 2% | 0 | 201 | 44 | 30 | 12 | 1 | 1 | 44 |
| State | States & Divisions total | 20035 | 18790 | 94% | 216 | 794 | 4% | 236 | 20035 | 419 | 307 | 89 | 32 | 12 | 419 |
| (PC+TBI | (PC+TBM) TB patients, Unknown HIV status (NTP) | 19997 | 18763 | 94% | 208 | 791 | 4% | 236 | 19997 | 402 | 300 | 61 | 30 | 11 | 402 |
| | Other Unit | 2622 | 2431 | %86 | 22 | 120 | %9 | 16 | 2622 | 17 | 10 | 4 | 3 | 0 | 17 |
| (PC+TBA | (PC+TBM) TB patients, Unknown HIV status (Other) | 2413 | 2267 | 94% | 15 | 116 | 2% | 15 | 2413 | 17 | 10 | 4 | 3 | 0 | 17 |
| n | Union of Myanmar | 22657 | 21221 | 94% | 271 | 914 | 4% | 252 | 22657 | 436 | 317 | 72 | 35 | 12 | 436 |
| (PC+TBI | (PC+TBM) TB patients, unknown HIV status (Union) | 22410 | 21030 | 94% | 223 | 907 | 4% | 251 | 22410 | 419 | 310 | 65 | 33 | 11 | 419 |
| | | | | TREATN | ATMENT OUTCOME | UTCO | | TB/HIV P | ATIENTS | OF TB/HIV PATIENTS IN 2009 (2008 COHORT | (2008 CC | HOR | Т) | | |
| | | | PRIMARY | | COMPLEX | | | | | | | TB N | TB MENINGITIS | | |
| Sr.No. | Reporting units | Total No. | Complete | leted | Died | Defa | | Transfer | Total | Total No. Comple- | Comple- | Died | Defaulted Transfer | Transfer | Total |
| | | Reg. pts. | No | Rate | | <u>و</u> | Rate | ont | | Reg. pts. | ted | | | ont | |
| 1 | 1 NTP | 38 | 27 | 71% | 8 | 3 | 8% | 0 | 38 | 17 | 7 | 7 | 2 | 1 | 17 |
| | | | | | | | | | • | | | | • | | |

2%

40

78%

164

209

2 Other Units

NATIONAL TUBERCULOSIS PROGRAMME TREATMENT OUTCOME OF EP TB PATIENTS (2008 COHORT)

| | State/ | | | | | | EP TB PATIENTS | ATIENTS | | | | | |
|-----------|--|-----------|-----------|-------------------|---------|----------|-----------------------|----------------|--|-------|-----|----------|-------|
| , | Division | Total No. | Completed | eted | Οį | Died | Failure | ure | Defaulted | ılted | Tra | Transfer | Total |
| ON . IO | | Reg. pts. | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | |
| 1 | Kachin State | 826 | 891 | 93% | 12 | 1% | 0 | %0 | 29 | 3% | 26 | %E | 928 |
| 2 | Kayah State | 0 | | | | | | | | | | | 0 |
| 3 | Chin State | 83 | 22 | %06 | 2 | 2% | 2 | 7% | 3 | 4% | 1 | 1% | 83 |
| 4 | Sagaing Division | 654 | 584 | 86% | 29 | 4% | 3 | %0 | 29 | 4% | 6 | 1% | 654 |
| 2 | Magway Division | 0 | | | | | | | | | | | 0 |
| 9 | Mandalay Division | 1097 | 086 | %68 | 71 | %9 | 4 | %0 | 18 | 2% | 24 | 2% | 1097 |
| 7 | Shan State (South) | 528 | 209 | 81% | 16 | %9 | 0 | %0 | 31 | 12% | 3 | 1% | 259 |
| 80 | Shan State (East) | 106 | 94 | %68 | 3 | 3% | 0 | %0 | 7 | %2 | 2 | 7% | 106 |
| 6 | Shan State (North) | 493 | 417 | 82% | 15 | 3% | 0 | %0 | 53 | 11% | 8 | 7% | 493 |
| 10 | Kayin State | 29 | 26 | %06 | 0 | %0 | 0 | %0 | 2 | 7% | 1 | 3% | 29 |
| 11 | Tanintharyi Division | 0 | | | | | | | | | | | 0 |
| 12 | Bago (East) Division | 540 | 424 | 84% | 23 | 4% | 0 | %0 | 54 | 10% | 6 | 7% | 540 |
| 13 | Bago (West) Division | 153 | 147 | %96 | 3 | 2% | 1 | 1% | 2 | 1% | 0 | %0 | 153 |
| 14 | Mon State | 12 | 45 | 88% | 3 | %9 | 2 | 4% | 1 | 2% | 0 | %0 | 51 |
| 15 | Rakhine State | 310 | 183 | 26% | 83 | 27% | 4 | 1% | 35 | 11% | 2 | 7% | 310 |
| 16 | Yangon Division | 1444 | 1319 | 91% | 48 | 3% | 8 | 1% | 43 | 3% | 26 | 7% | 1444 |
| 17 | Ayeyarwaddy Division | 998 | 732 | 82% | 61 | 7% | 2 | %0 | 53 | %9 | 18 | 2% | 866 |
| Sta | States & Divisions total | 7043 | 6156 | 81% | 369 | %9 | 26 | %0 | 360 | %9 | 132 | 2% | 7043 |
| EP TB pat | EP TB patients, Unknown HIV status (NTP) | 6394 | 5620 | 88% | 296 | 2% | 24 | %0 | 335 | 2% | 119 | 2% | 6394 |
| | Other Unit | 912 | 229 | 74% | 171 | 19% | 1 | %0 | 40 | 4% | 23 | 3% | 912 |
| EP TB | EP TB patients, Unknown HIV status (Other units) | 224 | 189 | 84% | 17 | 8% | 0 | %0 | 18 | 8% | 0 | %0 | 224 |
| | Union of Myanmar | 2962 | 6833 | %98 | 540 | %2 | 27 | %0 | 400 | 2% | 155 | 2% | 7955 |
| EP TB | EP TB patients, unknown HIV status (Union) | 6618 | 5809 | 88% | 313 | 2% | 24 | %0 | 353 | 2% | 119 | 2% | 6618 |
| | | TREATME | ENT OUTC | OUTCOMES 0 | F TB/HI | IV PATIE | NTS IN | 2009 (20 | OF TB/HIV PATIENTS IN 2009 (2008 COHORT) |)RT) | | | |
| | | | | | | | EP TB PATIENTS | ATIENTS | | | | | |
| Sr.No. | Reporting units | Total No. | Completed | eted | Οį | Died | Failure | ure | Defaulted | ılted | Tra | Transfer | Total |
| | | Reg. pts. | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | |
| _ | NTP | 649 | 536 | 83% | 73 | 11% | 2 | %0 | 25 | 4% | 13 | 2% | 649 |
| 7 | Other Units | 688 | 488 | 71% | 154 | 22% | 1 | %0 | 22 | 3% | 23 | 3% | 688 |
| | | 1007 | 1001 | ,011 | 100 | ,01, | • | ,00 | | 707 | - | | |

Annex-18

NATIONAL TUBERCULOSIS PROGRAMME TREATMENT OUTCOME OF HILAR LYMPHADENOPATHY TB PATIENTS (2008 COHORT)

•

| | | | | | | | | | | | | Annex - 1 | 1 |
|-----------|--|-----------|-----------|-------|-----|-----------------------|---------------|------|--------------------|------------|------|-----------|-------|
| | State/ | | | | Ħ | HILAR LYMPHADENOPATHY | IADENO | | TB PATIENTS | ITS | | | |
| ů | Division | Total No. | Completed | leted | D | Died | Failure | ure | Defaulted | ulted | Trar | Transfer | Total |
| ON . INC. | | Reg. pts. | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | |
| 1 | Kachin State | 829 | 801 | 83% | 6 | 1% | 0 | %0 | 33 | 4% | 16 | 2% | 828 |
| 2 | Kayah State | 0 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 3 | Chin State | 9 | 9 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 9 |
| 4 | Sagaing Division | 303 | 295 | %26 | 4 | 1% | 0 | %0 | 2 | %1 | 7 | 1% | 303 |
| 2 | Magway Division | 387 | 384 | | 1 | | 0 | | 1 | | 1 | | 387 |
| 9 | Mandalay Division | 156 | 153 | %86 | 1 | 1% | 0 | %0 | 0 | %0 | 7 | 1% | 156 |
| 7 | Shan State (South) | 68 | 83 | 83% | 1 | 1% | 0 | %0 | 5 | %9 | 0 | %0 | 88 |
| 80 | Shan State (East) | 06 | 81 | %06 | 0 | %0 | 0 | %0 | 8 | %6 | 1 | 1% | 06 |
| 6 | Shan State (North) | 207 | 195 | 94% | 2 | 7% | 0 | %0 | 7 | % E | 0 | %0 | 207 |
| 10 | Kayin State | 25 | 18 | 72% | 0 | %0 | 0 | %0 | 5 | %07 | 7 | %8 | 25 |
| 11 | Tanintharyi Division | 0 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| 12 | Bago (East) Division | 25 | 25 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 52 |
| 13 | Bago (West) Division | 10 | 6 | %06 | 1 | 10% | 0 | %0 | 0 | %0 | 0 | %0 | 10 |
| 14 | Mon State | 166 | 162 | %86 | 0 | %0 | 0 | %0 | 4 | %7 | 0 | %0 | 166 |
| 15 | Rakhine State | 380 | 362 | %56 | 1 | %0 | 0 | %0 | 15 | %4 | 7 | 1% | 380 |
| 16 | Yangon Division | 91 | 88 | %26 | 0 | %0 | 2 | 7% | 1 | %1 | 0 | %0 | 91 |
| 17 | Ayeyarwaddy Division | 1853 | 1774 | %96 | 14 | 1% | 0 | %0 | 09 | 3% | 2 | %0 | 1853 |
| Sta | States & Divisions total | 4674 | 4463 | %56 | 37 | 1% | 2 | %0 | 141 | 3% | 31 | 1% | 4674 |
| Hilar TE | Hilar TB patients, Unknown HIV status (NTP) | 4665 | 4456 | %96 | 37 | 1% | 2 | %0 | 140 | 3% | 30 | 1% | 4665 |
| | Other Unit | 156 | 125 | 80% | 14 | %6 | 1 | 1% | 15 | 10% | 1 | 1% | 156 |
| Hilar TE | Hilar TB patients, Unknown HIV status (Other units) | 129 | 106 | 82% | 7 | 2% | 0 | %0 | 15 | 12% | 1 | 1% | 129 |
| | Union of Myanmar | 4830 | 4588 | %56 | 51 | 1% | 3 | %0 | 156 | 3% | 32 | 1% | 4830 |
| Hilar TE | Hilar TB patients, unknown HIV status (Union) | 4794 | 4562 | %56 | 44 | 1% | 2 | %0 | 155 | 3% | 31 | 1% | 4794 |

TREATMENT OUTCOMES OF TB/HIV PATIENTS IN 2009 (2008 COHORT)

HILAR LYMPHADENOPATHY TB PATIENTS

| | | | | | UIL/ | DILAR LIMPHADENOPAINT ID PAIIENIS | IADEINOL | AIDI | D PAIIEN | ا ع ا | | | |
|--------|-----------------|-----------|-----------|-------|------|-----------------------------------|----------|------|-----------|----------|------|----------|-------|
| Sr.No. | Reporting units | Total No. | Completed | leted | Di | Died | Failure | ure | Defaulted | ılted | Trai | Transfer | Total |
| | | Reg. pts. | No. | Rate | No. | Rate | No. | Rate | No. | Rate | No. | Rate | |
| 1 | NTP | 6 | 7 | %82 | | %0 | | %0 | 1 | 11% | 1 | 11% | 6 |
| 2 | Other Units | 27 | 19 | %02 | 7 | 26% | 1 | 4% | | %0 | | %0 | 27 |
| | Total | 36 | 26 | 72% | 7 | 19% | 1 | 3% | 1 | 3% | 1 | 3% | 36 |

NATIONAL TUBERCULOSIS PROGRAMME CASE FINDING ACTIVITIES

| | Block-1 | | | | | | | | | | | | | | | | Oth O | er rep | Other reporting unit | unit | |
|--------|-----------------------------------|------|-----------|------|----------|-----------|----------|------|--------------------------|----------|---------|----------|------|------|-------|----------|----------|--------|----------------------|---------|-------|
| | | | | | PULN | PULMONARY | | TUBE | TUBERCULOSIS | SIS | | | | L | | | | | | | |
| | | | | SN | SMEAR PO | | SITIVE | | | | ပ် | 100 | | X 1 | Extra | | | | | Total | |
| Sr.No. | . Reporting units | | | | _ | revio | usly tre | ated | Previously treated cases | Total | | Negative | Ţ | 5 F | TBlai | Total | | | | <u></u> | |
| | | Ž | New Cases | ses | Rela | Relapses | TAD | 0 | TAF | 2 | | dance | 2 | - |) | <u> </u> | | Other | | | |
| | | M | ч | Τ | M | Ч | M | ц | M | L | Σ | ш | | Σ | Ч | | ≥ | ч | Σ | Ь | TOTAL |
| _ | Aung San TB Hospital | 09 | 10 | 70 | 34 | 10 | 10 | _ | 6 | 12 14 | 146 29 | 13 | 42 | 4 | 1 | 2 | 130 | 64 | 276 | 111 | 387 |
| 7 | Patheingyi TB Hospital | 15 | 9 | 21 | 19 | 7 | _ | 0 | 7 | 4 | 59 30 | 8 | 38 | 5 | 5 | 10 | 52 | 15 | 129 | 45 | 174 |
| က | East Yangon General Hospital | 5 | 6 | 14 | 2 | 1 | 0 | 0 | 0 | 0 | 17 28 | 3 10 | 38 | 112 | 114 | 226 | 0 | 0 | 147 | 134 | 281 |
| 4 | Mingalardon Hospital | 53 | 16 | 69 | 14 | 2 | _ | 0 | 3 | 3 | 92 229 | 116 | 345 | 41 | 10 | 51 | 128 | 25 | 469 | 172 | 641 |
| 2 | Wabargi Specialist Hosipital | 128 | 29 | 195 | 15 | 2 | 3 | _ | 10 | 8 23 | 234 257 | , 86 | 343 | 260 | 116 | 376 | 9 61 | 29 | 734 | 309 | 1043 |
| 9 | No.1MBH (PyinOoLwin) | 53 | 3 | 56 | 19 | 0 | 0 | 0 | 0 | 0 | 75 48 | 3 | 51 | 2 | 2 | 4 | 0 | 0 | 122 | 8 | 130 |
| 7 | 1000 beded Hospital (Nay Pyi Taw) | 87 | 51 | 138 | 6 | 4 | 2 | 0 | 2 | 2 16 | 63 235 | 90 | 325 | 126 | 92 | 218 | 3 12 | 9 | 479 | 245 | 724 |
| ∞ | AZG (Yangon) | 85 | 35 | 120 | 44 | 13 | 9 | 0 | 9 | 1 | 190 131 | 26 | 207 | 113 | 64 | 177 | 112 | 45 | 497 | 234 | 731 |
| 6 | AZG (Kachin) | 136 | 45 | 181 | 46 | 12 | 7 | _ | 15 | 4 26 | 266 153 | 39 | 252 | 103 | 65 | 168 | 11 | 8 | 471 | 234 | 705 |
| 10 | PSI | 3460 | 1798 | 5258 | 260 | 131 | 39 | ∞ | 133 | 60 5889 | 39 4124 | 1 2888 | 7012 | 1310 | 1068 | 2378 | 3 45 | 16 | 9371 | 5969 | 15340 |
| 7 | AZG (Shan-North) | 137 | 64 | 201 | 21 | 6 | 7 | 0 | 33 | 11 28 | 282 100 | 63 | 163 | 62 | 36 | 98 | 17 | 9 | 377 | 189 | 566 |
| 12 | AZG (Rakhine) | 7 | 3 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 10 6 | 1 | 7 | 6 | 12 | 21 | 0 | 0 | 22 | 16 | 38 |
| 13 | MMA | 362 | 195 | 557 | 48 | 4 | 5 | 3 | 12 | 4 46 | 460 429 | 294 | 723 | 213 | 159 | 372 | 38 | 17 | 1107 | 929 | 1783 |
| 14 | AHRN (Shan North) | 42 | 7 | 49 | 1 | 0 | 4 | 0 | 4 | 0 | 58 28 | 12 | 40 | 30 | 3 | 33 | 0 | 0 | 109 | 22 | 131 |
| 15 | Thingangyun Sanpya Hospital | 9 | 2 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 11 | 2 | 16 | 0 | 4 | 4 | 1 | _ | 18 | 12 | 30 |
| 16 | Medecins du monde | 12 | 2 | 14 | 9 | 0 | _ | 0 | 2 | 0 | 23 39 | 11 | 50 | 52 | 14 | 99 | 0 | 0 | 112 | 27 | 139 |
| 17 | New Yangon General Hospital | 43 | 23 | 99 | 0 | 0 | 0 | 0 | 0 | 1 | 67 55 | 5 46 | 101 | 21 | 24 | 45 | 9 | 2 | 125 | 96 | 221 |
| 18 | West Yangon General Hospital | 9 | 4 | 10 | 19 | 7 | 6 | 1 | 0 | 1 4 | 47 55 | 5 46 | 101 | 12 | 12 | 24 | 1 | 1 | 103 | 72 | 175 |
| | Total | 4697 | 2340 | 7037 | 557 | 202 | 98 | 15 | 239 1 | 111 8086 | 36 5987 | 3867 | 9854 | 2475 | 1801 | 4276 | 615 | 235 | 14668 | 8571 | 23239 |

AGE AND SEX DISTRIBUTION OF NEW SMEAR POSITIVE TB PATIENTS Other reporting unit

| | Block-2 | | | | | | | | | | | |) | Other reporting unit | eport | ing ui | nit | |
|-------|-----------------------------------|-------|---------------|-------|-------------------------|-------|--------|-------|-----------|------|-----|------|-----|----------------------|-------|--------|-------|------|
| Sr.No | | | | | | ⋖ | AGE GF | GROUP | (YEAR | (> | | | | | | Ĺ | TOTAL | |
| | Reporting units | -0 | 0-14 | 15-24 | 24 | 25 - | - 34 | - 32 | - 44 | 45 - | 54 | - 22 | 64 | > 65 | | | | |
| | | M | Ь | M | Ь | M | Ь | M | Ь | M | Ь | M | Ь | M | Ь | M | Ь | ⊢ |
| 1 | Aung San TB Hospital | 0 | 0 | 6 | 3 | 6 | 3 | 21 | 2 | 10 | 1 | 6 | 1 | 2 | 0 | 09 | 10 | 70 |
| 2 | Patheingyi TB Hospital | 0 | 0 | 2 | 1 | 4 | 2 | 3 | 3 | 4 | 0 | 1 | 0 | 1 | 0 | 15 | 9 | 21 |
| 3 | East Yangon General Hospital | 0 | 0 | 1 | 9 | 2 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 2 | 6 | 14 |
| 4 | Mingalardon Hospital | 0 | 0 | 1 | 0 | 21 | 10 | 23 | 9 | 9 | 0 | 2 | 0 | 0 | 0 | 23 | 16 | 69 |
| 2 | Wabargi Specialist Hosipital | 0 | 0 | 7 | 9 | 64 | 34 | 42 | 20 | 14 | 9 | 1 | 0 | 0 | 1 | 128 | 29 | 195 |
| 9 | No.1MBH (PyinOoLwin) | 0 | 0 | 10 | 0 | 16 | 2 | 20 | 1 | 2 | 0 | 2 | 0 | 0 | 0 | 23 | 3 | 26 |
| 7 | 1000 beded Hospital (Nay Pyi Taw) | 0 | 2 | 11 | 10 | 28 | 11 | 16 | 6 | 17 | 6 | 10 | 9 | 2 | 4 | 87 | 51 | 138 |
| 8 | AZG (Yangon) | 0 | 1 | 9 | 4 | 33 | 16 | 37 | 11 | 7 | 2 | 0 | 1 | 2 | 0 | 85 | 32 | 120 |
| 6 | AZG (Kachin) | 1 | 0 | 15 | 7 | 52 | 14 | 47 | 11 | 14 | 7 | 2 | 2 | 2 | 1 | 136 | 45 | 181 |
| 10 | PSI | 16 | 26 | 428 | 357 | 843 | 438 | 828 | 343 | 809 | 278 | 413 | 217 | 294 | 139 | 3460 | 1798 | 5258 |
| 11 | AZG (Shan-North) | 2 | 1 | 16 | 14 | 28 | 19 | 32 | 18 | 19 | 8 | 6 | 2 | 1 | 2 | 137 | 64 | 201 |
| 12 | AZG (Rakhine) | 0 | 0 | 1 | 0 | 3 | 0 | 2 | 2 | 0 | 1 | 1 | 0 | 0 | 0 | 7 | 3 | 10 |
| 13 | MMA | 4 | 1 | 48 | 38 | 98 | 41 | 69 | 31 | 72 | 42 | 49 | 30 | 34 | 12 | 362 | 195 | 557 |
| 14 | AHRN (Shan North) | 0 | 1 | 8 | 0 | 15 | 2 | 6 | 2 | 6 | 2 | 1 | 0 | 0 | 0 | 42 | 7 | 49 |
| 15 | Thingangyun Sanpya Hospital | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 9 | 2 | 8 |
| 16 | Medecins du monde | 0 | 0 | 0 | 0 | 9 | 0 | 2 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 12 | 2 | 14 |
| 17 | New Yangon General Hospital | 0 | 1 | 2 | 3 | 11 | 4 | 6 | 2 | 7 | 9 | 9 | 2 | 8 | 2 | 43 | 23 | 99 |
| 18 | West Yangon General Hospital | 0 | 0 | 2 | 0 | 0 | 3 | 1 | 1 | 2 | 0 | 0 | 0 | 1 | 0 | 9 | 4 | 10 |
| | Total | 23 | 33 | 567 | 449 | 1254 | 602 | 1196 | 464 | 962 | 364 | 510 | 267 | 351 | 161 | 4697 | 2340 | 7037 |
| | PRIMARY COMPLEX AND | LEX / | AND TB | | MENINGITIS CASES | IS CA | SES BY | | AGE GROUP | UP | | | | | | | | |

| Sr.No | Reporting Units | | | | PC ar | PC and TBM cases by age group | cases b | y age g | roup | | | | Total |
|-------|-----------------------------------|------|------|-----|-------|-------------------------------|-----------------------|---------|-------|------------|-----|-----|-------|
| | | | PC | | Total | | Hilar Lymphadenopathy | opathy | Total | | TBM | | |
| | | 0-4 | <15 | ≥15 | | 0-4 | 5-14 | ≥15 | | 7-0 | <15 | ≥15 | |
| 1 | Aung San TB Hospital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Patheingyi TB Hospital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | East Yangon General Hospital | 21 | 204 | 0 | 225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | Mingalardon Hospital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | Wabargi Specialist Hosipital | 22 | 48 | 0 | 103 | 8 | 3 | 0 | 9 | 0 | 0 | 0 | 0 |
| 9 | No.1MBH (PyinOoLwin) | 3 | 17 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 1000 beded Hospital (Nay Pyi Taw) | 43 | 61 | 0 | 104 | 0 | 10 | 4 | 14 | 1 | 7 | 2 | 2 |
| 8 | AZG (Yangon) | 2 | 10 | 1 | 13 | 0 | 0 | 1 | 1 | 0 | 0 | 8 | 3 |
| 6 | AZG (Kachin) | 2 | 1 | 0 | 3 | 0 | 3 | 105 | 108 | 0 | 0 | 2 | 2 |
| 10 | PSI | 286 | 1657 | 36 | 2680 | 591 | 429 | 9 | 1026 | 0 | 7 | 107 | 111 |
| 11 | AZG (Shan-North) | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 7 | 0 | 3 |
| 12 | AZG (Rakhine) | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 | 0 |
| 13 | MMA | 212 | 222 | 1 | 435 | 101 | 06 | 16 | 207 | 0 | 0 | 98 | 98 |
| 14 | AHRN (Shan North) | 0 | 2 | 1 | 3 | 0 | 7 | 4 | 11 | 0 | 0 | 2 | 2 |
| 15 | Thingangyun Sanpya Hospital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Medecins du monde | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 17 | New Yangon General Hospital | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | West Yangon General Hospital | 18 | 4 | 2 | 24 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| | Total | 1343 | 2229 | 41 | 3613 | 695 | 543 | 139 | 1377 | 2 | 6 | 203 | 214 |

| | NOTIFIED TB PATIENTS ACCORDING | TIENTS ACC | ORDING TO | O CATEGO | CATEGORY OF REGIMENS (2009) | GIMENS (| | | Ö | Other reporting Unit | oorting | Unit | - | |
|----------|-----------------------------------|------------------------|------------------|---------------------------|------------------------------|------------------------|---------------|------------|-----------------------|----------------------|---------|---|-----------|-------|
| | | | CAT | - 1 | | | CAT | г - 2 | | | CAT | - 3 | _ | TOTAL |
| Sr.No | Reporting units | Sputum | Sputum | EP | | Relapses | Treat- | Treat- | Others | | ۵ | EP | | |
| | | Smear | Smear | Seriously | Total | | ment after | ment after | (Failure) | Total | | <u>. </u> | Total | |
| | | Positive | Negative | III | | | Default | Failure | | | | | | |
| _ | Aung San TB Hospital | 20 | | 2 | 117 | 44 | 11 | 21 | 194 | 270 | 0 | 0 | 0 | 387 |
| 2 | Patheingyi TB Hospital | 21 | | 10 | 02 | 28 | 1 | 11 | 89 | | 11 | 0 | 11 | 189 |
| က | East Yangon General Hospital | 14 | | - | 49 | 9 | 2 | 0 | 0 | 8 | 0 | 225 | 225 | 282 |
| 4 | Mingalardon Hospital | 89 | 305 | 51 | 424 | 16 | 1 | 9 | 153 | 176 | 12 | 0 | 12 | 612 |
| 2 | Wabargi Specialist Hosipital | 190 | 297 | 318 | 802 | 17 | 4 | 18 | 33 | 72 | 133 | 48 | 181 | 1058 |
| 9 | No.1MBH (PyinOoLwin) | 94 | 149 | 41 | 257 | 21 | 1 | 2 | | | 6 | 37 | 46 | 339 |
| 7 | 1000 beded Hospital (Nay Pyi Taw) | 103 | 213 | 45 | 361 | 12 | 5 | 9 | 27 | 20 | 19 | 104 | 123 | 534 |
| ∞ | AZG (Yangon) | 121 | 196 | 169 | 486 | 22 | 9 | 7 | 163 | 233 | 14 | 6 | 23 | 742 |
| ဝ | AZG (Kachin) | 1490 | 845 | 190 | 2525 | 156 | 22 | 54 | 34 | 266 | 1618 | 228 | 2176 | 4967 |
| 10 | PSI | 3978 | 1896 | 275 | 6149 | 300 | 33 | 159 | 49 | 541 | 2946 | 1536 | 4482 | 11172 |
| 11 | AZG (Shan-North) | 202 | 165 | 86 | 465 | 31 | 2 | 44 | 23 | | _ | 0 | 1 | 571 |
| 12 | AZG (Rakhine) | 10 | 7 | 6 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 38 |
| 13 | MMA | 258 | 435 | 34 | 1027 | 52 | 8 | 16 | 38 | 114 | 288 | 366 | 654 | 1795 |
| 14 | AHRN (Shan North) | 64 | 38 | 31 | 133 | 2 | 10 | 4 | 4 | 20 | _ | 0 | - | 154 |
| 15 | Thingangyun Sanpya Hospital | 8 | | 8 | 22 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 9 | 30 |
| 16 | Medecins du monde | 14 | . 41 | 26 | 111 | 22 | 9 | 5 | 0 | 33 | 0 | 0 | 0 | 144 |
| 17 | New Yangon General Hospital | 99 | 93 | 37 | 196 | 0 | 0 | 1 | 8 | 6 | 8 | 8 | 16 | 221 |
| 18 | West Yangon General Hospital | 10 | | 13 | 101 | 26 | 10 | 7 | 3 | 40 | 23 | 11 | 34 | 175 |
| | Total | 7084 | 788V | 1250 | 13324 | 790 | 127 | 255 | 811 | 2083 | 5088 | 2015 | , 2008 | 23410 |
| | | 907 | | | +2551 1979 VOO. | OIA A MICICA | (0000)1 | 000 | | 2003 | 2000 | | | 2110 |
| | Block-4 | | | LABORAI | LABORALORY PERFORMANCE(2009) | LOKMANC | (Z003) | | | _ | | | | |
| | | 1 | A | В | | | C | | D | | | | | |
| Sr.No | Reporting units | No. of suspects(Dx) | pects(Dx) | No. of smear positive pts | positive pts | No. of patients | atients | No. of sme | No. of smear positive | | | | | |
| | | examined by microscopy | microscopy | detected out of | | examined by microscopy | microscopy | out of fc | out of follow-up | | | | | |
| | | for case | for case finding | suspcts (Dx) | s (Dx) | for foll | for follow-up | pati | patients | | | | | |
| | | No. of Pts | No. of slides | No. of Pts | No. of slides | No. of Pts | No. of slides | No. of Pts | No. of slides | | | | | |
| ς- | Aung San TB Hospital | 392 | 1016 | 241 | 616 | 1651 | 2222 | 539 | 922 | | | | | |
| 2 | Patheingyi TB Hospital | 1686 | 4605 | 332 | 828 | 846 | 1647 | 215 | 311 | | | | | |
| 3 | East Yangon General Hospital | 593 | 1779 | 6 | 27 | 72 | 176 | _ | 3 | | | | | |
| 4 | Mingalardon Hospital | 206 | 1518 | 26 | 109 | 781 | 1562 | 8 | 12 | | | | | |
| ດ | Wabargi Specialist Hosipital | 1565 | 4422 | 188 | 524 | 908 | 1813 | 35 | 89 | | | | | |
| ۱, | 100. IMBH (P)IIIOOLWIII) | SIZ | 984 | c/ | 66 | 37.9 | 1137 | 0 | Þ | | | | | |
| - α | | 6061 | 16816 | 1290 | 3275 | 834 | 2762 | 55 | 101 | | | | | |
| ၈ | AZG (Kachin) | 3511 | 10067 | 550 | 1563 | 1240 | 3737 | 211 | 464 | | | | | |
| 10 | PSI | 19943 | 58282 | 3836 | 10328 | 15076 | 29278 | 1295 | 2254 | | | | | |
| 11 | AZG (Shan-North) | 2412 | 7236 | 389 | 1167 | 1323 | 3969 | 253 | 759 | | | | | |
| 12 | AZG (Rakhine) | 22 | 150 | 5 | 13 | 2 | 15 | 2 | 2 | | | | | |
| 13 | MMA | 2329 | 6507 | 474 | 1313 | 1465 | 2894 | 110 | 208 | | | | | |
| 14 1 | AHRN (Shan North) | 805 | 2415 | 49 | 145 | 135 | 411 | 6 | 24 ĵ | | | | | |
| <u>ဂ</u> | l ningangyun sanpya Hospital | 21 | 63 | ∞ (| 24 | 0 | 0 | 0, | 0 | | | | | |
| 0 | Medecins du monde | 421 | 1060 | 38 | 91 | 283 | /3/ | 12 | 28 | | | | | |
| - 0 | New rangon General Hospital | 1000 | 7920 | // | 102 | 175 | 1028 | 71 | 77 | | - | \ \frac{1}{2} | 11-11-11 | |
| 0 | West Yangon General Hospital | 150 | 420 | 10 | 30 | 5.1 | 102 | _ | 7 | | _ | NA = Not available | available | 4) |
| | Total | 41762 | 120230 | 7628 | 20353 | 25570 | 53490 | 2758 | 5180 | | | | | |

