

NEW DELHI TUBERCULOSIS CENTRE

ANNUAL REPORT
2021 - 2022

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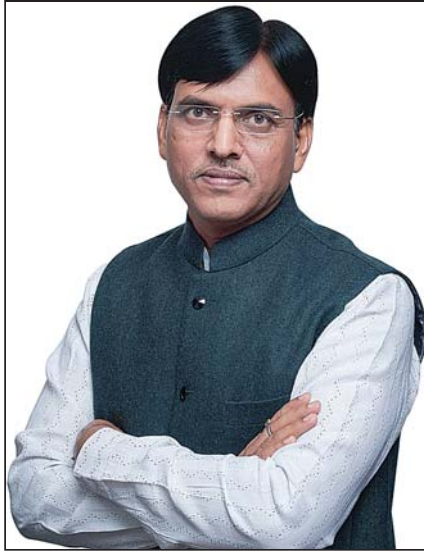
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डॉ० मनसुख मंडाविया
DR. MANSUKH MANDAVIYA
माननीय केंद्रीय मंत्री
Hon'ble Union Minister
स्वास्थ्य और परिवार कल्याण मंत्रालय
Ministry of Health & Family Welfare



डॉ. भारती प्रविण पवार
DR. BHARATI PRAVIN PAWAR
माननीय राज्य मंत्री
HON'BLE MINISTER OF STATE
स्वास्थ्य और परिवार कल्याण मंत्रालय
Ministry of Health & Family Welfare

Message from Chairman

It gives me immense pride and pleasure that today NDTB Centre holds a place of pride among the National TB Institute under NTEP.

The Institute has excelled in the field of TB, Respiratory diseases, Research and Training since its establishment in year 1940.

It is the first STDC to start performing base line DST of all DR cases.

Furthermore the institute also has facilities for CBNAAT/ LPA First Line, Second Line / MGIT / Gene Sequencer.

The institute also played an extremely important role in the diagnosis of Covid19 patients during Covid19 pandemic.

Centre works in close liaison with State TB Cell in monitoring and evaluation of the NTEP programme.

Members of institute have a significant role in strengthening TB control.

I express my heartfelt gratitude and appreciation to the trained faculty and extraordinarily supportive staff for their consistent co-operation towards achieving the goals of the Centre.

I express my full co-operation and support for the achievement of greater heights in making India "TB Free"

I wish the Centre the very best and success in their endeavor of TB control in India.



Dr. Ashwani Khanna

Dr. Ashwani Khanna
Chairman

From Director's Desk



The New Delhi TB Centre has completed 82 years of its glorious journey in the field of TB control activities. The Centre is not only providing patient care for TB and respiratory diseases cases, but also contributing in TB elimination activities in form of laboratory support of rapid diagnostics, research; both basic and operational in TB control activities and providing monitoring and supervising support in implementing NTEP services in Delhi State.

During the year, our Centre, working as State TB Training and Demonstration Centre for Delhi State was evaluated by a team of Central TB Division, The Union and a third party evaluation team. The process involved base line assessment of facilities and main functions of STDC. Throughout India, 17 STDCs were evaluated. In the National level consultative meeting for up gradation of STDCs, the findings were presented. It was heartening to note that Delhi State STDC was the only one to accomplish all the six functions assessed and had all infrastructure facilities required for a well functioning STDC.

Active case finding has been a major operational research activity of our Centre. In addition to ACF in already identified vulnerable population, this year, we started ACF in homeless pavement dwellers along Yamuna pushta with the help of mobile X-ray van supported by Medanta Medicity, Gurugram.

The Laboratory of the Centre is equipped with all diagnostic facilities starting from microscopy to whole genome sequencing. This year more than 33000 tests were done in the laboratory. In addition, the laboratory facility is being used for teaching and training of medical and paramedical staff. A number of research projects are being conducted. This year the laboratory also added the testing for Covid-19. The laboratory not only provided diagnostic facility for Covid-19 cases, but also trained microbiologists and laboratory technician of both public and private sector laboratories to set up Covid-19 diagnostic facility. Faculty of our laboratory also supervised their functioning. Efforts are in to renovate the laboratory so as to cope up with the increasing workload.

The Training section of the Centre trained 4522 personnel during the year. ECHO platform is also being used for training and programme review purposes. Efforts are on to make use of e-module and frequent use of ECHO platform so as to reduce the time and POL expenses for personally attending the training and review sessions. Due to Covid-19 pandemic, most of training sessions were held on virtual mode.

The faculty of the Centre is actively involved in conducting research activities in clinical, bacteriological and programme related aspects. During the year, 12 papers were published in journals and 4 were communicated for the publication.

I am grateful to the Ministry of Health & Family Welfare and Central TB Division for the financial support. I am grateful to all the members of the Managing Committee and State TB Control Officer Delhi State for their valuable help and cooperation for strengthening the infrastructure at New Delhi Tuberculosis Centre. I am also grateful to the TB Association of India since its inception for helping and guiding in improving activities of the Centre.

Dr. K. K. Chopra
Director

Important Landmarks in History of NDTB Centre

- Established in 1940 as a model clinic by an agreement between TB Association of India and Government of India. Since its inception, the Government of India is providing grant in aid to the Centre for smooth functioning.
- In 1951, it was upgraded as the first TB Demonstration cum Training Centre of the country.
- In 1966, the Centre became a referral institute for tuberculosis patients.
- The Centre was part of 1955-58 ICMR project to estimate the prevalence of TB in the community.
- The Centre was responsible for pioneering the concept of Organized Home Treatment (OHT) which was later on incorporated in National TB Programme (NTP) as domiciliary treatment for TB.
- Eight longitudinal disease prevalence surveys in domiciliary area of the Centre conducted over a period of 30 years during 1962-92 which gave deep insights into natural history of TB in the community and its trends, providing vital information for TB control Programme planning at the national level.
- In 1966, NDTBC became a referral centre for TB patients from five northern states in the country.
- Part of multi-centric Short Course Chemotherapy (SCC) trials during 80's leading up to the formal adoption of SCC under the national programme.
- Prevalence of initial and acquired drug resistance in Delhi and north India during 1992 feeding into strategies for treatment of Drug Resistant TB (DR-TB).
- 1998, NDTBC started implementation of DOTS strategy of RNTCP in 4 lakh population with establishment of four DOTS cum Microscopic Centers under its ambit.

- In 2005, it was upgraded to State TB Training and Demonstration Centre with added responsibilities besides continuing to function as a referral clinic for TB and Respiratory Diseases, of training the entire staff in Delhi and to provide diagnostic services as mandated for an Intermediate Reference Laboratory, which became a Biosafety level-3 facility in 2008 when MGIT was added for early diagnosis of MDR cases. This IRL was certified by Central TB Division for First line Line Probe Assay (LPA) in 2013 and for second line LPA in 2014. Further, Gene sequencer has been added in 2018. The laboratory got NABL accreditation in 2018.
- The laboratory of NDTBC has recently been equipped with Illumine MiSeq bench top sequencer system and is being developed as one of the five Whole Genome Sequencing facilities under NTEP.
- COVID 19 testing and training of microbiologists and technicians of government and private laboratories was started in 2020.
- The Centre has been actively involved in monitoring of NTEP activities.
- It has produced landmark research publications impacting TB control policies at the national level.
- During 2021, baseline assessment of STDC Delhi was conducted by Central TB Division, The Union and third party agency, Out of 17 STDCs evaluated, throughout the India, Delhi STDC was the only one accomplishing all the six major activities and having all infrastructure facilities.
- Active case finding has been a major operational research activity of our Centre. In addition to ACF in already identified vulnerable population, this year, we started ACF in homeless pavement dwellers along Yamuna pushta with the help of mobile X-ray van supported by Medanta Medicity, Gurugram.

MANAGING COMMITTEE

Vice- Chairman Tuberculosis Association of India	Chairman
Vice Chairman (Research and Publication) Tuberculosis Association of India,	Financial Adviser
The Additional Secretary & FA Ministry of Health & Family welfare, Govt. of India	Member
The Joint Secretary (Health) Ministry of Health & Family Welfare, Govt. of India	Member
The Deputy Director General (TB) Ministry of Health & Family Welfare, Govt. of India	Member
The Director National Institute of TB & Respiratory Diseases, New Delhi	Member
The Director VP Chest Institute, New Delhi	Member
The Director of Health Services Delhi Administration	Member
The Director Medical Services New Delhi Municipal Committee	Member
The Honorary General Secretary Delhi Tuberculosis Association	Member
The Secretary General Tuberculosis Association of India	Member
The Director H&F Welfare Directorate of Health Ministry of Railway	Member
The Director New Delhi TB Centre	Member Secretary

SCIENTIFIC ADVISORY COMMITTEE

Dr. Ashwani Khanna Chairman New Delhi Tuberculosis Centre	Chairman
Dr. B.K.Vashisht State TB Officer Delhi State	Member
Dr. Raj Kumar Director V P Chest Institute	Member
Dr. Varinder Singh Professor – Pediatric, Kalawati Hospital Lady Harding Medical College	Member
Dr. M. Hanif K.M. Bacteriologist New Delhi Tuberculosis Centre	Member
Dr. Nishi Aggarwal Statistician New Delhi Tuberculosis Centre	Member
Dr. K.K. Chopra Director New Delhi Tuberculosis Centre	Member Secretary

ETHICAL COMMITTEE

Prof. Nandini Sharma Director Prof. and Head Community Medicine Department Maulana Azad Medical College	Chairman
Dr. Vishal Khanna Chest Physician and District TB Officer Lok Nayak Hospital	Member
Dr. C.P. Baveja Professor Maulana Azad Medical College	Member
Dr. M. Hanif, K.M Bacteriologist New Delhi Tuberculosis Centre	Member
Dr. Rajesh Kumar Prof. Community Medicine Department Maulana Azad Medical College	Member
Shri Tajinder Ahluwalia Ex-Secretary General Tuberculosis Association of India	Member
Mr. Santosh Srivastava Advocate	Member
Dr. Nishi Aggarwal Statistician New Delhi Tuberculosis Centre	Member
Sh. Sree Kumar Pillai Delhi TB Association	Member
Sh. Ved Prakash Community Person	Member
Dr. Shanker Matta Epidemiologist New Delhi Tuberculosis Centre	Member Secretary

SENIOR STAFF MEMBERS

Dr. K.K. Chopra M.B.B.S., M.D., D.T.C.E	Director
Dr. Sanjay Rajpal M.B.B.S., D.T.C.D., F.N.C.C.P.	Chest Physician
Dr. Mahmud Hanif Ph.D	Bacteriologist
Dr. Nishi Aggarwal Ph.D	Statistician
Dr. Shanker Matta M.B.B.S., M.D	Epidemiologist
Dr. Shivani Pawar M.B.B.S., D.T.C.D.	Medical Officer
Mr. S.K. Saini B.Com, AICWA	Administrative Officer

ABBREVIATIONS

ACF	Active Case Finding
ATT	Anti-tubercular Treatment
CB-NAAT	Cartridge-based Nucleic Acid Amplification Test
CDST	Culture and Drug Sensitivity Testing
CME	Continuing Medical Education
CTD	Central Tuberculosis Division
DBT	Direct Benefit Transfer
DMC	Designated Microscopy Center
DOT	Directly Observed Therapy
DOTS	Directly Observed Therapy Short-course
DR-TB	Drug Resistant Tuberculosis
DST	Drug Susceptibility Testing
DS-TB	Drug-Sensitive Tuberculosis
DTC	District Tuberculosis Center
DTO	District Tuberculosis Officer
ECHO	Extension for Community Health Outcomes
EPTB	Extra-pulmonary Tuberculosis
EQA	External Quality Assurance
ICF	Intensified Case Finding
ICMR	Indian Council of Medical Research
ICT	Information and Communication Technologies
ICTC	Integrated Counseling and Testing Center
IEC	Information, Education, and Communication
IRL	Intermediate Reference Laboratory
LIMS	Laboratory Information Management System
LPA	Line-probe Assay for detection of drug resistance
LTBI	Latent Tuberculosis Infection
MDR	Multidrug Resistance

MDR-TB	Multidrug Resistant Tuberculosis
MoHFW	Ministry of Health and Family Welfare
MOTC	Medical Officer Tuberculosis Centre
NGO	Non-governmental Organization
NGS	Next-Generation Sequencing
NIKSHAY	Web-enabled electronic TB case notification/monitoring system
NPY	NIKSHAY PoshanYojana (nutritional support to TB patients)
NRL	National Reference Laboratory
NSP	National Strategic Plan
NTEP	National Tuberculosis Elimination Program
OR	Operational Research
OSE	On-Site Evaluation
PLHIV	People Living with HIV/AIDS
PMDT	Programmatic Management of Drug Resistant Tuberculosis
PPM	Public-Private Mix
RBRC	Random Blinded Re-checking
SL-DST	Second-line Drug Susceptibility Testing
STC	State Tuberculosis Cell
STCI	Standards for Tuberculosis Care in India
STDC	State Tuberculosis Training and Demonstration Centre
STLS	State Tuberculosis Laboratory Supervisor
STO	State Tuberculosis Officer
STS	Senior Treatment Supervisor
TBHV	Tuberculosis Health Visitor
TOG	Technical and Operational Guidelines
TrueNat MTB	Chip-based nucleic acid amplification test to detect <i>M. tuberculosis</i>
TrueNat	Chip based nucleic acid amplification test to detect Rifampicin-resistant <i>M.</i>
MTB-RIF Dx	<i>tuberculosis</i>
UDST	Universal Drug Susceptibility Tests
XDR-TB	Extensively Drug Resistant Tuberculosis

ACHIEVEMENTS OF NDTB CENTRE IN RECENT YEARS

1. **NABL accreditation of NDTB Centre Laboratory**

Microbiology laboratory of the Centre is functioning as Intermediate Reference Laboratory for Delhi State providing diagnostic services with all available rapid diagnostics to patients referred from NTEP as well as from private sector. To ensure quality services, the laboratory has been accredited with NABL.

2. **Gene Sequencing facility in Laboratory**

Our laboratory is one of the five sites where whole Gene Sequencing facility is available under NTEP. This will be used for diagnosis as well as drug resistance surveillance purpose as per TB programme guidelines

3. **Installation of Digital X-ray Machine in Clinical Section**

A digital X-ray machine has been installed in Clinical Section in addition to already existing conventional X-ray machine. The machine has been provided from Delhi State NTEP funding and is being used for patients in Clinical Section as well as Active Case Finding cases and surveillance purposes.

4. **COVID 19 Laboratory**

During Covid-19 Pandemic, our laboratory was one of the ICMR approved sites for diagnosis of Covid-19 on CBNAAT and TrueNat machines. Suspects from Delhi Government designated sites are referred to our laboratory for testing.

5. **Training of Microbiologists and Laboratory Technicians in Covid-19 diagnosis.**

Delhi Government designated our laboratory as training Centre for microbiologists and laboratory technicians both from public and private sector proposed to be Covid-19 laboratories. Microbiologists of our laboratory are part of the Delhi State CBNAAT and TrueNat Core Committee involved in supervising and monitoring the activities of Covid-19 testing laboratories in public and private sector.

6. **Active TB Case finding among vulnerable groups**

In recent years, a number of operational researches have been conducted in vulnerable population like jail inmates, female sex workers, intervenenous drug users, slum dwellers and night shelters.

These operational studies have been approved and financed by Delhi State NTEP. Active TB case finding have been conducted as per national guidelines.

7. **ECHO clinics for paramedical staff**

NDTB Centre is STDC- Delhi State hub for ECHO platform with all chest clinics as spokes. On every first Wednesday of the month, a session is conducted for paramedical staff of NTEP

Delhi state, in which one didactic by an expert is given and one case is discussed which is presented by paramedical staff.

8. D3T Clinic

As recommended in PMDT 2021 guidelines, we are conducting Difficult to treat TB cases clinic once every month. One of the DTO / MO presents an interesting case, which is discussed in the presence of state level experts and recommendations are given for managing the care.

9. Review of NTEP activities on ECHO platform

Due to Covid19 pandemic during last year and also this year, physical monitoring visits and review meetings were not possible, so all review meetings and check list based supervising activities were conducted on ECHO platform. During the year, performance of all the 25 Chest Clinics was reviewed via ECHO hub including monitoring of laboratory performance of Designated Microscopy Centers.

10. Supporting in publication of Indian Journal of Tuberculosis

TB Association of India is publishing a quarterly journal which includes articles on Tuberculosis and Respiratory Diseases. Faculty of NDTB Centre is supporting the publication of IJT as associate executive editor, assistant editor and members of editorial board.

11. Active participation in NATCON.

National Conference on TB and Respiratory Diseases is conducted by TB Association of India annually in various parts of country in rotation. Faculty of NDTB Centre is actively participating in the conference every year in organizing the conference, finalizing scientific programmed and participating in different scientific sessions as chair persons, moderators and speakers.

12. Laboratory Information Management System (LIMS)

Our Laboratory is now equipped with LIMS, the data and reporting from laboratory is done online. All the steps of testing are entered online and final report is generated and sent to field and NIKSHAY portal directly.

13. Infrastructure Development

During last few years, renovation work of building and addition of new furniture has been done in all sections of the Centre including beautification of executors.

14. Training and Dissertation of students

The faculty of NDTB Centre is supporting various institutions and universities in conducting training and dissertation work of their students in TB field by guiding them and providing facilities to conduct the study.

RESEARCH AND PUBLICATIONS

(A) Research papers published

During the year 2021-22, the following research papers have been published or submitted for publication by faculty of the Centre in national and international journals.

1. **Genital footprints of extra genital tuberculosis in infertile women: Comparison of various diagnostic modalities.** Published in Indian Journal of Tuberculosis 2022, 69(2): 250-252
2. **Covid-19 vaccine and new mutant strains impacting the pandemic.** Editorial published in Indian Journal of Tuberculosis 2021, 68(2): 171-173
3. **Second wave of Covid 19 and its impact on TB control.** Editorial published in Indian Journal of Tuberculosis 2021 68 (3): 311:312
4. **From Stress to stigma – Mental health consideration of Health care workers involved in Covid-19 management.** Article submitted to Indian Journal of tuberculosis
5. **Effectiveness of X-pert MTB/RIF for diagnosis of extra pulmonary tuberculosis at various stand alone laboratories in Delhi.** Published online in Indian Journal of tuberculosis, 14 August, 2021.
6. **Clinical presentation and mortality risk factors for Covid-19 among diabetic patients in a tertiary care centre in South India.** <https://doi.org/10.1016/J.ijtb.2021.08.15>
7. **Impact of Covid-19 and Tobacco on TB control.** Editorial published in Indian Journal of Tuberculosis 2021, 68(5), 51-53
8. **Social determinants of TB:** Article published in Tuberculosis Association of India e-Souvenir released on 2nd October, 2021.
9. **Utility of stool examination in diagnosis of pediatric tuberculosis in India.** Published online in Indian Journal of tuberculosis 12th July, 2021.
10. **Adherence to Isoniazid Preventive Therapy among children living with tuberculosis patients in Delhi, India: An exploratory prospective study.** Published in Indian Journal of Tuberculosis 2022, 69; 100-103.
11. **‘Beware of spurious Tracheo-bronchial Stents’** Article published in Indian Journal of Tuberculosis 2022, 69 (2), 253-255.

12. **Thoracoscopic Practices in India – A survey by Indian Chest Society.** Article published in Indian Journal of tuberculosis, 68 (4), 485-490.
13. **Correlating Clinical Breakpoint Concentration of Moxifloxacin with Igr A mutation using the Geno Type MTB DR sl Assay.** Paper submitted to Indian Journal of tuberculosis.
14. **Utility of Fractional Exhaled Nitric Oxide (Fe NO) in spirometry proved cases of Bronchial Asthma.** Paper submitted to Indian Journal of Tuberculosis.
15. **Port Site Tuberculosis after laparoscopic cholecystectomy.** Paper submitted to Indian Journal of Tuberculosis.
16. **Mybacterium tuberculosis : Next Generation Whole Genome Sequencing.** Editorial published in Indian Journal of Tuberculosis 2022, 69 (2), 123-124.