SPUTUM CONVERSION OF NEW SMEAR POSITIVE PULMONARY TB PATIENTS (2009)

| | Block 5 | | | | |) | Other reporting unit | rting unit | |
|--------|-----------------------------------|------------------|------------------|---------|----------------------|-------------|----------------------|-------------|---------|
| | | | Smear not done | | Sputum conversion at | iversion at | | Remaining | TOTAL |
| Sr.No. | Reporting units | Registered cases | at eighter 2or 3 | 2 month | nth | 3 month | nth | positive at | |
| | | | months | No | % | No | % | 3 month | 2+3+4+5 |
| 1 | Aung San TB Hospital | 71 | 30 | 19 | 27% | 5 | 7% | 17 | 71 |
| 2 | Patheingyi TB Hospital | 21 | 12 | 4 | 19% | 4 | 19% | 1 | 21 |
| 3 | East Yangon General Hospital | 15 | 0 | 13 | 87% | 2 | 13% | 0 | 15 |
| 4 | Mingalardon Hospital | 69 | 20 | 49 | 71% | 0 | %0 | 0 | 69 |
| 2 | Wabargi Specialist Hosipital | 195 | 62 | 133 | %89 | 0 | %0 | 0 | 195 |
| 9 | No.1MBH (PyinOoLwin) | 29 | 0 | 59 | 100% | 0 | %0 | 0 | 59 |
| 7 | 1000 beded Hospital (Nay Pyi Taw) | 136 | 18 | 105 | 77% | 8 | %9 | 5 | 136 |
| 8 | AZG (Yangon) | 120 | 18 | 87 | 73% | 11 | %6 | 4 | 120 |
| 6 | AZG (Kachin) | 178 | 45 | 80 | 45% | 18 | 10% | 35 | 178 |
| 10 | PSI | 5261 | 538 | 4037 | 77% | 506 | 10% | 180 | 5261 |
| 11 | AZG (Shan-North) | 199 | 31 | 89 | 45% | 36 | 18% | 43 | 199 |
| 12 | AZG (Rakhine) | 16 | 3 | 10 | %89 | 3 | 19% | 0 | 16 |
| 13 | MMA | 507 | 37 | 392 | 77% | 50 | 10% | 28 | 507 |
| 14 | AHRN (Shan North) | 49 | 7 | 38 | 78% | 2 | 4% | 2 | 49 |
| 15 | Thingangyun Sanpya Hospital | 8 | 2 | 4 | 20% | 1 | 13% | 1 | 8 |
| 16 | Medecins du monde | 19 | 4 | 6 | 47% | 3 | 16% | 3 | 19 |
| 17 | New Yangon General Hospital | 99 | 10 | 50 | %92 | 3 | 2% | 3 | 99 |
| 18 | West Yangon General Hospital | 10 | 0 | 6 | %06 | 0 | %0 | 1 | 10 |
| | Total | 6669 | 837 | 5187 | 74% | 652 | %6 | 323 | 6669 |

TREATMENT OUTCOMES OF NEW SMEAR POSITIVE TB PATIENTS (2008 C0HORT)

ž

Ś.

219 102 110 4098 244 78 26 160 99 138 50 47 Total Other reporting unit 14% 15% 10% 4% %0 2% 4% %0 1% 5% %0 2% 3% %0 %0 %0 Rate Transfer out 4 0 2 6 0 6 89 7 0 0 0 5 2 ž 22% 12% 11% 15% 17% 14% %0 3% %0 4% 8% %6 5% %0 %0 4% Rate Defaulted 17 5 0 5 19 222 3 0 6 0 0 2 37 ž %6 %0 %0 2% 4% %0 %9 11% %9 4% 15% %0 25% %0 %0 %9 Rate SMEAR POSITIVE CASES 9 0 0 2 0 8 12 14 167 36 0 0 3 Rate 13% 12% 31% 17% 13% 17% 11% 36% 1% 2% 4% %/ 25% %0 24% %0 10 က 37 20 1 14 7 160 16 0 12 2 0 2 ž 88% 61% %29 42% 62% 89% %09 58% 83% 63% 79% 84% 75% 75% 52% 74% TSR 11% 12% 1% 4% 22% 1% 2% %0 %0 %0 %0 %0 %0 6% 2% %0 Rate Completed 476 25 7 3 2 0 0 0 0 _ 0 0 7 0 ž %89 41% 58% 26% 26% 73% 26% 75% %29 74% %29 83% 88% 26% 75% 52% Rate Cured 149 143 32 15 9 89 55 122 2984 26 35 9 62 က က ŝ 78 26 110 219 4098 244 6 102 160 99 138 9 47 50 Total 1000 beded Hospital (Nay Pyi Taw) East Yangon General Hospital New Yangon General Hospital Thingangyun Sanpya Hospital Wabargi Specialist Hosipital Reporting units No.1MBH (PyinOoLwin) Patheingyi TB Hospital Aung San TB Hospital Mingalardon Hospital Medecins du monde AZG (Shan-North) AHRN (Shan North)

5365

2%

134

%9

328

5%

257

%9

333

%08

10%

521

71%

3792

5365

Total

0%

0

%0

0

%0

0

%0

0

100%

%0

0

100%

West Yangon General Hospital

18

0

AZG (Kachin)

BS

9

AZG (Yangon)

 ∞

2

4

9

AZG (Rakhine)

12

MMA

13

4

15

16

17

TREATMENT OUTCOME OF RELAPSES (2008 COHORT)

| : | | | • | | , | | 2 | RELAPSE CASES | CASE | | | | | | |
|-----------------------------------|----|-----|----|------|------|-----------|----|---------------|---------|------|------|-----------|--------------|--------|-------|
| Reporting units Total Cured | | Cur | | ed | Comp | Completed | ۵ | Died | Failure | ure | Defa | Defaulted | Transfer out | er out | Total |
| No | No | No | _ | Rate | No | Rate | No | Rate | No | Rate | No | Rate | No | Rate | |
| Aung San TB Hospital 25 7 | | 7 | 7 | 28% | 0 | 0% | 6 | 24% | 2 | 8% | 8 | 32% | 2 | 8% | 25 |
| Patheingyi TB Hospital | | _ | 7 | 18% | 4 | 10% | 3 | 8% | 12 | 31% | 2 | 2% | 11 | 28% | 39 |
| East Yangon General Hospital | 2 | | 0 | %0 | 1 | 50% | 0 | %0 | 0 | %0 | 1 | 20% | 0 | %0 | 2 |
| Mingalardon Hospital | 12 | | 6 | 20% | 1 | 8% | 4 | 33% | 0 | %0 | 1 | 8% | 0 | %0 | 12 |
| Wabargi Specialist Hosipital | | 1 | 10 | 37% | 0 | 0% | 15 | %99 | 1 | 4% | 1 | 4% | 0 | %0 | 27 |
| No.1MBH (PyinOoLwin) | | | 13 | 54% | 11 | 46% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 24 |
| 1000 beded Hospital (Nay Pyi Taw) | | | | | | | | | | | | | | | |
| AZG (Yangon) 42 | | `` | 21 | 50% | 6 | 14% | 9 | 21% | 4 | 10% | 1 | 2% | 1 | 2% | 42 |
| AZG (Kachin) 32 | | ,, | 21 | %99 | 9 | 28% | 1 | 3% | 0 | %0 | 1 | 3% | 0 | %0 | 32 |
| PSI 336 257 | | 25 | 57 | 76% | 21 | 6% | 18 | 2% | 18 | 2% | 11 | 3% | 11 | 3% | 336 |
| 11 AZG (Shan-North) 49 | | , | 11 | 22% | 28 | 57% | 4 | 8% | 0 | %0 | 3 | %9 | 8 | %9 | 49 |
| AZG (Rakhine) | | | | | | | | | | | | | | | |
| MMA | | | | | | | | | | | | | | | |
| 14 AHRN (Shan North) | 1 | | 1 | 100% | 0 | 0% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 1 |
| 15 Thingangyun Sanpya Hospital | | | | | | | | | | | | | | | |
| Medecins du monde | 17 | | 2 | 12% | 10 | 59% | 4 | 24% | 0 | %0 | 0 | %0 | 1 | %9 | 17 |
| 17 New Yangon General Hospital 3 | 3 | | 2 | 67% | 0 | 0% | 0 | %0 | 0 | %0 | 1 | 33% | 0 | %0 | 3 |
| West Yangon General Hospital | | | | | | | | | | | | | | | |
| Total 609 358 | | 35 | 8 | 59% | 91 | 15% | 64 | 11% | 37 | 6% | 30 | 5% | 29 | 2% | 609 |
| | | | | | | | | | | | | | | | |

| Sr. Reporting units Total Completed Died Failure Defaulted Transfer out Total No Rate No No Rate No No Rate No No No Rate No | | | | | | | SMEA | R NEGA | SMEAR NEGATIVE CASES | SES | | | | |
|--|-----|-----------------------------------|-------|------|-------|-----|------|--------|----------------------|------|-------|--------|--------|-------|
| Aung San TB Hospital A2 No Rate No No Rate No Rate No No Rate No No Rate No No No Rate No N | Sr. | Reporting units | Total | Comp | leted | Die | þ | Fai | ure | Defa | ulted | Transf | er out | Total |
| Aung San TB Hospital 42 15 36% 13 31% 0 0% 10 24% 4 10% Patheingyi TB Hospital 37 16 43% 4 11% 0 0% 3 8% 14 38% East Yangon General Hospital 55 44 80% 3 5% 1 2% 6 11% 1 2% Mingalardon Hospital 294 188 64% 94 32% 0 0% 0 | % | | | No | Rate | No | Rate | No | Rate | No | Rate | No | Rate | |
| Patheingyi TB Hospital 37 16 43% 4 11% 0 0% 3 8% 14 38% East Yangon General Hospital 55 44 80% 3 5% 1 2% 6 11% 1 2% Mingalardon Hospital 467 305 65% 139 30% 3 1% 1 4% 3 1% 4 Wabargi Specialist Hospital 294 188 64% 94 32% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0 0% 0 0 0% 0 0 0% 0 0 0% 0 0 0 0 0 0 0 0 0 0 0 | _ | Aung San TB Hospital | 42 | 15 | 36% | 13 | 31% | 0 | %0 | 10 | 24% | 4 | 10% | 42 |
| East Yangon General Hospital 55 44 80% 3 5% 1 2% 6 11% 1 2% 4 4 Mingalardon Hospital 467 305 65% 139 30% 3 1% 17 4% 3 1% 4 4 Wabargi Specialist Hospital 294 188 64% 94 32% 0 0% 0 0% 0 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0 0% 0 0% 0 0 0% 0 | 2 | Patheingyi TB Hospital | 37 | 16 | 43% | 4 | 11% | 0 | %0 | 3 | %8 | 14 | 38% | 37 |
| Mingalardon Hospital 467 305 65% 139 30% 3 1% 4% 3 1% Wabbargi Specialist Hospital 294 188 64% 94 32% 0 0% 6 2% 6 2% No.1MBH (PyinOoLwin) 54 54 100% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0 0% 0 0 0% 0 0 0% 0 0 0% 0 0 0% 0 0 0% 0 | 3 | East Yangon General Hospital | 22 | 44 | %08 | 3 | %9 | 1 | 2% | 9 | 11% | 1 | 2% | 22 |
| Wabargi Specialist Hosipital 294 188 64% 94 32% 0 0% 6 2% 6 2% No.1MBH (PyinOoLwin) 54 54 100% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0 0% 0 <td>4</td> <td>Mingalardon Hospital</td> <td>467</td> <td>302</td> <td>%59</td> <td>139</td> <td>30%</td> <td>3</td> <td>1%</td> <td></td> <td>%4</td> <td>3</td> <td>1%</td> <td>467</td> | 4 | Mingalardon Hospital | 467 | 302 | %59 | 139 | 30% | 3 | 1% | | %4 | 3 | 1% | 467 |
| No.1MBH (PyinOoLwin) 54 54 100% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0 0% 0 0 0% 0 0 0% 0 0 0% 0 | | Wabargi Specialist Hosipital | 294 | 188 | 64% | 94 | 32% | 0 | %0 | 9 | %7 | 9 | 2% | 294 |
| 1000 beded Hospital (Nay Pyi Taw) 231 202 87% 8 3% 3 1% 13 6% 5 2% AZG (Yangon) 251 220 88% 20 8% 1 0% 5 2% 5 2% AZG (Kachin) 251 220 88% 20 8% 1 0% 5 2% 2 2 | 9 | No.1MBH (PyinOoLwin) | 54 | 54 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 54 |
| AZG (Yangon) 231 202 87% 8 3% 3 1% 13 6% 5 2% AZG (Kachin) 251 220 88% 20 8% 1 0% 5 2% 5 2% PSI 2949 2430 82% 178 6% 33 1% 246 8% 6 2% 5 5 2% 5 5 4 | 7 | 1000 beded Hospital (Nay Pyi Taw) | | | | | | | | | | | | |
| AZG (Kachin) 251 220 88% 20 8% 1 0% 5 2% 5 2% PSI AZG (Shan-North) 103 86 83% 7 7% 1 1% 246 8% 6 2% <td< td=""><td>8</td><td>AZG (Yangon)</td><td>231</td><td>202</td><td>82%</td><td>8</td><td>3%</td><td>3</td><td>1%</td><td></td><td>%9</td><td>2</td><td>7%</td><td>231</td></td<> | 8 | AZG (Yangon) | 231 | 202 | 82% | 8 | 3% | 3 | 1% | | %9 | 2 | 7% | 231 |
| PSI PSI PSI PSI 6% 33 1% 246 8% 62 2% 2 AZG (Shan-North) 103 86 83% 7 7% 1 1% 8 8% 1 1% AZG (Rakhine) MMA MMA MMA 4HRN (Shan North) 5 5 100% 0 | 6 | AZG (Kachin) | 251 | 220 | %88 | 20 | %8 | 1 | %0 | 2 | %7 | 2 | 7% | 251 |
| AZG (Shan-North) 103 86 83% 7 7% 1 1% 8 8% 1 1% AZG (Rakhine) AZG (Rakhine) MMA MMM | | ISA | 2949 | 2430 | 82% | 178 | %9 | 33 | 1% | 246 | %8 | 62 | 7% | 2949 |
| AZG (Rakhine) AZG (Rakhine) ALSG (R | 11 | AZG (Shan-North) | 103 | 98 | 83% | 7 | %2 | 1 | 1% | 8 | %8 | 1 | 1% | 103 |
| MMA AHRN (Shan North) 5 100% 0 0 0% 0 | 12 | AZG (Rakhine) | | | | | | | | | | | | |
| AHRN (Shan North) 5 5 100% 0 0 0% 0 0% 0 | | AMM | | | | | | | | | | | | |
| Thingangyun Sanpya Hospital 10 6 60% 4 40% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 0% 0 <th< td=""><td>14</td><td>AHRN (Shan North)</td><td>2</td><td>2</td><td>100%</td><td>0</td><td>%0</td><td>0</td><td>%0</td><td>0</td><td>%0</td><td>0</td><td>%0</td><td>2</td></th<> | 14 | AHRN (Shan North) | 2 | 2 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 2 |
| Medecins du monde 205 146 71% 32 16% 3 1% 11 5% 13 6% New Yangon General Hospital 38 36 95% 0 0% 0 0% 0 0% 2 5% Total 10 4853 3832 79% 515 11% 46 1% 48 1% 18 7% 18 2% 4 | 15 | Thingangyun Sanpya Hospital | 10 | 9 | %09 | 4 | 40% | 0 | %0 | 0 | %0 | 0 | %0 | 10 |
| New Yangon General Hospital 112 79 71% 13 12% 1 1% 17 15% 2 2% West Yangon General Hospital 38 36 95% 0 0% 0 0% 0 0% 2 5% Total 4853 3832 79% 515 11% 46 1% 342 7% 118 2% 4 | | Medecins du monde | 202 | 146 | 71% | 32 | 16% | 3 | 1% | | %9 | 13 | %9 | 202 |
| West Yangon General Hospital 38 36 95% 0 0% 0 0% 0 0% 2 5% Total 4853 3832 79% 515 11% 46 1% 342 7% 118 2% 48 | 17 | New Yangon General Hospital | 112 | 26 | 71% | 13 | 12% | 1 | 1% | 17 | 15% | 2 | 7% | 112 |
| 4853 3832 79% 515 11% 46 1% 342 7% 118 2% | | West Yangon General Hospital | 38 | 36 | %36 | 0 | %0 | 0 | %0 | 0 | %0 | 2 | %9 | 38 |
| | | Total | 4853 | 3832 | %62 | 515 | 11% | 46 | 1% | 342 | % | 118 | 7% | 4853 |

TREATMENT OUTCOMES OF TREATMENT AFTER FAILURE (2008 COHORT)

| | Total | וסומו | 28 | 12 | _ | 9 | 4 | | | 20 | 24 | 156 | 41 | | | | | 8 | | | 300 |
|----------------------|-----------|-------------|----------------------|------------------------|------------------------------|----------------------|------------------------------|----------------------|-----------------------------------|--------------|--------------|-----|------------------|---------------|-----|-------------------|-----------------------------|-------------------|-----------------------------|------------------------------|-------|
| g unit | sfer | Rate | 4% | 17% | %0 | %0 | %0 | | | %0 | %0 | %6 | 7% | | | | | %0 | | | 7% |
| Other reporting unit | Transfer | No. | _ | 2 | 0 | 0 | 0 | | | 0 | 0 | 14 | 3 | | | | | 0 | | | 20 |
| Other I | Defaulted | Rate | 21% | 42% | %0 | %0 | %0 | | | %0 | 13% | 8% | 10% | | | | | 38% | | | 11% |
| | Defa | No. | 9 | 5 | 0 | 0 | 0 | | | 0 | 3 | 12 | 4 | | | | | 3 | | | 33 |
| | Failure | Rate | 20% | 17% | %0 | %0 | %0 | | | 2% | 8% | 14% | 15% | | | | | %0 | | | 16% |
| | Fai | No. | 14 | 2 | 0 | 0 | 0 | | | 1 | 2 | 22 | 9 | | | | | 0 | | | 47 |
| | þ€ | Rate | 11% | 8% | %0 | %29 | 75% | | | 40% | 21% | %9 | 5% | | | | | 20% | | | 13% |
| | Died | No. | 3 | 1 | 0 | 4 | 3 | | | 8 | 5 | 6 | 2 | | | | | 4 | | | 39 |
| - | eted | Rate | 4% | %0 | 100% | %0 | %0 | | | 10% | 8% | %9 | 2% | | | | | 13% | | | %9 |
| | Completed | No. | 1 | 0 | 1 | 0 | 0 | | | 2 | 2 | 9 | 2 | | | | | 1 | | | 18 |
| - | pe | CR | 11% | 17% | %0 | 33% | 25% | | | 45% | 20% | 28% | 29% | | | | | %0 | | | 48% |
| | Cured | No. | 3 | 2 | 0 | 2 | _ | | | 6 | 12 | 06 | 24 | | | | | 0 | | | 143 |
| - | TOTAL | | 28 | 12 | ~ | 9 | 4 | | | 20 | 24 | 156 | 41 | | | | | 8 | | | 300 |
| | | Shing diffe | Aung San TB Hospital | Patheingyi TB Hospital | East Yangon General Hospital | Mingalardon Hospital | Wabargi Specialist Hosipital | No.1MBH (PyinOoLwin) | 1000 beded Hospital (Nay Pyi Taw) | AZG (Yangon) | AZG (Kachin) | PSI | AZG (Shan-North) | AZG (Rakhine) | MMA | AHRN (Shan North) | Thingangyun Sanpya Hospital | Medecins du monde | New Yangon General Hospital | West Yangon General Hospital | Total |
| | , | 01.10 | _ | 2 | 3 | 4 | 5 | 9 | 7 | 8 | 6 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |

TREATMENT OUTCOMES OF TREATMENT AFTER DEFAULTER (2008 COHORT)

| unit | Total | าดเลา | 22 | 7 | 3 | | 11 | | | 2 | 3 | 37 | 24 | | | | 0 | 5 | 7 | | 101 |
|----------------------|-----------|----------------|----------------------|------------------------|------------------------------|----------------------|------------------------------|----------------------|-----------------------------------|--------------|--------------|-----|------------------|---------------|-----|-------------------|-----------------------------|-------------------|-----------------------------|------------------------------|------|
| Other reporting unit | | _ | 2% | 29% | 33% | | %0 | | | %0 | 33% | %0 | 4% | | | | | 20% | %0 | | , 00 |
| r repo | l ranster | Rate | | 7 | 3 | | | | | | 3 | | | | | | | 2 | | | _ |
| Othe | ١L | S | 1 | 2 | 7 | | 0 | | | 0 | 1 | 0 | 1 | | | | | 7 | 0 | | ١ |
| - | Detaulted | Rate | 32% | 29% | %0 | | %0 | | | 50% | %0 | 19% | 13% | | | | | 20% | %0 | | , |
| í | Deta | 9 N | 7 | 2 | 0 | | 0 | | | _ | 0 | 7 | 3 | | | | | ~ | 0 | | ; |
| | Failure | Rate | %6 | %0 | %0 | | %0 | | | %0 | %0 | 2% | 8% | | | | | %0 | %0 | | -5. |
| ļ | Fai | No | 2 | 0 | 0 | | 0 | | | 0 | 0 | 2 | 2 | | | | | 0 | 0 | | • |
| | þ | Rate | 27% | 14% | %0 | | 22% | | | %0 | %0 | 2% | 13% | | | | | 40% | %0 | | , , |
| i | Died | No | 9 | _ | 0 | | 9 | | | 0 | 0 | 2 | 3 | | | | | 2 | 0 | | 00 |
| - | eted | Rate | 2% | %0 | %29 | | %0 | | | %0 | %29 | 2% | 13% | | | | | 20% | 71% | | ,00, |
| (| Completed | No | 1 | 0 | 2 | | 0 | | | 0 | 2 | 2 | 3 | | | | | _ | 5 | | 0, |
| - | əq | CR | 23% | 29% | %0 | | 45% | | | 20% | %0 | %59 | 20% | | | | | %0 | 29% | | ,007 |
| Ó | Cured | No | 5 | 2 | 0 | | 5 | | | 1 | 0 | 24 | 12 | | | | | 0 | 2 | | 7 |
| : | TOTAL | | 22 | 7 | 3 | | 11 | | | 2 | 3 | 37 | 24 | | | | 0 | 2 | 7 | | 70, |
| | | Silling dillis | Aung San TB Hospital | Patheingyi TB Hospital | East Yangon General Hospital | Mingalardon Hospital | Wabargi Specialist Hosipital | No.1MBH (PyinOoLwin) | 1000 beded Hospital (Nay Pyi Taw) | AZG (Yangon) | AZG (Kachin) | PSI | AZG (Shan-North) | AZG (Rakhine) | MMA | AHRN (Shan North) | Thingangyun Sanpya Hospital | Medecins du monde | New Yangon General Hospital | West Yangon General Hospital | F |
| | , V | OI.IVO. | 1 | 2 | 3 | 4 | 5 | 9 | 7 | 8 | 6 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |

TREATMENT OUTCOME OF HILAR LYMPHADENOPATHY in 2009 (2008 cohort)

| | | | | | | | | | | | | ~ | 10 | | | | | | | | _ | |
|----------------------|-----------------------|--------------|-----------|----------------------|------------------------|------------------------------|----------------------|------------------------------|----------------------|-----------------------------------|--------------|--------------|-----|------------------|---------------|-----|-------------------|-----------------------------|-------------------|-----------------------------|------------------------------|-------|
| y unit | | Total | | | | | | 27 | | | | 23 | 105 | 1 | | | | | | | | 156 |
| Other reporting unit | | er out | Rate | | | | | %0 | | | | 4% | %0 | %0 | | | | | | | | 1% |
| Other re | | Transfer out | No | | | | | 0 | | | | 1 | 0 | 0 | | | | | | | | 1 |
| | | Ited | Rate | | | | | %0 | | | | 17% | 10% | %0 | | | | | | | | 10% |
| | λ | Defaulted | No | | | | | 0 | | | | 4 | 11 | 0 | | | | | | | | 15 |
| | enopathy | re | Rate | | | | | 4% | | | | %0 | %0 | %0 | | | | | | | | 1% |
| | Hilar Lymphadenopathy | Failure | No | | | | | 1 | | | | 0 | 0 | 0 | | | | | | | | 1 |
| | Hilar L | Γ. | Rate | | | | | 79% | | | | %0 | %2 | %0 | | | | | | | | %6 |
| | | Died | No | | | | | 7 | | | | 0 | 7 | 0 | | | | | | | | 14 |
| | | eted | Rate | | | | | %02 | | | | 78% | 83% | 100% | | | | | | | | %08 |
| | | Completed | No | | | | | 19 | | | | 18 | 87 | 1 | | | | | | | | 125 |
| | | Total No. | Reg: pts: | | | | | 27 | | | | 23 | 105 | 1 | | | | | | | | 156 |
| | | TOWNSHIP | | Aung San TB Hospital | Patheingyi TB Hospital | East Yangon General Hospital | Mingalardon Hospital | Wabargi Specialist Hosipital | No.1MBH (PyinOoLwin) | 1000 beded Hospital (Nay Pyi Taw) | AZG (Yangon) | AZG (Kachin) | PSI | AZG (Shan-North) | AZG (Rakhine) | MMA | AHRN (Shan North) | Thingangyun Sanpya Hospital | Medecins du monde | New Yangon General Hospital | West Yangon General Hospital | Total |
| | | Šr. | | 1 | 2 | 3 | 4 | 2 | 9 | 7 | 8 | 6 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |

TREATMENT OUTCOMES OF OTHER CASES (2008 COHORT)

| | | | | | | | | OTHER | OTHER CASES | | | | | | |
|----|-----------------------------------|-------|----|-------|------|-----------|-----|-------|-------------|---------|-----------|-------|--------|--------------|-------|
| S. | Reporting units | Total | Cn | Sured | Comp | Completed | Dį | Died | Fail | Failure | Defaulted | ulted | Transi | Transfer out | Total |
| 8 | | | No | Rate | No | Rate | No | Rate | No | Rate | No | Rate | No | Rate | |
| 1 | Aung San TB Hospital | 28 | 4 | %2 | 2 | %6 | 19 | 33% | 6 | 16% | 10 | 17% | 11 | 19% | 58 |
| 2 | Patheingyi TB Hospital | 22 | 2 | 4% | 18 | 33% | 7 | 13% | 3 | 2% | 14 | 25% | 11 | 20% | 55 |
| 3 | East Yangon General Hospital | 2 | 0 | %0 | 2 | 100% | 0 | %0 | 0 | %0 | 0 | %0 | 0 | %0 | 2 |
| 4 | Mingalardon Hospital | 137 | 0 | %0 | 88 | %49 | 41 | 30% | 1 | 1% | 2 | 4% | 7 | 1% | 137 |
| 2 | Wabargi Specialist Hosipital | 9 | 0 | %0 | 27 | 45% | 36 | %99 | 0 | %0 | 1 | 2% | 1 | 2% | 65 |
| 9 | No.1MBH (PyinOoLwin) | | | | | | | | | | | | | | |
| 7 | 1000 beded Hospital (Nay Pyi Taw) | | | | | | | | | | | | | | |
| ∞ | AZG (Yangon) | 203 | 0 | %0 | 154 | %92 | 30 | 15% | 1 | %0 | 15 | %/ | ε | 1% | 203 |
| 6 | AZG (Kachin) | 36 | 9 | 25% | 19 | 23% | 1 | 3% | 3 | 8% | 1 | 3% | 3 | 8% | 36 |
| 10 | PSI | 55 | 0 | %0 | 40 | %22 | 2 | 10% | 0 | %0 | 2 | 10% | 2 | 4% | 52 |
| 11 | AZG (Shan-North) | 2 | 0 | %0 | 1 | %09 | 0 | %0 | 1 | %09 | 0 | %0 | 0 | %0 | 2 |
| 12 | AZG (Rakhine) | | | | | | | | | | | | | | |
| 13 | MMA | | | | | | | | | | | | | | |
| 14 | AHRN (Shan North) | | | | | | | | | | | | | | |
| 15 | Thingangyun Sanpya Hospital | | | | | | | | | | | | | | |
| 16 | Medecins du monde | 1 | 0 | %0 | 0 | %0 | 0 | %0 | 1 | 100% | 0 | %0 | 0 | %0 | 1 |
| 17 | New Yangon General Hospital | 2 | 1 | 20% | 0 | %0 | 0 | %0 | 0 | %0 | 1 | 20% | 0 | %0 | 2 |
| 18 | West Yangon General Hospital | | | | | | | | | | | | | | |
| | Total | 613 | 16 | 3% | 354 | 28% | 139 | 23% | 19 | 3% | 52 | 8% | 33 | 2% | 613 |

| | | | PRIM | RIMARY COMPLEX | MPLEX | | | | | | | TB MENINGITIS | INGITIS | | |
|----------|-------------------------------------|-----------|-----------|----------------|----------|------|-----------|----------|-------|------------------|--------|---------------|-----------|--------------------|-------|
| S. | r. Reporting units | Total No. | Completed | leted | Died | peta | Defaulted | Transfer | Total | Total No Comple- | -aldwo | Died | Defaulted | Defaulted Transfer | Total |
| Š | 0. | Reg pts | No | Rate | | oN | Rate | out | | Reg pts | ted | | | out | |
| _ | Aung San TB Hospital | 1 | 0 | %0 | 0 | l | 100% | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| 2 | ! Patheingyi TB Hospital | 7 | 2 | 100% | 0 | 0 | %0 | 0 | 7 | | | | | | |
| 3 | East Yangon General Hospital | 116 | 81 | %02 | 1 | 08 | 76% | 4 | 116 | | | | | | |
| 4 | Mingalardon Hospital | | | | | | | | | | | | | | |
| 2 | Wabargi Specialist Hosipital | 204 | 160 | 78% | 40 | 7 | 7% | 0 | 204 | | | | | | |
| 9 | No.1MBH (PyinOoLwin) | | | | | | | | | | | | | | |
| _ | 7 1000 beded Hospital (Nay Pyi Taw) | | | | | | | | | | | | | | |
| 8 | HAZG (Yangon) | 62 | 54 | 81% | 8 | 9 | %8 | 0 | 62 | 9 | 3 | 2 | 1 | 0 | 9 |
| 6 |) AZG (Kachin) | 2 | 2 | 100% | 0 | 0 | %0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | l PSI | 2223 | 2121 | 92% | 11 | 08 | 4% | 11 | 2223 | 2 | 4 | 1 | 0 | 0 | 5 |
| 11 | 1 AZG (Shan-North) | 1 | 1 | 100% | 0 | 0 | %0 | 0 | 1 | 3 | 1 | 0 | 2 | 0 | 3 |
| <u>'</u> | 12 AZG (Rakhine) | 1 | 1 | 100% | 0 | 0 | %0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 2 |
| Ť | 13 MMA | | | | | | | | | | | | | | |
| 1 | 14 AHRN (Shan North) | | | | | | | | | | | | | | |
| Ť | 15 Thingangyun Sanpya Hospital | 8 | 3 | 100% | 0 | 0 | %0 | 0 | ε | | | | | | |
| 1 | 16 Medecins du monde | 2 | 9 | %98 | 0 | 0 | %0 | 1 | 2 | | | | | | |
| 17 | 7 New Yangon General Hospital | | | | | | | | | | | | | | |
| 1 | 18 West Yangon General Hospital | | | | | | | | | | | | | | |
| | Total | 7622 | 2431 | 93% | <u> </u> | 120 | %5 | 16 | 2622 | 11 | 10 | 4 | 3 | 0 | 17 |
| | | | | | | | | | | | | | | | |

NATIONAL TUBERCULOSIS PROGRAMME

REPORTING STATUS (2009)

| STATE / | DOTS | 1st (| 1st Quarter 2009 | 600 | 2nd G | 2nd Quarter 2009 | 60 | 3rd C | 3rd Quarter 2009 | 60(| 4th (| Quarter 2009 | 600 | | Annual 2009 | |
|----------------------|-----------|----------|------------------|----------|----------|------------------|----------|----------|------------------|----------|----------|--------------|----------|----------|-------------|----------|
| | | | | not | | | not | | | not | | | not | | | not |
| DIVISION | Townships | Received | % | received | Received | % | received | Received | % | received | Received | % | received | Received | % | received |
| Kachin State | 18 | 13 | 74% | 2 | 14 | %82 | 2 | 14 | %82 | 4 | 13 | 72% | 2 | 15 | 83% | 8 |
| Kayah State | 7 | 7 | 100% | 0 | 7 | 100% | 0 | 7 | 100% | 0 | 7 | 100% | 0 | 7 | 100% | 0 |
| Chin State (South) | 4 | 4 | 100% | 0 | 4 | 100% | 0 | 4 | 100% | 0 | 4 | 100% | 0 | 4 | 100% | 0 |
| Chin State (North) | 2 | 2 | 100% | 0 | 2 | 100% | 0 | 2 | 100% | 0 | 4 | %08 | - | 2 | 100% | 0 |
| Sagaing Division | 37 | 37 | 100% | 0 | 37 | 100% | 0 | 37 | 100% | 0 | 37 | 100% | 0 | 37 | 100% | 0 |
| Magway Division | 25 | 25 | 100% | 0 | 25 | 100% | 0 | 25 | 100% | 0 | 25 | 100% | 0 | 25 | 100% | 0 |
| Mandalay Division | 34 | 31 | 100% | 0 | 31 | 100% | 0 | 31 | 100% | 0 | 31 | 100% | 0 | 31 | 100% | 0 |
| Shan State (South) | 21 | 21 | %66 | 0 | 21 | 100% | 0 | 21 | 100% | 0 | 21 | 100% | 0 | 21 | 100% | 0 |
| Shan State (East) | 10 | 7 | %02 | _ | 6 | %06 | _ | o | %06 | - | တ | %06 | - | 0 | %06 | 1 |
| Shan State (North) | 24 | 19 | %62 | 2 | 18 | %92 | 9 | 18 | %92 | 9 | 19 | %62 | 2 | 19 | %62 | 2 |
| Kayin State | 7 | 7 | 100% | 0 | 7 | 100% | 0 | 7 | 100% | 0 | 7 | 100% | 0 | 7 | 100% | 0 |
| Tanintharyi Division | 10 | 10 | 100% | 0 | 10 | 100% | 0 | 10 | 100% | 0 | 10 | 100% | 0 | 10 | 100% | 0 |
| Bago (East) Division | 41 | 14 | 100% | 0 | 4 | 100% | 0 | 4 | 100% | 0 | 4 | 100% | 0 | 41 | 100% | 0 |
| Bago (West) Division | 4 | 14 | 100% | 0 | 4 | 100% | 0 | 4 | 100% | 0 | 4 | 100% | 0 | 41 | 100% | 0 |
| Mon State | 10 | 10 | 100% | 0 | 10 | 100% | 0 | 10 | 100% | 0 | 10 | 100% | 0 | 10 | 100% | 0 |
| Rakhine State | 17 | 17 | 100% | 0 | 17 | 100% | 0 | 17 | 100% | 0 | 17 | 100% | 0 | 17 | 100% | 0 |
| Yangon Division | 45 | 45 | 100% | 0 | 45 | 100% | 0 | 45 | 100% | 0 | 45 | 100% | 0 | 45 | 100% | 0 |
| Ayeyarwaddy Division | 26 | 26 | 100% | 0 | 26 | 100% | 0 | 26 | 100% | 0 | 26 | 100% | 0 | 26 | 100% | 0 |
| Total | | | | | | | | | | | | | | | | |
| townships | 325 | 312 | %96 | 13 | 314 | %26 | 12 | 314 | %26 | 7 | 313 | %96 | 12 | 316 | %26 | 6 |
| | | | | 4% | | | 4% | | | 3% | | | 4% | | | 3% |
| | | | | | | | | | | | | | | | | |

Annual report had not been received from (9) Townships

Kachin State (3) Tsps 1. N'ganyan, 2.Hsawlaw, 3.Khaunglanbu

Shan (N) State (5)Tsps 1. Kongyan 2. Nanphant 3. Panwine 4. Mongmaw 5. Manphant

Shan (E) State (1)Tsps 1. Matman

NATIONAL TUBERCULOSIS PROGRAMME (Myanmar)
EVALUATION OF TB CONTROL ACTIVITIES IN TOWNSHIPS (2008-2009)

| (TSR) NTP + other unit | %82 | 82% | %68 | 85% | 87% | %98 | %98 | 84% | %08 | 82% | %62 | %28 | 85% | %98 | %98 | 87% | %88 | | | |
|--|--------------|-------------|------------|------------------|-----------------|-------------------|--------------------|-------------------|--------------------|-------------|----------------------|----------------------|----------------------|-----------|---------------|-----------------|------------------|------------------------|-------------|------------------------|
| (TSR) NTP only | %82 | 82% | %06 | 85% | %98 | 87% | %98 | 84% | %08 | 83% | %62 | 87% | 85% | 85% | %98 | 88% | 88% | %98 | %08 | % 28 |
| (CR) NTP+ other unit | 72% | 93% | 71% | 77% | 75% | %62 | %08 | %02 | %89 | %92 | 73% | %82 | %62 | %08 | 74% | 81% | %08 | | | |
| (CR) NTP only | 73% | %89 | 71% | %82 | %92 | 81% | %08 | %02 | %69 | %92 | 74% | %82 | 80% | 81% | 74% | 82% | 81% | %62 | 71% | %82 |
| Sputum Conversion Rate | 19 | 9 | 13 | 13 | 19 | 22 | 13 | 17 | 21 | 19 | 38 | 22 | 24 | 15 | 21 | 25 | 23 | 20 | 18 | 20 |
| Sputum Positivity Rate | 84% | %06 | 83% | %68 | %88 | 87% | 87% | 83% | 83% | 87% | 85% | %06 | %88 | %88 | 87% | 91% | 91% | %68 | 83% | %88 |
| Ratio of NSS+ to NSS (-) cases | 0.9:1 | 0.5:1 | 0.4:1 | 1.7:1 | 0.9:1 | 1:1 | 0.8:1 | 0.8:1 | 1:1 | 0.4:1 | 0.3:1 | 0.7:1 | 0.6:1 | 0.5:1 | 0.7:1 | 1:1 | 1.1:1 | 0.8:1 | 0.7:1 | 0.8:1 |
| Ratio of NSS+ to NSS (*)cases and EP cases | 0.4:1 | 0.1:1 | 0.2:1 | 0.6:1 | 0.4:1 | 0.4:1 | 0.5:1 | 0.5:1 | 0.5:1 | 0.4:1 | 0.2:1 | 0.6:1 | 0.5:1 | 0.4:1 | 0.5:1 | 0.7:1 | 0.7:1 | 0.5:1 | 0.5:1 | 0.5:1 |
| Prop: of SS(+) pul:TB cases out of all pul: | 21% | 39% | 35% | %99 | 51% | 54% | 47% | 20% | 52% | 33% | 28% | 46% | 38% | 35% | 45% | 22% | 22% | 49% | 46 % | 48% |
| (CDR) NTP + other unit | 150% | %09 | 40% | 70% | 80% | 82% | 51% | %06 | 71% | 97% | 75% | 103% | 114% | 129% | 91% | 110% | 102% | | | İ |
| (CDR) NTP only | 122% | %09 | 40% | 61% | %29 | 64% | 49% | %06 | %99 | 95% | 72% | 82% | 105% | 114% | 87% | 85% | 95% | %62 | | %56 |
| Total notified TB cases | 5169 | 1177 | 1213 | 8116 | 7900 | 11991 | 2524 | 1511 | 3781 | 3940 | 6092 | 5008 | 4965 | 6508 | 8699 | 22598 | 11593 | 110784 | 23239 | 134023 |
| Total New Smear Positive detected | 1255 | 131 | 151 | 2909 | 2052 | 3360 | 780 | 483 | 1140 | 1061 | 885 | 1764 | 1588 | 1758 | 2199 | 8329 | 4507 | 34352 | 7037 | 41389 |
| Estimated New S(+) | 1032 | 217 | 381 | 4744 | 3070 | 5238 | 1589 | 534 | 2035 | 1153 | 1235 | 2142 | 1519 | 1540 | 2517 | 9801 | 4899 | 43645 | | 43646 |
| Population | 1376067 | 288919 | 508351 | 6325851 | 4092771 | 6983424 | 2119301 | 712093 | 2712893 | 1537453 | 1646224 | 2855562 | 2025688 | 2053149 | 3355941 | 5782463 | 6531731 | 50907881 | | 50907881 |
| State/Division | Kachin State | Kayah State | Chin State | Sagaing Division | Magway Division | Mandalay Division | Shan State (South) | Shan State (East) | Shan State (North) | Kayin State | Tanintharyi Division | Bago (East) Division | Bago (West) Division | Mon State | Rakhine State | Yangon Division | Ayeyarwaddy Div. | All State and Division | Other Unit | Total Union of Myanmar |
| No. of total Tsp. | 18 | 7 | 6 | 37 | 25 N | 31 | 21 | 10 | 24 | 7 | 10 | 14 E | 14 E | 10 N | 17 F | 45 | 26 | 325 | | Total |
| No.of Reported Tsp. | 15 | 7 | 6 | 37 | 25 | 31 | 21 | 6 | 19 | 7 | 10 | 14 | 14 | 10 | 17 | 45 | 26 | 316 | 18 | |

NATIONAL TUBERCULOSIS PROGRAMME (Myanmar)
EVALUATION OF TB CONTROL ACTIVITIES IN TOWNSHIPS (2008-2009)

| | Estimated | | Total | | (CDR) | (CDR) NTP + | Prop: of SS(+) | Ratio of NSS+ | Ratio of NSS+ to NSS | Sputum | Sputum | (CR) | (CR) NTP+ | (TSR) | (TSR) NTP + |
|--------------------------|-----------|----|----------|-------------|-------|----------------|-----------------------------|-----------------|-------------------------|------------|------------|------|--------------|-------|----------------|
| Z | (+)S weN | | New Sme | notified in | | otner | pul:TB cases | to NSS (-)cases | (-)cases | Positivity | Conversion | only | otner | | otner |
| Cases Pusitive detected | | | detected | - D Casas | | | out or all pul: TB cases | and Er cases | | Kale | Kale | | | | |
| Kachin State | | | | | | | | | | | | | | | |
| Bahmo 108113 81 80 | 81 | | 80 | 358 | %66 | 136% | 43% | 0.33:1 | 0.6:1 | 23 | %68 | %98 | %98 | %98 | 87% |
| Mansi 68836 52 56 | 52 | | 99 | 135 | 108% | | %59 | 0.93:1 | 1.6:1 | 43 | 91% | 71% | | 71% | |
| Momauk 93146 70 27 | 70 | | 27 | 135 | 39% | 49% | 41% | 0.26:1 | 0.6:1 | 25 | 100% | 84% | 64% | 84% | %11 |
| Shwegu 81593 61 30 | 61 | | 30 | 104 | 49% | %02 | 44% | 0.43:1 | 0.7:1 | 13 | 73% | 82% | 81% | %26 | 94% |
| Mohynin 201879 151 120 | 151 | | 120 | 628 | %62 | %56 | 45% | 0.25:1 | 0.7:1 | 21 | 82% | 75% | 73% | %62 | 77% |
| Kamaing 147597 111 190 | 111 | | 190 | 426 | 172% | 261% | 82% | 0.97:1 | 3.7:1 | 24 | 71% | 54% | 71% | %59 | %62 |
| Mogaung 134989 101 134 | 101 | | 134 | 594 | 132% | 149% | 43% | 0.31:1 | 0.7:1 | 21 | 88% | %69 | %89 | %92 | %62 |
| Tanai 37899 28 65 | 28 | | 92 | 138 | 229% | | %69 | 1.05:1 | 1.9:1 | 22 | 88% | 26% | | %69 | |
| Myitkyina 204102 153 371 | 153 | | 371 | 1758 | 242% | 291% | 49% | 0.32:1 | 0.8:1 | 17 | %68 | 71% | %69 | 74% | 73% |
| Chipway 18277 14 6 | 14 | | 9 | 19 | 44% | | 53% | 0.67:1 | 0.7:1 | 32 | 83% | 100% | | 100% | |
| Hsawlaw 6617 5 | | 2 | | | | | | Nr. | | | | | | | |
| N Jan Yan 8658 6 | | 9 | | | | | | Nr. | | | | | | | |
| Waingmaw 115580 87 108 | 87 | | 108 | 658 | 125% | 155% | 47% | 0.21:1 | 0.7:1 | 13 | 84% | 82% | %08 | %88 | %68 |
| PutaO 87194 65 67 | 65 | | 29 | 210 | 102% | | 52% | 0.53:1 | 0.9:1 | 23 | %62 | %62 | | 85% | |
| Khaunglanbu 14550 11 | | 11 | | | | | | Nr. | | | | | | | |
| Machanbaw 20782 16 0 | 16 | | 0 | 3 | %0 | | 33% | 0:1 | 0:1 | 20 | %0 | %29 | | %29 | |
| Nogmun 11420 9 1 | 0 | | - | _ | 12% | | 100% | 1:'0 | 1:'0 | | | | | | |
| Sumprabon 14835 11 0 | 11 | | 0 | 2 | %0 | | %0 | 0:1 | 0:1 | | | | | %0 | |
| Total 1376067 1032 1255 | 1032 | | 1255 | 5169 | 122% | 150% | 51% | 0.36:1 | 0.9:1 | 19 | 84% | 73% | 72% | 78% | 78% |
| | | | | | | | | | | | | | | | |

 * Note * (Nr.) Report had not been received from townships Nr. 3 Tsp; 1.N'ganyan. 2. Hsawlaw, 3 Khaunglanbu

| Z. | | | Estimated | Total | Total | (CDR) | (CDR) | Prop: of SS(+) | Ratio of NSS+ | Ratio of NSS+ | Sputum | Sputum | (CR) | (CR) | (TSR) | (TSR) |
|----|-------------|------------|-------------------|-----------------------------------|----------------------|-------|-------|---|---------------------------------|-----------------|--------------------|--------------------|------|-------|-------|-------|
| ٥ | TOWNSHIP | Population | New S(+) cases | New Smear Positive detected | notified TB cases | > | other | pul:TB cases out of all pul: TB cases | to NSS (-)cases and EP cases | to NSS (-)cases | Positivity Rate | Conversion Rate | only | other | | other |
| | Kavah State | | | | | | | | | | | | | | | |
| _ | Bawlake | 9826 | 2 | 6 | 27 | 122% | | 61% | 0.56:1 | 1.3:1 | 11 | 100% | 26% | | %29 | |
| 2 | Masai | 12406 | 6 | 2 | 11 | 75% | | 100% | 7:1 | 0:2 | 18 | 100% | 20% | | 100% | |
| က | Pasaung | 34845 | 26 | 22 | 65 | 84% | | %62 | 0.59:1 | 3.1:1 | 41 | %26 | 18% | | 64% | |
| 4 | Loikaw | 105384 | 79 | 77 | 945 | %26 | | 30% | 0.09:1 | 0.4:1 | 5 | %28 | %69 | | %08 | |
| 2 | Dimawhso | 95499 | 72 | 14 | 92 | 20% | | 47% | 0.18:1 | 0.8:1 | 7 | %86 | %92 | | %58 | |
| 9 | Phruhso | 28000 | 21 | 2 | 31 | 10% | | 20% | 0.08:1 | 0.4:1 | 8 | 20% | %89 | | 100% | |
| 7 | Shataw | 2929 | 2 | 0 | 3 | %0 | | 100% | 0:1 | 0:0 | 0 | | 0% | | 100% | |
| | Total | 288919 | 217 | 131 | 1177 | %09 | | 39% | 0.13:1 | 0.5:1 | 6 | %06 | 63% | | 82% | |
| | Chin State | | | | | | | | | | | | | | | |
| _ | Falam | 52210 | 39 | 14 | 131 | 36% | 36% | 46% | 0.15:1 | 0.3:1 | 18 | 100% | %98 | %98 | %98 | %98 |
| 7 | Hakha | 57884 | 43 | 20 | 298 | 46% | | 31% | 0.08:1 | 0.4:1 | 8 | %28 | 81% | | %28 | |
| က | Htantalan | 70048 | 53 | 3 | 36 | %9 | | 18% | 0.09:1 | 0.2:1 | 22 | %09 | 100% | | 100% | |
| 4 | Tiddim | 90408 | 89 | 28 | 290 | 41% | 44% | 34% | 0.11:1 | 0.5:1 | 14 | %68 | %62 | 422 | %06 | 87% |
| 2 | Tunzan | 32470 | 24 | 12 | 137 | 49% | 20% | 17% | 0.1:1 | 0.2:1 | 24 | 71% | %08 | %08 | 100% | 100% |
| 9 | Mindat | 43148 | 32 | 27 | 173 | 83% | | 40% | 0.21:1 | 0.5:1 | 12 | 81% | 40% | | %08 | |
| 7 | Kanpetlet | 18933 | 14 | 0 | 19 | %0 | | %0 | 0:1 | 0:1 | 0 | | 38% | | 100% | |
| ∞ | Matupi | 56765 | 43 | 15 | 58 | 35% | | 31% | 0.37:1 | 0.5:1 | 11 | 71% | %29 | | 100% | |
| 6 | Paletwa | 86485 | 65 | 32 | 71 | 49% | | 65% | 0.89:1 | 1.7:1 | 19 | 84% | 84% | | 95% | |
| | Total | 508351 | 381 | 151 | 1213 | 40% | 40% | | 0.15:1 | 0.4:1 | 13 | 83% | 71% | 71% | %06 | 89% |

| (TSR) NTP + other unit | 82% | %68 | | 83% | 89% | 200 | | | 84% | 82% | 81% | 92% | | 82% | | 80% | %92 | | | | | 770/ | 2 | | %08 | | | 95% | | | | | | | | 85% |
|--|---------|------------|--------|--------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|--------|--------|----------|----------|--------|---------|------------|------------|------------|--------|------------|--------|--------|--------|---------|-------------|--------|---------|--------|-------|--------|---------|
| (TSR) NTP only | %28 | %68 | %26 | 82% | %0% | 87% | %26 | 91% | 82% | 82% | 77% | 94% | %82 | 85% | 100% | 80% | %92 | 94% | 81% | 91% | 79% | 770/ | 85% | 87% | %62 | %86 | %96 | 95% | 94% | 80% | 75% | 80% | %68 | %88 | 86% | 85% |
| (CR) NTP+ other unit | | 72% | | 73% | %9 <i>/</i> | 2 | | | %62 | 82% | 77% | 88% | | %08 | | 26% | 74% | | | | | 660/ | 8 | | 78% | | | 94% | | | | | | | | 41% |
| (CR) NTP only | 81% | 72% | %26 | 75% | %8 <i>/</i> | 44% | 86% | 78% | %83% | 82% | 73% | 91% | %82 | %62 | 73% | 26% | 74% | 92% | 80% | 64% | 65% | 0/ /0 | %89 | 87% | %62 | %88 | %96 | 94% | 71% | % E9 | 64% | 21% | %68 | %89 | 71% | %82 |
| Sputum Conversion Rate | 83% | 85% | 98% | 94% | %10 %90 | 84% | %86 | 97% | %56 | 86% | 85% | 98% | 81% | 85% | 64% | 80% | 92% | 93% | 89% | 94% | %69 | 7070 | %98 86% | 72% | 85% | 94% | %26 | 92% | 82% | 81% | 85% | %06 | 71% | %98 | 25% | 89% |
| Sputum Positivity Rate | 16 | 10 | 7 | 12 | | , 10 | 14 | 17 | 13 | 13 | 18 | 8 | 18 | 13 | 29 | 8 | 13 | 10 | 12 | 14 | 11 | <u>.</u> 5 | 11 | 13 | 23 | 2 | 15 | 19 | 9 | 15 | 16 | 11 | 12 | 18 | 31 | 13 |
| Ratio of NSS+ to NSS (-)cases | 2.3:1 | 7.8:1 | 1.3:1 | 1.2:1 | 6.3 | 2:1 | 3.9:1 | 2.7:1 | 5.8:1 | 1.1:1 | 2:1 | 3.3:1 | 2.3:1 | 0.7:1 | 1.8:1 | 2.1:1 | 4.2:1 | 1:1 | 1.8:1 | 6.2:1 | 2:1 | 4 4:4 | 4.2:1 | 3.3:1 | 1.2:1 | 2.1:1 | 3.6:1 | 1:1 | 1.4:1 | 2.3:1 | 1.4:1 | 0.8:1 | 0.8:1 | 2.5:1 | 0.1:1 | 1.7:1 |
| Ratio of NSS+ to NSS (-) cases and EP cases | 0.66:1 | 1.24:1 | 0.79:1 | 0.46:1 | 0.38.1 | 0.67:1 | 1.06:1 | 0.87:1 | 0.71:1 | 0.4:1 | 0.94:1 | 1.91:1 | 0.56:1 | 0.57:1 | 0.82:1 | 0.64:1 | 1.33:1 | 0.56:1 | 0.8:1 | 2.38:1 | 1.09:1 | 0.76.1 | 1.79:1 | 1.8:1 | 0.23:1 | 0.73:1 | 1.32:1 | 0.38:1 | 0.55:1 | 079:1 | 0.87:1 | 0.7:1 | 0.33:1 | 1:1 | 0.1:1 | 0.61:1 |
| Prop. of SS(+) pul:TB cases out of all pul: TB cases | 71% | %68 | %09 | 56% | %17% | %89 | 81% | 75% | 87% | 54% | %02 | 78% | 72% | 44% | 66% | 70% | 81% | 52% | %29 | 88% | %89 20% | 620/ | 81% | %62 | 28% | %02 | 79% | 54% | 60% | 72% | 63% | 48% | 47% | 75% | 23% | 66% |
| (CDR) NTP + other unit | 85% | 46% | | 58% | 31% 65% | 200 | | | %02 | 44% | 85% | 74% | | %09 | | 34% | %99 | | | | | 730/ | 2 | | 154% | | | 254% | | | | | | | | 70% |
| (CDR) | %89 | 45% | 71% | 45% | 40% | %92 | 40% | 47% | 28% | 44% | 63% | %29 | 61% | 21% | 32% | 33% | %99 | 33% | 75% | 40% | 53% | 0000 | 50% | 28% | %86 | %09 | %09 | 254% | 24% | 29% | 242% | %62 | 46% | 82% | 7% | 61% |
| Total notified N | 532 | 118 | 208 | 395 | 234 | 130 | 112 | 172 | 325 | 215 | 452 | 195 | 261 | 153 | 104 | 129 | 159 | 124 | 218 | 48 | 101 | 1 1 1 1 1 | 8 | 62 | 1270 | 84 | 104 | 703 | 32 | 129 | 172 | 293 | 30 | 78 | 25 | 8116 |
| Total New Smear Positive detected | 201 | 62 | 88 | 119 | 901 | 50 | 22 | 92 | 127 | 22 | 195 | 122 | 87 | 54 | 45 | 46 | 88 | 43 | 06 | 31 | 49 | 60 6 | 20 | 36 | 233 | 33 | 28 | 185 | 11 | 54 | 74 | 111 | 7 | 35 | 4 | 2909 |
| Estimated New S(+) cases | 298 | 138 | 124 | 263 | 147 | 99 | 138 | 163 | 218 | 129 | 309 | 183 | 143 | 105 | 127 | 137 | 134 | 131 | 121 | 78 | 93 | 118 | 101 | 62 | 239 | 22 | 26 | 73 | 46 | 92 | 31 | 141 | 15 | 41 | 22 | 4744 |
| | | 32 | 168 | 351 | 0 0 | 87987 | 184205 | 217437 | 290688 | 172050 | 412070 | 243833 | 190532 | 140336 | 169551 | 183135 | 178851 | 174058 | 160703 | 104386 | 123947 | 15/26/1 | 134109 | 82337 | 318524 | 72826 | 129137 | 97010 | 61760 | 122349 | 40841 | 187739 | 20340 | 54955 | 76045 | 6325851 |
| Population | 396862 | 183492 | 165468 | 35035 | 311018 | 8/18 | 18 | 2 | 2 | 1 | 4 | 2 | Ì | | | | | | | _ | _ | | | | | | | | | | | | | | Щ | |
| Sr.N TOWNSHIP Population | ing ing | | | | Khin-11 195 | a | | | it | | | , | | ChaungU | Kani | Pale | Salingyi | Yinmabin | Katha | Banmauk | Htigyaing | Kowlin | Pinlebu | Wuntho | Kalay | Kalewa | Minkin | Tamu | Mawlaik | Phaungbyin | Khamti | Homalin | Layshi | Lahel | Nanyun | Total |