(B) Research Projects

1. **Mapping of Anti-Myco bacterial Drug Resistant Hotspots under National Tuberculosis Elimination Programme (NTEP) in Delhi State.**

The study is being conducted by NDTB Centre and TB Association of India, funded by Delhi State OR Committee. Study is to map out hotspots of Drug Resistant TB cases in Delhi State so as to provide adequate diagnostic and the rapeutic services in the selected areas. A trial run was done with help of GIS Agency among 20 MDR cases detected in Central Delhi area. Based on the results, the study has been expanded to entire Delhi. The study analysis has been completed and report writing is under process.

2. **BEAT (Building Evidence for Advance Treatment Against Tuberculosis)study:**

Objectives of this trial are:

- a. To evaluate the safety and tolerability of a treatment regimen of 24 – 36 weeks (6-9 months) duration consisting of BDQ, DLM, LZD and CFZ in patients with pre-XDR or XDR-TB.
- b. To determine the time to sputum culture conversion with this combination treatment regimen
- c. To determine the steady state Cm in levels of DLM, BDQ and their metabolites at weeks 2, 8 and 16
- d. To explore the steady state pharmacokinetics (PK) of BDQ and DLM in a subgroup of pre-XDR and XDR-TB patients on the combination treatment regimen (intense PK)

Laboratory is a part of ongoing BEAT research project entitled “Evaluation of the Efficacy and Safety of a Combination regimen of Bed aquiline, Delamanid, Linezolid and Clofazimine in Adults with Pre-extensive (Pre-XDR) and Extensively Drug-resistant Pulmonary Tuberculosis (XDR-TB). This study is being conducted in collaboration with RBIPMT, Delhi and NIRT, Chennai.

- e. Laboratory work of doing follow-up investigation has been completed.

Study is in progress and is expected to be completed on time.

3. Standard Treatment Regimen of Anti-tuberculosis drugs for patients with MDR- TB (STREAM) study:

Objective of this study is to assess the proportion of participants with a favorable efficacy outcome at week 76 on regimen consisting of Bedaquiline, clofazimine, Ethambutol, Levofloxacin and Pyrazinamide given for 40 weeks supplemented by isoniazid and prothionamide for the first 16 weeks (intensive phase).

Laboratory of this centre is a part of a clinical trial entitled **STREAM** and this trial is being conducted at RBIPMT. Patient enrolment is completed and treatment follow-up is being done. Laboratory work of doing follow-up investigation has been completed.

4. TB prevalence and interventions for reducing TB and LTBI in high risk key population of rickshaw drivers and construction workers.

The study will generate evidence to positively influence the national policy for providing TB preventive therapy to rickshaw drivers & construction workers in addition to PLHIV and children. Detecting and treating LTBI among rickshaw drivers & construction workers will have a long term gain in bringing down the annual notification of incident TB by preventing development of new LTBI infections, reduced annual risk for TB infection (ARTI) and curtailing TB transmission. This is an ICMR funded project. Field work of the study is going on.

5. Improving TB diagnosis at Designated Microscopic Centers by introduction of Quality Management System (QMS) and optimum utilization of rapid molecular diagnostics and its cost implications.

Introduction of QMS at DMCs leads to improvement in the quality of TB testing by rapid molecular diagnostics. QMS provides an effective mechanism for health system improvement yielding long-term benefits in the quality, cost-effectiveness, and sustainability of public health programs. We establish models of laboratory-driven quality systems at DMCs that lead to overall improvements in TB diagnosis by rapid molecular diagnostics as it focuses attention

on areas of greatest need and accelerating improvement in areas such as staff competency, supply chain, instrument maintenance etc. This is an ICMR funded project. The project is over. The report has been finalized. Both the chest clinic studies have got five star ranking.

6. Prevalence, risk factors and laboratory diagnosis of non- tuberculous mycobacterial (NTM) disease:

Objectives of this study are:

1. To determine the prevalence of NTM disease among TB suspects in Delhi, Chandigarh, Wardha and Tirupati regions
2. To study various risk factors of NTM disease
3. To characterize species and sub species of confirmed NTM isolates
4. To perform drug susceptibility testing (DST) of speculated NTM isolates
5. Clinical, microbiological and radiological follow-up of the confirmed NTM Disease patients
6. To do cost-effective analysis of various lab techniques used for the diagnosis of NTM disease

Laboratory of this centre is involved in this multicentric project entitled “Prevalence, risk factors and laboratory diagnosis of non- tuberculous mycobacterial (NTM) disease: a multicentre study”. This study is in progress.

7. Sure trail project

It's a randomised trial of 6 months intensified anti-tuberculosis and 2 months anti-inflammatory treatment for HIV-infected and HIV-uninfected children with tuberculous meningitis (TBM). This trial is a multi-centre, international, partially-blinded factorial randomised controlled trial of TBM treatment in children.

Trial is being conducted at Kalawati Saran Children's Hospital (Lady Harding Hospital, Delhi) and this laboratory is providing support for laboratory investigations.

Trial is in progress.

MD/MS/DNB Thesis in collaboration with Medical Colleges during the year

1. **Isoniazid resistance in Rifampicin sensitive pulmonary tuberculosis in children and adolescents.**

- Patients were screened for enrollment from Outpatient and Inpatient Department of Pediatrics, MAMC and Chest Clinic, LNJP Hospital, New Delhi.
- Sputum/ Gastric aspirate sample were obtained from all the patients with suspected pulmonary tuberculosis.
- One part of the sample was subjected to CBNAAT for detection of tuberculosis. *M. tuberculosis* positive and Rifampicin sensitive was enrolled in the study and written informed consent obtained.
- Detailed history and clinical examination of enrolled cases were obtained.
- Second part of the sample was processed at NDTB Centre for growth of *M. tuberculosis* by Mycobacterial Growth Indicator Tube (MGIT) culture as per standard guidelines.
- Drug Susceptibility Testing (DST) for Isoniazid, Ethambutol and Pyrazinamide were done by following standard procedures.
- Culture positive isolates were subjected to DST by genotypic (Line Probe Assay) and phenotypic methods for detection of resistance to Isoniazid.
- The Study is now completed.

2. To study the effectiveness of Fluoresce in Diacetate (FDA) vital staining in comparison to culture in follow up of first six months of treatment in multidrug resistant, pre-extremely drug resistant and extremely drug resistant pulmonary tuberculosis patients on longer regimen under National Tuberculosis Elimination Program.

- Newly diagnosed drug resistant pulmonary tuberculosis patients reported to Kingsway Chest Centre Outpatient Department and Inpatient Department of Rajan Babu Institute of Pulmonary Medicine and Tuberculosis (RBIPMT) and registered under NTEP were taken up in the study.
- Written informed consent was obtained from all the enrolled cases. Detailed history, clinical examinations, etc, were taken.
- Two sputum samples collected for FDA vital staining and cultures on 3rd, 4th, 5th and 6th follow-up were sent to NDTB Centre.
- Statistical analysis to find the sensitivity and specificity of FDA vital staining was done and the study is now completed.

PARTICIPATION IN SCIENTIFIC EVENTS

1. A sensitization session on ECHO platform was conducted on 1st April, 2021 to discuss redistribution of DMCs because of re distribution of Delhi Government dispensaries among revenue districts.
2. Sensitization of working women hostel inmates conducted in Daryaganj on 2nd April, 2021. Thirty persons residing in the hostel were sensitized. This session was on “Tuberculosis (TB) and its symptoms and prevention” by Medical Social Worker, Mrs. Shadab Khan.
3. ICMR project staff underwent orientation for laboratory services under NTEP, Delhi on 5th April, 2021 in NDTB Centre laboratory. They were also briefed about SOPs for conduct of two ICMR sponsored projects to be conducted in Delhi State.
4. A virtual meeting was held with ECHO India on 8th May, 2021. The meeting was held between Associate Vice President, ECHO India & their team with Dr. K.K. Chopra, Director, STDC. The main agenda was to discuss the scope of STDC, Delhi to function as an independent ECHO TB Hub along with present activities as STDC for Delhi state.
5. Central TB Division conducted National level Orientation cum ToT on Learning Resource Package for Community Health Officers on 11th May, 2021. Dr. K.K. Chopra, Director attended the training.
6. Regarding ICMR funded project on Quality Microscopic Services, a virtual sensitization was organised for all investigators and field staff on data management of the project on 21st May, 2021. Dr. K.K. Chopra, Director and Dr. Zeeshan, Microbiologist attended the sessions.
7. Dr. K.K. Chopra, Director visited R.K. Mission Chest Clinic on 22nd May 2021 to review activities of Laboratory Quality Management project being conducted in the chest clinic.
8. A meeting was called to discuss the progress in NTM project on 27th May 2021. Dr. K.K. Chopra, Director and Dr. Hanif, Bacteriologist attended the meeting as co-investigators of the project and presented the progress report of NDTB Centre site during the review meeting.
9. For PHI wise review of NTEP activities, STDC and Delhi state TB Cell conducted a virtual review of Shahdara Chest Clinic on 31st May 2021. TB score of each PHI under this clinic was individually discussed with local staff and the issues related to their functioning were discussed and resolved.
10. A meeting was called by ICMR to discuss the progress in NTM project on 8th June 2021. Dr. K.K. Chopra, Director and Dr. Hanif, Bacteriologist attended the meeting as co-investigators of the project and presented the progress report of NDTB Centre site during the review meeting.
11. A meeting to review research projects submitted for finalization in TB Association of India on 8th June, 2021. Dr. K.K. Chopra, Director attended the meeting as one of the experts. Total ten research projects sanctioned for funding.

12. Delhi NTEP review meeting was held on 21st June 2021 via ECHO platform. The meeting was organised from STDC Hub. District wise performance of Delhi state for the 1st quarter was analysed and presented by Dr. K.K. Chopra, Director. Performance of individual chest clinic on different parameters like Status of TB Notification, Nikshay Reporting, Status of Treatment Outcome, HIV Status, UDST Status, status of Nikshay Aushadhi, DBT & PFMS etc was discussed in the review. All DTOs, MOs, Supervisors and para medical staff participated in the discussion. About 117 participants attended the meeting.
13. Central TB Division has called a meeting on 25th June 2021 to assess the preparedness regarding implementation of shorter oral Bedaquiline containing regimen in Delhi state. Dr. K.K. Chopra, Director, Dr. Shanker Matta, Epidemiologist and Dr. Zeeshan, Microbiologist attended the meeting as its member.
14. A meeting to review the progress of HIV/TB coordination activities in Delhi was held on 25th June 2021 under the chairmanship of Project Director, DSACS. Dr. K.K. Chopra, Director and Dr. Shanker Matta, Epidemiologist attended the meeting as its member.
15. Delhi State PMDT review meeting cum sensitization for 1st quarter 2021 was held on 28th June 2020 virtually from STDC Delhi. Microbiologist of IRLs, C&DST Labs & Nodal Officers of DR TB Centre sites presented their reports for the quarter. Dr. K.K. Chopra, Director presented the analysis of performance of individual chest clinics during 1st quarter 2021 and given a sensitization about shorter oral bedaquiline regimen. Various issues related to labs and nodal DRTB Centers were discussed and resolved. Total 115 participants attended the meeting.
16. Central TB Division has organised virtual meeting with office bearers of TB Association of India on 28th June 2021 to discuss role of TAI in TB Mukhat Bharat. Dr. K.K. Chopra, Director presented the concept note about role of TAI.
17. Microbiologists and laboratory technicians of private diagnostic centres attended Induction training at NDTB Centre regarding Truenat and Genexpert for Covid-19 testing on 29th June 2021.
18. A virtual meeting was held between NDTB Centre faculty and ECHO Trust India on 5th July 2021. Discussion was on quality assessment of STDC Delhi ECHO Hub.
19. National review of NTEP was held on ECHO platform on 6th July 2021. Faculty of NDTB Centre participated and represented Delhi state STDC and IRL activities.
20. National Task Force virtual meeting was organised on 7th July 2021 to discuss zone wise role of involvement of medical colleges in NTEP. Dr. K.K. Chopra, Director attended the meeting.
21. The Union under iDEFEAT TB project is working to strengthen STDCs. One of the activities related to this is the Baseline Assessment of STDCs, being carried out along with consortium partner IQVIA. Under this activity they visited NDTB Centre on 12th July 2021 to assess the working of STDC Delhi. Dr. K.K. Chopra, Director presented the activities of STDC in detail.

22. A CME on drug resistant TB was organised in pediatric department, MAMC on 14th July 2021. Dr. K.K. Chopra, Director attended the meeting as faculty.
23. Indian Chest Society (North zone) organised a seminar on pulmonary infection in COVID era on 17th July 2021. Dr. K.K. Chopra, Director delivered a talk on “PMDT guidelines 2021”.
24. The Union is conducting ‘Unite to Act’ project under which TB champions in districts are sensitized for NTEP activities. A meeting to finalise districts of Delhi to be included under project was held on 19th July 2021 at NDTB Centre. Representatives of Delhi state TB Cell, Resource Group for Education and Advocacy for Community Health (Reach) and faculty of NDTB Centre participated in the meeting and finalised five revenue districts of Delhi to be included in the project.
25. Scientific committee meeting of RBIPMT was held on 20th July 2021. Dr. K.K. Chopra, Director, Dr. M. Hanif, Bacteriologist and Dr. Nishi, Statistician attended the meeting as its member.
26. CTD in collaboration with WHO-India has organised National Training of Trainers (TOT) in Guidelines for PMTPT between 26-29 July 2021. From NDTB Centre, Dr.K.K.Chopra, Director, Dr Hanif, Bacteriologist, Dr Shankar Matta, Epidemiologist, Dr Shivani Pawar, Medical Officer, Dr Zeeshan, Microbiologist and Dr Kaushal, Microbiologist attended the training. The trained faculty of NDTB Centre will further work as facilitators for training of other medical and para medical staff working under NTEP.
27. A Virtual sensitization workshop on TB Preventive Treatment Policy and Action Plan was held on 6th August 2021 from NDTBC-STDC - ECHO Platform. During the workshop, TPT sensitization was given to all DTOs, MOs and Supervisors of Delhi NTEP staff.
28. From August, 2021 a ‘Difficult to treat TB clinic’ has been started for DTOs, MOs and Supervisors via ECHO platform. Under this Clinic, On 11th August, 2021 a case discussion was presented by Dr. Abbas, Medical Officer of LN DRTB site and didactic was given by Dr. K.K. Chopra, Director, NDTBC. About 85 participants attended the session.
29. As an initiative of iDefeat TB project towards Institutional Strengthening to Accelerate Actions for Tuberculosis (TB) and Drug Resistant TB (DR-TB) in India, the team from CTD, IQVIA and The UNION has initiated the Baseline assessment of STDCs. The purpose of this assessment is to strengthen and scale up the training and program monitoring capacity of STDCs under National Tuberculosis Elimination Program. The assessment has to be carried out in 7 cities. The first visit under the project was undertaken at NDTB Centre from 26th August, 2021. The team has thoroughly gone through all workings of STDC since its inception and they were provided all the documents and necessary information according to their needs.
30. Delhi State Operational Research Committee meeting was held on 27th August 2021 in NDTB Centre. Faculty of the Centre participated in the meeting. New and old OR proposals were presented and discussed. Dr. K.K Chopra, Director present the status of ongoing study in NDTB Centre.

31. 'Difficult to treat TB clinic' has been started for DTOs, MOs and Supervisors via ECHO platform. Under this Clinic, on 1st September, 2021 a case discussion was presented by Dr. Shilpi Goel, DTO of Hedgewar Hospital and didactic was given by Dr. Dinesh, DTO, Ch. Deshraj Hospital on "Surgical Management of Tuberculosis". About 85 participants attended the session.
32. Scientific committee meeting of RBIPMT was held on 2nd September 2021. Dr. K.K. Chopra, Director, Dr. M. Hanif, Bacteriologist and Dr. Nishi, Statistician attended the meeting as its member.
33. Delhi NTEP review meeting cum sensitization was held on 17th September 2021. The meeting was organised as Hybrid mode from STDC ECHO platform. District wise performance of Delhi state for the 2nd quarter was analysed and presented by Dr. K.K. Chopra, Director. Measures to improve performance of individual chest clinic discussed with respective District TB officer. In addition, challenges faced in maintaining NTEP services in COVID19 era were also discussed. All DTOs, MOs, Supervisors and para medical staff participated in the discussion.
34. NTM project review meeting was held on 17th September 2021. Dr. Hanif attended the meeting to discuss progress under the project.
35. A CME about Pediatric TB Management Essentials was organised at Jaipur Golden Hospital on 18th September 2021. Dr. K.K Chopra, Director attended the CME and delivered a lecture on this occasion.
36. A meeting to formulate strategies to implement TPT in Delhi state was organised on 21st September 2021. STO Delhi, Delhi state NTEP Consultant and representatives of TB Alert attended the meeting. Dr. K.K. Chopra, Director participated in the meeting.
37. Delhi State PMDT review meeting cum sensitization for 2nd quarter 2021 was held on 23rd September 2021 (Hybrid) from STDC Delhi. Microbiologist of IRLs, C&DST Labs & Nodal Officers of DR TB Centre sites presented their reports for the quarter. Dr. K.K. Chopra, Director presented the analysis of performance of individual chest clinics during 2nd quarter 2021 and given a sensitization about implementation of shorter oral MDR regimen. Various issues related to laboratory and nodal DRTB Centers were discussed and resolved.
38. Doctors Without Borders (India), in collaboration with National Institute of Tuberculosis & Respiratory Diseases (NITRD) organised 'TB Day event' on 25th September 2021. Dr. K.K. Chopra, Director and Dr. M. Hanif, Bacteriologist attended the conference.
39. A meeting to prepare preliminary scientific programme for 2021 NATCON was held in TB Association of India on 1st October 2021. Dr. K.K. Chopra, Director presented the outline of the programme.
40. Inauguration of 2021 TB Seal campaign was held in Rashtrapathi Bhawan on 2nd October 2021. The President of India released the TB Seals on Theme "TB and Covid19". Dr. K.K. Chopra, Director attended the inauguration ceremony with DDG (TB) and Trustee, TAI.

41. Virtual monthly review meeting to discuss the status of ICMR NTM programme held on 4th October 2021. Dr. K.K. Chopra, Director, Dr. M. Hanif, Bacteriologist attended the meeting. Dr. Hanif presented the data of the project at NDTB site.
42. Delhi state monthly 'Difficult to Treat TB Clinic (D3T)' was held from STDC Hub on 6th October 2021. Didactic on "Infection Control measures in TB settings" was presented by Dr. Kaushal, Microbiologist, NDTB Centre. The case was presented by DTO, Shastri Park Chest Clinic.
43. Delhi NTEP state level meeting was held on 22nd October 2021 in conference room of NDTB Centre. This was to discuss and finalise state level strategic plan for Ending TB by 2025. Dr. K.K. Chopra, Director participated in the meeting.
44. A team from Central TB Division and PATH visited Delhi state for Needs Assessment for Establishing State Technical Support Units (STSU) on 25th October 2021. Team had discussion with state officials regarding gap assessment and to advice support system required. Dr. K.K. Chopra, Director participated in the meeting.
45. National Consultative Workshop to discuss state strategic plans for Ending TB by 2025 was held on 29th and 30th October at Hyatt Regency, New Delhi. Dr. K.K. Chopra, Director and Dr.B.K. Vashisht, State TB Officer participated in the meeting.
46. Launch of Standard TB Guidelines by Delhi Society for Promotion of Rationale Use of drugs was held in auditorium of Lady Harding Medical College. Dr.K.K. Chopra, Director attended the function. He has also contributed in revising the chapter on TB.
47. Central TB Division organised a virtual session on 'Artificial Intelligence based Interpretation of LPA reports' on 2nd November 2021. Dr. M. Hanif, Bacteriologist attended the session.
48. Delhi state monthly 'Difficult to Treat TB Clinic (D3T)' was held from STDC Hub on 9th November 2021. Didactic on "Radiological imaging in Tuberculosis" was given by Dr.Bala Menon, Director Professor Pulmonary Medicine, V.P. Chest Institute the case was presented by DTO, SPM Chest Clinic.
49. Johnson & Johnson (Academic Division) has conducted a webinar on cases finding strategies on 20th November 2021. Dr. K.K. Chopra, Director delivered a lecture on "Review of WHO recommendations on early diagnosis and prompt treatment of TB and DRTB."
50. The Central TB Division conducted a virtual meeting to review preparedness of states for introduction of shorter regimen and TB preventive treatment on 22nd November 2021. Dr. K.K. Chopra, Director participated in the meeting.
51. A state level meeting was conducted on 24th November 2021 to review TB Preventive treatment in Delhi state. ZMQ representative attended the meeting held at NDTB Centre. Delhi state TB Officer, Director, NDTB Centre and official of state TB Cell attended the meeting.
52. Department of Pulmonary Medicine, TB Hospital, Patiala has organised PULMONIS 2021 on 28th November 2021. Dr. K.K. Chopra, Director delivered a lecture on "Revised guidelines on PMDT 2021".