| z ŭ | | | Estimated | Total | Total | (a) | (CDR) | Prop: of SS(+) | (CDR) Prop: of SS(+) Ratio of NSS+ Ratio of NSS+ Sputum Sputum | Ratio of NSS+ | Sputum | Sputum | (CR) | (CR) | (TSR) | (TSR) |
|--------|-----------------------|------------|-----------|-----------------------------|----------|----------------|------------------|-----------------|--|--------------------|------------|------------|------|-------------------------------|--------------|-------|
| ٥ | TOWNSHIP | Population | New S(+) | New S(+) New Smear notified | notified | NTP only other | other | pul:TB cases | to NSS (-)cases | to NSS (-)cases | Positivity | Conversion | NTP | other | Only Only | other |
| | | | cases | Positive | TB cases | | | out of all pul: | and EP cases | | Rate | Rate | | | | |
| | | | | detected | | | | TB cases | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | Magwe Division | u | | | | | | | | | | | | | | |
| _ | 1 Magwe | 291526 | 219 | 088 | 1088 | | 151% 171% | %95 | 0.56:1 | 1.1:1 | 27 | %08 | | 71% 71% 80% 81% | 80% | 81% |

| 71% 71% 80% 81% | 70% 68% 83% 83% | 89% 84% 89% 89% | | %96 %96 | 74% | 96% 74% 86% 83% 93% | 96% 74% 86% 83% 93% 67% 88% | 96% 74% 86% 83% 93% 67% 88% 89% | 67% 88% 93% 88% 88% 89% 95% | 96% 74% 86% 83% 93% 67% 88% 89% 89% 95% 95% 95% | 96% | 96% 86% 83% 93% 67% 88% 89% 95% 95% 95% 95% 95% 95% 95% 95% 95% 9 | 96% 86% 83% 93% 67% 88% 89% 95% 95% 95% 95% 95% 95% 95% 95% 95% 9 | 96% 74% 86% 83% 93% 67% 88% 89% 95% 95% 61% 95% 88% | 96% | 96% 74% 86% 83% 93% 67% 88% 89% 89% 89% 95% 61% 97% 88% 66% 74% | 96% 83% 83% 93% 67% 88% 89% 95% 61% 95% 89% 86% 74% 88% 66% 74% 88% | 96% 74% 86% 83% 93% 67% 88% 89% 95% 61% 95% 61% 74% 66% 74% 79% 82% 86% | 96% 74% 86% 83% 93% 67% 88% 88% 89% 95% 89% 95% 61% 97% 66% 74% 88% 66% 74% 88% 66% 74% 71% 91% | 96% 74% 86% 83% 93% 67% 88% 88% 89% 95% 95% 61% 97% 61% 97% 66% 74% 71% 91% 63% 73% | 96% 74% 86% 83% 93% 67% 88% 88% 89% 95% 61% 97% 61% 97% 66% 74% 71% 91% 63% 73% 63% 73% | 96% | 96% 74% 86% 83% 93% 67% 88% 88% 89% 95% 61% 95% 66% 74% 79% 82% 86% 73% 71% 91% 63% 71% 91% 63% 71% 90% 90% 90% | 96% 74% 86% 83% 93% 67% 88% 88% 89% 95% 95% 61% 97% 66% 74% 79% 88% 66% 74% 63% 71% 91% 63% 71% 91% 63% 71% 91% 63% 100% | 96% 74% 86% 83% 93% 67% 88% 88% 89% 95% 95% 61% 97% 61% 97% 62% 74% 73% 73% 100% 73% 73% |
|-------------------------------|-------------------------------|-------------------------------|---|------------|------------------------|----------------------------|--------------------------------------|--|--|--|--|---|--|---|---|--|---|--|---|---|---|--|---|--|--|
| 27 80% | . 33% | 12 01% | 2 | 100% | 100% | 100% | 100% 83% 88% 89% | 100% 83% 88% 88% 89% | 83% 83% 88% 89% 97% 100% | 83% 83% 88% 89% 97% 100% | 83% 88% 89% 97% 100% 100% | 83% 83% 88% 89% 97% 100% 100% 74% | 83% 83% 88% 89% 97% 100% 100% 74% | 100% 83% 88% 89% 97% 100% 74% 100% | 83% 88% 88% 89% 97% 100% 100% 100% 85% | 100% 83% 88% 89% 97% 100% 100% 74% 100% 92% 85% | 100% 83% 88% 89% 97% 100% 100% 74% 100% 92% 85% 91% | 83% 83% 88% 89% 97% 100% 94% 100% 92% 92% 85% 91% 91% | 100% 83% 88% 88% 89% 97% 100% 100% 92% 85% 91% 91% 91% | 100% 83% 88% 88% 89% 97% 100% 100% 100% 91% 91% 91% 91% | 83% 88% 88% 89% 97% 100% 100% 100% 92% 85% 91% 91% 91% 93% | 100% 83% 88% 89% 97% 100% 100% 100% 92% 85% 91% 91% 91% 91% 91% 94% | 100% 83% 88% 89% 97% 100% 100% 22% 85% 91% 91% 91% 91% 91% 94% 100% 1 | 83% 88% 88% 89% 97% 100% 100% 100% 100% 91% 91% 91% 91% 91% 91% 91% 91% 91% 91 | 83% 88% 88% 89% 97% 100% 100% 74% 91% 91% 91% 91% 94% 94% 94% 94% |
| 1.1:1 | :1 0.9:1 | 1.4:1 | | | | | | | | | | | | | | | | | | | | | | | |
| 56% 0.56:1 | 52% 0.47:1 | 59% 0.86:1 | | 1.29:1 | | | | | | | | | | | | | | | | | | | | | |
| 151% 171% | 77% 116% | 70% 72% | | 100% | 100% 45% 56% | 7 | - | 7 | _ | 7 | - | | - | | - | 7 | | | | | | | | | |
| 0 1088 | 2 424 | 311 | | 9 258 | | | | | | | | | | | | | | | | | | | | | |
| 219 330 | 159 122 | 189 | | 129 129 | | | | | | | | | | | | | | | | | | | | | |
| 291526 | 212349 | 252185 | | 172620 | 172620 243381 | 172620 243381 163292 | 172620 243381 163292 315504 | 172620 243381 163292 315504 252219 | 172620 243381 163292 315504 252219 167577 | 172620 243381 163292 315504 252219 167577 244240 | 172620 243381 163292 315504 252219 167577 244240 | 172620 243381 163292 315504 252219 167577 244240 98725 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 | 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 180744 45499 | 243381 163292 315504 252219 167577 244240 98725 122416 66502 66502 53085 180744 45499 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 180744 45499 173892 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 180744 45499 173892 42080 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 180744 45499 173892 42080 253591 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 180744 45499 173892 42080 253591 105669 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 180744 45499 173892 42080 253591 105669 81208 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 180744 45499 173892 42080 253591 105669 109668 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 180744 45499 173892 42080 253591 105669 109668 81208 | 172620 243381 163292 315504 252219 167577 244240 98725 122416 66502 53085 173892 173892 42080 253591 105669 109668 81208 81208 8128 253591 |
| 291 | | | Ī | | | | | | | | | | | | | | | | | | | | | | |

| (TSR) | | | | % 98 | 87 % | | | | % 62 | | | | _ | | | | | | | | | | | | | | | % 06 9 | | | | 81 % | 95% | | %98 |
|----------------|--------------------|-----------------------------|-------------------|--------------|----------------------|----------------|---------------|---------------|--------------|------------|-----------|----------|--------|---------|---------|--------------|---------|--------|----------|---------|--------------|---------|--------|--------|-------------|--------------|--------|---------------|----------|-------------|---------|----------------------|----------|--------|-----------------|
| (TSR) | | | | %88 9 | % 88 % | | | | 82% | | | | | | | | | | | | | | | | | %88 9 | | %06 ° | | | | % 88 % | | %22 9 | % <u>/</u> 8 % |
| (CR) | other | | | %02 | 85% | | | | | | | | | | | | | | | | | | | | | | | %06 | | | | 72% | | | %62 |
| (CR) | NTP | | | %29 | 88% | 78% | %06 | %06 | 73% | 85% | 62% | 78% | %96 | 83% | 86% | 80% | 75% | 79% | 81% | 72% | 95% | %02 | 80% | 95% | %02 | 88% | 86% | %06 | 26% | %29 | 79% | 74% | 90% | 77% | 81% |
| Sputum | Conversion | Rate | | %58 | 95% | 82% | %26 | %26 | 85% | %9/ | 91% | %68 | %88 | %06 | 63% | 83% | 83% | %26 | 82% | 83% | %96 | 72% | 87% | 84% | %62 | %02 | %26 | %88 | %58 | %89 | %62 | 94% | 100% | %26 | %28 |
| Sputum | Positivity | Rate | | 27 | 22 | 18 | 30 | 18 | 25 | 18 | 13 | 18 | 18 | 20 | 19 | 26 | 56 | 22 | 12 | 16 | 10 | 22 | 17 | 22 | 34 | 38 | 42 | 23 | 24 | 35 | 24 | 23 | 20 | 12 | CC |
| Ratio of NSS+ | to NSS (-)cases | | | 1.4:1 | 1:1 | 0.9:1 | 0.9:1 | 1:1 | 0.9:1 | 1:1 | 0.2:1 | 0.5:1 | 2.4:1 | 2.1:1 | 0.7:1 | 2.2:1 | 1.4:1 | 1.2:1 | 0.6:1 | 0.6:1 | 1:1 | 1.1:1 | 0.9:1 | 1.1:1 | 1:1 | 1.4:1 | 4.6:1 | 1:1 | 0.8:1 | 2.7:1 | 0.9:1 | 2.3:1 | 1:1 | 1.4:1 | 4.4 |
| Ratio of NSS+ | to NSS (-)cases | and EP cases | | 0.65:1 | 0.47:1 | 0.41:1 | 0.55:1 | 0.46:1 | 0.4:1 | 0.41:1 | 0.07:1 | 0.37:1 | 0.88:1 | 0.89:1 | 0.28:1 | 1.13:1 | 0.75:1 | 0.51:1 | 0.3:1 | 0.27:1 | 0.26:1 | 0.63:1 | 0.27:1 | 0.68:1 | 0.37:1 | 0.49:1 | 2.29:1 | 0.49:1 | 0.5:1 | 1.04:1 | 0.28:1 | 0.77:1 | 0.33:1 | 0.89:1 | 0.44-1 |
| Prop: of SS(+) | pul:TB cases | out of all pul: TB cases | | 62% | 25% | 23% | 52% | 54% | 21% | 22% | 21% | 37% | 73% | 72% | 47% | 72% | 61% | 29% | 45% | 40% | 21% | 28% | 23% | 29% | 54% | 61% | 83% | %55 | 20% | 74% | 54% | 72% | 21% | %89 | 54% |
| (CDR) | other | | | 110% | 148% | 102% | 208% | 120% | 150% | 84% | 43% | 31% | 63% | 53% | 77% | 110% | 27% | 46% | 34% | 20% | %29 | 26% | %06 | 171% | 158% | 20% | %86 | 32% | 129% | 65 % | 123% | 61% | 21% | 47% | 7 068 |
| (SOR) | > | | | %02 | 119% | 81% | 190% | 101% | 122% | 81% | 20% | 29% | 62% | 44% | %59 | %09 | 76% | 44% | 27% | 47% | 62% | 22% | 47% | 108% | 95% | 48% | 91% | 32% | %96 | 20% | 81% | 51% | 28% | 31% | 64% |
| Total | | TB cases | | 264 | 758 | 548 | 774 | 290 | 514 | 393 | 851 | 181 | 212 | 237 | 929 | 281 | 118 | 149 | 233 | 497 | 407 | 306 | 367 | 327 | 299 | 290 | 280 | 271 | 758 | 235 | 653 | 217 | 223 | 82 | 119911 |
| Total | New Smear | Positive detected | | 66 | 219 | 141 | 247 | 165 | 133 | 105 | 54 | 44 | 92 | 66 | 139 | 135 | 45 | 46 | 49 | 94 | 82 | 107 | 89 | 113 | 77 | 06 | 188 | 83 | 229 | 109 | 137 | 89 | 54 | 34 | 33601 |
| Estimated | Ŧ | cases | | 134 | 185 | 175 | 130 | 164 | 109 | 130 | 267 | 150 | 149 | 224 | 215 | 225 | 176 | 104 | 180 | 202 | 132 | 195 | 144 | 104 | 83 | 189 | 206 | 263 | 239 | 216 | 170 | 174 | 94 | 110 | 5238 |
| | Population | | ion | 178378 | 246220 | 233028 | 173490 | 218577 | 145046 | 173723 | 355886 | 199444 | 198752 | 299002 | 286837 | 299881 | 234263 | 138323 | 240534 | 269023 | 175615 | 259994 | 192044 | 139133 | 111228 | 251473 | 274514 | 350636 | 319219 | 288263 | 226287 | 232564 | 125155 | 146892 | 6983424 |
| | TOWNSHIP | | Mandalay Division | Amarapura | Aungmyaytharzan | Chanayetharzan | Chanmyatharzi | Maharaungmyae | Pyigyitagonn | Patheingyi | Meiktilar | Mahlaing | Tharzi | Wundwin | Myingan | Kyaukpadaung | Natogyi | Ngazun | Taungtha | NyaungU | Pyin oo Lwin | Madayar | Mogok | Sintgu | Thabeikkyin | Yamethin | Lewei | Pyawbwei | Pyinmana | Tatkone | Kyaukse | Myittha | Sintgine | TadaOo | Total |
| Z V | ٥ | | | _ | 7 | က | 4 | 2 | 9 | 7 | ω | 6 | 10 | 1 | 12 | 13 | 14 | | 16 | | 18 | | | | | 23 | 24 | 25 | | . 22 | | 29 | _ | 31 | |

| to NSS (-) Cases to NSS (-) Cases to NSS (-) Cases and EP cases and EP cases and EP cases and EP cases and EP cases are table to table tab | d | | | Estimated | Total | Total | | (CDR) | Prop: of SS(+) | Ratio of NSS+ | Ratio of NSS+ | Sputum | Sputum | | | | (TSR) |
|--|-----|------------|------------|-----------|-----------|----------|-------|-------|-----------------|-----------------|--------------------|------------|------------|-------|----------|-------------|------------|
| Shant (South) State Cases Positive of integral part (South) State TIB cases | 0 O | | Population | | New Smear | | | other | pul:TB cases | to NSS (-)cases | to NSS (-)cases | Positivity | Conversion | NTP | other | NTP only | other |
| Shart (South) State Conting (South) State 1 Conting (South) St | | | | cases | Positive | TB cases | | | out of all pul: | and EP cases | | Rate | Rate | | <u> </u> | | |
| Linkay 61560 46 27 53 58% 62% 1771 1671 1671 1670 100% Meukrae 3006 22 15 26 64% 68% 277 2.771 9.571 9.571 9.575 9.67% Meukrae 3006 22 15 26 64% 68% 2.771 9.571 9.571 9.571 9.571 9.575 9.67% Meukrae 3006 22 15 26 64% 68% 2.771 9.571 9.571 9.571 9.575 9.67% Liulkan 17486 56 56 177 100% 56% 0.571 11.11 2.2 9.87% Mengrae 4333 32 32 32 32 32 32 | | | State | | neicen | | | | I B Cases | | | | | | 1 | | |
| Melakiren 30016 23 149 28 88% 27711 9.5.1 29 10% Mensipang 30016 22 15 26 84% 98% 27.11 1.6.71 29 9.5.7 Moral 4008 3717 28 1.3 21 47% 80% 2.6.1 1.6.1 2.0 98% Moral 37017 28 1.3 21 47% 80% 2.6.1 1.6.1 1.0 1.0 1.0 Kombel 36.40 36.40 36.80 37.1 4.6 1.7 1.0 3.2 3.6 1.0 3.0 | 1 | | | | 27 | 53 | 28% | | 62% | 1.17:1 | 1.6:1 | 16 | 100% | %68 | | %68 | |
| Managang 37017 28 15 26 48% 68% 1671 1871 2 1 100% Managang 37017 28 15 21 100 32% 26% 1671 1 1971 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2 | Maukme | 30016 | | 19 | 29 | 84% | | 95% | 2.71:1 | 9.5:1 | 23 | %56 | %68 | | %68 | |
| Mengpang 37017 28 13 21 47% 80% 2.61 33.1 21 100% Lolen 1 (7128) 60 26 177 107% 32% 0.51.1 1.1.1 22 100% Kunlein 74886 56 57 177 100% 32% 0.51.1 1.1.1 22 100% Kunlein 74886 56 57 177 100% 32% 0.51.1 1.1.1 22 100% Inkopan 72438 27 10 46 21% 42% 0.51.1 0.4.1 27 40% Mongshu 75430 10 46 21% 47% 0.05 1 2.1 7 40% Mongshu 75430 47 42 228 74% 0.05 1 2.1 7 40% Mongshu 75430 47 47 47% 0.02 0.02 1 7 100% | | | 43098 | | 15 | 26 | 46% | | %89 | 1.67:1 | 1.9:1 | 9 | 100% | 100% | | 100% | |
| Loilem 107128 80 26 102 32% 32% 0.47.1 0.41 10 88% Kunhein 35438 26 16 17 100% 32% 0.47.1 1.11.1 2.2 20% Kyeethi 35438 27 10 77 38% 20% 0.15.1 0.21.1 1.11.1 2.2 20% Mongkaing 40331 30 35 96 116% 48% 0.64:1 0.81 9 100% Mongsin 4000 48 24 410 528 74% 34% 0.64:1 0.81 9 100% Memmen 75439 57 42 410 528 74% 37% 0.41 9 40% Holseon 77340 58 27 47% 0.78 0.78 0.41 9 100% Holseon 77340 58 27 57% 57% 0.78 1.21 0.78 1.78 | | | 37017 | 28 | 13 | 21 | 47% | | %08 | 2.6:1 | 3.3:1 | 21 | 100% | | | | |
| Kunhein 74666 56 177 100% 66% 0.51:1 11:1 22 83% Kunhein 40seth 354.38 27 17 100% 56% 0.61:1 0.21:1 50 100% Alseth 4334 27 48 56 176% 48% 0.64:1 0.81 9 100% Mongkaing 121367 91 46 27% 27% 0.64:1 0.81 27 60 Mongkaing 63564 236 27% 27% 0.95:1 0.61 27 77 Mongkaing 77436 27 27% 0.95:1 0.64:1 8 69% Hopone 77340 28 27% 17% 0.24:1 0.41 8 | | Loilem | 107128 | | 26 | 103 | 32% | | 32% | 0.37:1 | 0.4:1 | 10 | %88 | %28 | | %28 | |
| Kyeethi 35438 27 10 76 38% 20% 01551 0.21 50 100% Joknokking 12367 31 96 16% 20% 0.561 2.41 50 100% Joknokking 12367 31 12 46 27% 0.651 2.41 21 74% Mongstu 65654 48 24 103 50% 34% 0.511 0.51 27 88% Mongstu 65654 48 27 41% 0.241 0.51 27 88% Hopone 97136 73 42 27% 17% 0.781 1.21 17 48% Hopone 97136 73 42 42% 57% 41% 6.7% 0.781 1.21 1.4% 6.8% 77% 0.781 1.21 1.4% 8.8% 1.41 6.8% 77% 0.781 1.41 1.41 4.8% 57% 7.7% 0.231 | 9 | Kunhein | 74686 | | 26 | 177 | 100% | | %99 | 0.51:1 | 1.1:1 | 22 | %86 | %69 | | %88 | |
| Laikkia 40331 30 35 96 116% 48% 0.04:1 0.8:1 9 100% Monogkaing 12:1367 91 116% 48% 0.04:1 0.8:1 27 14% Monogkain 65854 95 12 74% 176% 0.05:1 0.5:1 27 14% Namean 75438 57 42 228 74% 0.7:1 0.4:1 27 74% Indoorgalus 65654 25 149 628 37% 0.24:1 0.4:1 27 74% Indoorgalus 77340 58 27 44% 0.24:1 0.4:1 13 86% Helpore 77340 58 27 47% 0.75:1 1.2:1 19 86% Helpora 77340 48 48 51% 38% 0.25:1 1.2:1 1.9 10% Helseng 75 14 48 48% 51% 27% 0.2 | 7 | Kyeethi | 35438 | | 10 | 76 | 38% | | 20% | 0.15:1 | 0.2:1 | 20 | 100% | 86% | | %68 | |
| Mongkaing 121367 91 45 51% 76% 0.95:1 2.4:1 21 74% Mongshu 62664 48 24 103 50% 34% 0.03:1 0.51.1 27 88% 1 Mongshu 75439 57 42 228 74% 0.25:1 0.04:1 8 69% 1 Hopone 75430 278 149 628 57% 14% 0.05:1 0.0:1 1 8 8% Hopone 7730 278 0.0 27% 0.75:1 0.0:1 1 8 8% 1 1 8 8% 1 1 8% 1 1 1 8% 1 1 1 8 8% 1 1 1 1 1 1 1 1 1 1 1 1 8 8 8 8 8 8 8 8 8 8 8 8 | 8 | Laikha | 40331 | 30 | 35 | 96 | 116% | | 48% | 0.64:1 | 0.8:1 | 6 | 100% | 100% | | 100% | |
| Mongshu 63654 48 24 103 50% 34% 0.31:1 0.6:1 27 88% 1 Mamsan 75438 27 42 228 74% 31% 0.24:1 0.6:1 88% 1 Hamsan 75438 25 149 628 57% 41% 0.24:1 0.6:1 88% 1 Hopone 97136 25 25 32% 57% 0.78:1 0.21 1 88% 1 Hopone 97136 25 25 32% 57% 0.78:1 0.21 1 1 88% 1 Hopone 97136 66 27% 57% 0.78:1 1 9 88% Hopone 1736 146 55% 59% 62% 0.78:1 1 9 88% Hopone 13382 100 49 148 49% 51% 1 0.78:1 1 1 1 | 6 | Mongkaing | 121367 | 91 | 19 | 45 | 21% | | %92 | 0.95:1 | 2.4:1 | 21 | 74% | 43% | | 74% | |
| Mamsan 75439 57 42 228 74% 31% 0.241 0.41 8 69% | 10 | Mongshu | 63654 | | 24 | 103 | 20% | | 34% | 0.31:1 | 0.5:1 | 27 | %88 | 100% | | 100% | |
| Taunggyi 345616 256 149 628 57% 41% 0.35:1 0.6:1 13 83% Hopone 97136 72 23 56 32% 57% 0.25:1 0.6:1 13 83% Hopone 77340 773 27 0.26:1 0.23:1 19 86% Histeng 7734 10 45 119 45% 57% 0.26:1 0.3:1 19 86% Histeng 133276 10 45 49 46 55% 59% 62% 0.26:1 1.2:1 1.9 86% Istandauk 155979 117 44 45% 57% 6.22 0.68:1 1.4:1 9 86% Inducty 76 43 49 49 45% 57% 6.22 0.68:1 1.4:1 9 86% Inducty 76 73 74 49 66 70% 71% 0.62:1 0.61 1. | | | 75439 | | 42 | 228 | 74% | | 31% | 0.24:1 | 0.4:1 | 8 | %69 | %89 | | %02 | |
| Hopone 97166 73 23 55 32% 57% 0.79:1 12:1 20 78% Hebkon 77340 58 27% 0.79:1 12:1 20 78% Hebkon 77340 48 27 59% 62% 0.29:1 0.31 19 86% Skalaw 133276 100 49 146 55% 59% 62% 0.62:1 0.31 19 86% Lauksauk 133862 100 49 149 45% 51% 38% 0.52:1 0.31 19 86% Pindauk 1588 10 49 149 45% 67% 62% 0.52:1 0.6:1 15 94% Pindaugh 1588 16 49 49% 67% 67% 0.6:1 1.4:1 9 86% Pindaugh 73762 55 22% 67% 67% 0.3:1 0.3:1 1.7 100% Shan | 12 | Taunggyi | 345516 | | 149 | 628 | 21% | | 41% | 0.35:1 | 0.6:1 | 13 | 83% | %89 | | 74% | |
| Heekon 77340 56 21 99 36% 27% 0.29.1 0.3:1 19 86% Heiseng 133276 100 45 119 45% 71% 0.75:1 1.9:1 19 86% Heiseng 155976 100 46 146 55% 57% 0.75:1 0.25:1 1.9:1 19 86% Lauksauk 153862 100 49 149 57% 57% 0.68:1 1.9:1 19 86% Induka 152873 115 43 149 49% 51% 24% 0.23:1 0.6:1 15 94% Pindaya 7806 67 | 13 | Hopone | 97136 | | 23 | 55 | 32% | | 21% | 0.79:1 | 1.2:1 | 20 | %82 | %98 | | %98 | |
| History Hist | 14 | Hpekon | 77340 | | 21 | 66 | 36% | | 27% | 0.29:1 | 0.3:1 | 19 | %98 | %88 | | %28 | |
| Kalaw 155979 117 64 146 55% 59% 62% 0 86:1 1.4:1 9 86% Lauksauk 133862 100 49 149 49% 51% 38% 0.52:1 0.6:1 15 94% Lauksauk 133862 100 49 149 49% 51% 24% 0.52:1 0.6:1 15 94% Pinlauda 15292 12 26% 67% 68% 1.12:1 2.3:1 2.3:1 2.3 100% I Namigan 73752 55 12 55% 67% 68% 1.12:1 2.3:1 2.3 1.00% I Namigan 73752 55 12 53 22% 31% 4.7% 0.43:1 0.4:1 1.3 4.6% I Namigan 1 Satu 1 2 2 2 4.7% 0.43:1 1.0 84% I Namigan 1 Satu 1 2 1 4 4 | 15 | Hsiseng | 133276 | 100 | 45 | 119 | 45% | | 71% | 0.75:1 | 1.9:1 | 19 | %08 | %69 | | 81% | |
| Lauksauk 133862 100 49 149 49% 51% 38% 0.52:1 0.6:1 15 94% B Induaya 78886 59 12 66 20% 24% 0.23:1 0.3:1 7 100% B Induaya 152973 115 66 20% 67% 67% 0.23:1 0.3:1 7 100% I Manushwe 152973 115 76 152 56% 67% 68% 1.12:1 2.3:1 2.3 181% 181% 1.0 0.3:1 7 100% I Wangahwe 18107 136 78 12 524 49% 67% 68% 0.3:1 0.4:1 13 75% I Manushwe 18107 14 116 482 51% 47% 0.48:1 0.4:1 13 75% Shan (East) 252 29 34% 100% 0.5:1 10 11 100% 0.4:1 10 10 10 | 16 | Kalaw | 155979 | 117 | 64 | 146 | 22% | 29% | %29 | 0.86:1 | 1.4:1 | 6 | %98 | 82% | 81% | 83% | 83% |
| Pindaya 78666 59 12 66 20% 24% 0.23:1 0.3:1 7 100% Pinlaung 152973 115 43 100 37% 77% 0.8:1 2.3:1 23 81% Invangan 181017 136 12 56% 67% 67% 67% 0.8:1 2.3:1 23 81% Invangan 181017 136 78 16 47% 0.48:1 0.4:1 12 12 86% Invangan 2113301 158 78 254 49% 51% 47% 0.48:1 0.4:1 13 75% Kengtong 188211 141 16 404 82% 51% 0.48:1 0.8:1 100% 100% 100% 0.6:1 13 9 14% 100% 0.5:1 1.0 17 100% 100% 0.6:1 1.5:1 1.0 1.0 1.0 1.1 1.0 1.0 1.1 1.0 | 17 | Lauksauk | 133862 | | 49 | 149 | 49% | 21% | 38% | 0.52:1 | 0.6:1 | 15 | 94% | %06 | %06 | %06 | %06 |
| Pinlaung 152973 115 43 100 37% 71% 0.8:1 2.3:1 23:1 < | 18 | Pindaya | 78686 | | 12 | 99 | 20% | | 24% | 0.23:1 | 0.3:1 | 7 | 100% | 91% | | 100% | |
| Nyaungshwe 181017 136 76 152 56% 67% 68% 1.12:1 2:1 12 96% I ywangan 73752 55 12 53 22% 51% 61% 0.4:1 13 75% Shan (East) State 73752 158 780 2524 49% 51% 0.48:1 0.4:1 13 75% Shan (East) State 1 1 404 82% 51% 0.48:1 0.8:1 10 84% Kongtong 188211 141 116 404 82% 51% 0.48:1 0.8:1 10 84% Mongkat 2556 25 31% 67% 0.6:3:1 1.3:1 28 74% Mongping 5370 40 37 100 92% 69% 0.6:3:1 1.3:1 43 83% Mongping 5370 40 23 27% 55% 0.6:3:1 1.3:1 43 83% | 19 | Pinlaung | 152973 | 115 | 43 | 100 | 37% | | 71% | 0.8:1 | 2.3:1 | 23 | 81% | %98 | | %26 | |
| Total 73752 55 12 53 22% 51% 6.033.1 0.43.1 1.3 75% Shan (East) State Kengtong 18821 780 2524 49% 51% 0.48:1 0.8:1 1.3 75% Kengtong 18821 141 116 404 82% 51% 0.48:1 0.8:1 10 84% Mongkhat 29526 22 59 31% 67% 0.6:1 1:0 17 100% Monghat 77793 58 78 142 134% 89% 1.5:1 28 74% Monghing 53700 40 37 10 92% 69% 0.65:1 1:3:1 35 92% Mongham 70514 53 35 80 66% 61% 0.35:1 1:1 1:3 79% Mongham 70514 53 35 80 66% 61% 0.42:1 0.4:1 15 79% | 20 | Nyaungshwe | 181017 | 136 | 92 | 152 | %99 | %29 | %89 | 1.12:1 | 2:1 | 12 | %96 | %66 | %66 | %66 | %66 |
| Shan (East) State 1589 780 47% 67% 67% 67% 60.8:1 0.8:1 13 87% Shan (East) State Shan (East) State 114 116 404 82% 51% 0.48:1 0.6:1 10 84% Kengtong 188211 141 146 82% 51% 0.6:1 1.0 17 100% Mongkhat 29526 22 3 14% 100% 0.6:1 1.0 17 100% Mongkhat 29526 22 59 31% 67% 0.6:1 1.0 17 100% Mongkhat 77793 58 78 142 134% 89% 1.5:1 28 74% Mongping 53700 40 37 100 92% 69% 0.65:1 1.9:1 35 22 28 74% Mongyaung 70514 53 3 5 77% 55% 0.36:1 1.3:1 43 83% | | | 73752 | 55 | 12 | 53 | 22% | | 31% | 0.33:1 | 0.4:1 | 13 | 75% | 80% | | %08 | |
| Shan (East) State Shan (East) State 67% 51% 0.48:1 0.8:1 10 84% Kengtong 188211 141 116 404 82% 51% 0.6:1 0.6:1 10 84% Mongkhat 29526 22 3 31% 67% 0.6:1 1.0 17 100% Mongyan 94417 71 22 59 31% 67% 0.63:1 1.8:1 38 95% Mongyan 53700 40 37 100 92% 69% 0.65:1 1.9:1 28 74% Mongyang 53700 40 37 100 92% 69% 0.65:1 1.9:1 35 92% Mongyanng 70514 53 35 80 66% 61% 0.35:1 1.1 43 83% Tachileik 118216 89 137 496 155% 0.96:1 0.42:1 0.4:1 15 79% Matman | | | | 1589 | 780 | 2524 | 49% | 21% | 47% | 0.49:1 | 0.8:1 | 13 | 87% | %08 | %08 | %98 | %98 |
| Kengtong 188211 141 116 404 82% 51% 0.48:1 0.8:1 10 84% Mongkhat 29526 22 3 14% 100% 0.5:1 1:0 17 100% Mongyan 94417 71 22 59 31% 67% 0.63:1 1:8:1 38 96% Mongping 77793 58 78 142 134% 89% 1.59:1 7.1:1 28 74% Mongping 53700 40 37 100 92% 69% 0.65:1 1.9:1 35 92% Mongphak 40024 30 23 129 107% 56% 0.36:1 1:1 25 100% Mongyaung 70514 53 35 80 66% 61% 0.95:1 0.95:1 43 83% Tachileik 89 137 496 155% 0.42:1 0.4:1 15 79% Matman | | | a | | | | | | | | | | | | | | |
| Mongkhat Z9526 22 3 9 14% 100% 0.5:1 1:0 1/7 100% Mongyan 94417 71 22 59 31% 67% 0.63:1 1.8:1 38 95% Mongyan 77793 58 78 142 134% 89% 1.59:1 7.1:1 28 74% Mongping 53700 40 37 100 92% 69% 0.65:1 1.9:1 28 74% Mongphak 40024 30 23 129 107% 50% 0.36:1 1:1 25 100% Mongyaung 70514 53 35 80 66% 61% 0.95:1 1:3:1 43 83% Tachileik 118216 89 137 496 155% 0.42:1 0.4:1 15 79% Matman Nr. 0 0 0 0 0 0.53:1 0.42:1 0.4:1 1 1< | | Kengtong | 188211 | _ | 116 | 404 | 85% | | 51% | 0.48:1 | 0.8:1 | 10 | 84% | 72% | | 84% | |
| Monghsat 77793 58 31% 67% 0.03.1 1.6.1 38 95% Monghsat 77793 58 78 142 134% 89% 1.59:1 7.1:1 28 74% Mongping 53700 40 37 100 92% 69% 0.65:1 1.9:1 35 92% Mongping 53692 30 32 129 107% 50% 0.37:1 0.8:1 16 81% Mongyaung 70514 53 35 80 66% 61% 0.36:1 1.3:1 43 83% Tachileik 118216 89 137 496 155% 34% 0.42:1 0.4:1 15 79% Matman Nr. 0 0 0 0 0 0.53:1 0.6:1 0.4:1 15 79% | 7 0 | Wongkhat | 29526 | | χ (| ກ [| 14% | | %00L | 0.5:1 | 1:0 | 1/ | 300,0 | 100 | | ò | |
| Mongplisating Signation 77753 36 174 154 154 155 175 <td>ი <</td> <td>Mongyari</td> <td>34417</td> <td></td> <td>77</td> <td>33</td> <td>12/0/</td> <td></td> <td>%/0</td> <td>1.60:1</td> <td>1.0.1</td> <td>200</td> <td>%2%</td> <td>1.370</td> <td></td> <td>2007</td> <td></td> | ი < | Mongyari | 34417 | | 77 | 33 | 12/0/ | | %/0 | 1.60:1 | 1.0.1 | 200 | %2% | 1.370 | | 2007 | |
| Mongphility 35700 40 37 100 32% 0.35% 0.35% 1.3% 1.3% 32% 32% Mongphalk 40024 30 23 129 107% 56% 0.36% 1.1 1.6 18% Mongyaung 70514 53 35 80 66% 61% 0.95% 1.3% 43 83% Tachileik 118216 89 137 496 155% 0.42% 0.4% 1.5 79% Matman Nr. 0 0 0 0 0.53% 0.53% 0.53% 0.53% 0.5% <t< td=""><td>t u</td><td>Mongning</td><td>52700</td><td></td><td>7.0</td><td>145</td><td>0/ 10</td><td></td><td>%60</td><td>1.33.</td><td>7</td><td>20 2E</td><td>0747</td><td>/00/</td><td></td><td>0/6/</td><td></td></t<> | t u | Mongning | 52700 | | 7.0 | 145 | 0/ 10 | | %60 | 1.33. | 7 | 20 2E | 0747 | /00/ | | 0/6/ | |
| Mongphak 40024 30 23 92 77% 55% 0.36:1 1:1 25 100% Mongyaung 70514 53 35 80 66% 61% 0.95:1 1.3:1 43 83% Tachileik 118216 89 137 496 155% 34% 0.42:1 0.4:1 15 79% Matman Nr. 0 0 0 0 0.4:1 15 78% Total 712093 534 483 1511 90% 50% 0.53:1 0.8:1 17 83% | ာ ဖ | Monaton | 39692 | | 32 | 129 | 107% | | 20% | 0.37:1 | 0.8:1 | 16 | 81% | 53% | | 65% | |
| Mongyaung 70514 53 35 80 66% 61% 0.95:1 1.3:1 43 83% Tachileik 118216 89 137 496 155% 34% 0.42:1 0.4:1 15 79% Matman Nr. 0 0 0 0 0 15 78% 15 | 7 | Mongphak | 40024 | | 23 | 92 | 41% | | 22% | 0.36:1 | 1:1 | 25 | 100% | 83% | | 91% | |
| Tachileik 118216 89 137 496 155% 34% 0.42:1 0.4:1 15 79% Matman Nr. 0 <td>∞</td> <td>Mongyaung</td> <td>70514</td> <td></td> <td>35</td> <td>80</td> <td>%99</td> <td></td> <td>61%</td> <td>0.95:1</td> <td>1.3:1</td> <td>43</td> <td>83%</td> <td>%29</td> <td></td> <td>%98</td> <td></td> | ∞ | Mongyaung | 70514 | | 35 | 80 | %99 | | 61% | 0.95:1 | 1.3:1 | 43 | 83% | %29 | | %98 | |
| Matman Nr. 0< | | Tachileik | | 68 | 137 | 496 | 155% | | 34% | 0.42:1 | 0.4:1 | 15 | %62 | 74% | | 84% | |
| 712093 534 483 1511 90% 50% 0.53:1 0.8:1 17 83% 7 | | Matman | Nr. | 0 | 0 | 0 | | | | | | | | | | | |
| | | Total | 712093 | 534 | 483 | 1511 | %06 | | 20% | 0.53:1 | 0.8:1 | 17 | 83% | %0/ | | 84% | |