53. Central TB Division conducted state wise review of NTEP activities on virtual mode on 29th November 2021. DDG(TB) reviewed performance of all states as per parameters of programme monitoring. Dr. K.K. Chopra, Director attended the meeting with Delhi state TB officials.
54. Delhi State PMDT review meeting cum sensitization for 3rd quarter 2021 was held on 2nd December 2021 (Hybrid) from STDC Delhi. Microbiologist of IRLs, C&DST Labs & Nodal Officers of DR TB Centre sites presented their reports for the quarter. Dr. K.K. Chopra, Director presented the analysis of performance of individual chest clinics during 3rd quarter 2021 and gave a sensitization about implementation of shorter oral MDR regimen. Various issues related to labs and nodal DRTB Centers were discussed and resolved.
55. A meeting was held with representatives of Dr. Lal Path Lab on 7th December, 2021 regarding issues pertaining to notifications. Dr. K.K. Chopra, Director alongwith STO Delhi addressed the issues the state is facing in notification on patients attending Lal Path Lab.
56. Delhi NTEP review meeting cum sensitization was held on 8th December 2021. District wise performance of Delhi state for the 3rd quarter was analysed and presented by Dr. K.K. Chopra, Director. Measures to improve performance of individual chest clinic discussed with respective District TB officer. All DTOs and MOs participated in the discussion.
57. Delhi state monthly 'Difficult to Treat TB Clinic (D3T)' was held from STDC Hub on 9th December 2021. Didactic on "TPT & Prevent TB App." was given by Dr. Parveen, NTEP Consultant. The case was presented by Dr. Umesh, DTO, Nehru Nagar Chest Clinic.
58. Sensitization Workshop for all DTOs of Delhi state NTEP was held regarding Nikshay. They were sensitized in detail about Nikshay portal, report generation and its analysis. The workshops were held on 10th, 13th, 14th, 15th and 17th December 2021.
59. Central TB Division conducted a virtual meeting on 10th December 2021 to discuss contact tracing and TB preventive App in Delhi state. Dr. K.K. Chopra, Director attended the meeting along with State TB Officer, NTEP team of Delhi state.
60. Respicon Conference was conducted at NDMC conference hall from 10th to 12th December 2021. Dr. K.K. Chopra, Director delivered a lecture on "Recent PMDT guidelines" and participated as panelist in "MDR and XDR" panel discussion.
61. The Union, Central TB Division and Swasthe Gurukul team of WHO organised a two days workshop on 'Training of Treatment Supporters on NTEP' on 14th and 15th December 2021. Dr. K.K. Chopra, Director and Dr. S. Matta, Epidemiologist attended the workshop.
62. Homeless project started on 23rd December 2021 in Yamuna Pushta area of Geeta Ghat. All the pavement dwellers in the area are being x-rayed with mobile x-ray van and persons with abnormal x-rays are investigated and put on treatment.
63. Virtual meeting was held on 27th December 2021 on ECHO platform to discuss plan for sensitization of ASHA workers as per modern training system.

64. Central TB Division conducted state wise review on virtual platform on 28th December 2021. Dr.K.K.Chopra, Director, Dr. S. Matta, Epidemiologist and State TB Officer with his team participated in the discussion.
65. Delhi state monthly 'Difficult to Treat TB Clinic (D3T)' was held from STDC Hub on 5th January 2022. Didactic on "Recent changes in NTEP" was given by Dr.Aman Gupta, NTEP Consultant. The case was presented by Dr. Sunil Kumar, DTO, Moti Nagar Chest Clinic.
66. Review meeting (virtual) was organised by Central TB Division to assess the PMTPT scale up plan of Delhi State on 24th January 2022. Dr. K.K. Chopra, Director and Dr. M. Hanif, Bacteriologist attended the meeting as its members.
67. A virtual sensitization workshop on CBNAAT EQA was held on 28th of January 2022 by the representatives from FIND India. The workshop covered in detail regarding the EQA process starting from receipt of the panel to the entry of results in the portal. Dr. Zeeshan, Microbiologist attended the programme.
68. A joint virtual Meeting of NTEP and NUHM Collaboration was conducted under the chair of JS-TB and JS-NUHM on 31st January 2022. Dr. K.K. Chopra, Director attended the meeting.
69. Delhi state monthly 'Difficult to Treat TB Clinic (D3T)' was held from STDC Hub on 2nd February 2022. Didactic on "Recent additions in NTEP" was given by Dr. Khalid, DTO, NITRD. The case was presented by Dr. Deep Mani, DTO, Malviya Nagar Chest Clinic.
70. Central TB Division has conducted a virtual meeting on 3rd February 2022 to review the Artificial Intelligence Cough solution Data collection issues. Dr. K.K. Chopra, Director attended the meeting.
71. A virtual meeting for 'Sensitization of State teams - Sub National Certification (DLAS)' Project conducted by ICMR-NIRT Team on 4th February 2022. Dr. K.K. Chopra, Director attended the meeting.
72. External review of Kingsway Chest Clinic under ICMR project on "Quality Improvement in use of rapid diagnostics" was held on 10th and 11th February 2022. Dr. Zeeshan, Microbiologist of IRL NDTB Centre was member of the review committee. Similar review was done for R.K. Mission Chest Clinic on 15th & 16th February 2022.
73. Virtual Launch of the "Self learning Course for TB Champions", organised by Central TB Division was held on 10th February 2022. Faculty of NDTB Centre attended the sensitization.
74. Physical meeting for discussion on Dream Delhi Project related to counseling of DRTB patients held on 10th February 2022 in NDTB Centre. Representatives of State TB Cell and BCTA (NGO) conducting the project participated along with faculty of NDTB Centre.
75. Delhi State Task Force meeting of NTEP was held on 11th February 2022 through ECHO platform. All the 13 medical college representatives presented their activities. Faculty of NDTB Centre participated in the meeting as its members. Dr. K.K Chopra, Director delivered a lecture on PMTPT.

76. The Union organise an academic session every Friday for its consultants on ECHO platform. Dr. K.K. Chopra, Director was invited as an expert speaker for the session on NTEP structure on 18th February 2022.
77. A sensitization workshop/meeting was organised at New Delhi TB Centre on 22nd February 2022 to review and discuss the reasons & issues related to the very high number of notified patients not being initiated on treatment. The DTOs from chest clinics of Delhi attended the workshop.
78. On occasion of World TB day many activities were carried out at New Delhi Tuberculosis centre during the entire month of March, 2022. This year various programmes were conducted with SPYM (Society for the promotion of Youth and masses). Children were encouraged to participate. Various activities like painting competition, slogan writing competition and poem recitation competition on TB were undertaken. IEC along with health talk was conducted at Metro Stations, Markets and in slum area. A community meet in the Hauz Qazi area of Delhi was also undertaken whereby the community was sensitized about Tuberculosis, its treatment and prevention. The final TB celebration was undertaken on 28th March 2021 at the New Delhi Tuberculosis centre where winners of Painting and poem competition were awarded prizes. The certificates were given to two chest clinics; namely R.K. Mission and Kingsway Camp Chest Clinic, where ICMR project to improve quality management of their one DMC was conducted.
79. A sensitization/training workshop was organised in STDC Delhi for STLSSs, MOs, MO-TC of different chest clinics and medical college referral units to improve public health action for all diagnosed/notified TB cases under Delhi state NTEP on 3rd, 4th, 7th, 9th, 14th and 16th March, 2022.
80. Central TB Division has collaborated with USAID under iDefeat TB project for establishment of iECHO TB Hubs at State level and National level institutions. On 4th March, 2022 under the project, 15 iECHO TB Hubs were launched by DDG (TB), MOH&FW. Dr. K.K. Chopra, Director attended the launch programme.
81. Interactive and Sensitisation Session organised for teachers of St. Francies School of Delhi, Mumbai and Calcutta on Tuberculosis and Communicable Diseases on 5th March, 2022. Dr.K.K.Chopra, Director delivered a lecture and sensitized the teachers regarding tuberculosis.
82. Delhi NTEP review meeting cum sensitization was held on 8th March 2022. District wise performance of Delhi state for the 4th quarter 2021 was analysed and presented by Dr. K.K. Chopra, Director. Measures to improve performance of individual chest clinic were discussed with respective District TB officer. All DTOs and MOs participated in the discussion.
83. A CME was organised by Batra Hospital on 9th March 2022. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Guidelines for Programmatic Management of TB Preventive Treatment (PMTPT) in India”.

84. Delhi state monthly ‘Difficult to Treat TB Clinic (D3T)’ was held from STDC Hub on 10th March 2022. Didactic on “E-learning modules” was given by Dr.B.K. Vashisht, STO Delhi. The case was presented by Dr. Bakshi, DTO, NDMC Chest Clinic. During the session, a special session was also held regarding transition from ECHO to iECHO platform.
85. A sensitization/ Capacity building workshop was organised virtually via ECHO platform through STDC Hub on 11th March 2022 for STLSs and LTs regarding “Packaging and Transportation of Sputum specimens”. Dr. Zeeshan and Dr. Kaushal, Microbiologist sensitized the STLS and LTs.
86. BCTA India has organised the programme on completion of project “Project Kaushalarjan” on 14th March 2022 where cured TB patients were trained for services to community vocational were given awards and certificates. Dr. K.K. Chopra, Director and Ms. Vanisha, MPHWH attended the programme.
87. A CME was organised by NDMC Chest Clinic at Delhi Cantt on 16th March 2022. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Latest guidelines on Programmatic Management Drug Resistant TB”.
88. To mark World TB Day, the Central TB Division, Ministry of Health and Family Welfare, Government of India has organised the “STEP Up to End TB Summit” on March 24, 2022, at Vigyan Bhavan, New Delhi. This summit aims to bring together highest-level leadership, key stakeholders and partners to galvanize action to accelerate progress for TB elimination by 2025. Dr. K.K Chopra, Director attended the programme.
89. A CME was organised by Lady Harding Hospital on 26th March 2022. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Latest guidelines on Programmatic Management Drug Resistant TB”.
90. Delhi State PMDT review meeting cum sensitization for 4th quarter 2021 was held on 28th March 2022 (Hybrid) from STDC Delhi. Microbiologist of IRLs, C&DST Labs & Nodal Officers of DR TB Centre sites presented their reports for the quarter. Dr. K.K. Chopra, Director presented the analysis of performance of individual chest clinics during 4th quarter 2021. Various issues related to laboratories and nodal DRTB Centers were discussed and resolved.
91. Two CME were organised by NDMC Chest Clinic on 30th and 31st March 2022. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Diagnosis and Treatment of Drug Sensitive TB”.

MEETINGS

1. Virtual interview was conducted on 1st April, 2021 to select two staff for various positions in ICMR projects for which NDTB Centre is one of the sites. Dr. K.K. Chopra, Director participated as an expert.
2. A meeting with Chairman, NDTB Centre was held on 3rd April, 2021 regarding various issues of NDTB Centre. Dr. K.K. Chopra, Director and Mr. S. K. Saini, Administrative Officer attended the meeting.
3. Ethical committee meeting of RBIPMT was held on 23rd June 2021. Dr.K.K.Chopra, Director attended the meeting as its Chairman.
4. Delhi State TB Cell has conducted a virtual meeting to clarify certain issues raised by the Planning Department GNCTD, pertaining to on boarding the Delhi NTEP DBT Schemes on PFMS as well as non visibility of Delhi NTEP DBT Schemes in NPCI on 12th July 2021. Dr. K.K. Chopra, Director attended the meeting.
5. Ethical committee meeting of NITRD was held on 23rd July 2021 via ZOOM platform. Dr. K.K. Chopra, Director attended the meeting as Chairman of ethical committee of NITRD.
6. The Union with its consortium partner IQVIA has organised a meeting for baseline assessment of STDCs on 30th July 2021. Dr. K.K. Chopra, Director attended the meeting.
7. Ethical committee meeting of RBIPMT was held on 4th August 2021. Dr.K.K.Chopra, Director attended the meeting as its Chairman.
8. Dr. K.K. Chopra (Director) participated in the meeting of TB Association of India on 20th August 2021. During the meeting, TB Seal design which is to be released on 2nd October 2021 was discussed and finalized.
9. Delhi state COVID 19 coordination committee meeting was held on 8th September 2021 under the Chairmanship of Dr. Ashwani Khanna, Consultant, Delhi state. Dr.K.K.Chopra, Director, Dr. M. Hanif, Bacteriologist and Dr. Zeeshan, Microbiologist attended the meeting as committee member.

10. PMDT Core Committee meeting of Lok Nayak DRTB site was held on 14th October in LN Chest Clinic. Dr. K.K. Chopra, Director attended the meeting as its member.
11. SEA KOL Council for TB and DR-TB meet organised by Johnson & Johnson Co. was held on 28.10.2021. Representative from five different countries were present during the meeting. From India, Dr. K.K. Chopra, Director and Dr. Ashwani Khanna, Consultant attended the meet.
12. A virtual meeting to finalize vendor for forthcoming NATCON to be conducted in Hybrid mode was held on 15th November 2021. Dr. K.K. Chopra, Director attended the meeting as coordinator of scientific programme.
13. A Managing Committee meeting of NDTB Centre was held on 17th November, 2021. During the meeting the budget and audit report was passed by the Managing Committee. Also various issues related to staff and pending matters of NDTB Centre were discussed in the meeting.
14. A meeting was conducted in NDTB Centre on 10th December 2021 with Medanta team regarding active case finding activities. The Medanta team agreed to provide van with mobile x-ray machine for time to time ACF activities planned in Delhi state.
15. Ethical committee meeting of NITRD was held on 27th December 2020 via ZOOM platform. Dr. K.K. Chopra, Director attended the meeting as Chairman of ethical committee of NITRD.
16. A meeting of experts conducted in STDC under Dr. Shanker Matta (Epidemiologist) on 17th January 2022 regarding procurement of laboratory logistics. Follow up meeting with company representatives was conducted on 27th January 2022 to finalise the contracts.
17. Delhi State TB Forum meeting was held on 20.1.2022 headed by Secretary Health, Delhi government. Dr. K.K. Chopra, Director attended the meeting.
18. A virtual meeting with The Union and ECHO team regarding planning for training of ASHA workers was held on 7th February 2022. Dr. Shanker Matta, Epidemiologist attended the meeting.
19. A meeting with representatives of Tech Mahindra Health Centre held on 8th February 2022 in NDTB Centre. This was regarding active case finding project by their students in Kingsway Camp chest clinic area.

20. Meeting with mobile X-ray van field workers was held on 11th February 2022. The various issues faced during field work were discussed with Dr.Chopra and resolved accordingly.
21. ECHO platform is preparing to shift to iECHO. To discuss the procedure team from ECHO (Mr. Babu & Mr. Prateek) visited the Centre and had discussion with faculty of NDTB Centre.
22. Project “Dream Delhi” for providing support to MDR cases in Delhi state initiated by an NGO, BCTA India with Delhi State NTEP. A meeting to discuss its implementation plan held on 17th February 2022. Dr. K.K. Chopra, Director attended the meeting.
23. Delhi state COVID 19 monitoring committee meeting held on 21st February 2022 to discuss fixation of prices of Truenat and CBNAAT tests in Delhi state.
24. A virtual meeting with State NTEP Teams and Partners on implementation of the “Self-learning Course for TB Champions” was organised by Central TB Division on 22nd February 2022. Dr. S. Matta, Epidemiologist attended the meeting.
25. A virtual meeting was organised by Central TB Division on 22nd Feb 2022 on effective engagement of social media in NTEP. Dr. S. Matta, Epidemiologist attended the meeting.
26. The Second meeting of the committee, constituted to expedite the implementation of recommendations of review of Autonomous Bodies, was held on 22nd February 2022 under the Chairmanship of Dr. Rajiv Garg, Professor of Excellence, Dte.GHS. Dr. K.K. Chopra, Director attended the meeting.
27. Dr. K.K. Chopra, Director visited to Delhi TB Association to discuss and review ongoing pavement dwellers mobile TB clinic on 24th February 2022.
28. A sensitization/meeting was held on 15th March 2022 at STDC Delhi to review the status of Roll-out and Implementation of TPT Guidelines in 8 Chest Clinics of Delhi i.e. Lok Nayak, RTRM, Nehru Nagar, MNCH, NITRD, Karawal Nagar, Patparganj and SPMH.
29. Ethical committee meeting of NITRD was held on 15th March 2022 via ZOOM platform. Dr. K.K. Chopra, Director attended the meeting as Chairman of ethical committee of NITRD.

TRAINING AND MONITORING SECTION

NTEP Trainings

The centre has training and monitoring section equipped with an auditorium, a conference room and a lecture hall along with ultra modern audio visual facilities. New Delhi Tuberculosis centre as STDC conducts training courses for medical and paramedical staff on various aspects of NTEP round the year. This year also, various training activities were undertaken details of which are mentioned in the tabular form.

These training activities were targeted at

1. DTOs and Medical Officers working at various chest clinics of Delhi.
2. Paramedical NTEP staff
3. Interns and post graduate students of medical college.
4. Nursing staff from various nursing colleges.
5. Others (NGO's, etc)

Resource persons for trainings are faculty of NDTB Centre, MAMC and District TB Officers of Delhi State.

The details of trainings are given below:

1. Hands on training in Truenat Machines were held for Laboratory Technicians of DMCs of Delhi State NTEP in NDTB Centre in three batches on 1st April, 2021, 5th April, 2021 and 8th April, 2021. 11 Laboratory Technicians were trained in these sessions.
2. Two days initial training of staff of ICMR funded laboratory quality management project conducted on 4th and 5th May, 2021 in NDTB Centre laboratory. Dr. Zeeshan, Microbiologist was trainer for the sessions. Dr. K.K. Chopra, Director and Dr. M. Hanif, Bacteriologist also addressed the participants.
3. Microbiologists and laboratory technicians of private diagnostic centers attended Induction training at NDTB Centre regarding Truenat and Genexpert for Covid-19 testing on 10th May 2021.

4. A virtual training was organised by Central TB Division with the State teams for ensuring the recording & reporting of TB Preventive Treatment in Prevent TB India app on 13th July 2021. Dr. K.K. Chopra, Director attended the training as Director STDC.
5. Microbiologists and laboratory technicians of private diagnostic centers attended Induction training at NDTB Centre regarding Truenat and Genexpert for Covid-19 testing on 16th July 2021.
6. Sensitization of staff of ICMR funded research project regarding tuberculin testing was conducted at NDTB Centre on 19th July 2021. Six project staff were sensitized by Dr K.K. Chopra, Director and Ms. Vanisha, MPHWH.
7. The MILAP training institute has organised IA & QMS training for maintaining NABL accreditation from 28th to 31st July 2021. Mr. Parveen Kumar, Sr. Laboratory Technician has attended the said training.
8. Microbiologists and laboratory technicians of private diagnostic centers attended Induction training at NDTB Centre regarding Truenat and Genexpert for Covid-19 testing on 5th August 2021.
9. Training on PMDT 2021 guidelines for DRTB Supervisors was conducted on 12th and 13th August 2021 in auditorium of NDTB Centre. The training session was conducted on e-swastha gurukul ECHO platform.
10. Training on PMDT 2021 guidelines for District TB Officers was conducted from 16th to 18th August 2021. The training session was conducted on e-swastha gurukul ECHO platform.
11. Training on PMDT 2021 guidelines for Medical Officers was conducted from 23rd to 25th August 2021. The training sessions were conducted on e-swastha gurukul ECHO platform.
12. Training on PMDT 2021 guidelines for STS was conducted on 6th and 7th September 2021 in auditorium of NDTB Centre. The training session was conducted on e-swastha gurukul ECHO platform.
13. Microbiologists and laboratory technicians of private diagnostic centers attended Induction training at NDTB Centre regarding Truenat and Genexpert for Covid-19 testing on 8th September 2021.
14. The Punjab Chest Society organised a session on PMDT Guidelines. PG students, faculty including HOD of pulmonary medicines of all the medical colleges in Punjab participated in the discussion. About 82 participants attended the training programme.

15. Training on PMDT 2021 guidelines for STS/STLS/SA was conducted on 9th and 10th September 2021 in auditorium of NDTB Centre. The training session was conducted on e-swastha gurukul and ECHO platform.
16. Training on PMDT 2021 guidelines for STS/STLS/SA was conducted on 13th and 14th September 2021 in auditorium of NDTB Centre. The training session was conducted on e-swastha gurukul and ECHO platform.
17. Sensitization programme (virtually) held for students of different schools on 4th September 2021 and 18th September. The students were sensitized about disease, treatment and prevention of tuberculosis. Dr. Shanker Matta, Epidemiologist, Mrs. Shadab, MSW and Mrs. Vanisha, MPHWH facilitated the training programme.
18. Sensitization programme (virtually) held for school students on 16th October 2021. The students were sensitized about disease, treatment and prevention of tuberculosis. Dr. Shanker Matta, Epidemiologist and Mrs. Shadab Khan facilitated the training programme.
19. Sensitization programme (virtually) held for B.Sc nursing students (2nd and 3rd year) from Holy Family College of Nursing on 21st October 2021. Total 112 B.Sc Nursing students attended the training in which they were sensitized about disease, treatment and prevention of tuberculosis and role of nurses in care of TB patients. Mrs. Gurpreet, Public Health Nurse facilitated the training programme.
20. Two days training on “Programmatic Management of TB Preventive Treatment” for DTOs was held on 26th and 27th October 2021. All DTOs and faculty of attached medical colleges attended the training session. Dr. K.K. Chopra, Director and Dr. Shankar Matta, Epidemiologist were facilitators for training session.
21. One day training on “Programmatic Management of TB Preventive Treatment” for Medical Officers was held on 29th October 2021. All DTOs and faculty of attached medical colleges attended the training session. Dr. K.K. Chopra, Director and Dr. Shankar Matta, Epidemiologist were facilitators for training session.
22. Under idefeat project, CETI has organised quality improvement training sessions for DTOs. In the concluding day of the current session on 13th November 2021, Dr. K.K. Chopra, Director was invited as a guest expert to discuss his experiences on ‘Delegation of Duties’.
23. Sensitization programme (virtually) held for B.Sc nursing students from Faculty of Nursing, SGT University on 16th November 2021. Total 112 B.Sc Nursing students attended the training in which they were sensitized about disease, treatment and prevention of tuberculosis and

role of nurses in care of TB patients. Dr. Shanker Matta, Epidemiologist and Mrs. Gurpreet, Public Health Nurse facilitated the training programme.

24. Training was organised for Supervisors working under the NTEP programme on 'Guidelines for Programmatic Management of TB Preventive Treatment in India - 2021' via Swastha e-Gurukul platform on 23rd and 25th November 2021.
25. Sensitization programme (virtually) held for students of different schools on 4th December 2021 and 18th December 2021. The students were sensitized about disease, treatment and prevention of tuberculosis. Dr. Shanker Matta, Epidemiologist and, Mrs. Shadab, MSW facilitated the training programme.
26. Vocational training centre made by Baptist, Charitable Trust, Daryaganj was inaugurated on 9th December, 2021. Dr. K.K. Chopra, Director attended the programme.
27. One day training of homeless project staff held on 21st December 2021 in NDTB Centre. Field workers of NGO, Medanta and Delhi TB Association attended the training. Dr. S. Matta, Epidemiologist and Ms. Gurpreet, PHN sensitized them about recent guidelines in diagnosis and treatment.
28. AERB has conducted an online awareness program on "Radiation Protection in Diagnostic Radiology" for users of Diagnostic Radiology (Medical X-ray facilities) on 28th December 2021. Mr. Virender, Sr. X-ray Technician and Mr. Ajay Kumar, Jr. X-ray Technician attended the programme.
29. Sensitization programme (virtually) held for students of different schools on 15th January 2022. The students were sensitized about disease, treatment and prevention of tuberculosis. Dr. Shanker Matta, Epidemiologist and Mrs. Shadab, MSW facilitated the training programme.
30. A virtual training was conducted by Central TB Division on the process of collection of cough sounds for the Artificial Intelligence based solution to detect TB on 21st January 2022. Dr. K.K. Chopra, Director attended the training programme.
31. To facilitate universal implementation of TSA system an extensive training and sensitization programme was conducted for autonomous bodies under MOHFW & M/o Ayush on 28th January 2022. Mr. Mayank Sharma, Accountant attended the programme.
32. Sensitization programme (virtually) held for students of BCTA schools on 15th February 2022. The students were sensitized about disease, treatment and prevention of tuberculosis. Dr. Shanker Matta, Epidemiologist facilitated the training programme.

33. Virtual Sensitization of students and field workers of Tech Mahindra was held on 15th February 2022. Total 95 students attended the training programme.
34. Virtual training was organised by Central TB Division on 21st February 2022 to sensitize the entire State/UTs regarding release of a feature to generate Ayushman Bharat Health Account (ABHA) in Nikshay pan-India. Dr. K.K. Chopra, Director and Dr. S. Matta, Epidemiologist attended the meeting.
35. Sensitization programme held for M.Sc final year nursing students from RAK College of Nursing on 23rd February 2022. The students were sensitized about disease, treatment and prevention of tuberculosis and role of nurses in care of TB patients. Dr.Shanker Matta, Epidemiologist and Mrs.Gurpreet, Public Health Nurse facilitated the training programme.
36. Microbiologists and laboratory technicians of private diagnostic centers attended Induction training at NDTB Centre regarding Truenat and Genexpert for Covid-19 testing on 14th February 2022 and 25th February 2022.
37. A training programme was held for the instructors / volunteers who are working as Community Dot Provider under the project Gurukul of NGO BCTA on 17th March 2022 at STDC Delhi. Dr. K.K. Chopra, Director, Dr. Matta, Epidemiologist and Ms. Vanisha, MPHWS sensitized them regarding Tuberculosis, prevention and how to educate the community regarding the deadly disease.
38. Sensitization programme held for GNM and ANM nursing students from The Salokaya College of Nursing on 23rd and 24th March 2022. The students were sensitized about disease, treatment and prevention of tuberculosis and role of nurses in care of TB patients. Mrs.Gurpreet, Public Health Nurse facilitated the training programme.
39. Training of Trainers was held on 29th March 2022 at STDC Delhi where the master trainers are trained to further give training to ASHA workers attached with different chest clinics of Delhi. The ECHO team and representatives of The Union organised the session for master trainers.
40. Online training programme was held for Community Health Volunteers (CHVs) on 30th March 2022 and 31st March 2022(2 days). STS with ASHA workers of five chest clinics attended the training programme. The training was on e-swastha gurukul.

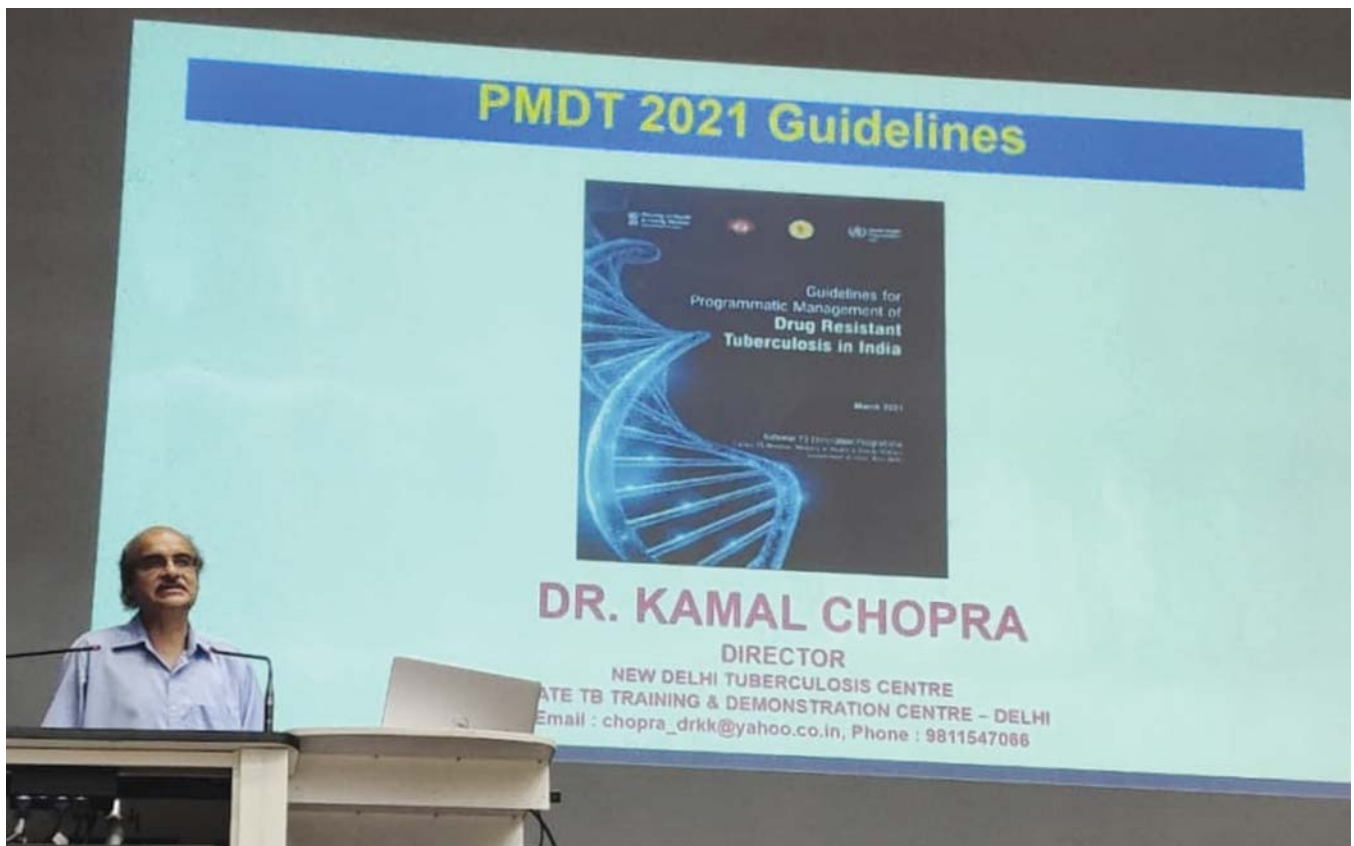


JSSM Meeting



Interaction with NTEP Partners

PMDT Training 2021



PMDT Training 2021





Nursing Training



Training of Microbiologists and Technicians of Private Laboratories

NTEP Trainings



Details of Trainings held at New Delhi TB Centre (STDC) from 01st April 2021 to 31st March 2022

Trainings	No. of Participants
NTEP Personnel (Medical & Para-medical)	2442
Nursing students	957
Miscellaneous–(Other than NTEP Personnel)	960
Total personnel trained	4359

A total of 4359 participants were attended different training sessions conducted between April 2021 to March 2022 including 2442 NTEP personnel which were trained regarding various aspects of the NTEP, 957 Nursing students were trained from various colleges and 960 personnel other than NTEP were trained on “Various topics aspects on NTEP. The details of all trainings are given in the table below:-

Table: Details of Trainings held for Delhi state NTEP personnel (Medical and Para Medical) at New Delhi TB Centre (STDC) from 01st April 2021 to 31st March 2022

S. No.	Training	Participants title	Date	Virtual/ Physical	No. of Participants
1	Hands on training in Truenat machines	Laboratory Technicians	01.04.2021	Physical	3
2	Hands on training in Truenat machines	Laboratory Technicians	05.04.2021	Physical	3
3	Hands on training in Truenat machines	Laboratory Technicians	08.04.2021	Physical	5
4	Delhi state sensitization cum review meeting of DTOs	DTOs, MOs and supervisors	21.06.2021	Virtual	117
5	Delhi state sensitization cum review meeting on PMDT activities	DTOs, MOs, Nodal officers of CDST labs and DRTB sites	28.06.2020	Virtual	115
6	sensitization workshop on TB Preventive Treatment Policy and Action Plan	DTOs, MOs and Supervisors	06.08.2021	Virtual	75
7	‘Difficult to treat TB clinic’	DTOs, MOs and Supervisors	11.08.2021	Virtual	85
8	Training on PMDT 2021 guidelines	DRTB Supervisors	12.08.2021 & 13.08.2021	Physical	26

S. No.	Training	Participants title	Date	Virtual/ Physical	No. of Participants
9	Training on PMDT 2021 guidelines	District TB Officers	16.08.2021 to 18.08.2021	Virtual	41
10	Training on PMDT 2021 guidelines	Medical Officers	23.08.2021 to 25.08.2021	Virtual	45
11	'Difficult to treat TB clinic'	DTOs, MOs and Supervisors	01.09.2021	Virtual	85
12	Training on PMDT 2021 guidelines	STS	06.09.2021 to 07.09.2021	Physical	26
13	Training on PMDT 2021 guidelines	STLS	09.09.2021 to 10.09.2021	Physical	23
14	Training on PMDT 2021 guidelines	SA, STS & STLS	13.09.2021 to 14.09.2021	Physical	27
15	Delhi state sensitization cum review meeting of DTOs	DTOs, MOs and supervisors	17.09.2021	Hybrid	318
16	Delhi state sensitization cum review meeting on PMDT activities	DTOs, MOs, Nodal officers of CDST labs and DRTB sites	23.09.2021	Hybrid	277
17	'Difficult to treat TB clinic'	DTOs, MOs and Supervisors	06.10.2021	Virtual	94
18	Training on "Programmatic Management of TB Preventive Treatment"	All DTOs and faculty of attached medical colleges	26.10.2021 and 27.10.2021	Physical	41
19	Training on "Programmatic Management of TB Preventive Treatment"	Medical Officers	29.10.2021	Physical	40
20	'Difficult to treat TB clinic'	DTOs, MOs and Supervisors	09.11.2021	Virtual	61
21	Training on 'Guidelines for Programmatic Management of TB Preventive Treatment in India - 2021' via Swastha e-Gurukul platform	Supervisors	23.11.2021	Physical	2

S. No.	Training	Participants title	Date	Virtual/ Physical	No. of Participants
22	Training on 'Guidelines for Programmatic Management of TB Preventive Treatment in India - 2021' via Swastha e-Gurukul platform	Supervisors	25.11.2021	Physical	5
23	Delhi state sensitization cum review meeting on PMDT activities	DTOs, MOs, Nodal officers of CDST labs and DRTB sites	02.12.2021	Hybrid	76
24	Delhi state sensitization cum review meeting of DTOs	DTOs, MOs and supervisors	08.12.2021	Physical	49
25	'Difficult to treat TB clinic'	DTOs, MOs and Supervisors	09.12.2021	Virtual	46
26	Sensitization Workshop for all DTOs of Delhi state NTEP was held regarding Nikshay.	DTOs	10.12.2021	Physical	9
27	Sensitization Workshop for all DTOs of Delhi state NTEP was held regarding Nikshay.	DTOs	13.12.2021	Physical	8
28	Sensitization Workshop for all DTOs of Delhi state NTEP was held regarding Nikshay.	DTOs	14.12.2021	Physical	6
29	Sensitization Workshop for all DTOs of Delhi state NTEP was held regarding Nikshay.	DTOs	15.12.2021	Physical	5
30	Sensitization Workshop for all DTOs of Delhi state NTEP was held regarding Nikshay.	DTOs	17.12.2021	Physical	7
31	'Difficult to treat TB clinic'	DTOs, MOs and Supervisors	05.01.2022	Virtual	51

S. No.	Training	Participants title	Date	Virtual/ Physical	No. of Participants
32	'Difficult to treat TB clinic'	DTOs, MOs and Supervisors	02.02.2022	Virtual	70
33	A sensitization workshop to review and discuss the reasons & issues related to the very high number of notified patients not being initiated on treatment.	DTOs	22.02.2022	Physical	6
34	Sensitization/training workshop to improve public health action for all diagnosed/notified TB cases under Delhi state NTEP	STLSs, MOs, MO-TC	03.03.2022	Physical	7
35	Sensitization/training workshop to improve public health action for all diagnosed/notified TB cases under Delhi state NTEP	STLSs, MOs, MO-TC	04.03.2022	Physical	6
36	Sensitization/training workshop to improve public health action for all diagnosed/notified TB cases under Delhi state NTEP	STLSs, MOs, MO-TC	07.03.2022	Physical	9
37	Delhi state sensitization cum review meeting of DTOs	DTOs and, MOs	08.03.2022	Physical	42
38	Sensitization/training workshop to improve public health action for all diagnosed/notified TB cases under Delhi state NTEP	STLSs, MOs, MO-TC	09.03.2022	Physical	16
39	'Difficult to treat TB clinic'	DTOs, MOs and Supervisors	10.03.2022	Virtual	93

S. No.	Training	Participants title	Date	Virtual/ Physical	No. of Participants
40	Sensitization/ Capacity building workshop Regarding “Packaging and Transportation of Sputum specimens”.	STLSs and LTs	11.03.2022	Virtual	250
41	Sensitization/training workshop to improve public health action for all diagnosed/notified TB cases under Delhi state NTEP	STLSs, MOs, MO-TC	14.03.2022	Physical	11
42	A seSensitization/ meeting was held on 15 th March 2022 at STDC Delhi to review the status of Roll-out and Implementation of TPT Guidelines in 8 Chest Clinics of Delhi	DTOs and, MOs	15.03.2022	Physical	17
43	Sensitization/training workshop to improve public health action for all diagnosed/notified TB cases under Delhi state NTEP	STLSs, MOs, MO-TC	16.03.2022	Physical	13
44	Delhi state sensitization cum review meeting on PMDT activities	DTOs, MOs, Nodal officers of CDST labs and DRTB sites	28.03.2022	Hybrid	51
45	Trainittraining of Trainers for the master trainers to further give training to ASHA workers	Community DOT Providers	29.03.2022	Physical	13
46	Trainittraining programme was held for Community Health Volunteers (CHVs)	Community Health Volunteers (CHVs)	30.03.2022 & 31.03.2022	Virtual	67
					2442

As seen in the above table 2442 NTEP personnel were trained in 46 different batches under training programmes.

Miscellaneous trainings:**Table:****Details of Trainings held for Personnel other than NTEP personnel at New Delhi TB Centre (STDC) from 01st April 2021 to 31st March 2022**

S. No.	Training	Participants title	Date	Virtual/ Physical	No. of Participants
1	Sensitization on "Tuberculosis (TB) and its symptoms and prevention"	Inmates of women hostel	02.04.2021	Physical	30
2	Orientation for laboratory services under NTEP of the staff working under ICMR project	Laboratory Technicians	05.04.2021	Physical	6
3	Initial training of staff of ICMR funded laboratory quality management project	Laboratory Technicians	04.05.2021 to 05.05.2021	Physical	7
4	Training of doctors and LTs of private laboratories regarding Truenat and CBNAAT for COVID 19 testing	Doctors and Laboratory Technicians	10.05.2021	Physical	5
5	Training of doctors and LTs of private laboratories regarding Truenat and CBNAAT for COVID 19 testing	Doctors and Laboratory Technicians	29.06.2021	Physical	6
6	Training of doctors and LTs of private laboratories regarding Truenat and CBNAAT for COVID 19 testing	Doctors and Laboratory Technicians	16.07.2021	Physical	8
7	Training of staff working under ICMR Project entitled "TB prevalence and interventions for reducing TB and LTBI in high-risk key population rickshaw drivers and of construction workers.	Health Workers	19.07.2021	Physical	6
8	Tuberculin testing training of staff working under ICMR Project	Health Workers	19.07.2021	Physical	2

S. No.	Training	Participants title	Date	Virtual/ Physical	No. of Participants
9	Training of doctors and LTs of private laboratories regarding Truenat and CBNAAT for COVID 19 testing	Doctors and Laboratory Technicians	05.08.2021	Physical	5
10	Sensitization programme held for school students	School students	04.09.2021	Virtual	90
11	Training of doctors and LTs of private laboratories regarding Truenat and CBNAAT for COVID 19 testing	Doctors and Laboratory Technicians	08.09.2021	Physical	6
12	Sensitization of PG students about PMDT guidelines organised by Punjab Chest Society	PG students and faculty	08.09.2021	Virtual	82
13	Sensitization programme held for school students	School students	18.09.2021	Virtual	32
14	Sensitization of Medical officers about Paediatric TB Management Essentials organised by Jaipur Golden Hospital	PG students and faculty	18.09.2021	Virtual	95
15	Training of doctors and LTs of private laboratories regarding Truenat and CBNAAT for COVID 19 testing	Doctors and Laboratory Technicians	22.09.2021	Physical	6
16	Sensitization programme held for school students	School students	16.10.2021	Virtual	60
17	Sensitization programme held for school students	School students	04.12.2021	Virtual	35
18	Sensitization programme held for school students	School students	18.12.2021	Virtual	60
19	Training of homeless project staff from Medanta Hospital and Delhi TB Association	Field Workers	21.12.2021	Physical	6

S. No.	Training	Participants title	Date	Virtual/ Physical	No. of Participants
20	Sensitization programme held for school students	School students	15.01.2022	Virtual	73
21	Training of doctors and LTs of private laboratories regarding Truenat and CBNAAT for COVID 19 testing	Doctors and Laboratory Technicians	14.02.2022	Physical	3
22	Sensitization programme held for school students of BCTA School	School students	15.02.2021	Virtual	60
23	Sensitization of students and field workers of Tech Mahindra	students and field workers	15.02.2022	Virtual	95
24	Sensitization programme held for school students of BCTA School	School students	19.02.2021	Virtual	98
25	Training of doctors and LTs of private laboratories regarding Truenat and CBNAAT for COVID 19 testing	Doctors and Laboratory Technicians	25.02.2022	Physical	5
26	Interactive and Sensitization Session organised for teachers of St. Francis School of Delhi, Mumbai and Calcutta on Tuberculosis and Communicable Diseases	Teachers	05.03.2022	Virtual	30
27	Sensitization of community health workers on completion of project "Project Kaushalarjan"	Community health workers	14.03.2022	Physical	30
28	Training programme for the instructors / volunteers who are working as Community Dot Provider under the project Gurukul of NGO BCTA	Community Dot Provider	17.03.2022	Physical	19
	Total				960

A total of 960 personnel were trained in 28 batches under training programmes for staff other than NTEP like school children, community volunteers, teachers etc.