| | | | Estimated | Total | Total | | (CDR) | Prop: of SS(+) | Ratio of NSS+ | Ratio of NSS+ | Sputum | Sputum | (C.R.) | (CR) | | (TSR) |
|-----------|--------------------|------------|-----------|-----------|-----------|-------------------|------------------------|-----------------------------|-----------------|--------------------|------------|------------|--------|-----------------------|------|------------------------|
| Sr.N o | TOWNSHIP | Population | New S(+) | New Smear | | (CDR) NTP only | NTP + other unit | pul:TB cases | to NSS (-)cases | to NSS (-)cases | Positivity | Conversion | NTP | NTP+ other unit | NTP | NTP + other unit |
| | | | cases | Positive | I b cases | | | out or all pul: TB cases | and EP cases | | кате | кате | | | | |
| | Shan (North) State | tate | | | | | | | | | | | l | | | |
| _ | Kunlon | 151169 | 113 | 46 | 95 | 41% | | %89 | 1.02:1 | 1.6:1 | 31 | %86 | %96 | | %96 | |
| 7 | Hopan | 112522 | 8 | 09 | 178 | 71% | | 64% | 0.55:1 | 1.6:1 | 25 | %59 | 37% | | %88 | |
| က | Kyaukme | 213407 | 160 | 06 | 324 | %99 | %69 | 37% | 0.42:1 | 0.5:1 | 23 | 93% | 72% | %69 | %82 | %62 |
| 4 | Hsipaw | 175103 | 131 | 111 | 334 | 85% | %56 | 52% | 0.56:1 | 1:1 | 15 | 95% | 100% | 95% | 100% | %86 |
| 2 | Mabein | 36335 | 27 | 25 | 104 | %76 | | 21% | 0.34:1 | 1.1.1 | 38 | 100% | %06 | | 100% | |
| 9 | Manton | 43924 | 33 | 6 | 10 | 27% | | 100% | 1:0 | 1:0 | 26 | 100% | 100% | | 100% | |
| 7 | Mongmeik | 75996 | 22 | 99 | 138 | %86 | | 63% | 0.84:1 | 1.4:1 | 21 | 73% | 78% | | 84% | |
| ∞ | Namtu | 153682 | 115 | 49 | 125 | 43% | | %99 | 0.7:1 | 1.8:1 | 19 | 94% | %29 | | 83% | |
| 6 | Nyaungcho | 139287 | 104 | 37 | 125 | 32% | 38% | 48% | 0.45:1 | 0.8:1 | 17 | 100% | %26 | 84% | %36 | 91% |
| 10 | Lashio | 286720 | 215 | 198 | 629 | 95% | 110% | 20% | 0.47:1 | 0.8:1 | 18 | %// | 61% | 63% | %59 | %89 |
| 7 | Namsam | 92215 | 69 | 24 | 94 | 35% | | 52% | 0.37:1 | 0.9:1 | 27 | %76 | 21% | | %06 | |
| 12 | Mongmaw | 16017 | 12 | | | | | | | | | | | | | |
| 13 | Theinni | 78137 | 69 | 22 | 151 | %26 | %86 | 63% | 0.68:1 | 1.5:1 | 33 | 88% | 48% | 48% | %89 | %89 |
| 14 | Mongreh | 75297 | 99 | 33 | 162 | 28% | | 74% | 0.26:1 | 2.8:1 | 31 | 85% | 82% | | 94% | |
| 15 | Manphant | 60947 | 46 | | | | | | | | | | | | | |
| 16 | Pangyan | 89468 | 29 | 20 | 49 | 30% | | 48% | 0.77:1 | 0.8:1 | 37 | 20% | 18% | | 45% | |
| 17 | Narphant | 38841 | 29 | | | | | | | | | | | | | |
| 18 | Panwaing | 15216 | 11 | | | | | | | | | | | | | |
| 19 | Tanyan | 203181 | 152 | 101 | 322 | %99 | %99 | 20% | 0.5:1 | 0.9:1 | 18 | 92% | %29 | %29 | 95% | 95% |
| 20 | Laukkai | 113334 | 85 | 46 | 118 | 30% | | 21% | 0.73:1 | 1.3:1 | 20 | 39% | 36% | | 22% | |
| 21 | Kongyan | 48509 | 36 | | | | | | | | | | | | | |
| 22 | Muse | 159628 | 120 | 71 | 260 | %69 | 71% | 52% | 0.4:1 | 1:1 | 18 | 77% | %59 | 65 % | 73% | 73% |
| 23 | Kuitai | 203860 | 153 | 43 | 313 | 28% | 762 | 36% | 0.16:1 | 0.5:1 | 26 | 84% | 64% | 64% | 71% | 71% |
| 24 | Namkham | 130098 | 86 | 64 | 200 | %99 | | 67% | 0.51:1 | 1.8:1 | 35 | 75% | %99 | | 78% | |

* Note* (Nr.) Report had not been received from(5) townships

%59 64% 66% %69

84% 75% 83%

26 35

Nr. (5) tsp: 1.Manphant, 2.Panwaing, 3.Mongmaw, 4.Kongyan, 5.Narphant

| (TSR) NTP + other unit | | 84% | | | | 87% | | | 82% | | 88% | 92% | 79% | | | | 74% | | | . 66% | |
|--|-------------|-----------|--------------|---------|--------|-----------|-----------------|-----------|---------|----------------------|--------|-----------|--------------|--------|-----------|---------|--------|--------|-------------|--------|---------|
| (TSR) NTP only | | 84% | 91% | 73% | 84% | 87% | 83% | 78% | 83% | | 87% | 95% | 83% | 83% | %98 | 80% | 73% | 91% | 83% | %99 | 79% |
| (CR) NTP+ other unit | | 73% | | | | 80% | | | %92 | | 83% | 92% | 74% | | | | %69 | | | 52% | 73% |
| (CR) NTP only | | 78% | 93% | 64% | 79% | 80% | 83% | 78% | %92 | | 84% | 92% | 78% | 83% | %9/ | 70% | 70% | 91% | 81% | 52% | 74% |
| Sputum Conversion Rate | | %96 | 85% | %69 | %88 | 91% | %86 | %29 | %28 | | %98 | 100% | %68 | %28 | %06 | %28 | %22 | 83% | %86 | 95% | 85% |
| Sputum Positivity Rate | | 26 | 28 | 33 | 14 | 15 | 51 | 21 | 19 | | 16 | 23 | 12 | 19 | 36 | 21 | 55 | 22 | 30 | 21 | 38 |
| Ratio of NSS+ to NSS (-)cases | | 1:1 | 0.8:1 | 1.3:1 | 0.3:1 | 0.6:1 | 0.5:1 | 0.4:1 | 0.4:1 | | 0.3:1 | 2:1 | 1.2:1 | 0.5:1 | 1.3:1 | 0.2:1 | 0.2:1 | 0.8:1 | 1.7:1 | 0.3:1 | 0.3:1 |
| Ratio of NSS+ to NSS (-)cases and EP cases | | 0.81:1 | 0.62:1 | 0.67:1 | 0.26:1 | 0.48:1 | 0.43:1 | 0.36:1 | 0.39:1 | | 0.14:1 | 0.45:1 | 0.55:1 | 0.39:1 | 0.61:1 | 0.14:1 | 0.11:1 | 0.35:1 | 0.77:1 | 0.24:1 | 0.18:1 |
| Prop: of SS(+) pul:TB cases out of all pul: TB cases | | 54% | 44% | %09 | 23% | 38% | 36% | 33% | 33% | | 76% | %02 | 21% | 40% | 21% | 17% | 21% | 49% | %99 | 30% | |
| (CDR) NTP + other unit | | 140% | | | | 109% | | | %26 | | 77% | %6 | 14% | | | | 165% | | | 68% | 75% |
| (CDR) NTP only | | 73% | 40% | 364% | 120% | 64% | 87% | 17% | 92% | | 72% | 9% | 14% | 25% | 244% | 59% | 153% | 20% | 53% | 68% | 72% |
| Total notified TB cases | | 435 | 143 | 466 | 2230 | 450 | 168 | 48 | 3940 | | 950 | 47 | 53 | 122 | 488 | 239 | 3592 | 102 | 107 | 392 | 6092 |
| Total New Smear Positive detected | | 182 | 54 | 170 | 453 | 141 | 49 | 12 | 1061 | | 118 | 14 | 18 | 30 | 182 | 30 | 354 | 24 | 43 | 72 | 885 |
| Estimated New S(+) cases | | 249 | 136 | 47 | 376 | 219 | 56 | 69 | 1153 | | 164 | 159 | 131 | 118 | 75 | 51 | 232 | 118 | 81 | 106 | 1235 |
| Population | | 332438 | 181508 | 62327 | 501451 | 292053 | 75217 | 92459 | 1537453 | ision | 218396 | 211951 | 175284 | 157458 | 99586 | 67834 | 309352 | 157024 | 107484 | 141855 | 1646224 |
| TOWNSHIP | Kayin State | Kawkareik | Kyainseikkyi | Myawady | Hpa-an | Hlaingbwe | Papun(Kamamaung | Thandaung | Total | Tanintharyi Division | Dawei | Launglon | Thayetchaung | Yebyu | Kawthaung | Bokpyin | Myeik | Kyunsu | Tanintharyi | Palaw | Total |
| Sr.N | | _ | 7 | က | 4 | 2 | 9 | 7 | | | _ | 7 | က | 4 | 2 | 9 | 7 | 8 | 6 | 10 | |

| St. Movement Cross of Movement <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<> | | | | | | | | | | | | | | | | | |
|--|------|-----------------|------------|-----------|-----------|----------|------|------------|-----------------|-----------------|--------------------|------------|------------|------|-------------|-----|-------------|
| TOWNISHIP Population New Small Incided ITCL AND INTERPRESS INTERPRESS Conversion INTERPRESS Conversion INTERPRESS INTERPRESS INTERPRESS Conversion INTERPRESS INTERPRESS INTERPRESS Conversion INTERPRESS INTERPRESS CONTRICT ITTL CONTRICT CONTRICT ITTL CONTRICT CONTRICT <th< th=""><th></th><th></th><th></th><th>Estimated</th><th>Total</th><th>Total</th><th></th><th>(CDR)</th><th>Prop: of SS(+)</th><th>Ratio of NSS+</th><th>Ratio of NSS+</th><th>Sputum</th><th>Sputum</th><th>(CR)</th><th>(CR)</th><th></th><th>(TSR)</th></th<> | | | | Estimated | Total | Total | | (CDR) | Prop: of SS(+) | Ratio of NSS+ | Ratio of NSS+ | Sputum | Sputum | (CR) | (CR) | | (TSR) |
| O East) Division. cases cases Possible TB cases TB cases THS cases | N. 0 | TOWNSHIP | Population | New S(+) | New Smear | | | other | pul:TB cases | to NSS (-)cases | to NSS (-)cases | Positivity | Conversion | NTP | other | | other |
| Care | | | | cases | Positive | TB cases | | | out of all pul: | and EP cases | <u> </u> | Rate | Rate | | | | |
| |]_ | Bago (East) Div | vision | | 20000 | | | | - Casas | | | | | | | 1 | |
| J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. | 7 | Bago | 416700 | 313 | 399 | 1076 | 128% | 169% | 26% | 0.67:1 | 1.1:1 | 25 | 94% | %89 | %02 | 82% | 83% |
| Q17563 163 67 41% 66% 43% 0.6561 0.71 23 94% 73% 73% 95% Q1800 2251000 139 218 66% 45% 0.641 0.611 16 65% 77% 77% 95% 77% 95% 77% 95% 95% 95% 77% 95% | | Daik-U | 212479 | 159 | 143 | 312 | %06 | 95% | 25% | 0.95:1 | 1.1:1 | 30 | 95% | 89% | %68 | %06 | %06 |
| tages 1189 <t< td=""><td>3</td><td>Kawa</td><td>217563</td><td>163</td><td>29</td><td>203</td><td>41%</td><td>20%</td><td>43%</td><td>0.55:1</td><td>0.7:1</td><td>23</td><td>94%</td><td>72%</td><td>73%</td><td>%98</td><td>%98</td></t<> | 3 | Kawa | 217563 | 163 | 29 | 203 | 41% | 20% | 43% | 0.55:1 | 0.7:1 | 23 | 94% | 72% | 73% | %98 | %98 |
| Oyalisation 234687 176 98 218 64% 0.921 16.1 18 98% 64% 72% 64% 0.921 16.1 18 98% 64% 72% 64% 77% 78% 88% Nyin 187366 163 50 160 391 34% 0.921 17 90% 64% 77% 77% 77% 77% 77% 77% 77% 77% 77% 77% 77% 77% 77% 88% 88% 71% 1451 0.611 0.611 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.61 2.62 8.68 8.68 71% 41% 0.611 0.611 2.61 4.88 71% 41% 0.611 0.611 2.61 4.88 7.78 8.68 8.68 8.68 8.68 8.68 8.68 8.68 8.68 | 4 | Kyauktaga | 251009 | 188 | 139 | 372 | 74% | %98 | 48% | 0.64:1 | 0.8:1 | 15 | 83% | 87% | 87% | 93% | 93% |
| kyin 153566 65 160 80% 91% 0.46:1 0.51 17 90% 64% 78 838 sipin 157795 116 106 391 90% 91% 13% 0.46:1 0.51 17 30% 64% 78 88 goo 200596 116 106 116 200 91% 113% 73% 0.61 2.51 28 68% 88% 88% 88% 88% 88% 88% 88% 88% 98% 14% 0.61 0.71 21 28 88% 88% 88% 98% 14% 0.61 0.71 28 88% 88% 88% 98% 14% 0.61 0.71 21 28 88% 88% 88% 98% 14% 0.61 0.71 28 88% 88% 88% 98% 14% 0.61 0.71 21 28 88% 88% 98% 14% 0.61 | | Nyaunglaybin | 234687 | 176 | 86 | 218 | %99 | 72% | 64% | 0.92:1 | 1.6:1 | 18 | %68 | %08 | %62 | 88% | 88 % |
| Part | | Shwekyin | 83566 | 63 | 20 | 160 | %08 | | 34% | 0.46:1 | 0.5:1 | 17 | %06 | 64% | | 83% | |
| COODER 150 146 260 97% 1457 73% 1467 25.1 26 97% 1436 26% 2 | . 2 | Thanatpin | 157795 | 118 | 106 | 391 | %06 | 91% | 31% | 0.38:1 | 0.4:1 | 30 | 87% | 412% | %82 | 82% | 82% |
| 1878 173 132 141 176 188 | 8 | Waw | 200598 | 150 | 146 | 260 | %26 | 113% | 73% | 1.45:1 | 2.5:1 | 28 | %98 | 84% | 82% | 88% | 88 % |
| 10289 177 108 88% 14% 10.61 10.61 148 12% 172% 172% 188 188% 14% 14% 10.61 189 148 172% 178 188 188% 14% | 6 | Taunggoo | 230576 | 173 | 132 | 410 | %92 | 188% | 45% | 0.55:1 | 0.7:1 | 21 | 95% | 82% | 80% | 82% | 84% |
| 15376 115 125 1 | 101 | Kyaukkyi | 102891 | 11 | 89 | 188 | %88 | | 41% | 0.6:1 | 0.6:1 | 48 | 72% | 72% | | %96 | |
| blin 119357 90 151 173 57% 85% 29% 1031.1 0.3:1 28 93% 81% 85% 94% 94% 94% 94% 94% 94% 94% 94% 94% 94 | 11 | Oktwin | 153769 | 115 | 72 | 236 | 62% | 71% | 41% | 0.47:1 | 0.6:1 | 24 | 83% | 78% | 80% | 83% | 85% |
| billy | 12 | Phyu | 287364 | 216 | 176 | 772 | 82% | %28 | 78% | 0.31:1 | 0.3:1 | 28 | %86 | 82% | 81% | 87% | % 28 |
| she 187208 140 117 237 83% 69% 61% 1.17:1 1.3:1 24 95% 64% 84% 91% O(West) Division 2885562 2142 1764 5008 82% 103% 46% 0.6:1 0.7:1 22 90% 78% 78% 87% chaung 17286 88 100 276 114% 40% 0.6:1 0.7:1 24 99% 74% 75% pde 17286 88 100 276 114% 40% 0.6:1 0.7:1 24 99% 74% 75% 80% 80% 80% pde 142659 101 28 286 99% 44% 0.6:1 0.7:1 24 99% 76% 80% 80% 80% 80% 80% 80% 80% 80% 80% 80% 80% 90% 44% 0.6:1 0.6:1 0.6:1 0.6:1 0.6:1 0.6:1 | 13 | Htantabin | 119357 | 06 | 51 | 173 | %29 | %89 | 40% | 0.47:1 | 0.5:1 | 6 | 100% | %06 | 91% | %56 | %96 |
| O (West) Division 2565562 2142 1764 5008 82% 103% 46% 0.6:1 0.7:1 22 90% 78% 78% 87% O (West) Division 234344 176 210 785 149% 178% 31% 0.38:1 0.4:1 20 82% 74% 74% 75% Ataung 117296 88 100 276 144% 44% 0.6:1 0.7:1 24 99% 80% | 14 | Yedashe | 187208 | 140 | 117 | 237 | 83% | %68 | 61% | 1.17:1 | 1.3:1 | 24 | %26 | 84% | 84% | 91% | 91% |
| O (West) Division 20 (West) Division 20 (West) Division 20 (West) Division 74% 77% 75% | | Total | 2855562 | 2142 | 1764 | 2008 | 82% | 103% | 46% | 0.6:1 | 0.7:1 | 22 | %06 | %82 | %82 | 87% | 87% |
| thang 11796 119 119% 179% 31% 0.38:1 0.4:1 20 82% 74% 75% thanng 117296 88 100 276 114% 40% 0.6:1 0.6:1 16 91% 88% 76% 88% gde 102 276 114% 40% 0.6:1 0.6:1 16 91% 88% 76% 88% gde 143663 108 226 86% 92% 34% 0.6:1 0.6:1 16 91% 80% </td <td></td> <td>_</td> <td>ivision</td> <td></td> | | _ | ivision | | | | | | | | | | | | | | |
| thatung 117296 88 100 276 114% 40% 0.6:1 0.6:1 16 91% 88% 9 88% 9 gde 143663 108 68 89% 44% 0.6:1 0.7:1 24 99% 80% 80% sung 135012 101 86 293 85% 37% 0.6:1 0.5:1 24 99% 80% 80% 80% daung 135012 101 386 94% 103% 0.37:1 0.5:1 23 91% 64% 80% 80% ann 142659 107 110% 24% 103% 0.37:1 0.5:1 23 84% 17% 80% | 1 | Pyay | 234344 | 176 | 210 | 785 | 119% | 179% | 31% | 0.38:1 | 0.4:1 | 20 | 85% | 74% | 74% | %92 | 75% |
| gde 143663 108 99 266 86% 44% 0.6:1 0.7:1 24 99% 80% 80% 80% 80% 80% 99% 44% 0.6:1 0.7:1 24 99% 76% 80% <th< td=""><td></td><td>Paukkhaung</td><td>117296</td><td>88</td><td>100</td><td>276</td><td>114%</td><td></td><td>40%</td><td>0.6:1</td><td>0.6:1</td><td>16</td><td>91%</td><td>88%</td><td></td><td>88%</td><td></td></th<> | | Paukkhaung | 117296 | 88 | 100 | 276 | 114% | | 40% | 0.6:1 | 0.6:1 | 16 | 91% | 88% | | 88% | |
| Lange 135012 101 86 293 85% 92% 37% 0.45:1 0.5:1 18 86% 76% 76% 84% daung 142659 107 101 386 94% 103% 36% 0.5:1 23 91% 64% 64% 84% 88% | | Paungde | 143663 | 108 | 93 | 266 | %98 | %66 | 44% | 0.6:1 | 0.7:1 | 24 | %66 | 80% | %08 | 80% | %08 |
| daung 142659 107 101 395 94% 103% 36% 0.37:1 0.5:1 23 91% 64% 81% ann 134075 101 108 502 107% 110% 24% 0.28:1 0.3:1 23 84% 78% 78% 85% anwady 150725 113 179 371 158% 160% 1.05:1 1.1:1 28 77% 85% 85% 85% a 72806 55 68 242 125% 31% 0.4:1 0.4:1 1.6:1 28 77% 85% 85% 85% yo 14972 87 181 81 81 64% 1.04:1 1.6:1 27 94% 87% 94% yo 140158 87 184 83% 122% 123% 32% 0.4:1 0.4:1 29 94% 84% 89% in 15878 102 122 | | Padaung | 135012 | 101 | 86 | 293 | 85% | 95% | 37% | 0.45:1 | 0.5:1 | 18 | %98 | %92 | %9 2 | 84% | 84% |
| on 134075 101 108 502 107% 110% 24% 0.28:1 0.3:1 23 84% 78% 78% 83% anwady 150725 113 179 371 158% 160% 56% 1.05:1 1.1:1 28 77% 85% 85% 85% a 72806 55 68 242 125% 10 0.41:1 0.4:1 17 91% 78% 85% | | Shwedaung | 142659 | 107 | 101 | 395 | 94% | 103% | 36% | 0.37:1 | 0.5:1 | 23 | 91% | 64% | 64% | 81% | 81% |
| arwady 150725 113 179 371 158% 160% 56% 1.05:1 1.1:1 28 77% 85% | | Thegon | 134075 | 101 | 108 | 205 | 107% | 110% | 24% | 0.28:1 | 0.3:1 | 23 | 84% | 78% | %82 | 83% | 83% |
| ASOME 55 68 242 125% 31% 0.41:1 0.41:1 17 91% 91% 91% 97% a 119742 90 98 194 109% 60% 1.18:1 1.3:1 22 89% 84% 90% yo 143078 107 87 181 81% 64% 1.04:1 1.6:1 27 94% 81% 93% ngauk 140158 105 87 122% 123% 32% 0.4:1 0.9:1 29 94% 94% 94% nin 158878 112 122% 123% 32% 0.4:1 0.6:1 39 96% 88% 88% 88% dan 218400 164 144 531 88% 93% 0.4:1 0.6:1 39 0.6:1 30 90% 70% 70% 88% | | Tharyarwady | 150725 | 113 | 179 | 371 | 158% | 160% | %95 | 1.05:1 | 1.1:1 | 28 | %// | 85% | 82% | 85% | 85% |
| a 119742 90 98 194 109% 60% 1.18:1 1.3:1 22 89% 84% 90% yo 143078 107 87 181 81% 64% 1.04:1 1.6:1 27 94% 81% 83% ngauk 140158 86 105 122 122% 123% 0.4:1 0.4:1 29 94% 94% 94% in 158878 119 122 122% 123% 0.6:1 0.6:1 30 96% 88% 88% 89% dan 218400 164 144 531 88% 93% 0.4:1 0.6:1 30 90% 78% 8% dan 218400 164 144 531 88% 93% 0.4:1 0.6:1 30 90% 78% 8% dan 2025688 159 158 14% 38% 14% 38% 9.6:1 0.6:1 24 <t< td=""><td></td><td>Zigon</td><td>72806</td><td>55</td><td>89</td><td>242</td><td>125%</td><td></td><td>31%</td><td>0.41:1</td><td>0.4:1</td><td>17</td><td>91%</td><td>91%</td><td></td><td>%26</td><td></td></t<> | | Zigon | 72806 | 55 | 89 | 242 | 125% | | 31% | 0.41:1 | 0.4:1 | 17 | 91% | 91% | | %26 | |
| yo 143078 107 87 181 81% 64% 1.04:1 1.6:1 27 94% 81% 83% qual 140158 105 87 122 122% 123% 32% 0.4:1 0.9:1 29 94% 94% 94% in 158878 105 353 102% 32% 0.4:1 0.6:1 30 96% 88% 88% 88% dan 218400 164 144 531 88% 93% 0.4:1 0.6:1 30 90% 78% 88% dan 218400 164 144 531 88% 93% 0.4:1 0.6:1 38 91% 70% 70% 84% | 6 | Minhla | 119742 | 06 | 86 | 194 | 109% | | %09 | 1.18:1 | 1.3:1 | 22 | %68 | 84% | | %06 | |
| ngauk 14852 86 105 123% | 101 | Moenyo | 143078 | 107 | 87 | 181 | 81% | | 64% | 1.04:1 | 1.6:1 | 27 | 94% | 81% | | 83% | |
| 11485286105382122%123%32%0.4:10.4:10.4:12996%88%88%88%88%15878115878114122353102%39%0.56:10.6:13090%78%70%88%1840016414453188%93%35%0.41:10.4:13891%70%70%84%1850151815884965105%114%38%0.5:10.6:12488%80%79%85% | 11 | Okpo | 140158 | 105 | 87 | 194 | 83% | | 48% | 0.85:1 | 0.9:1 | 29 | 94% | 94% | | 94% | |
| 158878 119 122 353 102% 39% 0.56:1 0.6:1 30 90% 78% 88% 88% 102% 118 88% 89% 105% 118 88% 89% 105% 118 88% 10 | 15 (| Gyobingauk | 114852 | 98 | 105 | 382 | 122% | 123% | 32% | 0.4:1 | 0.4:1 | 29 | %96 | 88% | 88% | 89% | %68 |
| Latpadan 218400 164 144 531 88% 93% 35% 0.41:1 0.4:1 38 91% 70% 70% 84% Total 2025688 1519 1588 4965 105% 114% 38% 0.5:1 0.6:1 24 88% 80% 79% 85% | 13 | Nattalin | 158878 | 119 | 122 | 353 | 102% | | 39% | 0.56:1 | 0.6:1 | 30 | %06 | 78% | | 88% | |
| 2025688 | | Latpadan | 218400 | 164 | 144 | 531 | 88% | 93% | 35% | 0.41:1 | 0.4:1 | 38 | 91% | 70% | %02 | 84% | 84% |
| | | Total | 2025688 | 1519 | 1588 | 4965 | 105% | 114% | 38% | 0.5:1 | 0.6:1 | 24 | %88 | %08 | %62 | %58 | 85% |