Table:

Details of Trainings held for nursing students of different colleges at New Delhi TB Centre (STDC) from 01st April 2021 to 31st March 2022

S. No.	Training	Participants title	Date	Virtual/ Physical	No. of Participants
1	NTEP sensitization programme for Nursing Students from Galgotia College of Nursing	Nursing students	14.08.2021	Virtual	154
2	NTEP sensitization programme for B.Sc. Nursing Students from Holy Family College of Nursing	Nursing students	21.10.2021	Virtual	112
3	NTEP sensitization programme for B.Sc. Nursing Students from Faculty of Nursing, SGT University	Nursing students	16.11.2021	Virtual	588
4	NTEP sensitization programme for Nursing Students from RAK College of Nursing	Nursing students	23.03.2022	Physical	22
5	NTEP sensitization programme for Nursing Students from Salokaya College of Nursing	Nursing students	23.03.2022	Physical	42
6	NTEP sensitization programme for Nursing Students from Salokaya College of Nursing	Nursing students	24.03.2022	Physical	39
	Totat				957

A total of 957 nurses from various colleges of the NCR region of Delhi State, were trained on various aspects of tuberculosis

Medical students from Maulana Azad Medical College

New Delhi Tuberculosis Centre is also engaged in training and guiding of postgraduate students posted from the Maulana Azad Medical College, Department of community medicine. A one week posting for all post-graduate students, whereby they were posted in various departments of NDTB Centre round the year. Idea behind this is to equip the students with the recent guidelines and functioning of NTEP along with a practical exposure. The exposure covered various topics like Nikshay, DRTB management, TB notification and its significance, clinical management of TB patients etc. Interns of MAMC are posted in the Clinical Section of NDTB round the year whereby they are exposed regarding NTEP, DR TB management and functioning of DOTS centre. This year 163 interns were posted at NDTB between April 2021 to March 2022 and were trained/sensitized on various aspects.

Trainings/Sensitization held for Medical interns of Maulana Azad Medical College at New Delhi TB Centre (STDC) from 1st April, 2021 to 31st March 2022

S.No.	Month	No. of Participants
1.	October, 2021	47
2.	November, 2021	24
3.	December, 2021	22
4.	January, 2022	24
5.	February, 2022	22
6.	March, 2022	24
	Total	163

Difficult to Treat TB Clinic (D3T)

PMDT Guidelines 2021 recommends all states to start Difficult to Treat TB Clinic (SD3T). All District TB Officers, Medical Officers and Private Practitioners in the state can send their difficult to manage drug resistance cases for discussion in the SD3T Clinic. Faculty from state academic institutes and leading private practitioners are chosen expert for the session. The cases are referred to this clinic in the PPT form in a standard pre-designed format. This is assigned to one of the experts for their opinion. During the session, referring doctor presents the details of case history including medical and treatment history with all the investigations and follow up details and then presents the issues encountered in managing the particular case. All the participants (DTOs, MOs and Supervisors) of the state attending the session also gives their opinion and share their experience in managing such cases. After this, experts give their suggestions in managing the case. At the end session coordinator prepares recommendations for the case management which is sent to the doctor who presented the case.

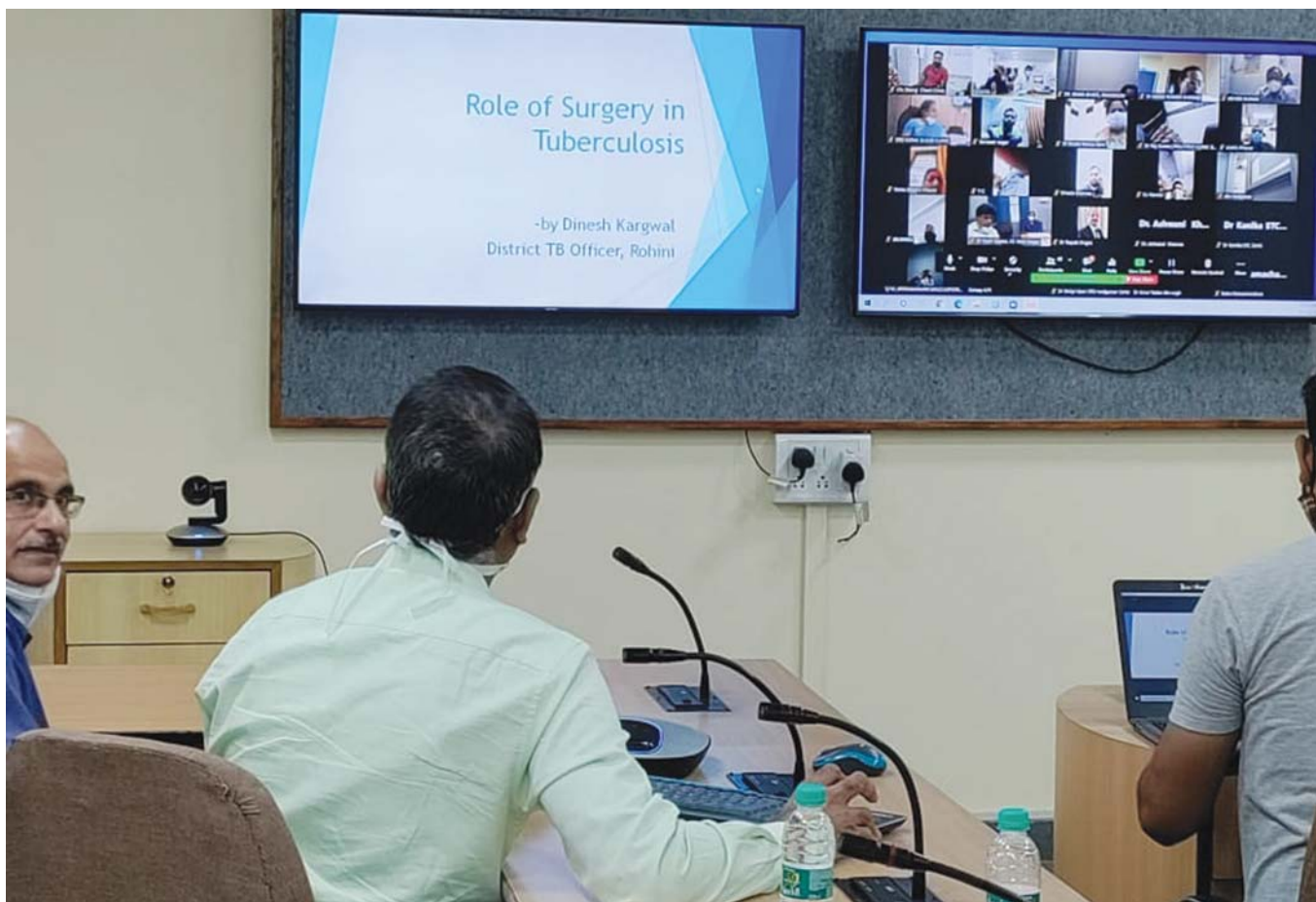
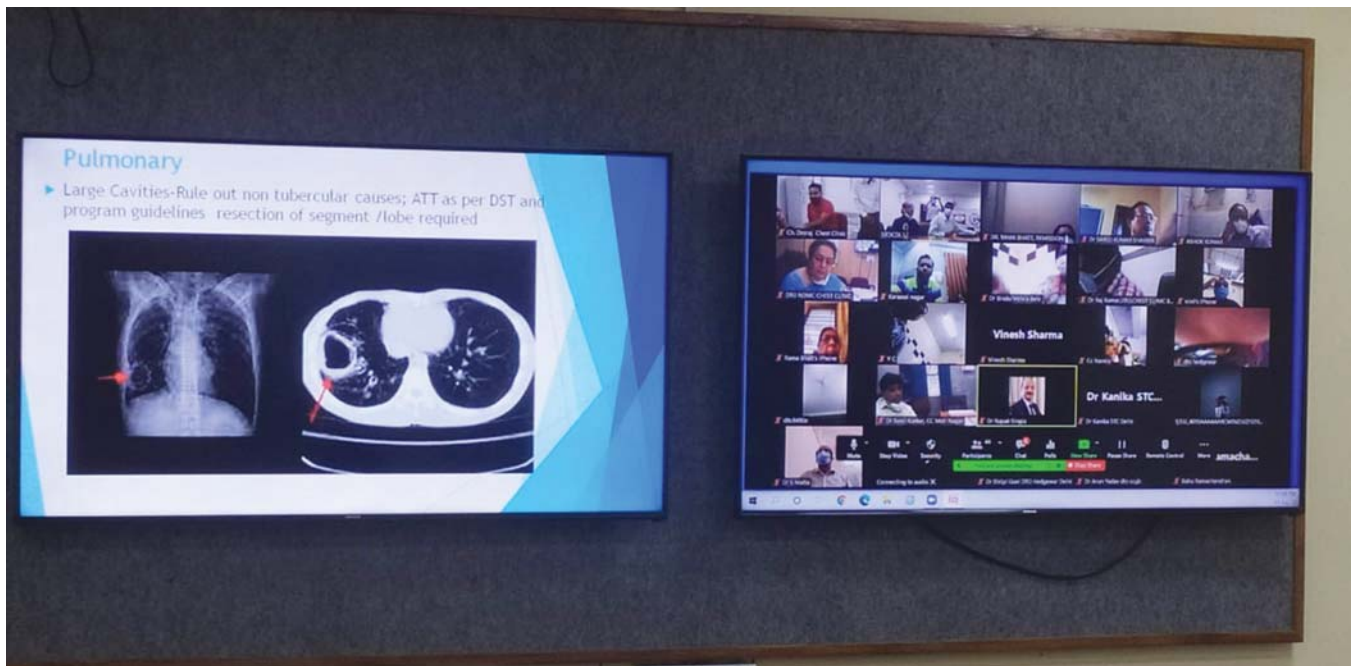
In Delhi state, this SD3T is being conducted on Delhi state STDC ECHO Hub and managed by faculty of New Delhi TB Centre since August, 2011.

Actually from the start of STDC ECHO Hub in 2017, a case based clinical discussion for para medical staff was being conducted every first Wednesday of month. As per PMDT 2021 guidelines, now this has been renamed as SD3T clinic and now participants include DTOs, MOs and private practitioners. Second part of SD3T is didactics, usually related to the case presented or any about latest aspect of TB management to be delivered by faculty of NDTB Centre, medical colleges and other academic institutes of Delhi state.

List of D3T clinics held from STDC Hub during 2021-22

S.No.	Date	Case presentation by	Didactic by
1.	11.8.2021	Dr. Abbas, Medical Officer of LN DRTB site	Dr. K.K. Chopra, Director, NDTBC on Tuberculosis Preventive Treatment.
2.	1.9.2021	Dr. Shilpi Goel, DTO of Hedgewar Hospital	Dr. Dinesh, DTO, Ch. Deshraj Hospital on “Surgical Management of Tuberculosis”.
3.	6.10.2021	DTO, Shastri Park Chest Clinic.	Dr. Kaushal, Microbiologist, NDTB Centre on “Infection Control measures in TB settings”
4.	9.11.2021	DTO, SPM Chest Clinic.	Dr.Bala Menon, Director Professor Pulmonary Medicine, V.P. Chest Institute on “Radiological imaging in Tuberculosis’
5.	9.12.2021	Dr. Umesh, DTO, Nehru Nagar Chest Clinic.	Dr.Parveen, NTEP Consultant on “TPT & Prevent TB App.”
6.	5.1.2022	Dr. Sunil Kumar, DTO, Moti Nagar Chest Clinic.	Dr.Aman Gupta, NTEP Consultant on “Recent changes in NTEP”
7.	2.2.2022	Dr. Deep Mani, DTO, Malviya Nagar Chest Clinic.	Dr. Khalid, DTO, NITRD on “Recent additions in NTEP”
8.	10.3.2022	Dr. Bakshi, DTO, NDMC Chest Clinic.	Dr.B.K. Vashisht, STO Delhi on “E-learning modules”

D3T TB Clinic at STDC



Analysis of Quarterly Reports of NTEP

Compilation and preparation of quarterly reports (Sputum Conversion, Treatment Outcome and Programme management) of all chest clinics under NTEP of Delhi state and their feed back is one of the major activities of STDC. The analysis of the quarterly report for each chest clinic in Delhi is carried out and the feed back, which includes necessary instructions for improvement is prepared and are discussed at the quarterly review meetings with the District TB Officers.

District Wise Total TB Case Notification in Delhi State from 1/1/2021 to 31/12/2021

S.No	Name of Chest Clinic	TB Cases Notified from Public Sector	TB Cases notified from Private Sector
1	Bijwasan	1094	818
2	BJRM Chest Clinic	1851	268
3	BSA Chest Clinic	2638	17827
4	CD Chest Clinic	1413	374
5	DDU Chest Clinic	1371	775
6	GTB Chest Clinic	3114	680
7	GulabiBagh	2569	983
8	Hedgewar Chest Clinic	703	129
9	Jhandewalan	1259	370
10	Karawalnagar	792	112
11	KCC	2573	957
12	LN Chest Clinic	3080	538
13	NITRD	3395	317
14	MNCH Chest Clinic	13640	1278
15	Moti Nagar	3133	581
16	Narela	2409	1373
17	NDMC	4931	229
18	Nehru Nagar	3873	2106
19	Parparganj	3937	752
20	RK Mission	659	1168
21	RTRM Chest Clinic	1769	326
22	SGM Chest Clinic	2592	170
23	Shahadara	2009	780
24	SPM Marg	907	898
25	SPMH Chest Clinic	2567	1773
	Total	68278	35582

In all a total of 1,03,860 cases were notified from Delhi State which includes 68,278 cases from Public sector and 35,582 from private sector from 1st January 2021 to 31st December, 2021.

Analysis of Quarterly reports of NTEP

Every quarter analysis of programme indicators is done based on the data in Ni-kshay portal. The findings are compiled and discussed in review meeting with District TB officers, state TB cell staff, NGOs and partners associated in NTEP activities in the state. Some salient features of NTEP activities reviewed during the year are:

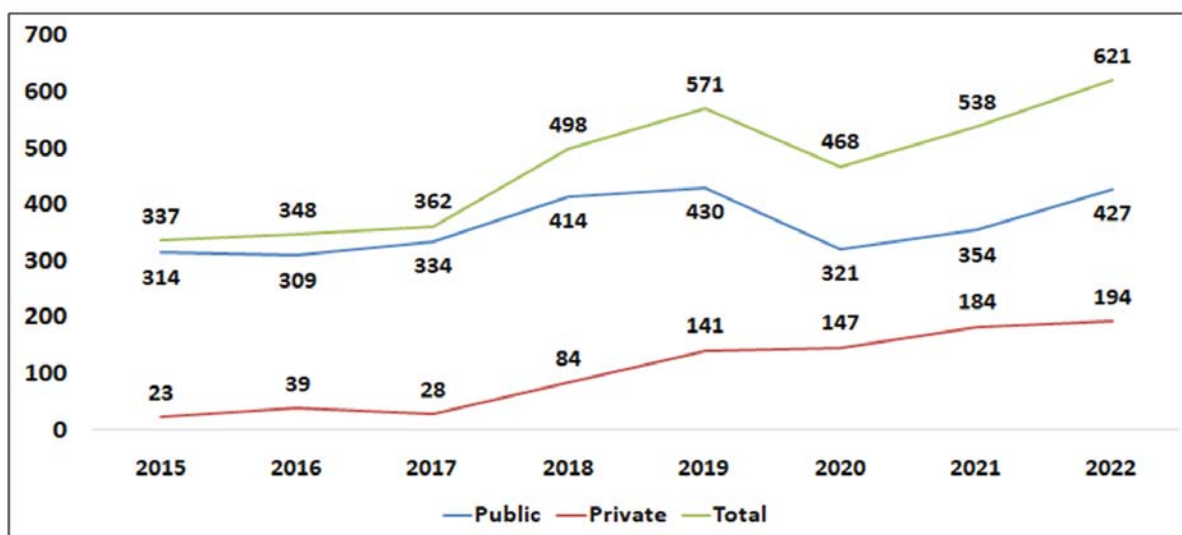
Presumptive TB Examination Rate (Per Lakh)



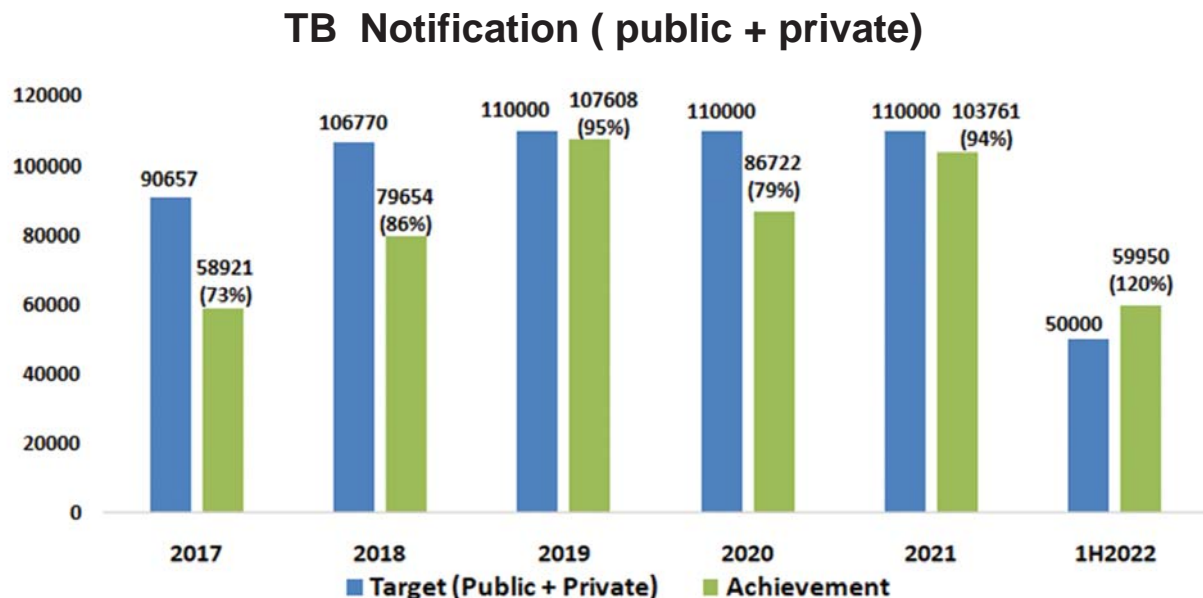
There has been increase in the presumptive TB examination rate since 2018 with introduction of rapid molecular diagnostic tests. There was sudden fall in rate during 2020-2021 due to covid pandemic which has picked up during first half of 2022.