| Ž. | | | Estimated | Total | Total | (SDR) | (CDR) | Prop: of SS(+) | Ratio of NSS+ | Ratio of NSS+ | Sputum | Sputum | (CR) | (CR) | | (TSR) |
|-----|---------------|------------|-----------|-----------|----------|-------|-------|-----------------|-----------------|--------------------|------------|------------|------|-------|-------------|-------------|
| 5 0 | TOWNSHIP | Population | New S(+) | New Smear | notified | > | other | pul:TB cases | to NSS (-)cases | to NSS (-)cases | Positivity | Conversion | NTP | other | ONF Only | other |
| | | | cases | Positive | TB cases | | | out of all pul: | and EP cases | | Rate | Rate | | | | |
| | | | | detected | | | | TB cases | | | | | | | | |
| | Mon State | | | | | | | | | | | | | | | |
| 1 | Mawlamyaing | 274496 | 206 | 328 | 1407 | 172% | 183% | 34% | 0.37:1 | 0.4:1 | 13 | %06 | 81% | 81% | 87% | % 28 |
| 7 | Chanungzon | 153662 | 115 | 93 | 344 | 81% | 83% | 30% | 0.38:1 | 0.4:1 | 13 | 80% | 78% | 78% | 85% | 85% |
| က | Kyaikmaraw | 209698 | 157 | 105 | 543 | | %69 | 23% | 0.25:1 | 0.3:1 | 24 | 80% | 73% | 73% | 89% | 89% |
| 4 | Mudon | 207832 | 156 | 163 | 819 | 105% | 120% | 35% | 0.26:1 | 0.5:1 | 11 | 81% | 84% | 82% | %98 | %98 |
| 2 | Thanbyuzayat | 161455 | 121 | 120 | 449 | %66 | 106% | 30% | 0.38:1 | 0.4:1 | 12 | 89% | 84% | 84% | 84% | 85% |
| 9 | Ye | 240461 | 180 | 183 | 531 | 101% | | 46% | 0.61:1 | 0.7:1 | 23 | 81% | 28% | | %99 | |
| 7 | Thaton | 243618 | 183 | 227 | 497 | 124% | 167% | %09 | 0.95:1 | 1.3:1 | 22 | %06 | 80% | %08 | 83% | 83% |
| ∞ | Belin | 168852 | 127 | 201 | 629 | 159% | | 36% | 0.48:1 | 0.5:1 | 11 | 94% | 88% | | 91% | |
| 6 | Kyaikto | 154119 | 116 | 108 | 298 | 93% | | | 0.63:1 | 0.7:1 | 22 | 94% | 84% | 82% | 91% | 92% |
| 10 | Paung | 238956 | 179 | 203 | | 113% | 113% | | 0.27:1 | 0.3:1 | 16 | 91% | 91% | 91% | 91% | 91% |
| | Total | 2053149 | 1540 | 1758 | 6508 | 114% | 129% | 35% | 0.39:1 | 0.5:1 | 15 | 88% | 81% | %08 | 82% | %98 |
| | Rakhine State | | | | | | | | | | | | | | | |
| _ | Kyaukphyu | 206016 | 155 | 110 | 397 | 71% | | 42% | 0.42:1 | 0.6:1 | 12 | 94% | 61% | | 77% | |
| 7 | Ann | 154829 | 116 | 09 | 610 | 52% | | 44% | 0.11:1 | 0.7:1 | 17 | 80% | 43% | | %29 | |
| 3 | Manaung | 104610 | 78 | 47 | 102 | %09 | | 71% | 0.96:1 | 2.1:1 | 31 | 98% | 100% | | 100% | |
| 4 | Rambye | 155273 | 116 | 51 | 124 | 44% | | 64% | 0.84:1 | 1.6:1 | 10 | %06 | 71% | | 77% | |
| 2 | Maungdaw | 459367 | 345 | 153 | 781 | 44% | | 26% | 0.25:1 | 0.3:1 | 27 | 69% | 61% | | 87% | |
| 9 | Buthidaung | 304421 | 228 | 265 | 908 | 116% | | 32% | 0.43:1 | 0.4:1 | 21 | 95% | 83% | | 92% | |
| 7 | Rathedaung | 176638 | 132 | 137 | 206 | 103% | | %92 | 2.4:1 | 3:1 | 35 | 95% | 81% | | %06 | |
| ∞ | Sittwe | 288215 | 216 | 276 | 1125 | 128% | 166% | 36% | 0.36:1 | 0.5:1 | 18 | 82% | %29 | | 81% | |
| တ | Kyauktaw | 253575 | 190 | 189 | 469 | %66 | | 47% | 0.72:1 | 0.8:1 | 46 | %86 | 95% | | 92% | |
| 10 | Minbya | 207702 | 156 | 167 | 240 | 107% | | 81% | 2.61:1 | 4.1:1 | 24 | 81% | 84% | | 87% | |
| 11 | Myaukoo | 237778 | 178 | 181 | 405 | 101% | | 57% | 0.9:1 | 1.2:1 | 27 | 95% | 91% | | 91% | |
| 12 | Myebon | 130011 | 86 | 74 | 173 | %9/ | | 62% | 0.8:1 | 1.5:1 | 45 | 91% | 39% | | 79% | |
| 13 | Pauktaw | 140818 | 106 | 96 | 198 | 91% | | 64% | 1.23:1 | 1.5:1 | 23 | 77% | 31% | | 63% | |
| 14 | Ponnagyun | 139829 | 105 | 86 | 250 | 93% | | 45% | 0.7:1 | 0.8:1 | 13 | 87% | %62 | | %96 | |
| 15 | Thandwe | 160363 | 120 | 123 | 266 | 1 | | 61% | 0.92:1 | 1.5:1 | 14 | 85% | 82% | | %98 | |
| 16 | Gwa | 83419 | 63 | 50 | | | | 45% | 0.62:1 | 0.8:1 | 33 | 84% | 91% | | 91% | |
| 17 | Taungup | 153077 | 115 | 122 | 312 | _ | | 20% | 0.67:1 | 0.9:1 | 21 | 80% | %99 | | 81% | |
| | Total | 3355941 | 2517 | 2199 | 8699 | %28 | 91% | 45% | 0.53:1 | 0.7:1 | 21 | 87% | 74% | 74% | %98 | %98 |

| _ | | | | | | | | | | | | | | | | |
|----------|-----------------|------------|-----------|-----------|----------|-------------------|-------|-----------------|-----------------|-----------------|------------|------------|------|-------------|------|----------------|
| | | | Estimated | Total | Total | | (CDR) | Prop: of SS(+) | Ratio of NSS+ | Ratio of NSS+ | Sputum | Sputum | (CR) | (CR) | | (TSR) |
| N. o | TOWNSHIP | Population | New S(+) | New Smear | notified | (CDR) NTP only | other | pul:TB cases | to NSS (-)cases | to NSS (-)cases | Positivity | Conversion | NTP | other | NTP | NTP + other |
| | | | cases | Positive | TB cases | | | out of all pul: | and EP cases | <u>.</u> | Rate | Rate | | | | i n |
| ≍ٍٰ∟ | Yangon Division | Ē | | | | | | 2000 | | | | | | | | |
| E | East District | 0 | 0 | ~ | 2 | | | 20% | 1:1 | 1:1 | 23 | 100% | 100% | | 100% | |
| ĕ | Botataung | 35427 | 09 | 40 | 180 | %29 | %29 | 32% | 0.33:1 | 0.4:1 | 28 | %86 | 87% | %28 | %68 | 89% |
| Ğ | Dawbon | 79892 | 135 | 152 | 376 | 112% | 123% | 64% | 0.84:1 | 1.5:1 | 28 | %66 | 92% | 95% | %26 | 93% |
| ۵ | Dagon(N) | 161732 | 274 | 191 | 536 | %02 | 143% | 49% | 0.68:1 | 0.8:1 | 19 | 95% | 82% | 85% | %98 | %06 |
| ۵ | Dagon(S) | 263867 | 447 | 578 | 1610 | 129% | 154% | 22% | 0.7:1 | 0.9:1 | 35 | %58 | 75% | 85% | %62 | 87% |
| M | MingalarTN | 123264 | 209 | 140 | 029 | %29 | %29 | 34% | 0.34:1 | 0.4:1 | 21 | %56 | 87% | %28 | %88 | 88% |
| Ò | Okkala(N) | 271003 | 459 | 279 | 1023 | 61% | 112% | 41% | 0.44:1 | 0.5:1 | 23 | 91% | 87% | %28 | %88 | 87% |
| Ò | Okkala(S) | 160471 | 272 | 165 | 583 | 61% | 143% | 48% | 0.49:1 | 0.7:1 | 28 | %06 | 88% | %98 | 88% | 87% |
| È | Thaketa | 230966 | 391 | 477 | 1034 | 122% | 173% | 71% | 1.07:1 | 2.1:1 | 103 | %56 | 85% | 83% | 91% | %06 |
| ļ | Thingangyun | 174277 | 295 | 240 | 724 | 81% | 131% | 28% | 0.63:1 | 1.1:1 | 18 | %56 | 85% | %6 2 | 85% | 82% |
| 10 Ya | Yankin | 92897 | 157 | 146 | 369 | 83% | %26 | 51% | 0.79:1 | 0.9:1 | 37 | %26 | 89% | %68 | 95% | 92% |
| Τε | Tarmwe | 143806 | 244 | 119 | 433 | 46% | 61% | 49% | 0.47:1 | 0.7:1 | 21 | %26 | %98 | % 28 | 87% | 86% |
| 12 Pa | Pazundaung | 44765 | 76 | 36 | 161 | 47% | 51% | 45% | 0.35:1 | 0.6:1 | | %09 | %06 | 87% | 95% | 91% |
| 13 De | Dagon(E) | 85354 | 145 | 205 | 447 | 142% | 167% | %99 | 1.19:1 | 1.6:1 | 39 | %06 | 87% | 87% | 89% | 89% |
| 14 Da | Dagon Seikkan | 73888 | 125 | 80 | 338 | 64% | 75% | 40% | 0.39:1 | 0.5:1 | 3 | %06 | 78% | %82 | 84% | 84% |
| Τc | Total | 1941609 | 3291 | 2849 | 8446 | %28 | | 25% | 0.63:1 | 0.9:1 | 31 | %76 | 84% | | 87% | |
| × | West District | | | | | | | | | | | | | | | |
| Κέ | Kamayut | 46092 | 78 | 22 | 217 | %66 | 121% | 54% | 0.67:1 | 1:1 | | 91% | %69 | 72% | 85% | 84% |
| Ą | Kyauktada | 37701 | 64 | 20 | 81 | 31% | 36% | 47% | 0.39:1 | 0.7:1 | | %06 | 89% | %68 | %96 | 36 % |
| Ą | Kyinmyintdine | 69686 | | 149 | 386 | 94% | 131% | 63% | 0.83:1 | 1.3:1 | 22 | 81% | 78% | %6 2 | %82 | 80% |
| ഗ് | Sanchaung | 75999 | 129 | 83 | 270 | 64% | 71% | 54% | 0.55:1 | 0.8:1 | 14 | %98 | 86% | 87% | 88% | 89% |
| ഗ് | Seikkan | 1171 | 2 | 4 | 10 | 202% | | 20% | 0.67:1 | 1:1 | | 100% | 100% | | 100% | |
| ۵ | Dagon | 23700 | 40 | 35 | 97 | 87% | %06 | 29% | 0.71:1 | 1.2:1 | 39 | 100% | 87% | 87% | 87% | 87% |
| ሗ | Pabadan | 36644 | 62 | 30 | 96 | 48% | 20% | 28% | 0.57:1 | 1.1:1 | | %26 | 82% | 82% | 82% | 82% |
| ĕ | Bahan | 71091 | 120 | 06 | 234 | 75% | 102% | 25% | 0.75:1 | 1:1 | | %26 | 82% | 75% | 91% | 85% |
| | Mayangone | 146226 | 248 | 225 | 648 | 91% | 140% | 28% | 0.63:1 | 1.1:1 | 29 | 87% | 86% | 84% | %06 | 88% |
| 10 La | Latha | 27690 | 47 | 25 | 29 | 23% | %09 | 25% | 0.71:1 | 1:1 | | 84% | %02 | 71% | %02 | 71% |
| 11 La | Lanmadaw | 40093 | 89 | 36 | 108 | 23% | 26% | 52% | 0.61:1 | 0.9:1 | | %26 | 85% | %98 | 86% | 89% |
| | Hlaing | 114706 | 194 | 184 | 220 | %56 | %66 | | 0.6:1 | 0.7:1 | 13 | %86 | %98 | 83% | 91% | 89% |
| 13 Ah | Ahlone | 48794 | 83 | 61 | 212 | 74% | 92% | 47% | 0.52:1 | 0.6:1 | | %0 | 69% | %69 | 87% | 86% |
| ıΣ | Total | 928892 | 1295 | 1019 | 2976 | %62 | | 54% | 0.64:1 | 0.9:1 | 23 | %06 | 82% | | %88 | |

| (TSR) NTP + | other | | 93% | 82% | | 94% | 92% | 87% | 93% | 91% | 93% | 88% | | | 85% | 87% | 93% | , 85% | 87% | , 90% | 89% | 93% | | | | 87% |
|----------------|---|----------------|------------------|-------------|----------|--------|----------|-------------|--------|---------|----------|----------|---------|----------------|-------------|-------------|---------------|--------|---------|-----------|--------|--------|--------|--------------------|---------|-----------------|
| _ | only | | %26 | 81% | | 94% | 95% | 87% | 94% | 91% | 93% | 87% | 89% | | %98 | 87% | 82% | %98 | 85% | %06 | 89% | %96 | 20% | 93% | 89% | |
| (CR) | other | | %28 | %9 2 | | 93% | 78% | 83% | %06 | 80% | 83% | 79% | | | 72% | %99 | 91% | 74% | 87% | %62 | 85% | 93% | | | | 81% |
| (CR) | only | | %28 | 77% | | 93% | 78% | 83% | 92% | 82% | 83% | 80% | 83% | | 72% | 62% | 93% | 75% | 85% | 79% | 84% | %96 | %29 | 71% | 81% | 82% |
| Sputum | Conversion Rate | | %0 | 94% | | %86 | %06 | 87% | %26 | %26 | %98 | 95% | %76 | | %08 | %88 | %96 | %76 | %26 | %68 | %68 | %86 | 71% | 88% | 91% | 91% |
| Sputum | Positivity Rate | | | 27 | | 12 | 19 | 14 | 17 | 22 | 23 | 26 | 20 | | | 25 | 23 | 23 | 24 | | 17 | 25 | 25 | 19 | 23 | 25 |
| Ratio of NSS+ | to NSS (-)cases | | 1.7.1 | 0.9:1 | 0:0 | 0.7:1 | 1:1 | 1.3:1 | 2.4:1 | 1.6:1 | 1.2:1 | 1.5:1 | 1.2:1 | | 1:1 | 1.4:1 | 1:1 | 1.3:1 | 0.9:1 | 2:1 | 1.4:1 | 1.2:1 | 1.2:1 | 0.5:1 | 1.1:1 | 1:1 |
| Ratio of NSS+ | to NSS (-)cases and EP cases | | 1.23:1 | 0.51:1 | 0:0 | 0.54:1 | 0.77:1 | 0.8:1 | 0.94:1 | 0.82:1 | 0.82:1 | 1.05:1 | 0.79:1 | | 0.73:1 | 0.88:1 | 0.89:1 | 0.74:1 | 0.67:1 | 1.17:1 | 0.66:1 | 0.62:1 | 0.99:1 | 0.22:1 | 0.78:1 | 0.7:1 |
| Prop: of SS(+) | pul:TB cases out of all pul: TB cases | 1 | %99 | 20% | %0 | 42% | 51% | %09 | 73% | 64% | 26% | 63% | 58% | | 21% | 62% | 53% | 61% | 20% | %02 | 62% | 21% | 21% | | 57% | 25% |
| (CDR) | other | | 113% | 79% | | 34% | 55% | 28% | %69 | 42% | 38% | 122% | | | 195% | 152% | 193% | 149% | %02 | 44% | 75% | %66 | | | | 110% |
| (CDR) | NTP only | | 111% | 71% | %0 | 24% | 51% | 25% | 29% | 34% | 38% | 102% | 55% | | 165% | 104% | 176% | 126% | 20% | 44% | 72% | 77% | | | 110% | 85% |
| Total | notified I | | 116 | 603 | 0 | 179 | 328 | 252 | 359 | 364 | 269 | 653 | 3123 | | 1303 | 880 | 2210 | 1366 | 593 | 211 | 603 | 665 | 173 | 49 | 8053 | 22598 |
| Total | New Smear Positive detected | | 58 | 179 | 0 | 09 | 134 | 104 | 162 | 150 | 110 | 302 | 1259 | | 481 | 376 | 959 | 512 | 220 | 105 | 221 | 241 | 79 | 8 | 3202 | 8329 |
| Estimated | New S(+) cases | | 52 | 251 | 2 | 250 | 262 | 189 | 277 | 440 | 291 | 295 | 2309 | | 291 | 361 | 545 | 408 | 443 | 237 | 307 | 315 | 0 | 0 | 2906 | 9801 |
| | Population | | 30842 | 148054 | 976 | 147749 | 154682 | 111409 | 163322 | 259701 | 171568 | 174282 | 1362585 | | 171806 | 213015 | 321353 | 240579 | 261429 | 139628 | 180945 | 185638 | 0 | 0 | 1714393 | 5782463 |
| | TOWNSHIP | South District | Seikkyikanaungto | Dallah | Cocogyun | Kawhmu | Kyauktan | Kunggangone | Kayan | Twantay | Thonegwa | Thanlyin | Total | North District | Mingalardon | Shwepyithar | Hlaingtharyar | Insein | Taikkyi | Htantabin | Hmawbi | Hlegu | U.T.I | NTP(Diagnostic C) | Total | Yangon Division |
| 2 7 | ٥ | | 7 | 2 | က | 4 | 2 | 9 | 7 | 8 | 6 | 10 | | | _ | 2 | 3 | 4 | 5 | 9 | 7 | 80 | | | | ٨ |

| | | · | | | | | | | | | | | | |
|-------------------------|----------------|-----------|----------|------|----------------|-----------------------------|-----------------|--------------------|------------|------------|------|----------|-----------|----------------|
| Estimated | | Total | Total | | (CDR) NTP + | Prop: of SS(+) | Ratio of NSS+ | Ratio of NSS+ | Sputum | Sputum | (CR) | (CR) | (TSR) | (TSR) NTP + |
| New S(+) New 3 | ew : | New Smear | notified | > | other | pul:TB cases | to NSS (-)cases | to NSS (-)cases | Positivity | Conversion | only | other | only V | other |
| cases Positive detected | Posit detec | | TB cases | | | out of all pul: TB cases | and EP cases | | Rate | Rate | | = | | |
| _ | | | | | | | | | | | | | | |
| 280 | | 450 | 1301 | 161% | 178% | 23% | 0.6:1 | 1:1 | 23 | %28 | %62 | 77% | 85% | 84% |
| 151 | | 61 | 192 | 40% | 47% | 47% | 0.52:1 | 0.8:1 | 31 | %06 | %26 | 91% | 100% | 100% |
| 162 | | 155 | 403 | %56 | %96 | 21% | 0.71:1 | 1.1:1 | 25 | %06 | 75% | 75% | 87% | 87% |
| 122 | | 135 | 354 | 111% | 111% | 52% | 0.71:1 | 0.9:1 | 20 | %86 | 77% | 77% | 88% | 88% |
| 211 | | 142 | 219 | %29 | 73% | 81% | 2.29:1 | 3.8:1 | 33 | %96 | 89% | 89% | 91% | 91% |
| 223 | _ | 169 | 382 | %92 | %9 2 | 29% | 0.89:1 | 1.3:1 | 20 | 91% | 72% | 72% | %06 | 90% |
| 112 10 | 1 | 109 | 239 | %26 | %26 | 64% | 1.03:1 | 1.6:1 | 26 | %98 | 78% | 77% | 87% | 87% |
| 268 371 | 37 | - | 933 | 138% | 159% | 49% | 0.69:1 | 0.9:1 | 24 | %26 | 79% | 78% | 89% | 89% |
| 72 76 | 26 | | 232 | 106% | | 42% | 0.55:1 | 0.7:1 | 16 | %26 | 84% | | 93% | |
| 245 196 | 196 | | 265 | 80% | | 45% | 0.53:1 | 0.7:1 | 28 | 94% | %06 | | %06 | |
| 178 243 | 243 | | 885 | 137% | | 42% | 0.39:1 | 0.7:1 | 27 | 94% | 84% | | 88% | |
| 136 125 | 125 | | 329 | 95% | %66 | 25% | 0.66:1 | 1.1:1 | 28 | 82% | 73% | 73% | 83% | 83% |
| 80 61 | 61 | | 180 | %92 | | 52% | 0.55:1 | 1:1 | 21 | %06 | 87% | | 87% | |
| 259 232 | 232 | ΟI | 627 | %06 | 112% | 29% | 0.63:1 | 1.3:1 | 31 | %66 | 88% | 83% | 95% | 94% |
| 229 203 | 20 | က | 518 | 86% | 101% | 20% | 0.71:1 | 0.9:1 | 13 | %86 | %98 | 83% | %98 | %98 |
| 220 142 | 14 | 7 | 289 | %59 | 83% | 62% | 1.14:1 | 1.5:1 | 15 | %76 | %02 | 71% | 87% | 8 1% |
| 242 196 | 19 | 9 | 388 | 81% | 103% | 64% | 1.2:1 | 1.7:1 | 21 | %96 | 86% | 85% | 91% | 89% |
| 156 15 | 15 | 155 | 282 | 100% | | %59 | 1.5:1 | 1.7:1 | 22 | %62 | 78% | | 82% | |
| 241 23 | 2 | 230 | 601 | %26 | 110% | 52% | 0.65:1 | 1:1 | 19 | 85% | 80% | 80% | 84% | 85% |
| 227 2 | 2 | 218 | 602 | %96 | | %09 | 0.65:1 | 1.3:1 | 26 | 83% | %89 | | 78% | |
| 159 | 4, | 51 | 118 | 32% | %95 | 64% | 0.88:1 | 1.6:1 | 15 | %98 | %09 | %69 | 85% | 84% |
| 174 10 | 7 | 106 | 249 | 61% | %9 2 | 25% | 0.79:1 | 1.1:1 | 25 | 87% | 73% | 73% | %06 | %68 |
| 254 | 2 | 236 | 628 | 83% | | 62% | 0.71:1 | 1.5:1 | 29 | %28 | 78% | | 85% | |
| 162 | | 112 | 215 | %69 | 110% | 71% | 1.26:1 | 2.2:1 | 23 | 94% | 89% | 83% | 89% | 90% |
| 202 | | 142 | 363 | %02 | %0 2 | 53% | 0.69:1 | 1:1 | 29 | %06 | %06 | %06 | %06 | 90% |
| 137 | | 191 | 472 | 140% | 143% | %09 | 0.72:1 | 1.4:1 | 37 | 97% | 95% | 95% | %96 | 96% |
| 4899 | | 4507 | 11593 | %C6 | 102% | 2007 | 0.7.1 | 7 7.7 | 00 | 70.00 | 1010 | /000 | ,,,,, | /000 |