Annualized TB case notification rate

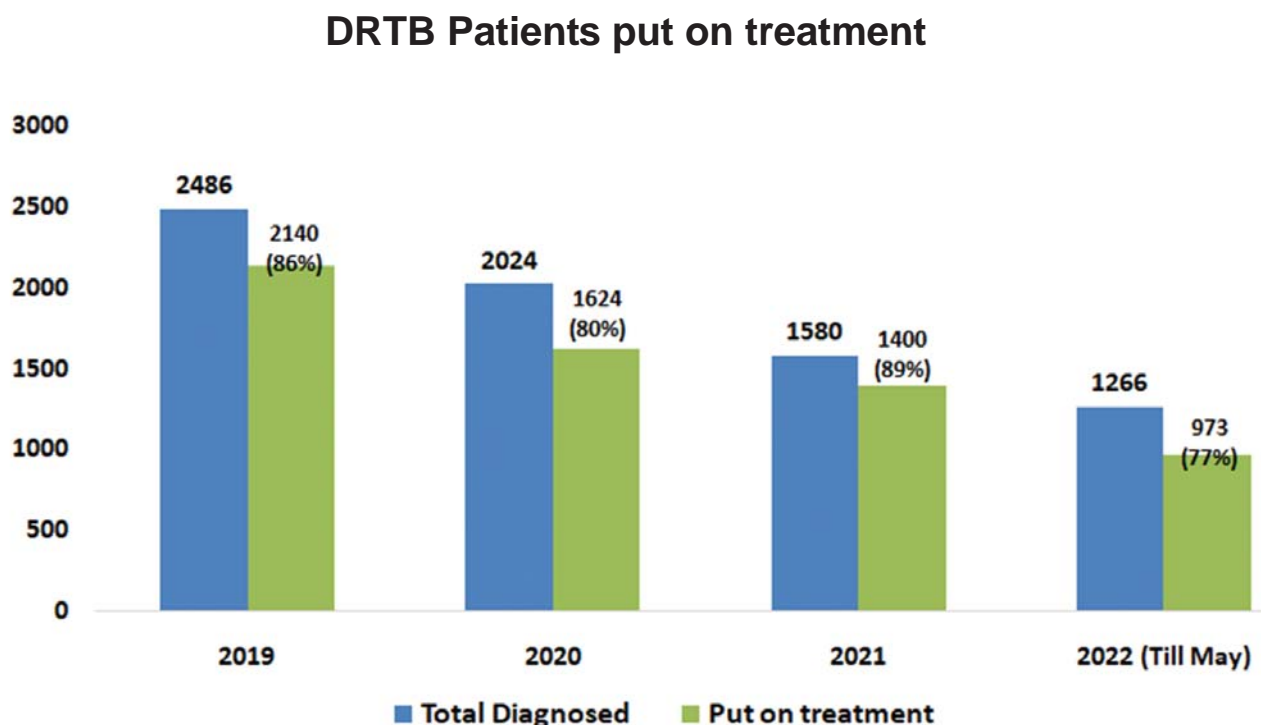
Annualized TB case notification rate (Per Lakh)



There has been steady increase in TB Case notification rate both from public and private sector except slight decline in last part of 2019 and 2020 due to covid pandemic and since then it has picked up.

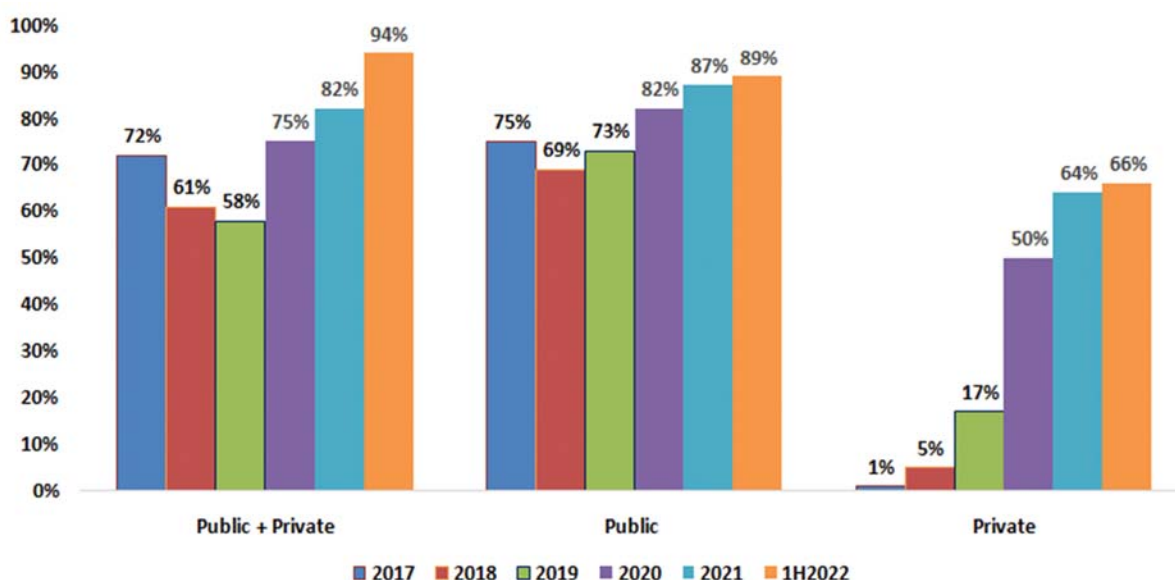


There has been steady increase in TB notification with reference to the target set for the state. Actually there has been 120% achievement in the initial part of year 2022.



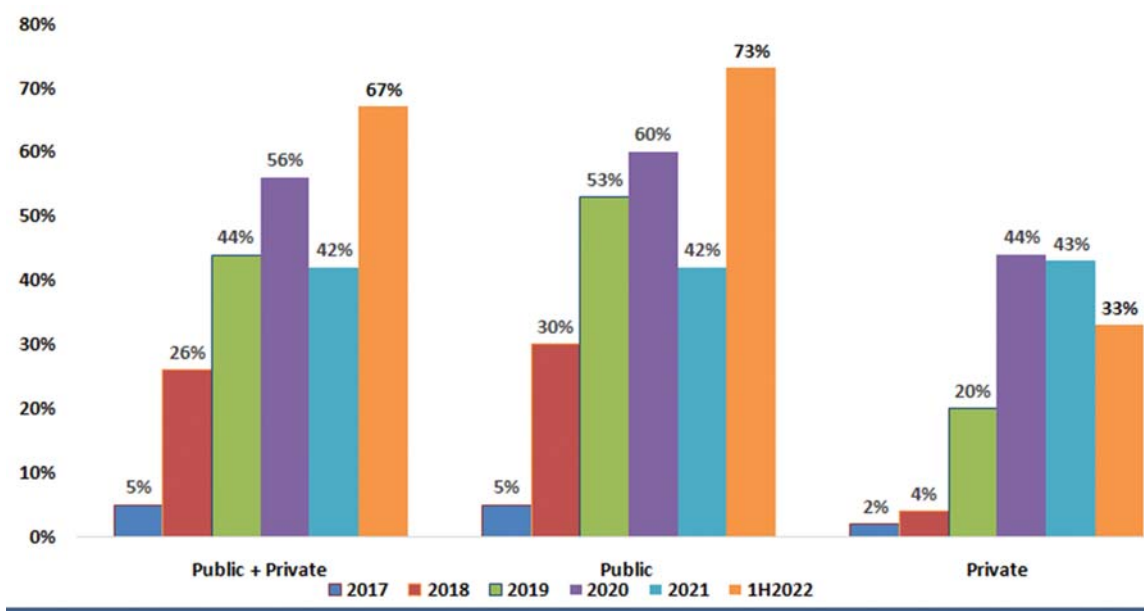
The bar chart shows DRTB patients put on treatment in our state among the diagnosed ones. Rate is less as many patient from neighboring states come to Delhi for diagnosis (Because of better facilities) and are then referred to their native place for treatment.

HIV status



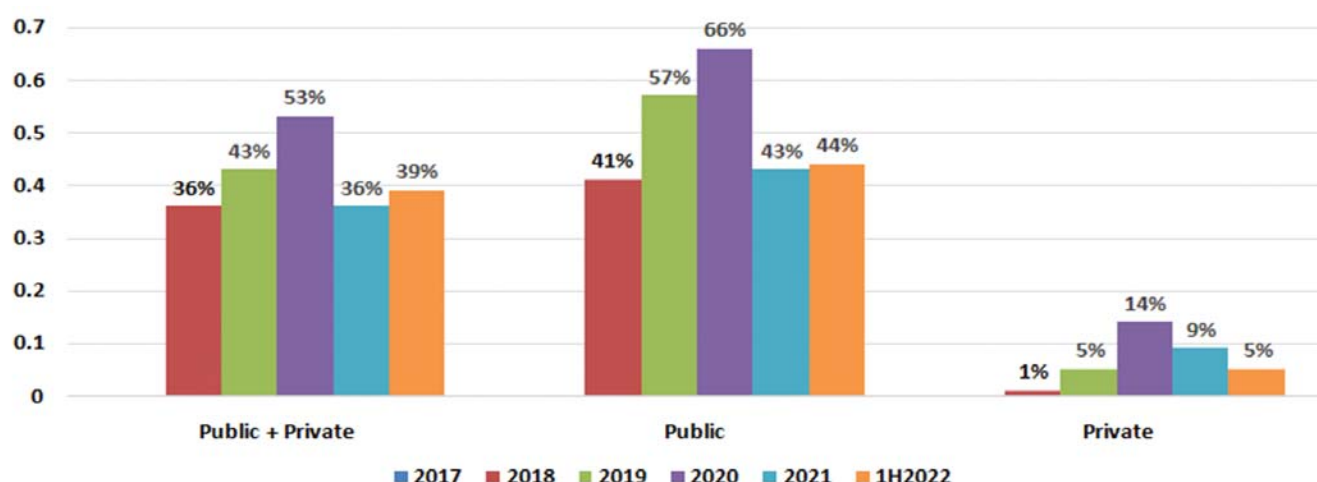
The chart shows number of registered TB cases with known HIV status. More than 90% of registered TB cases in our state are known their HIV status. (Both public and private). This is important because if TB patient is co-infected with HIV, they are also put on ART so as to achieve better treatment outcome.

Universal drug susceptibility testing (UDST) Status



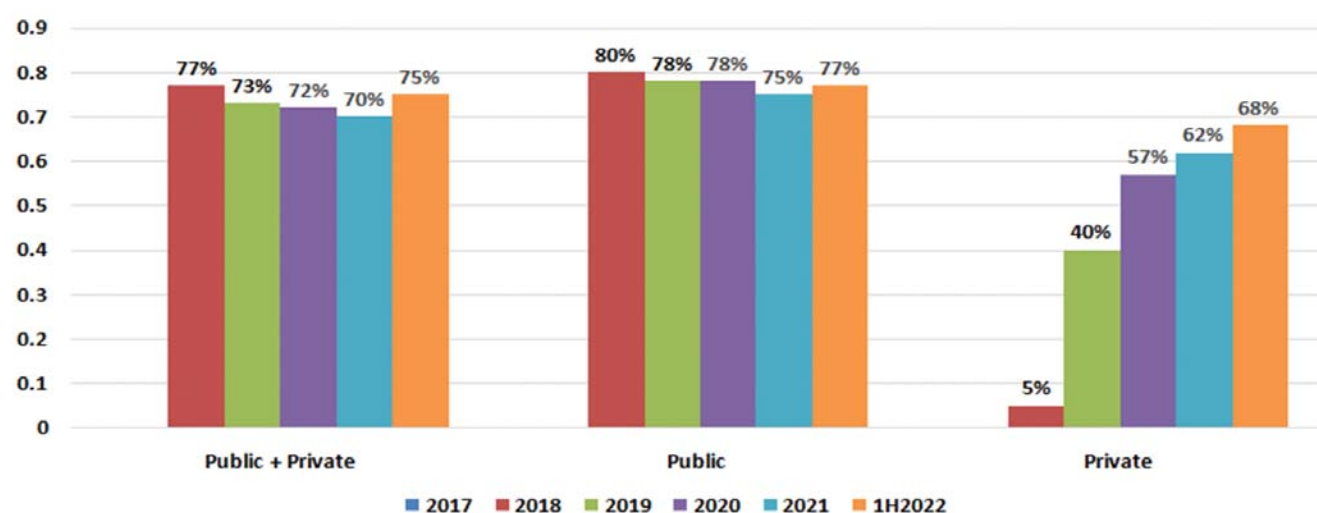
This chart shows proportion of diagnosed TB cases with their DST status known (at least resistance to Rifampicin) so as to put the patient on appropriate treatment. 67% of total TB cases in our state know their UDST status (Both public and Private)

Ni-kshay Poshan yojana (NPY) Status



This shows proportion of TB cases who have been paid at least one installment of NPY (Money for nutritional support to TB patient by direct Bank transfer). A total of 39% cases (Both public and private) have received this benefit.

Treatment outcome status



The charts shows successful treatment outcome during the last years. It is around 75% (combined public and private). It is low because under NTEP, we calculate outcome among the diagnosed cases but in Delhi at least 30% case are for neighboring states, who are referred after diagnosis and it is difficult to collect their treatment outcome.

TB Preventive Therapy (Jan-June 2022)

Total HHC of DSTB Pulmonary Microbiologically Confirmed	Total Eligible for TPT	Total Initiated On TPT	% Achievement of Initiated on TPT
20054	3237	2882	89%

Under NTEP all the household contacts of microbiologically confirmed TB case are given drug to prevent TB, after ruling out active TB. Upto 89% household contacts were put on TPT during the period.

CLINICAL SECTION

The Clinical Section is an integral part of NDTB Centre built in 1940. It was set up as a prototype of a Model TB Clinic. It is dedicated to provide the best conceivable health services to all the patients. It is distinguished as a Super-specialty referral OPD for all complicated and difficult cases within the State and neighboring states of Delhi.

In addition to being a clinic within a State-level TB Centre, we also cater to patients having diverse pulmonary conditions, ranging from Asthma, COPD, Pneumonia, ILD, HSP, ABPA, Sarcoidosis, Pulmonary hydatidosis and Malignancy, along with all cases of undiagnosed, extra pulmonary TB as well. The OPD runs on a daily basis (six days a week), from 9:00 a.m. to 1:00 p.m. along with the radiological department and pharmacy.

A special COAD clinic is run by the clinical section. It provides patient centric solutions and relief to all cases of airway obstruction on an OPD basis.

The year 2021-2022 saw a continuation of the Covid19 pandemic, with the delta wave creating havoc all around. It resulted in many challenges, including a constant risk of exposure and infection to all the health care workers, high levels of stress, social disruption and uncertainty.

Adapting to the prevailing health crisis, we strengthened our protocols, providing uninterrupted services to all patients throughout these testing times.

We had an OPD attendance of 16325 in the last twelve months. Our special COAD Clinic provided solutions of 767 patients. Our radiology services were also ongoing throughout the year and 2170 chest x-rays were done.

In addition to patient care, the clinical section has a key role in providing hands-on training and teaching to medical and Para-medical staff, with opportunities for professional development. In the last one year, 163 Interns and MBBS graduates of MAMC have been trained here. They attended regular teaching activities, including 12 seminars and 24 clinical case discussions, 18 Journal Reviews and 16 Case Reviews. Hypersensitivity Pneumonitis, COVID-19 and post COVID was the key focus areas for the doctors of the clinical section in this year.

All basic skills of history-taking, clinical examination, interpretation of chest X-ray, and all relevant diagnostic tests and treatment skills are imparted to them. Hands on clinical training in the field of pulmonary medicine, radiology and TB are the strong point of the OPD running at the centre. Due emphasis on history taking and correct diagnosis involving basic clinical skills and radiology along with sputum examination is followed as a basic protocol

The following seminars / case discussions / reviews were conducted this year:-

CLINICAL SKILLS

1. Nuances of history taking
2. Common pulmonary signs
3. How to approach chronic cough
4. Differentials of hemoptysis
5. Chest X-ray reading
6. Pulmonary function test interpretation

TUBERCULOSIS

1. Laboratory diagnosis of TB
2. New diagnostic tests
3. TB in special conditions: liver disease, renal failure
4. TB in special populations: children, pregnancy and elderly
5. Side-effects of ATT, co-morbidities in TB
6. Management of Drug Resistant TB (MDR & XDR)
7. Extra-pulmonary TB
8. TPT- TB prevention treatment

OTHER

1. COVID-19: Clinical presentation and diagnostic tests
2. CSS in COVID
3. Mutant strains Covid-19
4. Post COVID
5. Bronchiectasis
6. Pleural effusion
7. Hypersensitivity Pneumonitis
8. GINA guidelines
9. GOLD guidelines
10. Community acquired pneumonias
11. Pulmonary Rehabilitation

Total OPD Attendance during the year (2021-2022)

Sl. No.	Month	OPD Attendance			Special OPD (COAD)	X-ray
		New OPD	Re-visits	Total		
01	April 21	283	275	558	27	126
02	May 21	108	89	197	33	61
03	June 21	170	117	287	47	142
04	July 21	521	389	910	67	136
05	August 21	730	651	1381	73	209
06	Sept 21	1252	1187	2439	74	224
07	Oct 21	1129	1125	2254	74	228
08	Nov 21	862	874	1736	74	204
09	Dec 21	664	646	1310	98	240
10	Jan 22	388	418	806	53	133
11	Feb 22	699	637	1336	64	183
12	March 22	1111	1037	2148	83	284
	Total	7917	7445	15362	767	2170

EPIDEMIOLOGICAL SECTION

Epidemiology section is involved in activities related to NTEP programme monitoring and evaluation of Delhi state. The activities are analyzed, compiled and present in state and national level review. From this year, even PHI wise district reviews have also be started, wherein district TB level performance indicators are assessed at each PHI in district so as to find out PHI lacking in performance and sort out if an issues are there for the low performance. Details of this activity during the year are given in the monitoring and supervision section.

One of the major achievements of Epidemiology section this year was the initiation of trainings on Swasth e Gurukul platform whereby first batch of ASHA workers from 5 chest clinics of Delhi were trained with the help of the Union and the ECHO India team.

NDTB CENTRE-STDC ECHO TB HUB

Extension for Community Health Outcomes (ECHO) endeavors to transform the public health knowledge network in India thereby impacting lives of millions of people in the country. ECHO India also partnered with the Central TB Division (CTD) under the Ministry of Health and Family Welfare, Government of India to deliver upon their request to initiate TB ECHOs across the country to support the National Tuberculosis Elimination Programme (NTEP) program and responded to that by strengthening the technological capacities of the State TB Cell (STC) and the State TB & Demonstration Centre (STCD) by equipping them and thereafter, providing continuous support to achieve the Government of India's (GOI) aim of eliminating TB by 2025. Efforts are on to make use of e-module and frequent use of ECHO platform for trainings & review sessions.

Student Posting

An integral part of the Epidemiology section is the posting of post students from Maulana Azad Medical College and Jamia Hamdard University. The students gain a valuable experience during these postings whereby they are sensitized about the tuberculosis programme. This year a student from Jamia Hamdard University was posted at New Delhi Tuberculosis in February 2022 .She was posted in various departments of the centre to learn the various aspects of tuberculosis by interactive sessions.

Screening of staff from various organizations

Screaming of staff for TB from various organizations is a yearly activity undertaken by the centre. Staff from various embassies, National zoological park and other organizations visit the centre on fixed days and time and are screened for TB. Presumptive cases are accordingly referred to the chest clinics. This year due to Covid19 restrictions the staff from various organizations could not visit the centre for screening.

PUBLIC HEALTH SECTION

Public health section works with the aim to improve health of public having personnel like public health nurse, medical social worker and multipurpose health worker to accomplish the said goals. They are involved in planning of various intensified programmes on TB with specific objective to improve public health through various community based programmes. The activities of the section are as follows:

School Health Activity

Public health section works with the aim to improve health of public. During the year, the the staff from Public Health section was majorly involved in training and sensitizing school children from various schools of Delhi. This was a major activity whereby apart from children, school staff and teachers were also trained to identify and refer TB chest symptomatics to the nearby chest clinic. Two sensitization sessions every month targeting children from various schools of Delhi were conducted.

More than sixty students of class 9th to 12th were sensitize regarding TB, its precaution and treatment followed with question answer session on TB by health staff of NDTB Centre. Seven staff team leaders of SPYM (Society for promotion of youth and masses) were sensitized regarding various aspects of tuberculosis disease on 9/3/2021 followed by group discussion.

Health talk

Various tools are used to create awareness amongst masses. One of them is health talk. Health talk is about talking to individual on different issues, focusing on certain points to make them aware that how important it is for an individual to maintain good health. Keeping this thought in mind health talk on TB on regular basis is delivered in the OPD hall by the health staff of Public Health Section.

TB awareness

Round the year TB awareness activities are conducted through health talks given to vulnerable groups well as general population with the help Nukkad natak/dramatics, lectures, flipcharts, painting competitions etc

TB Supervisors course

TB supervisor course is a 3 month long course conducted by the NDTB. The Public Health section in association with clinical section is undertaking the TB Supervisor course. It is a three month duration course whereby students from various parts of the country are selected. The course covers various aspects of Tuberculosis whereby teaching, practical training, field visits and demonstrations. The students are rotated in various departments of the Centre which include the epidemiology section, clinical section, DOTS centre and Mantoux room. They are also involved in various activities of the Centre like giving health talk to patients to build up their confidence, counseling patients etc. At the

end of the course, a practical as well as a theory examination is taken and after successful completion of the course, students are awarded a completion course certificate. The course accredited by the NTEP. During the 3 months period students were sensitized about:

- Tuberculosis
- NTEP
- General aspects about TB including community based interaction
- Role of TB Supervisors in NTEP

Patient Provider Meetings

Supervised treatment refers to helping patients to take their TB medication regularly and to complete TB treatment. It is also meant to ensure that the providers give proper care and are able to detect treatment interruption. Patient provider meetings ensure that patients take: RIGHT ATT at RIGHT DOSE at RIGHT INTERVALS. In the DOT Centre, patient provider meeting is done weekly by para medical staff.

Community Meets

The community meetings under NTEP are regularly arranged throughout the state. At NDTB also these meets are conducted on a regular basis. These meetings are mobilized by the staff of NDTB/ students. On an average, about 20-30 patients on treatment/cured TB patients and their family members are present in each meeting to share their experiences regarding treatment facilities and remove any doubts regarding the treatment. Idea behind this activity is to create mass awareness regarding Tuberculosis and its treatment.

During the year 26 health talks, 24 PPM meets, 5 community meets and 10 miscellaneous meets (Total 65) were conducted.

Mantoux Test

Mantoux test is done at NDTB Centre. Apart from being referred from the OPD of NDTB; the patients are also referred from various government hospitals as well as by private practitioners for Mantoux screening. During the period of April 2021 to March 2022, 6409 Mantoux tests were done at the NDTB Centre. Out of these; results of 5777 patients were available of which 3661 were reactors >10mm and 2116 were <10mm.

Tuberculin skin test report for the period April 2021 to March 2022

Month	Total test	Test read	Reactors >10mm	Reactors <10mm
April,21	192	176	89	87
May,21	14	12	7	5
June.21	23	19	11	8
July,21	324	289	176	113
August,21	597	525	299	226
September,21	1188	1049	535	514
October,21	1007	925	544	381
November,21	747	688	509	179
December,21	539	483	313	170
January.22	312	283	202	81
February,22	551	501	382	119
March,22	915	827	594	233
Total	6409	5777	3661	2116

World TB day Celebrations:

Every year we celebrate world TB day in form of World TB week where we conduct different activities on TB throughout the week and then conclude our programme at the valedictory by giving prizes to winner. This year “Azadi Ka Amrit Mahotsav” an iconic one week long programme from 3rd to 9th January 2022 was celebrated along with the World TB Day-2022 celebration. World TB Day was celebrated on a much larger scale where we organized a month long programme, which started from 23rd February 2022 - 28th March 2022. New activities like tree plantation along with release of collage made up by the staff of NDTB and LNJP hospital on TB perspective by TB legends was released,

This year, the centre linked with an NGO by the name of “Second Act” working in Delhi funded by Plan India. The “Plan India” trains the staff of pink toilets of MCD managed by Second Act in all zones of Delhi. 18 pink toilets in different zones of Delhi are being managed by Second Act and they provide capacity building/ training for women, book club, breast feeding, sanitary pad disposal etc. Further staff of these pink toilets helps women who visit them in their areas. They have created a very nice and soothing atmosphere of pink toilets where women have separate kitchen for tea and coffee, separate book reading space, separate place for breast feeding of child, just to provide different feeling to women who visits pinktoilets for spending some quality time away from their home worries.

World TB day 2022



World TB day 2022



Other key activities during the Anti TB month

- Health talk in house : 32
- PPM (Patient Provider meeting) : 32
- External Health talk : 6
(Bachoon Ka Ghar (orphan age home))

SPYM (Centre of drug addiction children) Male and Female.

- Community meets : 2 (Roshan Pura, Hauz Qazi)
- Metro station TB Sensitization : 3 Times
- Tree plantation by DOTS patients : 7 (plants)
- TB Sensitization to streets workers : 3
- Sensitization of pink toilet staff built & maintained by MCD for community. : 1

Anti TB Week Celebration

Every year in the month of March we celebrate Anti TB week to celebrate World TB Day i.e. on 24th March, 2022. Keeping in mind the current Covid-19 scenario this year we celebrated the above said week in bit different manner between 22nd February, 2022 to 28th March 2022. Due to Covid19 pandemic this year all the health programmes were organized at different destination by their own staff, except inaugural and valedictory function and we had provided them the facilitation how to conduct different programme to avoid inmates travelling to NDTB Centre.

Following were the programmes

- Painting competition
- Poem Competition
- Slogan Competition
- Health Talk
- Community meet

World TB day 2022



World TB day 2022



World TB day 2022



Activities carried out during the month on the occasion of World TB Day Celebration 2022

22nd February 2022 to 28th March 2022 for general awareness of TB

S. No.	Name of Activity	Date's & Time	Place	Objective	No. of Beneficiaries
1.	Health Talk	22.2.2022 9.00 a.m.	NDTBC	To generate awareness	15
2.	PPM (Patient Provider meeting)	22.2.2022 10.00 a.m.	NDTBC	To generate awareness	6
3.	Health Talk	23.2.2022 10.30 a.m.	SPYM (M)	TB awareness	25
4.	Health Talk	23.2.2022 9.00 a.m.	NDTBC	To generate awareness	20
5.	PPM (Patient Provider meeting)	22.2.2022 10.00 a.m.	NDTBC (DOT Centre)	TB awareness	6
6.	Community meet	24.2.2022 3.00 p.m.	Roshanpura, Nai Sarak	TB awareness	12
7.	Health Talk	23.2.2022 9.00 a.m.	NDTBC	TB awareness	19
8.	PPM (Patient Provider meeting)	24.2.2022 10.00 a.m.	NDTBC (DOT Centre)	TB awareness	5
9.	Tree plantation by DOTS Patients	24.2.2022 11.30 a.m.	NDTBC Garden	To tell them the importance of plants	4
10.	Health Talk	25.2.2022 9.00 a.m.	NDTBC	To generate awareness	20
11.	PPM (Patient Provider meeting)	25.2.2022 10.00 a.m.	NDTBC (DOT Centre)	TB awareness	7
12.	Slogan writing by patients	26.2.2022	DOT Centre	TB awareness	2
13.	Health Talk	28.2.2022 9.00 a.m.	NDTBC	To generate awareness	9
14.	PPM (Patient Provider meeting)	28.2.2022 10.00 a.m.	NDTBC (DOT Centre)	TB awareness	3
15.	Health Talk	3.3.2022 9.00 a.m.	NDTBC	To generate awareness	15

S. No.	Name of Activity	Date's & Time	Place	Objective	No. of Beneficiaries
16.	PPM (Patient Provider meeting)	3.3.2022 10.00 a.m.	NDTBC (DOT Centre)	TB awareness	2
17.	TB sensitization to street hawkers in front of TB Centre	3.3.2022 10.00 a.m.	TB Centre and LNJP gate	TB awareness	12
18.	Health Talk	4.3.2022 9.00 a.m.	NDTBC	To generate awareness	8
19.	PPM (Patient Provider meeting)	4.3.2022 10.00 a.m.	NDTBC (DOT Centre)	TB awareness	4
20.	Health Talk	5.3.2022 9.00 a.m.	NDTBC	To generate awareness	10
21.	PPM (Patient Provider meeting)	5.3.2022 10.00 a.m.	NDTBC (DOT Centre)	Address patients enquiries	3
22.	Poem writing	5.3.2022	DOT Centre	Making them aware of disease	4
23.	Health Talk	7.3.2022 9.00 a.m.	NDTBC	To generate awareness	5
24.	PPM (Patient Provider meeting)	7.3.2022 10.00 a.m.	NDTBC (DOT Centre)	TB awareness	3
25.	Health Talk	8.3.2022 9.00 a.m.	NDTBC	To generate awareness	10
26.	PPM (Patient Provider meeting)	8.3.2022 10.00 a.m.	NDTBC (DOT Centre)	TB awareness	1
27.	Health Talk	9.3.2022 9.00 a.m.	NDTBC	TB prevention	8
28.	PPM (Patient Provider meeting)	9.3.2022 10.00 a.m.	NDTBC (DOT Centre)	TB prevention	2
29.	Health Talk	10.3.2022 9.00 a.m.	NDTBC	TB treatment	6
30.	PPM (Patient Provider meeting)	10.3.2022 10.00 a.m.	NDTBC (DOT Centre)	TB treatment	3

S. No.	Name of Activity	Date's & Time	Place	Objective	No. of Beneficiaries
31.	Health Talk	11.3.2022 9.00 a.m.	NDTBC	TB drug side effects	12
32.	PPM (Patient Provider meeting)	11.3.2022 10.00 a.m.	NDTBC (DOT Centre)	TB drug side effects	3
33.	Health Talk	12.3.2022 9.00 a.m.	NDTBC	TB introduction	13
34.	Poem writing	12.3.2022	DOT Centre	To increase TB awareness amongst patients	3
35.	Health Talk	14.3.2022 9.00 a.m.	NDTBC	To generate awareness of TB amongst masses	10
36.	PPM (Patient Provider meeting)	14.3.2022 10.00 a.m.	NDTBC (DOT Centre)	Discussion on TB medicine	3
37.	Community awareness talk at metro station Delhi gate	14.3.2022 11.30 a.m.	Gate no. 2, Metro station Delhi gate	To educate people about disease	11
38.	Community awareness talk/ discussion	14.3.2022 12.00 a.m.	In front of NDTBC with street hawkers	To generate awareness of TB amongst masses	6
39.	Health Talk	15.3.2022 9.00 a.m.	NDTBC	TB information should reach to all who visits NDTBC	10
40.	PPM (Patient Provider meeting)	15.3.2022 10.00 a.m.	DOTS Centre	Patient awareness (they need repeated interventions from us)	3
41.	Health Talk	16.3.2022 9.00 a.m.	NDTBC	Community awareness	22
42.	PPM (Patient Provider meeting)	16.3.2022 10.00 a.m.	DOTS Centre	Discussion regarding this disease	4
43.	Health awareness talks with community people at road side	17.3.2022 12.00 a.m.	At the gate of NDTBC	Discussed TB and its harmful effects	16

S. No.	Name of Activity	Date's & Time	Place	Objective	No. of Beneficiaries
44.	PPM (Patient Provider meeting)	17.3.2022 10.00 a.m.	DOTS Centre	To give repeated information so that they capture it clearly	5
45.	Health Talk	19.3.2022 9.00 a.m.	NDTBC	To sensitize regarding TB	14
46.	PPM (Patient Provider meeting)	19.3.2022 10.00 a.m.	DOTS Centre	Enhanced the need of treatment	3
47.	Painting competition along with health talk on TB for children	19.3.2022 12.00 a.m.	SPYM (Male)	To generate TB awareness amongst children by organizing such activity	20
48.	Health Talk	21.3.2022 9.00 a.m.	NDTBC	To sensitize audience	10
49.	PPM (Patient Provider meeting)	21.3.2022 10.00 a.m.	DOTS Centre	To discuss TB treatment related issues of patients	5
50.	Slogan competition on TB	21.3.2022 12.00 a.m.	SPYM (F)	Making these under privileged children aware of disease	20
51.	Health Talk	22.3.2022 9.00 a.m.	At the gate of NDTBC	To generate TB awareness amongst in general public about TB	9
52.	PPM (Patient Provider meeting)	22.3.2022 10.00 a.m.	DOTS Centre	TB patients were cleared their doubts regarding treatment	4
53.	Health awareness meet	22.3.2022 9.00 a.m.	At the gate of NDTBC	TB sensitization	13
54.	PPM (Patient Provider meeting)	23.3.2022 10.00 a.m.	DOTS Centre	TB awareness	5
55.	Health Talk	24.3.2022 9.00 a.m.	NDTBC lawns	By using flash cards visitors were explained facts about TB and how to protect from TB	30

S. No.	Name of Activity	Date's & Time	Place	Objective	No. of Beneficiaries
56.	PPM (Patient Provider meeting)	24.3.2022 10.00 a.m.	DOTS Centre	TB patients were given information about TB for better treatment adherence	3
57.	Tree plantation by DOTS patients	24.3.2022 10.45 a.m.	NDTBC lawns	To increase the importance of trees in our life and their contribution	3
58.	Community meet organized by "Second Act" with Delhi Pink Toilet staff and community residents and delivered extensive health talk on TB	24.3.2022 12.30 a.m.	Pink toilet	To sensitize pink toilet staff as well as community regarding general cleanliness and TB	35
59.	Community meet	24.2.2022 2.30 p.m.	Roshanpura, Nai Sarak	Sensitized neighbouring communities regarding TB for better TB treatment adherence	21
60.	Health Talk	25.3.2022 9.00 a.m.	NDTBC	Create awareness regarding TB on daily basis	11
61.	Health Talk	25.3.2022 12.00 a.m.	Bachon ka Ghar Asaf Ali Road	Inmates were sensitize regarding the disease	10
62.	PPM (Patient Provider meeting)	25.3.2022 10.00 a.m.	DOTS Centre	Cleared patients doubts regarding medicine	3
63.	Health Talk	26.3.2022 9.00 a.m.	At the gate of NDTBC	Female group was sensitize about TB and its effects on them	12
64.	PPM (Patient Provider meeting)	26.3.2022 10.00 a.m.	DOTS Centre	Patients were given information about TB and discussed the treatment	4

S. No.	Name of Activity	Date's & Time	Place	Objective	No. of Beneficiaries
65.	Valedictory function followed with staff and guest lunch	28.3.2022 12.30 p.m.	Auditorium NDTBC	Concluded the programme by acknowledging every body contribution	All staff and guest
a)	Prize distribution to all winners	28.3.2022 12.30 p.m.	Auditorium NDTBC	Closing the main event	
b)	Release of collage made by NDTBC (all the senior doctors working in the field of TB written their perspective of TB) that perspective was made up in form of collage named TB perspective by TB legends.	28.3.2022 28.3.2022 12.30 p.m.	Auditorium NDTBC	Closing the main event	

Community Meet

Community meet at Hauz Qazi on 24.2.2022 organised by the community resident trained by Medical Social Worker of New Delhi TB Centre due to Covid-19 using health tools.

Details of other activities done on Anti TB Week:

1. Tree plantation by DOTS patients on 25.2.2022
2. Orientation regarding need for plantation
3. health talk at SPYM on 23.2.2022
4. PPM at NDTBC on 22.2.2022
5. Health talk at NDTBC on 22.2.2022
6. Slogan writing on 26.2.2022
7. Health talk at NDTBC on 28.2.2022
8. PPM at NDTBC on 28.2.2022
9. Health talk at NDTBC on 3.3.2022
10. PPM at NDTBC on 3.3.2022

MYCOBACTERIAL LABORATORY

The laboratory of New Delhi Tuberculosis Centre is certified as Intermediate Reference Laboratory for the state of Delhi by Central TB Division, Ministry of Health & Family Welfare. The laboratory is also accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL), Department of Science & Technology, Government of India.

The laboratory is responsible for the overall supervision of the External Quality Assurance Activities (EQAS) of smear microscopy for the entire state. This laboratory regularly participates in annual Proficiency Testing (PT) for smear microscopy, LPA as well as culture and DST by the National Reference Laboratory, National Institute of Tuberculosis and Respiratory Diseases, New Delhi.

Laboratory is linked to 17 out of 25 National TB Elimination Program designated TB districts (also called as chest clinics) of Delhi state for diagnosis and treatment follow-up under PMDT activities. Laboratory is equipped with latest molecular diagnostic assays such as Cartridge Based Nucleic Acid Amplification Test (CBNAAT), TrueNat, Line Probe Assay (LPA) and Next Generation Sequencing on Illumina MiSeq platform. Laboratory also has automated liquid culture system (MGIT-960) to perform culture and phenotypic Drug Susceptibility testing against First and second line Anti TB drugs.

In addition, laboratory of NDTB Centre also plays following roles:-

Trainings

The laboratory is responsible for conducting various training of laboratory staff under NTEP. This includes modular trainings on smear microscopy, quality assurance of sputum microscopy, CBNAAT and other diagnostic modalities. The laboratory also provides technical support to other C&DST labs whenever required.

Quality Assurance

The laboratory conducts onsite evaluation visits to 25 districts and reports the findings to the State TB Officer and National Reference Laboratory.

Data Collection

IRL is responsible for collection and compilation of data from districts and submit the compiled data to the concerned authorities. This includes Annexure M, Annexure G, CBNAAT indicators and various other performance indicators.

Research

The laboratory actively participates in various National and International research projects. The recent projects of importance include The STREAM trial, The Beat Trial, National DRS project. The laboratory also plays an important role in various operational research protocols approved by Delhi NTEP.

Procurement

The laboratory is helping the State NTEP in the procurement and quality assurance of laboratory chemicals and consumables.

Maintain SOPs in CDST Laboratories

Provide technical support to the other culture & DST laboratories (including CBNAAT labs) in the state or of other states when assigned.

Accreditation by NABL: How it helped the laboratory

Mycobacteriology laboratory of New Delhi TB Centre got accreditation in the field of medical testing in July, 2018. Due to accreditation the laboratory has got the following benefits:

- Reports issued from the accredited laboratory increases confidence and satisfaction of the client.
- Better control of laboratory operations as sound Quality Assurance System is in place.
- Savings in terms of time and money due to reduction or elimination of the need for retesting.

For getting accreditation, laboratory developed following work culture and documents:

- Laboratory trained two of its Microbiologist in ISO 15189:2012 and designated them Quality Manager and Technical Manager.
- Laboratory prepared nearly 30 quality system procedures, Technical SOPs and SOPs for all major equipments.
- Quality manual, Sample collection manual, Biosafety manual, safety SOPs and Directory of services was also prepared.
- Internal Audit and Management Review Meeting; as per structured plan & schedule, being conducted every year.

- Risk assessment and risk management policies have been defined and implemented where ever possible
- Reagent/ Kits acceptance testing is now being done prior to use in patient testing
- Corrective and Preventive action (CAPA) along with root cause analysis which was done before but not being documented are now being documented appropriately

Training Calendar for laboratory staff have been prepared and put in use. Competency Assessment Form used for different sections.

Role played by the laboratory in COVID-19 Pandemic

The laboratory of New Delhi Tuberculosis Centre has played a critical role in response to the current COVID-19 pandemic. In addition to providing helping hand in the testing requirements of the state, the laboratory is also a hub for distribution of Truenat and CBNAAT consumables for various laboratories engaged in COVID-19 testing. The laboratory has extended help to the state in conducting trainings and audit inspection of various Truenat laboratories in public as well as the private sector. A brief point wise description of the roles played by laboratory is given below:

- Despite having a tuberculosis diagnosis workload in excess of 100 samples per day, the laboratory offered helping hand in augmenting the COVID-19 testing capacity of the state. So far the laboratory has performed more than 1100 Truenat tests. The laboratory initially shared the sample load from central Delhi, then from GB Pant hospital and Aruna Asif Ali hospital.
- In order to strengthen the testing capacity of the state, the laboratory is helping the state in conducting trainings of Truenat and CBNAAT laboratories in public as well the private sector. These training in addition to providing technical training also cover various bio safety and bio security related issues. The laboratory is actively involved in helping the state in performing audit inspection of new Truenat facilities in public and private sector. So far the laboratory has trained 16 batches and more than 22 Truenat laboratories have been audited.
- The laboratory is a central hub for the distribution of Xpert SARS CoV-2 cartridges and Truenat cartridges and consumables supplied by the Central to various sites across Delhi. All the related inventory management is being done by the laboratory.