EVALUATION OF TB CONTROL ACTIVITIES AT TOWNSHIPS LEVEL (2008-2009)

| State & Division | Low CR ≤50% Low CDR≤40% | Low CR ≤50% | LowCDR≤40% | CDR≥ 100% LowCR | CR 100% LowCDR | CDR≥100% | CR100% | CR ≥85% CDR≥70% | Average |
|-----------------------------------|----------------------------|-------------|--|--------------------|-------------------|---|---------|---------------------------------|--|
| Kachin | sumprabum | | Machanbaw nogmum | | | Kamaing, PutaO Mogaung, Tanai, mansi | Chipway | Bahmo | Momauk Shwegu |
| 3 tsp report not receive 15 | 1 | 0 | 2 | 0 | 0 | Myitkyina, Waingmaw 7 | - | 1 | Mohynin |
| Kayah 7 | Shataw 1 | Pasaung 1 | Dimawhso, Phruhso | 0 | 0 | Bawlake | 0 | 0 | Masai, Loikaw |
| Chin | Kanpetlet | Mindat 1 | Falam Matupi | 0 | Htantalan 1 | 0 | 0 | 0 | Hakha, Tiddim, Paletwa Tunzan |
| Sagaing | | | Yinmabin Mawlaik Nanyun Banmauk Pale Kani | | | Khamti Kalay | | Myinmu Tamu Ayadaw | Sagaing, Myaung, Shwebo Khin-U, Kyunhla Tabayin, Taze, Layshi Wetlet, Ye-U, Kanbalu Monywam, Kalewa Budalin, ChaungU Salingyi, Katha, Homalin Htigyaing Indaw, Kawlin , Lahel Pinlebu, Wuntho |
| 36 | 0 | 0 | 9 | 0 | 0 | 2 | 0 | 2 | |
| Magway | | Saytoketaya | Yesagyo Seikphyu | | Sinpaukwae | | | Myothit | Taungdwingyi Natmauk |
| | | | | | | Chauk Yenanchaung Pwintphyu | | rauk, iviindon Minhla, Kanma | rakokku, Gangaw Myaing, Minbu, Ngape Saw, Salin, Aunglan |
| 25 | 0 | 1 | 3 | 0 | 1 | 5 | 0 | 5 | |

| State & | Low CR ≤50% | Low CR ≤50% | LowCDR≤40% | CDR≥ 100% | CR 100% | CDR≥100% | CR100% | CR ≥85% | Average |
|--------------------------------------|-------------|-------------|--------------------------|-----------|---------|-------------------|---------|-----------------|----------------------------|
| Division | Low CDR≤40% | | | LowCR | LowCDR | | | CDR≥70% | |
| | | | | | | Pyigyitagonn | | Aungmyaytharzan | Mogok, Meiktilar, TadaO |
| | | | Mahlaing | | | Amarapura | | Chanmyatharzi | Myittha |
| | | | Natogyi | | | Chanayetharzan | | Maharaungmyae | Tharzi, Sintgine |
| Mandalay | | | Taungtha | | | Kyaukpadaung | | Patheingyi | Wundwin, Myingan, Yamethin |
| | | | | | | Thabeikkyin | | Sintgu, Lewei | Ngazun, NyaungU, Tatkone |
| | | | | | | Pyinmana | | | Pyin oo Lwin, Madayar |
| | | | | | | Kyaukse | | | |
| 31 | 0 | 0 | 4 | 0 | 0 | 7 | 0 | 9 | 14 |
| | Mongaking | Mongpang | Loilem, Hopone, Pindaya | | | Kunhein | Mongshu | Maukme | Linhkaym , Nyaungshwe |
| | | | Kyeethi, , Ywangan | | | | Mansi | Laikha | Namsan, Lauksauk |
| Shan(south) | | | Hpekon, Pinlaung | | | | | | Taunggyi, Kalaw, Hsiseng |
| 21 | 1 | 1 | 7 | 0 | 0 | 1 | 2 | 2 | 7 |
| Shan(East) 1 tsp not | Mongkhat | | Mongyan | | | Monghsat, Mongton | | | Kengtong, Mongping |
| report received | | | | | | Tachileik | | | Monpyak, Mongyaung |
| 6 | 1 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 4 |
| Shan(North) | Pangyan | Hopan | Nyaungcho | | Manton | Lashio | | Hsipaw | Kunlon, Namkham, Mongreh |
| 5 tsp: not receive report Laukkai | t Laukkai | Theinni | Namsam | | | | | Mabein | Kvaukme, Monameik |
| | | | Kuitai | | | | | | Namtu, Muse, Tanyan |
| 19 | 2 | 2 | 3 | | 1 | 1 | 0 | 2 | 8 |
| | | | Thandaung, Kyarinseikkyi | | | Myawady | | | Kawkareik |
| Kayin 7 | | o | 6 | c | c | Hpa-an, Hlaingbwe | c | c | Papun(Kamamaung) |
| | | | Launglon, Kyunsu | | | Kawthaung | | | Dawei, Palaw |
| Tanintharyi | | | Thayetchaung, Yebyu | | | Myeik | | | Bokpyin, Tanintharyi |
| 10 | 0 | 0 | 4 | 0 | 0 | 2 | 0 | 0 | 4 |
| Bago (East) | | | | | | Bago | | Daik-U | Kawa, Htantabin |
| | | | | | | Waw | | Kyauktaga | Nyaunglaybin, Shwekyin |
| | | | | | | Taungoo | | | Thanatpin, Phyu |
| : | | | | | | | | | Kyaukkyi , Oktwin, Yedashe |
| 14 | 0 | 0 | 0 0 | 0 | 0 | 3 | 0 | 2 | 6 |

| State & | Low CR ≤50% | Low CR ≤50% | LowCDR≤40% | CDR≥ 100% | CR 100% | CDR≥100% | CR100% | CR ≥85% | Average |
|------------|-------------|-------------|-----------------|-----------|---------|-----------------------|---------|--------------------|-----------------------------|
| Division | Low CDR≤40% | | | LowCR | LowCDR | | | CDR≥70% | |
| | | | | | | Pyay | | Paukkhaung, Okpo | Paungde, Latpadan |
| Bago(West) | | | | | | Thegon | | Tharyarwady | Padaung |
| | | | | | | Nattalin, Shwedaung | | Zigon, Gyobingauk | Minhla, Moenyo |
| 14 | 4 0 | 0 | 0 | 0 | 0 | 4 | 0 | 5 | 2 |
| | | | | | | Mawlamyaing, Kyaikhto | | Belin, Paung | Chanungzon |
| | | | | | | Thanbyuzayut | | | |
| Mon | | | | | | Ye, Thaton, Mudon | | | Kyaikmaraw |
| 10 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 2 | 2 |
| | | Myebon | | | | Buthidaung | Manaung | Kyauktaw | Kyaukphyu |
| Rakhine | | Pauktaw | | | | Rathedaung | | Myaukoo | Ann |
| | | | | | | Sittwe, Taungup | | Gwa | Rambye |
| | | _ | | | | Minbya, Thandwe | | | Maungdaw, Ponnagyun |
| 17 | 7 0 | 2 | 0 | 0 | 0 | 9 | 1 | 3 | 5 |
| Yangon | Cocogyun | | Kyauktada | | | Bahan | | Dawbon, Hmawbi | Botataung, Tarmwe, Kyauktan |
| | | | Kawhmu, Thongwa | | | Thanlyin | | Seikkan | Pazundaung |
| | | | | | | Mingalardon | | Okkalapa (S) | MingalarTN, Hlaing |
| | | | | | | Shwepyithar, Insein | | Seikkan | Twantay |
| | | | | | _ | Thaketa, Thingangyun | | Dagon, Dagon (S) | Htantabin |
| | | | | | _ | Dagon East, Kamayut | | Okkalapa (N) | Ahlone |
| | | | | | | Dagon Seikkan | | Taikkyi, Dagon (N) | Sanchaung, Pabadan |
| | | | | | _ | Mayangone | | Seikkyikanaungto | Dallah, Kunggangone |
| | | | | | | Kyimyintdaing | | Hlaingtharyar | Latha, Lanmadaw, Kayan |
| | | | | | | | | неgu | |
| 45 | 5 | 0 | 3 | 0 | 0 | 12 | 0 | 13 | 16 |
| | | | | | | Pathein, Nyaungdon | | Myanaung | Kangyidaung, Ngaputaw |
| Ayeyarwady | | | | | | Kyaunggon, Laputta | | Laymtethna | Yekyi, Thabaung, Zalun |
| | | | | | | Hinhada, Myaungmya | | Kyonepyaw | Pyapon, Mawgyun |
| | | | | | | Kyankin | | Danuphyu | Bogalay, Dedaye |
| | | | | | | Ingapu, Einme | | Wakema, Pantanaw | Kyaiklatt, Maubin |
| 26 | 0 9 | 0 | 0 | 0 | 0 | 6 | 0 | 9 | 11 |
| 315 | 5 | 8 | 39 | 0 | 3 | 72 | 4 | 49 | 132 |
| | | | | | | | | | |

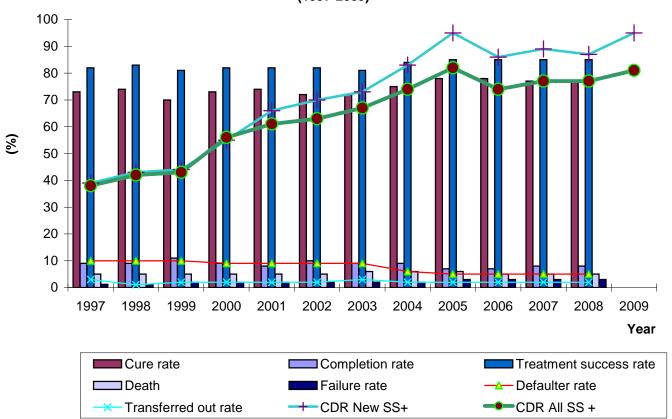
EVALUATION OF TREATMENT OUTCOME OF NEW SMEAR POSITIVE TB PATIENTS (2009)

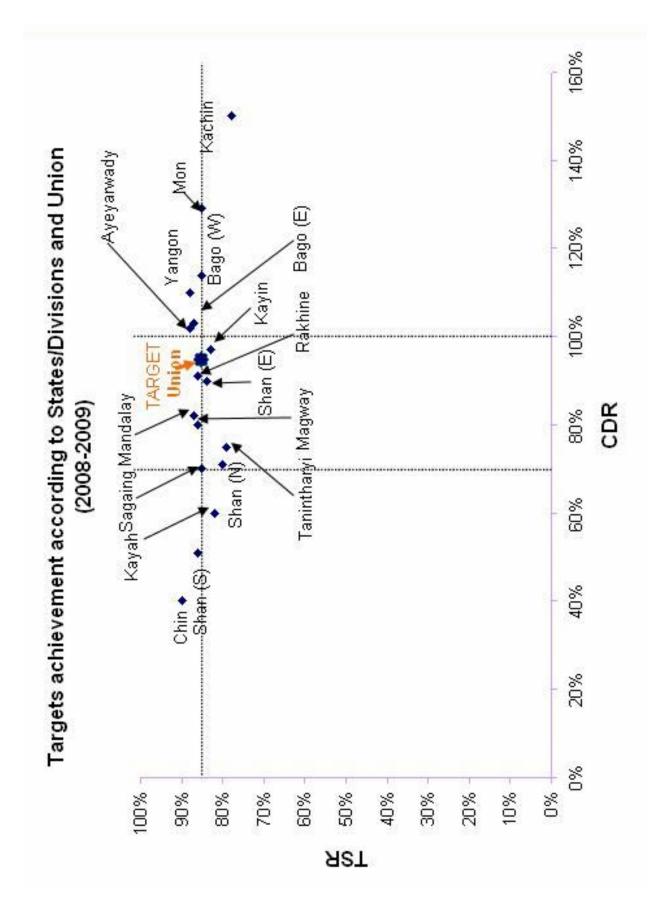
| | | DOTS TOWNSHIPS | |
|--------------------|--|--------------------------------|---|
| States & Divisions | High Defaulter Rate ≥ 10% *means ≥ 20% | Low CR ≤ 50% with TSR ≥ 70% | Sputum Conversion Rate < 80% |
| Kachin | *mansi, mohynin, kamaing, mogaung, tanai, myitkyina | Nii | shwegu, kamaing, putao |
| Kayah | *bawlakhe | mansi | phruhso |
| Chin | | mindat, kanpetlet | htantalan, tunzan, matupi |
| Sagaing | lahel | kyunhla | kani, htygyaing, indaw, wuntho, layshi nanyun |
| Magwe | chauk, satoketaya, thayet | myaing | gantgaw, satoketaya, thayet |
| Mandalay | pyinmana | N. | patheingyi, madayar, thabeikkyin, yamethin, tatkone, kyaukse |
| Shan(S) | *mongkaing, taunggyi | mongkaing | mongkaing, namsan, hopone, ywangan |
| Shan(E) | mongping, *mongton, mongyaung | N. | monghsat, tachileik |
| Shan(N) | *lashio, theinni, *pangyan, *laukkai, muse, kutkai, namkhan | N. | hopan, mongmeik, lashio, pangyan, laukkai, muse, namkhan |
| Kayin | myawaddy, hpa-an | Nil | myawaddy, thandaung |
| Tanintharyi | thayetchaung, bokpyin, *palaw | Nii | myeik |
| Bago(E) | shwekyin | Nil | kyaukkyi |
| Bago(W) | thegon | Nii | tharyarwady |
| Mon | уе | Nii | Nil |
| Rakhine | *ann, myebon, *pauktaw | myebon | maungdaw, pauktaw |
| Yangon | latha | Nii | Nil |
| Ayeyarwady | zalun | IIN | einme |

Progress of NTP (1994-2009)

| Indicator\Year | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CDR (New SS+) | 33% | 35% | 39% | 39% | 43% | 44% | 55% | 66% | 70% | 73% | 83% | 95% | 86% | 89% | 87% | 95% |
| CR | 61% | 54% | 75% | 73% | 74% | 70% | 73% | 74% | 72% | 72% | 75% | 78% | 78% | 77% | 78% | _ |
| TSR | 78% | 66% | 82% | 82% | 83% | 81% | 82% | 82% | 82% | 81% | 84% | 85% | 85% | 85% | 85% | |

Case detection rates with estimated cases as 2006 and treatment outcome (1997-2009)



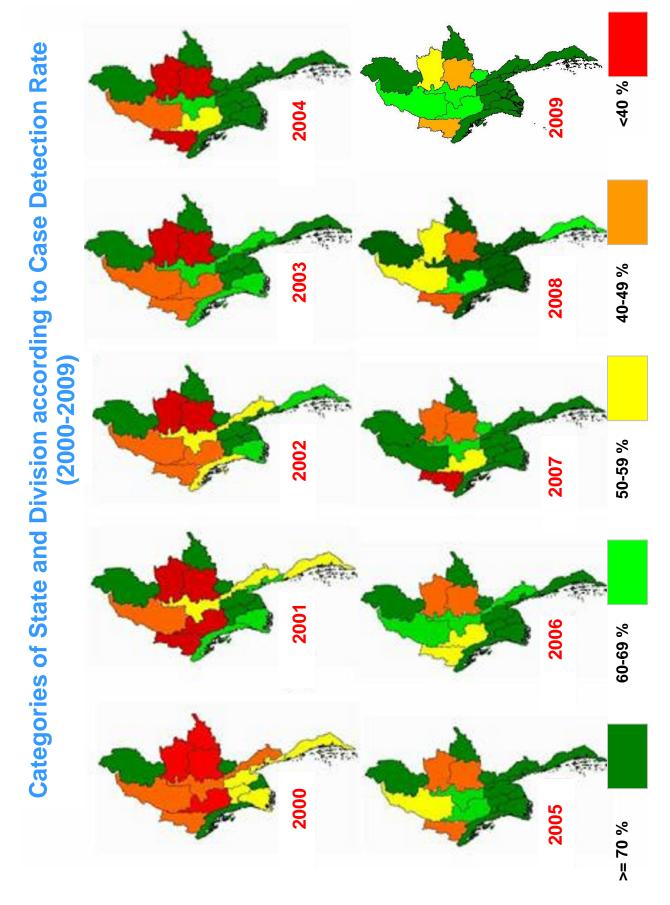


Case Detection Rate (New Smear Positive) of States/Divisions (1999-2009)

| State / | | | | | | CDR | | | | | |
|-------------|------|------|------|------|------|------|------|------|------|------|------|
| Division | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
| Kachin | 54 | 79 | 120 | 127 | 118 | 90 | 116 | 131 | 129 | 109 | 122 |
| Kayah | 106 | 81 | 88 | 76 | 71 | 70 | 83 | 79 | 69 | 70 | 60 |
| Chin | 37 | 42 | 37 | 45 | 42 | 38 | 42 | 52 | 39 | 41 | 40 |
| Sagaing | 27 | 41 | 45 | 42 | 45 | 45 | 53 | 60 | 79 | 59 | 61 |
| Magway | 26 | 35 | 38 | 48 | 49 | 57 | 65 | 55 | 56 | 68 | 67 |
| Mandalay | 38 | 45 | 50 | 52 | 60 | 65 | 67 | 65 | 69 | 70 | 64 |
| Shan(S) | | | 34 | 34 | 32 | 38 | 40 | 43 | 48 | 46 | 49 |
| Shan (E) | 30 | 34 | 106 | 134 | 87 | 99 | 103 | 102 | 102 | 106 | 90 |
| Shan (N) | | | 23 | 27 | 31 | 34 | 42 | 46 | 49 | 55 | 56 |
| Kayin | 38 | 47 | 55 | 57 | 68 | 72 | 86 | 65 | 79 | 81 | 92 |
| Tanintharyi | 83 | 59 | 54 | 66 | 72 | 76 | 75 | 71 | 72 | 69 | 72 |
| Bago(E) | 43 | 59 | 79 | 78 | 81 | 73 | 87 | 82 | 83 | 79 | 82 |
| Bago(W) | 43 | 39 | 73 | 85 | 81 | 87 | 77 | 91 | 101 | 101 | 105 |
| Mon | 54 | 57 | 68 | 71 | 74 | 95 | 108 | 93 | 89 | 94 | 114 |
| Rakhine | 49 | 73 | 67 | 54 | 64 | 84 | 83 | 81 | 75 | 90 | 87 |
| Yangon | 65 | 81 | 114 | 131 | 148 | 156 | 158 | 70 | 81 | 76 | 85 |
| Ayeyarwady | 41 | 56 | 66 | 63 | 67 | 78 | 86 | 96 | 92 | 84 | 92 |
| Union | 44 | 55 | 66 | 70 | 73 | 83 | 95 | 86 | 89 | 87 | 95 |

Treatment outcomes of smear positive in States/Division (1999-2008)

| State / | 19 | 99 | 9 2000 | | 2001 | | 2002 | | 2003 | | 2004 | | 2005 | | 2006 | | 2007 | | 2008 | |
|-------------|----|-----|--------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| Division | CR | TSR | CR | TSR | CR | TSR | CR | TSR | CR | TSR | CR | TSR | CR | TSR | CR | TSR | CR | TSR | CR | TSR |
| Kachin | 69 | 77 | 77 | 78 | 71 | 74 | 69 | 75 | 67 | 73 | 74 | 78 | 75 | 78 | 73 | 81 | 67 | 77 | 73 | 78 |
| Kayah | 94 | 95 | 95 | 95 | 94 | 95 | 95 | 95 | 92 | 92 | 93 | 94 | 83 | 88 | 76 | 83 | 66 | 78 | 63 | 82 |
| Chin | 83 | 95 | 42 | 85 | 66 | 86 | 75 | 85 | 50 | 82 | 68 | 84 | 73 | 84 | 65 | 78 | 72 | 87 | 71 | 90 |
| Sagaing | 63 | 85 | 60 | 82 | 65 | 87 | 55 | 86 | 56 | 80 | 72 | 80 | 74 | 82 | 74 | 82 | 77 | 86 | 78 | 85 |
| Magway | 71 | 84 | 74 | 89 | 84 | 90 | 79 | 91 | 73 | 88 | 77 | 90 | 80 | 89 | 81 | 89 | 77 | 88 | 76 | 86 |
| Mandalay | 66 | 81 | 79 | 87 | 84 | 88 | 84 | 89 | 83 | 89 | 77 | 87 | 75 | 86 | 79 | 86 | 77 | 86 | 81 | 87 |
| Shan(S) | | | 76 | 11 | 86 | 88 | 83 | 85 | 76 | 80 | 79 | 83 | 72 | 83 | 73 | 79 | 74 | 81 | 80 | 86 |
| Shan (E) | 73 | 79 | 79 | 81 | 74 | 84 | 64 | 78 | 56 | 68 | 64 | 74 | 64 | 78 | 62 | 80 | 64 | 85 | 70 | 84 |
| Shan (N) | | | 84 | 89 | 66 | 73 | 63 | 71 | 65 | 78 | 69 | 79 | 68 | 81 | 65 | 81 | 68 | 82 | 69 | 80 |
| Kayin | 82 | 87 | 71 | 85 | 66 | 83 | 70 | 78 | 67 | 78 | 68 | 83 | 74 | 83 | 75 | 82 | 78 | 86 | 76 | 83 |
| Tanintharyi | 67 | 74 | 68 | 76 | 72 | 75 | 70 | 76 | 68 | 72 | 56 | 73 | 64 | 73 | 67 | 76 | 71 | 76 | 74 | 79 |
| Bago(E) | 76 | 83 | 81 | 86 | 76 | 82 | 74 | 84 | 80 | 84 | 86 | 88 | 89 | 91 | 84 | 90 | 79 | 87 | 78 | 87 |
| Bago(W) | 76 | 83 | 76 | 90 | 75 | 86 | 69 | 81 | 67 | 78 | 74 | 81 | 74 | 84 | 82 | 86 | 79 | 85 | 80 | 85 |
| Mon | 61 | 78 | 69 | 76 | 74 | 80 | 76 | 83 | 76 | 84 | 77 | 87 | 80 | 88 | 79 | 87 | 79 | 87 | 81 | 85 |
| Rakhine | 71 | 81 | 71 | 82 | 72 | 81 | 70 | 84 | 72 | 83 | 74 | 87 | 81 | 87 | 85 | 91 | 77 | 88 | 74 | 86 |
| Yangon | 62 | 75 | 66 | 75 | 67 | 74 | 66 | 73 | 67 | 76 | 73 | 82 | 78 | 84 | 78 | 85 | 81 | 87 | 82 | 88 |
| Ayeyarwady | 82 | 87 | 78 | 86 | 82 | 88 | 80 | 87 | 81 | 85 | 83 | 87 | 82 | 88 | 82 | 91 | 83 | 90 | 81 | 88 |
| Union | 70 | 81 | 73 | 82 | 74 | 82 | 72 | 82 | 72 | 81 | 75 | 84 | 78 | 85 | 78 | 85 | 77 | 85 | 78 | 85 |



Categories of State and Division according to Treatment Success Rate 2008 **~20** % 20-29 % 2003 2007 (2001-2008)60-74 % 2006 2002 75-84 % 2001 2005 >= 85 %

National Tuberculosis Programme Case finding activities (1994 - 2009)

| | | | | | | | | Я | PULMONARY | ARY | TUBE | TUBERCULOSIS | SIS | | | E | EXTRA | L | | | | |
|--------------|----------------|------------|----------|-------------------------|-------|--------|--------|--------|-----------|----------|-----------------|--------------|--------------|--------|----------|----------|-----------|---------|-------------|--------|--------|---------|
| YEAR | Total | DOTS | No.of | CNR | CDR | | | SMI | SMEAR P | POSITIVE | ļ,,, | | | SMI | SMEAR | PULM | PULMONARY | | | | Total | |
| | Population | Population | Estimate | All S(+) | NS(+) | | | | | OL | OLD CASES | ES | | NEG, | NEGATIVE | • | ТВ | ₹ | Other | | | |
| | | | S(+) | per 100,000 | | NEW | O | ASES | RELA | RELAPSES | T'after default | _ | T'after fail | | | | | | | | | |
| | | | cases | population | | Δ | F | ⊥ | Μ | Ь | M | F | M | Μ | Ь | M | Ь | M | ь | Μ | Ь | ⊢ |
| 1994(18Tsp) | | 3,492,420 | 3,492 | 32 | 33 | 615 | 331 | 946 | 124 | 09 | 0 | 0 | | 203 | 154 | 33 | 35 | | | 975 | 580 | 1,555 |
| 1995(144Tsp) |) 44,302,486 | 26,180,539 | 26,182 | 32 | 36 | 4,885 | 2,692 | 7,577 | 1,186 | 629 | 0 | 0 | | 4,037 | 2,797 | 317 | 296 | | | 10,547 | 6,461 | 17,008 |
| 1996(153Tsp) |) 45,574,135 | 27,413,310 | 27,413 | 68 | 39 | 5,648 | 3,148 | 8,796 | 1,251 | 551 | 0 | 0 | | 4,823 | 3,461 | 280 | 493 | | | 12,472 | 7,724 | 20,196 |
| 1997(153Tsp) |) 46,402,230 | 27,744,233 | 27,744 | 68 | 39 | 5,844 | 3,170 | 9,014 | 1,133 | 538 | 0 | 0 | | 2,719 | 2,029 | 383 | 297 | | | 10,079 | 6,034 | 16,113 |
| 1998(153Tsp) |) 47,260,665 | 28,260,276 | 28,260 | 42 | 43 | 6,325 | 3,764 | 10,089 | 1,286 | 292 | 0 | 0 | | 1,233 | 982 | 326 | 275 | | | 9,170 | 5,586 | 14,756 |
| 1999(168Tsp) |) 48,144,446 | 31,245,000 | 31,247 | 43 | 44 | 7,317 | 4,141 | 11,458 | 1,460 | 643 | 0 | 0 | | 2,649 | 1,942 | 788 | 989 | | | 12,214 | 7,412 | 19,626 |
| 2000(231Tsp) | (1) 49,033,261 | 37,621,000 | 37,621 | 22 | 26 | 11,196 | 6,058 | 17,254 | 1,818 | 805 | 930 | 233 | | 5,167 | 3,492 | 1,289 | 1,015 | | | 20,100 | 11,603 | 31,703 |
| 2001(259Tsp) |) 51,138,000 | 42,061,000 | 42,061 | 69 | 99 | 13,473 | 7,213 | 20,686 | 2,203 | 911 | 741 | 282 | | 8,296 | 5,446 | 2,087 | 1,803 | | | 26,800 | 15,655 | 42,455 |
| 2002(310Tsp) | 5,216,455 | 46,044,000 | 34,533 | 63 | 70 | 15,951 | 8,211 | 24,162 | 2,582 | 1,082 | 925 | 306 | | 11,228 | 7,260 | 5,955 | 4,743 | | | 36,641 | 21,602 | 58,243 |
| 2003(324Tsp) |) 53,207,841 | 49,667,413 | 37,251 | 29 | 74 | 18,017 | 9,431 | 27,448 | 3,235 | 1,259 | 1,127 | 360 | | 15,759 | 10,247 | 9,858 | 7,938 | | | 47,996 | 29,235 | 77,231 |
| 2004(324Tsp) |) 54,282,182 | 50,274,570 | 37,706 | 74 | 83 | 20,783 | 10,625 | 31,408 | 3,318 | 1,388 | 979 | 268 | | 20,969 | 13,363 | 14,652 | 11,564 | | | 60,701 | 37,208 | 97,909 |
| 2005(324Tsp) |) 55,367,825 | 51,412,552 | 38,559 | 82 | 92 | 24,204 | 12,337 | 36,541 | 3,264 | 1,351 | 992 | 216 | | 22,117 | 13,484 | 16,902 | 13,350 | | | 67,253 | 40,738 | 107,991 |
| 2006(325Tsp) |) 56,477,230 | 54,286,877 | 46,911 | 98 | 98 | 26,713 | 13,528 | 40,241 | 3,562 | 1,433 | 841 | 280 | | 26,027 | 16,714 | 19,329 | 15,103 | | | 76,535 | 47,058 | 123,593 |
| 2007(325Tsp) | 57,606,774 | 55,753,816 | 48,135 | 88 | 89 | 27,927 | 14,661 | 42,588 | 3,307 | 1,358 | 588 | 160 8 | 822 428 | 24,979 | 16,847 | , 22,572 | 17,430 | 1,731 | 737 | 81,926 | 51,621 | 133,547 |
| 2008(325Tsp) | () 58,758,909 | 53,752,810 | 45,789 | 88 | 90 | 27,099 | 14,149 | 41,248 | 3,063 | 1,245 | 470 | 149 76 | 763 365 | 26,243 | 17,791 | 19,322 | 15,125 | - | 1,954 1,001 | 78,914 | 49,825 | 128,739 |
| 2009(325Tsp) | 59,934,088 | 50,907,881 | 43,645 | 94 | 92 | 27,386 | 14,003 | 41,389 | 3,255 | 1,315 | 460 | 127 9 | 923 408 | 30,372 | 20,840 | 17,860 | 13,821 | 1 2,274 | 979 | 82,530 | 51,493 | 134,023 |
| | | TADL | Treatm | Treatment after Default | 1116 | | | | | | | | | | | | | | | | | |

TAD = Treatment after Default
TAF = Treatment after Failure

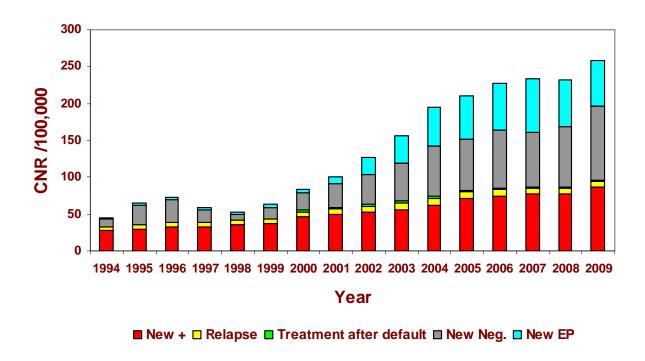
Annex-30(a) Treatment Outcome of NS(+), Relapse, NS(-) cases (1994 - 2004), National Tuberculosis Programme Evaluated 10313 14539 27419 31413 34385 Total 16792 20922 16990 6995 1443 8496 1745 5609 2499 11641 23466 3648 26607 4682 1434 1440 6084 1697 8502 9232 1791 2041 4998 2704 2606 3294 4621 536 TRANSFER OUT 18% 4% 1% %9 8% %6 3% 3% 3% 3% 3% 2% 3% 2% 2% 3% 3% 2% 3% 2% 2% 4% 3% 2% 3% 2% 3% 4% 3% 2% 3% 4% 2% 1283 536 200 218 213 225 130 266 170 469 116 380 520 318 711 176 773 155 9 134 290 267 194 107 860 9 96 82 28 28 62 4 29 7 13% 10% 15% 18% 19% 16% 10% 11% 10% 10% 11% 13% 10% 13% 11% 11% 10% 10% 10% %6 %6 %6 %6 % %6 %6 % %6 %6 %6 %6 %6 %9 **DEFAULTER** % 1290 1033 1205 1556 1985 2135 1530 2480 2786 3048 273 160 760 198 273 533 294 283 1511 325 414 335 212 974 904 189 328 883 1961 185 805 9 N 571 53 11% 1% 4% 4% %0 2% 3% %0 1% 1% 3% 2% 4% 1% 2% 3% 1% 2% 4% 2% 3% 1% 2% 4% 1% 2% 4% 1% %0 4% %0 1% %0 % FAILURE 149 114 283 358 445 126 564 169 160 186 188 £ 267 15 194 132 121 269 9 88 16 9 28 58 24 4 66 53 25 53 22 77 47 2% 2% 2% 4% 4% 2% 4% %9 4% 2% %9 3% 2% %9 2% 2% 7% 2% 2% %/ 2% 2% 8% 2% 2% 8% 2% %9 %6 2% %9 %6 %9 % DED 2045 284 364 104 318 109 486 624 142 230 892 194 1094 1253 289 1562 402 1356 1731 S 165 103 130 120 422 431 257 662 907 407 10 28 68 22 84% 81% 81% 82% 82% 81% TSR %99 82% 83% 82% 78% 11% 17% 12% 77% 85% 14% 10% 11% 10% 82% 83% 10% 10% 83% 81% 81% 30% 77% 82% %6/ 10% 82% 13% COMPLETED 8% %9 2% %6 %6 8% %6 %6 8% %6 11933 14114 21445 27821 1240 1114 4080 7566 1622 2284 2486 4662 7187 4592 1982 1581 2617 9 N 160 837 550 820 236 879 183 262 325 580 538 248 122 337 201 8 %02 61% 29% 54% 75% 73% 73% 61% 74% %29 63% 73% %99 74% %99 72% %89 72% 62% 75% %59 25% S CURED 19616 12214 15394 16829 23634 2476 3781 6410 1236 6732 1059 7622 1201 8153 1281 1795 2169 2880 3061 899 800 £ 157 0 0 0 0 0 0 0 0 0 Total registered No. of Pul pts: 10313 16792 20922 14539 23466 16990 27419 31413 34385 1443 1745 11641 3648 26607 1473 1440 6995 6084 8496 1697 8502 9232 5609 1791 2499 2041 4998 2704 2606 3294 4621 4682 536 Type of TB patients Relapse Relapse Relapse Relapse Relapse Relapse Relapse Relapse Relapse Relapse Relapse NS(+) NS(+) NS(-) NS(+) NS(-) NS(+) (+)SN NS(-) (+)SN NS(-) (+)SN NS(-) (+)SN NS(-) NS(+) NS(-) NS(+) NS(+) NS(-) NS(-) NS(-) NS(-) YEAR 1994 1995 1996 1998 1999 2000 2001 2002 2003 2004 1997

Annex-30(b)

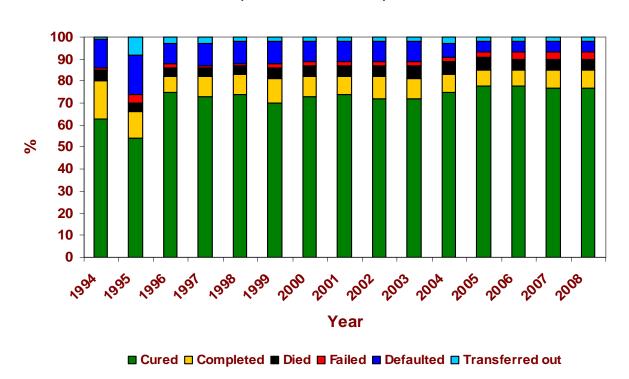
Treatment Outcome of NS(+), Relapse, NS(-) with HIV(+) cases (2005 - 2007), National Tuberculosis Programme

| | | 34859 | 1793 | 4458 | 370 | 34281 | 1615 | 39004 | 1341 | 4613 | 296 | 40425 | 3030 | 42738 | 1120 | 4680 | 158 | 42228 | 2530 | 39984 | 1273 | 4115 | 157 | 38181 | 5956 |
|--|----|------------|------|---------|-----|-------------|--------------------|----------|------|---------|----------|-------------|--------------------|----------|-------------|------|-----------------|-------------|--------------------|-------|---------------------|--------------|-----------------|-------------|--------------------|
| ER OUT | % | 2% | 2% | 4% | 6% | 3% | 4% | 2% | 4% | 3% | 4% | 2% | 3% | 2% | 3% | 3% | 4% | 2% | 4% | 2% | %8 | 2% | 2% | 2% | 3% |
| TRANSFER | No | 731 | 41 | 196 | 22 | 982 | 89 | 735 | 47 | 153 | 11 | 934 | 93 | 764 | 31 | 151 | 9 | 854 | 26 | 625 | 38 | 101 | 3 | 839 | 85 |
| DEFAULTER | % | %9 | %8 | %9 | %9 | %8 | %8 | 2% | %9 | %9 | 3% | %8 | %8 | 2% | %9 | %9 | 4% | %8 | 8% | %9 | %9 | %9 | 2% | %2 | %9 |
| DEFA | No | 1787 | 139 | 285 | 23 | 2691 | 131 | 1937 | 82 | 280 | 8 | 3093 | 216 | 2104 | 52 | 279 | 9 | 3318 | 210 | 1907 | 69 | 500 | 3 | 2859 | 149 |
| FAILURE | % | 2% | 12% | 2% | 8% | 0.4% | 3% | 3% | %9 | %9 | 4% | 0.8% | 2% | 3% | 3% | 2% | 3% | %9.0 | 1% | 3% | 2% | 2% | 3% | 0.5% | 1% |
| FAIL | No | 825 | 219 | 202 | 30 | 149 | 46 | 1211 | 79 | 285 | 13 | 320 | 56 | 1174 | 30 | 225 | 4 | 267 | 21 | 1043 | 22 | 203 | 4 | 179 | 28 |
| Q: | % | 2% | 11% | %6 | 30% | 7% | 25% | 2% | 76% | %6 | 36% | %9 | 24% | %9 | 25% | 11% | 36% | 7% | 26% | %9 | 27% | %6 | 78% | %9 | 25% |
| DIED | No | 1898 | 192 | 401 | 111 | 2275 | 406 | 1883 | 344 | 418 | 106 | 2253 | 723 | 2339 | 283 | 492 | 22 | 2887 | 649 | 2038 | 338 | 387 | 45 | 2351 | 632 |
| TSR | | 85% | 67% | 76% | 20% | 82% | %09 | 85% | 29% | 75% | 20% | 84% | 64% | 85% | 65 % | 75% | 54% | 83% | 61% | %98 | 93% | %82 | 65 % | 84% | %59 |
| COMPLETED | % | %2 | 2% | 11% | 18% | 82% | %09 | %2 | %2 | 11% | 22% | 84% | 64% | %8 | %6 | 12% | 17% | 83% | 61% | %2 | 13% | 11% | 20% | 84% | %59 |
| COMP | No | 2579 | 41 | 477 | 29 | 28184 | 964 | 2873 | 88 | 512 | 99 | 33825 | 1942 | 3502 | 102 | 578 | 27 | 34902 | 1553 | 2944 | 166 | 470 | 32 | 31953 | 1671 |
| RED | CR | %82 | %59 | %59 | 32% | | | %82 | 25% | 64% | 31% | | | %44 | %95 | %89 | 37% | | | %62 | %09 | %29 | 45% | %0 | %0 |
| CURED | | 39 | 61 | 2897 | 117 | | | 30365 | 700 | 2965 | 92 | | | 32855 | 622 | 2955 | 58 | | | 31427 | 640 | 2745 | 70 | | |
| | No | 27039 | 1161 | 28 | 1 | | | 30 | 7 | 26 | <u> </u> | | | 33 | | (1 | | | | ` ' | | | | | _ |
| Total registered No. of Pul pts: | | 34859 2703 | 1793 | 4458 28 | 370 | 34281 | 1615 | 39004 30 | 1341 | 4613 29 | 296 | 40425 | 3030 | 42738 33 | 1120 | 4680 | 158 | 42228 | 2530 | 1 | 1273 | 4115 | 157 | 38181 | 2565 |
| Type of TB Total registered patients No. of Pul pts: | | | | | | NS(-) 34281 | TB/HIV, NS(-) 1615 | | | | | NS(-) 40425 | TB/HIV, NS(-) 3030 | | | | TB/HIV, Relapse | NS(-) 42228 | TB/HIV, NS(-) 2530 | | TB/HIV, NS (+) 1273 | Relapse 4115 | TB/HIV, Relapse | NS(-) 38181 | TB/HIV: NS(-) 7565 |

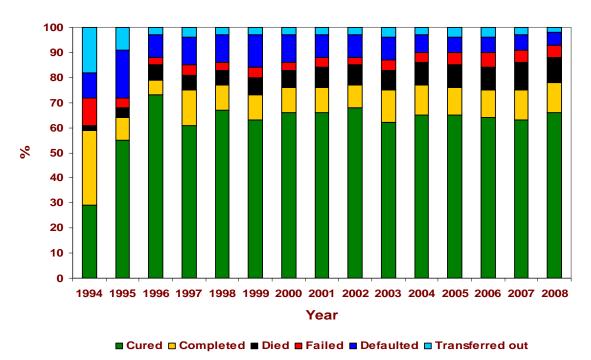
Case notification rate by type of TB patients (1994 -2009)



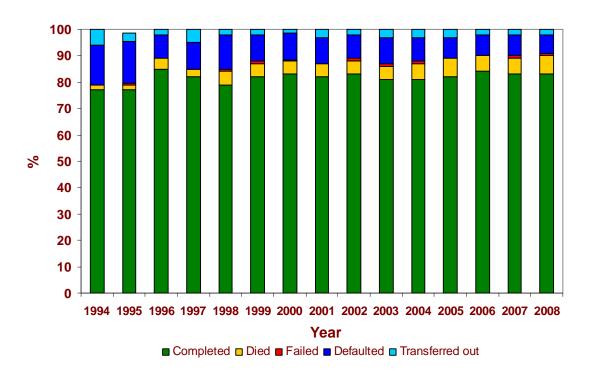
Treatment outcomes of new smear positive TB pateints (1994 to 2008 cohorts)



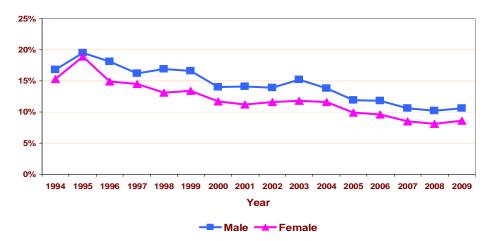
Treatment outcomes of relapse cases (1994 to 2008 cohorts)



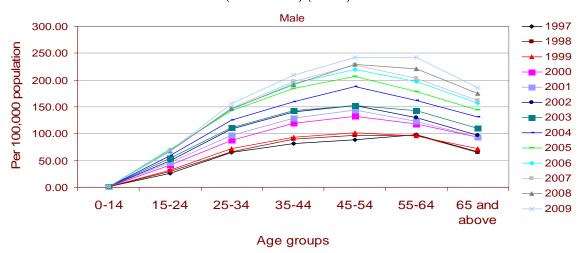
Treatment outcomes of new smear negative TB patients (1994-2008 cohorts)



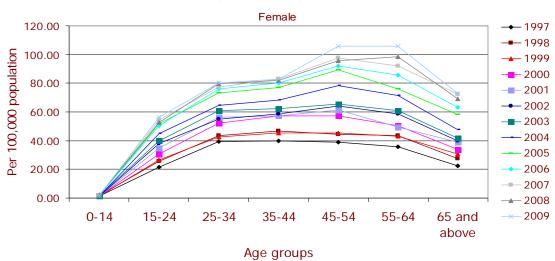
Proportion of Relapses among New Smear (+) cases + Relapse cases (1994-2009)



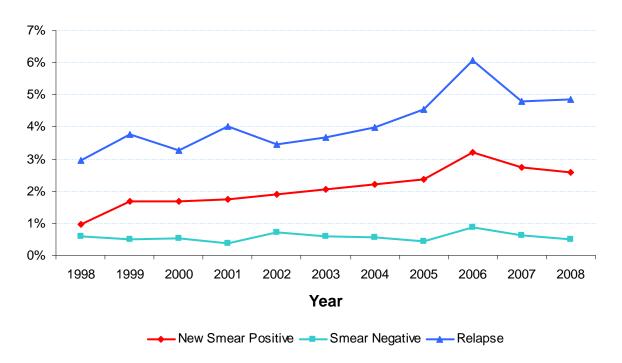
Age specific notification rate of new smear positive TB patients (1997-2009) (Union)



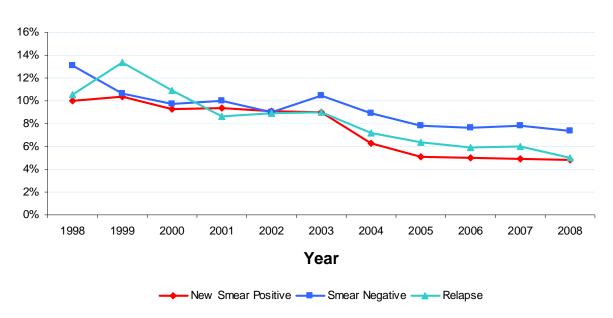
Age specefic notification rate of new smear positive TB patients (1997-2009) (Union)



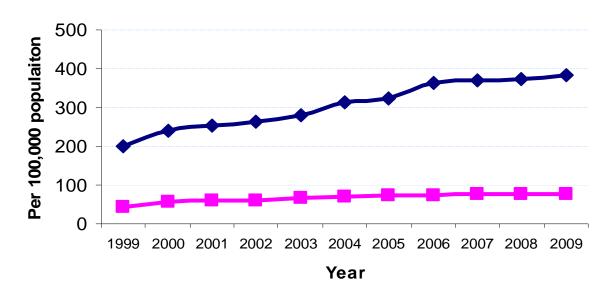
Failure Rate of New Smear Positive, Smear Negative and Relapse cases in Myanmar (1998-2008)



Defaulting of New Smear Positive, Smear Negative and Relapse cases in Myanmar (1998-2008)

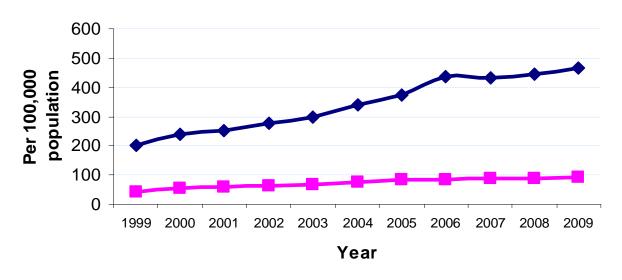


NTP:TB suspect' examination rate & S (+) notification rate



TB suspect's examination rate ——Smear positive notification rate

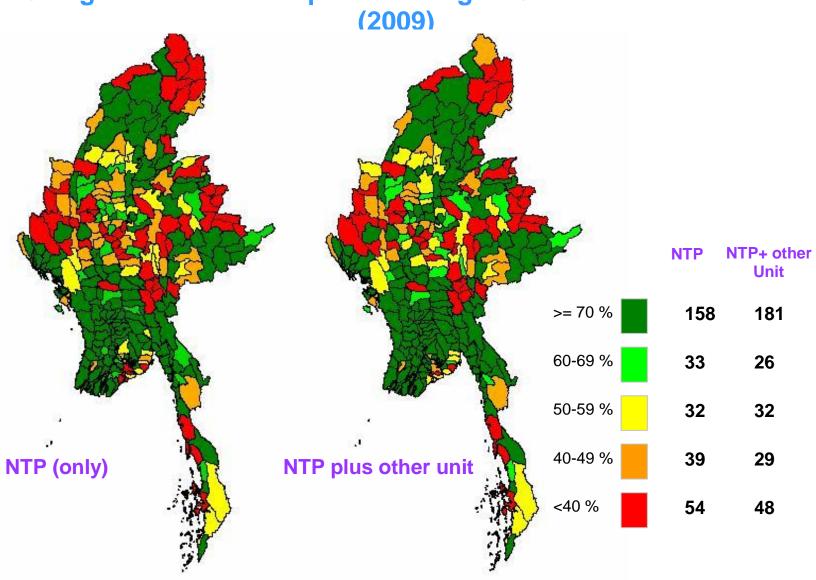
NTP + Other Unit: TB suspect' examination rate & S (+) notification rate



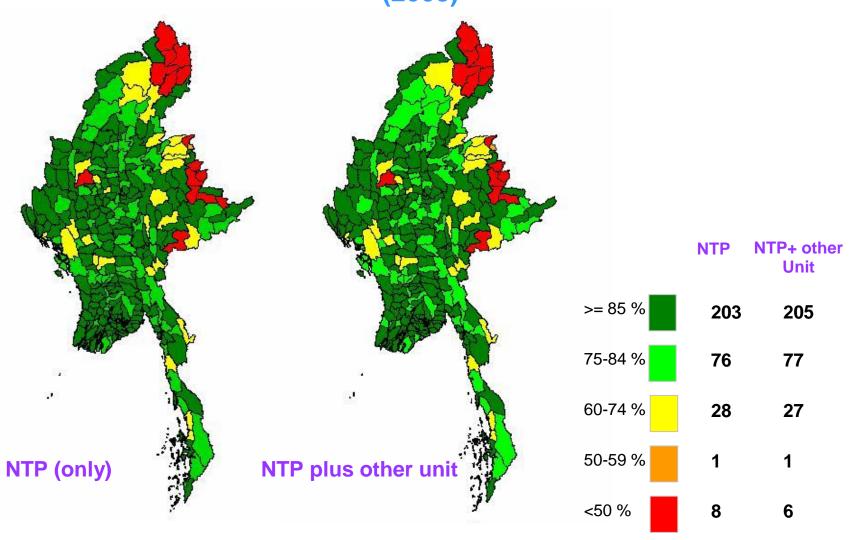
TB suspect's examination rate ——Smear positive notification rate

Annex-35

Categories of Townships according to Case Detection Rate

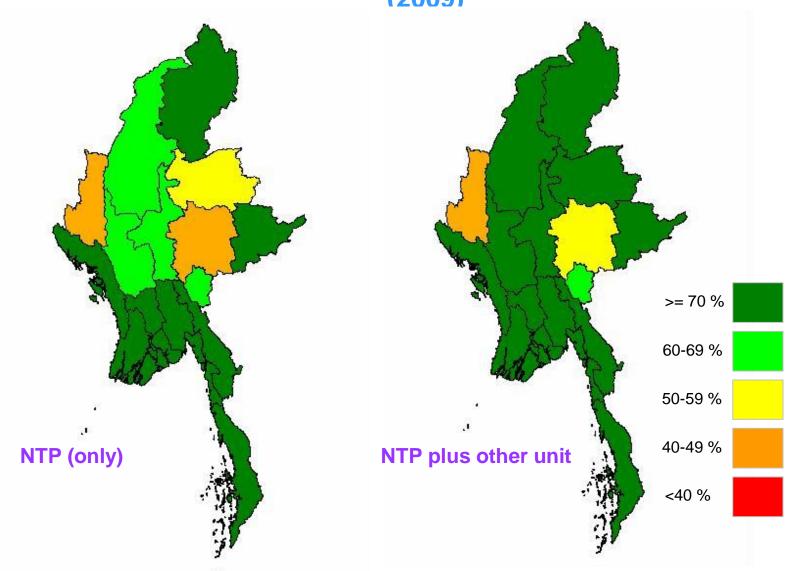


Categories of Townships according to Treatment Success Rate (2008)



Annex-37

Categories of State and Division according to Case Detection Rate (2009)



Annex- 38

Achievement of NTP according to the indicators and targets set in five years strategic plan (2006-2010)

| No | Indicator | Base | line | Target | | Achie | evement | |
|-----|--|-------|------|------------------|--------|--------|---------|--------|
| | | Value | Year | | Year 1 | Year 2 | Year 2 | Year 4 |
| | | | | | (2006) | (2007) | (2008) | (2009) |
| 1. | % of DOTS Covered Population | 95 % | 2005 | 95 % | 95 % | 95% | 95% | 95% |
| 2. | Case Detection Rate | 83 % | 2004 | At least 70 % | 86% | 89% | 90% | 95% |
| 3. | Treatment Success Rate | 82 % | 2004 | At least 85 % | 85 % | 85% | 85% | 85% |
| 4. | Proportion of sputum smear positive cases out of all pulmonary TB cases | 52 % | 2003 | 52% | 52% | 54% | 52% | 48% |
| 5. | No. of new smear positive cases detected under DOTS | 31405 | 2004 | 66,405 | 40,241 | 42,588 | 41, 248 | 41,389 |
| 6. | No. of additional microscopy centers established | 0 | 2004 | 30 | 30 | 0 | 0 | 13 |
| 7. | No. of microscopy centers under Q/C | 194 | 2003 | 260 | 268 | 290 | 405 | 370 |
| 8. | No. of deaths (all forms of TB) per 100,000 population | 27 | 2005 | 26 | 17 | 13 | 12.3 | 13 |
| 9. | No. of health facilities where both TB and HIV services are available | 7 | 2005 | 17 | 7 | 11 | 11 | 11 |
| 10. | No. of partners (NGOs, CBOS, public, private and others participating in a national stop TB partnership) | 15 | 2005 | 20 | 15 | 15 | 15 | 15 |
| 11. | No. of MDR-TB patients enrolled on treatment | 0 | 2005 | 0 | 0 | 0 | 0 | 64 |

Indicators of Partners for National TB Programme

Objective 1. Pursing higjh quality DOTS expansion and enhancement

| | Objective 1.Pursing higjh quality DOTS expansion and enhancement | ing higjh q | uality Do | OTS exp | ansion | and enh | ancem | ent | | | | Annex-39 | |
|--------|--|-------------|-----------|---------|--------|---------|----------|-------|------|-----------|-------|----------|----------|
| N O | Indicators | | | | | | | 2009 | | | | | |
| | | *d±N | PSI | MMA | Union | Pact | ^ | AHRN | MRCS | MSF-Switz | MOI | JICA | Malteser |
| | 1% of DOTS covered population | 50907881 | | | | | | | | | | | |
| (7 | 2 Case Detection Rate (CDR) | %36 | | | | | | | | | | | |
| (1) | 3 No. of new smear positive TB patients detected | 41389 | 5292 | 560 | | | | 63 | | 267 | 334 | | 413 |
| 4 | 4 No. of new TB patients (all forms) registered for treatment | 134023 | 15438 | 1658 | | | | 152 | | 547 | 1,430 | | 1,681 |
| נא | 5 Proportion of sputum smear positive cases out of all pulmonary TB cases | 48% | %09 | 40% | | | | 20% | | %19 | 23% | | |
| 9 | 6 Ratio of male to female among new sputum positive TB cases detected | 1.96:1 | 1.93:1 | 1.84:1 | | | | 4.4:1 | | 1.8:1 | 1.6:1 | | |
| | 7 Cure Rate (CR) | %82 | 73% | %82 | | | | 21% | | %99 | %68 | | %08 |
| Ψ | 8 Treatment Success Rate (TSR) | %58 | 84% | 87% | | | | 35% | | 78% | %26 | | %98 |
| 3, | 9 No. of deaths (all forms of TB) | 7298 | 411 | 74 | | | | 13 | | 64 | 23 | | 46 |
| 10 | 10 No. of microscopy centers using for diagnosis of TB | 415 | 136 | 13 | | | | 2 | | 2 | 7 | | 2 |
| 11 | 11 No. of microscopy centers under External Quality Assessment (EQA) system | 970 | 136 | 13 | | | | | | 0 | 7 | | _ |
| 12 | 12 No. of treatment units reporting no stock out of first line anti TB drugs | 325 | 623 | | | | | | | 2 | 0 | | |
| 13 | 13 No. of township/dinic supervised | 308 | 145 | 13/98 | | | | 2 | | 2 | 7 | | |
| 14 | 14 No. of patients receiving incentives/patient support | 14216 | 1294 | 4325 | | | | 265 | | | 7367 | | 965 |

* Numbers are national figures including parters' contributions.

Objective 2. Addressing TB/HIV, MDR-TB and other challanges

| o N | . Indicators | | | | | | | 2009 | | | | | |
|--------|--|-------|------|-----|-------|------|----|------|------|-----------|-----|------|----------|
| | | NTP * | PSI | MMA | Union | Pact | ۸M | AHRN | MRCS | MSF-Switz | MOI | JICA | Malteser |
| 15 | 15 No. of TB patients tested for HIV | | | | | | | | | | | | |
| | | 9194 | 1516 | | 2610 | | 33 | 92 | | 599 | 170 | | |
| 16 | 16 No. of health facilities implementing TB/HIV activities | | | | | | | | | | | | |
| | | 652 | 623 | | 7 | | | 7 | | 2 | 7 | | |
| 17 | 17 No. of laboratory confirmed MDR-TB patients | | | | | | | | | | | | |
| | enrolled on treatment | 64 | | | | | | | | 0 | | | |
| 15 | 18 No. of TB/HIV, MDR-TB management units | | | | | | | | | | | | |
| | implementing infection control measures | 30 | | | ဇ | | | | | | | | |
| 16 | 19 No. of new smear positive TB patients registered in | | | | | | | | | | | | |
| | targeted border townships | 749 | | | | | | | | | | | 260 |

* Numbers are national figures including parters' contributions.

Objective 3. Contributing to health system strengthening

| NTP * PSI MMA Union Pact WV AHRN MRCS MSF-Switz IOM _ | | | | | 2009 | | | | | |
|---|--|-----|-------|------|---|------|------|-----------|-----|------|----------|
| 3186 814 | NTP * PSI | MMA | Union | Pact | W | AHRN | MRCS | MSF-Switz | IOM | JICA | Malteser |
| 3186 814 | 20 No. of Basic Health Staff (BHS) trained on selected | | | | | | | | | | |
| 814 | modules of management of TB for health facility staff | | | | | | | | | | |
| | | | | | | 68 | | | | | |

* Numbers are national figures including parters' contributions.

Objective 4. Engaging all care providers

| Ž | ol oli oli oli oli oli oli oli oli oli o | | | | | | | 2009 | | | | | |
|-----------|--|-------|-----------|------|-------|------|----|------|------|-----------|-----|------|----------|
| _ | | * ATN | PSI | AMM | Union | Pact | ۸M | AHRN | MRCS | MSF-Switz | IOM | JICA | Malteser |
| `` | 21 No. of GPs trained under PPM-DOTS | 1318 | 682 | 929 | | | | | | | | 09 | |
| <u>``</u> | 22 No. of GPs implementing PPM-DOTS | 1293 | 623 | 610 | | | | | | | | 09 | |
| <u> </u> | 23 No. of townships implementing PPM-DOTS | 190 | 145 | 41 | | | | | | | 9 | 4 | |
| 7 | 24 No. of TB patients (all types) registered for treatment in PPM-DOTS (Scheme III) | 17239 | 15438 | 1801 | | | | | | | 0 | | |
| 7 | 25 No. of microscopy centers using for diagnosis of TB (PPM-DOTS) | 415 | 136 | 49 | | | | | | | 13 | | |
| | -public laboratory | | 101 35 | 41 | | | | | | | 9 | 28 | |
| <u> </u> | 26 No. of microscopy centers under External Quality Assessment (EQA) system (PPM-DOTS) | 370 | 136 | 49 | | | | | | | 13 | | |
| | -public laboratory | | 101 | 41 | | | | | | | 9 | | |
| | -private laboratory | | 35 | 8 | | | | | | | 7 | | |

* Numbers are national figures including parters' contributions.

Objective 5. Empowering patients and communities

| Z | No. Indicators | | | | | | 2009 | | | | | |
|---|---|-------|-----|-----|------------|-----|------|------|----------------------------|-----|------|----------|
| | | NTP * | ISd | MMA | Union Pact | ۸M | AHRN | MRCS | WV AHRN MRCS MSF-Switz IOM | MOI | JICA | Malteser |
| | 27 No. of community members or volunteers trained for | | | | | | | | | | | |
| | TB control | 1839 | 829 | | 433 | 314 | | 338 | | 9/ | | |
| | 28 No. of villages where advocacy, communication and | | | | | | | | | | | |
| | social mobilization (ACSM) activities for TB are | | | | | | | | | | | |
| | undertaken | 1671 | 8/9 | | 430 | 206 | | 281 | | 9/ | | |
| J | - | | | | | | | | | | | |

* Numbers are national figures including parters' contributions.

Objective 6. Enabling and promoting research

| Š | Indicators | | | | | | | 2009 | | | | | |
|---|---|---------|-----|-----|-------|------|----|------|------|-------------------------------|-----|------|----------|
| | | * ATN | PSI | MMA | Union | Pact | ۸۸ | AHRN | MRCS | AHRN MRCS MSF-Switz IOM | MOI | JICA | Malteser |
| Š | 29 No. of Operational Research projects completed | | | | | | | | | | | | |
| | | 2 | | 1 | | | | | | | | | |
| Ř | 30 No. of Survey | 2 | | | | | | | | | | | |
| | | - 17 11 | | | | | | | | | | | |

* Numbers are national figures including parters' contributions.