Table : Microscopic activities under NTEP (2021-2022) of Delhi state

District	No. of Adult OPD	No. of Presumptive TB examined for diagnosis	No. of Presumptive TB found positive	No. of Presumptive TB under-going repeat	No. of TB Presumptive TB found positive on repeat	Nos. of follow-up patients examined	Nos. of Follow-up patients found to be positive	Total No. of Positive and negative slides examined
BJRM	147397	2196	239	1	1	2395	20	8552
GTBH	269566	4922	607	48	0	1976	45	11861
HEDGEWAR	132059	2618	292	0	0	955	14	6163
KCC	132770	4030	506	10	0	1982	32	9984
LNH	64211	7416	417	13	0	507	21	15250
JHANDEWALAN	14884	1325	246	0	0	1107	29	3758
S. P. M. MARG, PILIKOTHI	50694	1327	137	0	46	611	60	3719
R.K. MISSION	18273	718	110	0	27	511	37	2212
NEHRU NAGAR	284399	8742	1387	82	6	5524	163	22707
MOTI NAGAR	133445	5394	753	11	1	2494	98	13296
R. T. R. M. HOSPITAL	145910	7839	1083	0	11	2794	312	19790
NARELA CHEST CLINIC	29376	1724	336	0	0	848	50	4301
KARAWAL NAGAR	0	4964	901	0	0	2657	117	13042
NDMC CHEST CLINIC	316071	7770	990	2	1	2457	65	17913
BSA	106873	2469	435	8	0	1662	85	6476
DDUH	451821	6200	859	1	0	2691	60	14952
GULABI BAGH	84111	1939	250	0	0	709	44	4618

Table : Microscopic activities under NTEP (2021-2022) of Delhi state

District	No. of Adult OPD	No. of Presumptive TB examined for diagnosis	No. of Presumptive TB found positive	No. of Presumptive TB under-going repeat	No. of TB Presumptive TB found positive on repeat	Nos.of follow-up patients examined	Nos. of Follow-up patients found to be positive	Total No. of Positive and negative slides examined
SANJAY GANDHI	204145	3838	578	0	0	1706	47	9310
C.C.J.P.C.HOSPITAL SHASTRI PARK	146859	3157	472	1	1	2102	29	8323
CH. DESRAJ	161250	3528	472	0	0	1628	66	8665
MALVIYA NAGAR	252705	3263	475	1	0	2599	216	9155
NITRD	124819	6595	866	0	0	1792	73	15034
SHAHDARA	296801	5459	740	115	3	2348	88	13253
BIJWASAN	149297	6158	688	1	0	2690	182	17902
PATPARGANJ (TU1)	281183	7539	1611	2	1	4800	325	18941
	3998919	111130	15450	296	98	51545	2278	279177

During the year, a total of 111130 presumptive TB were examined for diagnosis in all 25 chest clinics of Delhi state out of which 15450 were found positive. As per data received from TB laboratory abstract 279177 slides were examined.

On-site Evaluation of Designated Microscopic Centers

Because of Covid-19 pandemic, visits for On-site evaluation (OSE) and Panel Testing could not be performed. To ensure the quality microscopic services, a questionnaire based assessment of the districts laboratories was done by virtual mode. An extensive Performa to collect all the details of stocks, procedures and records was designed by our team and circulated to districts before evaluation on virtual mode.

On the date of virtual evaluation, parameters filled in the questionnaire were reviewed and discussed with the district staff and suggestions for improving performance were given by the IRL teams.

List of DTCs evaluated by IRL Team Virtual / Onsite

Sr. No.	Chest Clinic	Visit date	Virtual/ On-Site
1.	Shastri Park Chest Clinic	05/7/2021	Virtual
2.	R.K. Mission Chest Clinic	08/07/2021	On-Site
3.	Hedgewar Chest Clinic	20/9/2021	Virtual
4.	RTRM Chest Clinic	20/9/2021	Virtual
5.	Karawal Nagar Chest Clinic	20/9/2021	Virtual
6.	Bijwasan Chest Clinic	21/9/2021	Virtual
7.	Malviya Nagar Chest Clinic	21/9/2021	Virtual
8.	Jhandewalan Chest Clinic	24/9/2021	Virtual
9.	Nehru Nagar Chest Clinic	18/10/2021	Virtual
10.	Gulabi Bagh Chest Clinic	18/10/2021	Virtual
11.	NITRD Chest Clinic	19/10/2021	Virtual
12.	Narela Chest Clinic	19/10/2021	Virtual
13.	BJRM Chest Clinic	21/10/2021	On-Site
14.	BSA Chest Clinic	25/10/2021	On-Site
15.	Ch. Desraj Chest Clinic	28/10/2021	On-Site
16.	NDMC Chest Clinic	01/11/2021	Virtual
17.	SGMH Chest Clinic	01/11/2021	On-Site
18.	DDU Chest Clinic	08/11/2021	Virtual
19.	Kingsway Camp Chest Clinic	02/12/2021	On-Site
20.	LNH Chest Clinic	02/12/2021	On-Site
21.	GTBH Chest Clinic	03/12/2021	On-Site
22.	Shahdara Chest Clinic	03/12/2021	On-Site
23.	Patparganj Chest clinic	16/12/2021	On-Site
24.	Pilikothi Chest Clinic	17/12/2021	On-Site

Programmatic Management of Drug Resistant Tuberculosis (PMDT) Activities

The laboratory got certification by Central TB Division for Line Probe Assay, solid and liquid culture and DST. Currently sputum samples received from 17 chest clinics for diagnosis and follow-up under PMDT activities in Delhi.

PMDT activities carried out during the year April 2021–March 2022

(Specimens processed on culture or DST)

Q.2 2019 to Q 1 2020	FL-LPA performed						SL-LPA performed				
	Specimen inoculated for culture	FL-LPA DST done	H+R resistance not detected	H+R Resistance detected	H only Resistance detected	R only Resistance detected	SL-LPA DST done	FLQ + SLI resistance not detected	FLQ+SLI resistance detected	FLQ only Res Detected	SLI only Resistance detected
Q 2	4640	2007	1698	154	129	13	384	268	4	108	1
Q 3	4654	2296	1910	169	175	6	340	245	6	83	2
Q 4	1161	649	533	64	42	8	118	72	1	44	1
Q 1	2185	1316	1088	123	83	16	257	170	4	74	4
Total	12640	6268	5229	510	429	43	1099	755	15	309	8

The table provides details of laboratory tests done under PMDT activities during the year 2021-22. A total of 12640 sputum specimens were processed, out of which 510 cases turned out to be MDR-TB and 43 cases were Rifampicin mono resistant.

Microbiologists of NDTB Centre are members of State Core Committee for Truenat / CBNAAT and Abbott IDNOW testing for diagnosis of Covid-19. As a part of the activities, microbiologist from our Centre along with other members visit laboratories in public as well as private sector, who intend to start Covid-19 diagnosis using NAAT for initial assessment and subsequent approval. Following laboratory have been visited so far:-

COVID Lab Audit Inspection Visits (2021 – 2022)

S. No.	Name of the site	Inspection Date
1	Indraprastha Apollo Hospitals Mathura Rd, New Delhi	07-10-2021
2	Max Super Speciality Hospital, 1, 2, Press Enclave Marg, Saket Institutional Area, Saket, New Delhi,	17-04-2021
3	Micromol Solutions, Jasola - Pocket - 2, Plot No.- 88, First Floor, Near Apollo Hospital, Jasola Vihar, New Delhi	10-10-2021
4	Unipath Diagnostics, C-4, Green Park Extension, New Delhi	01-10-2021
5	NTPC Badarpur	09-06-2021
6	Dept of Laboratory Services, BLK Super Speciality Hospital, Pusa Road, New Delhi: 110005	05-07-2021
7	Genestrings Diagnostic Centre Pvt. Ltd, 4 th Floor, Multi level Car Parking, Indra Gandhi International Airport, New Delhi	05-10-2021

Training provided to COVID testing facilities (2021 – 2022)

S. No.	Name of diagnostic facility	Training Date
1	NTPC Badarpur	10-05-2021
2	Station Medicare Centre, Air force Station Palam, Thimayya Marg, Delhi Cantt, New Delhi-110010.	10-05-2021
3	Dept of Laboratory Services, BLK Super Speciality Hospital, Pusa Road, New Delhi: 110005	29-06-2021
4	Oncquest Laboratories Ltd 1A, Africa Ave, Block B 2, Safdarjung Enclave, New Delhi-110029	29-06-2021
5	CRPF Northern Sector Hospital, Sec 7 R K Puram New Delhi 22	29-06-2021
6	Manipal Hospital, Dwarka	16-07-2021
7	Micromol Solutions, Jasola - Pocket - 2, Plot No.- 88, First Floor, Near Apollo Hospital, Jasola Vihar, New Delhi - 110025	16-07-2021

S. No.	Name of diagnostic facility	Training Date
8	Lifeline Laboratory, H-11, Green Park Extn. New Delhi- 110016	16-07-2021
9	Lifeline Laboratory, H-11, Green Park Extn. New Delhi- 110016	16-07-2021
10	Medicare Centre, Air Force Station, Race Course Road, New Delhi	16-07-2021
11	Dr Lal Path Labs Ltd, National reference Lab, Sector 18E, Rohini, New Delhi	05-08-2021
12	Krishna Diagnostics (A unit of Koadon lab LLP), C - 7, UG, Anand Vihar, Delhi.	05-08-2021
13	Dr S.S. Doda's Ultrasound Centre-Pathology Lab, 23-B, Pusa Road, New Delhi-110005	05-08-2021
14	Unipath Diagnostics, C-4, Green Park Extension, New Delhi-110016	08-09-2021
15	Genestrings Diagnostic Centre Pvt. Ltd, 4 th Floor, Multi level Car Parking, Indra Gandhi International Airport, New Delhi	08-09-2021
16	Medzone Medical, 5 / B 3, Sector 17, Dwarka, New Delhi - 110075	08-09-2021
17	Lok Nayak Hospital	22-09-2021

SUPERVISORY ACTIVITIES

Monitoring and evaluation is an important tool for NTEP. As State TB Training & Demonstration Centre (STDC), the faculty of the Centre is actively involved in monitoring and supervision of the TB control programme at national and state level. This year due to Covid-19 all the supervisory visits were made virtually.

State Internal Evaluation

Internal evaluations are a routine activity and are done by the state TB cell. This is a 3 day long activity whereby the state TB cell along with a team of representatives from various chest clinics including the NDTB conduct an indebt evaluation of a district .Due to Covid-19 this activity is not being conducted. Instead, virtual evaluations are being conducted in collaboration with State TB cell and ECHO India. All chest clinics were screened via this activity in the presence of STO, State TB cell and WHO consultants. During these evaluations the Chest clinic makes a presentation on various NTEP indicators and an in depth discussions takes place .Another important activity are the quarterly review meetings whereby NTEP indicators of all chest clinics are discussed with chest clinic Heads in the presence of STO and WHO consultants. These indicators are also screened during Supervisory visits.

Supervisory activities

The Centre is involved in monitoring and supervision of the National TB Elimination Programme (NTEP) for 25 chest clinics of Delhi. One day Supervisory visits are conducted whereby the chest clinic and two Microscopy centers are visited. Quality diagnosis and treatment related issues are assessed during these visits and feedback is given to the chest clinic staff for the same.

Due to the Covid-19 Pandemic field visits could not be conducted. Hence round the year, virtual sessions were conducted by the New Delhi tuberculosis centre in collaboration with the State TB cell and ECHO India forthe following chest clinics.

Date of Monitoring activities	District Chest Clinics
2/6/2021	Gulabi Bagh Chest Clinic
4/6/2021	Bijwasan Chest Clinic
7/6/2021	Ch. Desraj Chest Clinic
9/6/2021	Sanjay Gandhi Memorial Hospital Chest Clinic
11/6/2021	GTB Chest Clinic
9/8/2021	Nehru Nagar Chest Clinic
21/8/2021	Ch. Desraj Chest Clinic
21/9/2021	NDMC Chest Clinic
21/10/2021	BJRM Chest Clinic
3/11/2021	BSA Chest Clinic
17/12/2021	Pili Koti Chest Clinic

LIBRARY AND INFORMATION SERVICES

The website of New Delhi TB Centre (www.ndtbc.com) has information about various facilities and activities undertaken by the Centre along with list of publications from the institute. The Centre maintains a library which has 668 books on various aspects related to tuberculosis and chest diseases. In addition, it has various National and International journals. The library renders its services to the students of MAMC and V.P. Chest Institute as well as the faculty of the Centre.

ADMINISTRATION

The Administrative Section is backbone for all the working of NDTB Centre. The department has two major activities i.e. Establishment and Accounts. The section look after all the matters related to the staff and deals with the issues pertaining to staff of the Centre. The section caters to the administrative matters and look after service matters pertaining to the staff like framing of recruitment rules, promotions of staff, holding meetings etc. One of the major activities of the section is to maintain the building of NDTB Centre. For smooth running of the Centre, the Section deals with the Ministry of Health & Family Welfare for budget and annual grant.

(A) VISITORS TO NDTBCENTRE

1. A team consisting of experts from NRL, CTD, WHO and FIND India has visited the BSL 3 laboratory of Centre for assessment of renovation and its requirements on 19th August, 2021.
2. A representative from Johnson & Johnson co. had visited the Centre on 2nd September 2021 to discuss about possibilities for collaborative activities with NDTB Centre.
3. WGS site assessment visit for inspection of whole gene sequencing facility at NDTB Centre was made on 14th September 2021 by the iDEFEAT TB Team.
4. A team from NRL (NITRD) made an OSE visit to the laboratory of NDTB Centre from 27th to 29th December 2021 wherein they have inspected the site and discussed the operational and technical problems.

(B) GRANTS

- i. During the year 2021-22, the Government of India, Ministry of Health & Family Welfare released the annual recurring Grant-in-aid (Salaries) of Rs. 495 Lacs and grant-in-aid (General) of Rs. 66 Lacs.
- ii. Rs.10000/- was provided by Tuberculosis Association of India as annual grant.
- iii Interest on saving bank and FDR account Rs.50145/-.

(C) RIGHT TO INFORMATION ACT2005

During 2021-2022, 4 applications have been received under RTI Act, 2005. The table gives the details of applications received and disposed.

Table: Details of yearly Receipts & Disposal of RTI applications for 2021-2022

S. No.	Month & Year	RTI Applications			Appeal		
		No. of RTI applications received	No. of RTI applications disposal	In Process	No. of Appeals received	No. of Appeals disposal	In Process
1	April-21	1	1	-	-	-	-
2	May-21	-	-	-	-	-	-
3	June-21	-	-	-	-	-	-
4	July-21	-	-	-	-	-	-
5	August-21	1	1	-	-	-	-
6	Sept-21	-	-	-	-	-	-
7	Oct-21	1	1	-	-	-	-
8	Nov-21	-	-	-	-	-	-
9	Dec-21	-	-	-	-	-	-
10.	Jan-22	1	1	-	-	-	-
11.	Feb-22	-	-	-	-	-	-
12.	March-22	-	-	-	-	-	-
Total	2021-2022	4	4	-	-	-	-

SUMMARY OF ACTIVITIES OF NEW DELHI TB CENTRE

An insight statistics of annual activities of the Centre during 2021-2022 are as follows:

Outpatient attendance in Clinic :

New outpatients attendance	7917
Revisits	7445
COAD Clinic	767
DOTS Centre	196
Total outpatients attendance in Clinic	16325

Outpatient attendance in Laboratory :

New Cases for diagnosis	11079
Follow up cases	2026
Total attendance in Laboratory	13105

DOT Centre Attendance

New Patients put on DOTS at NDTB DOT Centre in March 2022	23
Total Patients (2021-22) put on DOTS at NDTB DOT Centre	196

Tuberculin skin tests:

Total Tuberculin skin tests done	6409
Tests read	5777
Reactors (>10mm)	3661
Non-reactors (<10mm)	2116

Radiological Examinations:

Radiological Examinations	2170
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Laboratory Examinations done :

1	Total laboratory examinations	33,659
2	Smear examinations	13,389
3	Culture examinations	6,632
4	Drug susceptibility test	13,224
	a. By Line Probe Assay	12,267
	· First Line Drugs	10,700
	· Second Line Drugs	1,567
	b. By liquid culture (MGIT)	833
	· First Line Drugs	23
	· Second Line Drugs	810
	c. CBNAAT examination	35
	d. TrueNat examination	89
5	CBNAAT for COVID-19	33
6	TrueNat for COVID-19	381

Trainings

Trainings held for Delhi state NTEP personnel	2442
Miscellaneous Trainings (other than Delhi state NTEP personnel)	960
Trainings (Nursing students, Medical students)	1120
Total personnel trained during 2021-22	4522

Supervision/IRL Visits/Publications

Supervision and Monitoring /Internal Evaluation of Chest Clinics	11
IRL Visits to chest clinics for EQA	24
Research and Publications	16

THAKUR, VAIDYANATH AIYAR & CO.
Chartered Accountants
New Delhi, Mumbai, Kolkata, Chennai
Patna and Chandigarh

221-223, Deen Dayal Marg, New Delhi-02
Phones : 91 - 11-23236958-60, 23237772
Fax : 91 - 11-23230831
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: tvande@rediffmail.com

Independent Auditor's Report

To the Members of

New Delhi Tuberculosis Center,

Report on the Financial Statements

Opinion

We have audited the accompanying financial statements of **New Delhi Tuberculosis Centre** which comprise the Balance Sheet as at March 31, 2022, the Statement of Income and Expenditure and Receipts & Payments for the year then ended, and a summary of Significant Accounting Policies and Other Explanatory Information.

In our opinion and to the best of our information and according to the explanations given to us, the accompanying financial statements of the Center, read together with Accounting Policies and other explanatory information (note no. 19) have been prepared in accordance with the applicable Laws, in the manner so required and give a true and fair view in conformity with the other accounting principles generally accepted in India, of the state of affairs of the Centre as at March 31st, 2022 and its surplus for the year ended on that date.

Basis for Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs). Our responsibilities under those Standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the organization in accordance with the Code of Ethics issued by the Institute of Chartered Accountants of India together with the ethical requirements that are relevant to our audit of the financial statements under the provisions of the Act, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Centre in accordance with the Accounting Standards, to the extent applicable, issued by the Institute of Chartered Accountants of India. This

responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentations of the financial statements that gives a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities for the Audit of the Financial Statements

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Centre in preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate, but not for the purpose of expressing an opinion on the effectiveness of the Entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Report on Other Legal and Regulatory Requirements

- a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit;
- b) In our opinion, proper books of account as required by law have been kept by the Centre so far as appears from our examination of those books;
- c) The Balance Sheet , Statement of Income and Expenditure and Receipts and Payments dealt with by this Report are in agreement with the books of account;
- d) In our opinion, the Balance Sheet, Statement of Income and Expenditure and Receipts & Payments comply with the Accounting Standards, to the extent applicable, issued by the Institute of Chartered Accountants of India.

For Thakur,Vaidyanath Aiyar & Co.
Chartered Accountants
FRN: 000038N

(Anil K. Thakur)
Partner
M. No. : 088722

Place: New Delhi
Date : 19.10.2022

**NEW DELHI TUBERCULOSIS CENTRE
BALANCE SHEET AS AT 31ST MARCH, 2022**

	Schedule	As at 31.03.2022 (Rs.)	As at 31.03.2021 (Rs.)
<u>SOURCES OF FUNDS:</u>			
Assets Fund	1	24,52,127	25,96,097
Earmarked Funds	2	10,44,105	12,22,961
Unspend Project Fund	3	5,81,994	8,81,832
Current Liabilities and Provisions	4	1,27,45,164	1,14,95,198
Accumulated Deficit / Surplus		15,21,653	5,35,637
	Total	1,83,45,043	1,67,31,725

APPLICATION OF FUNDS:

Fixed Assets	5	24,52,127	25,96,097
Investment	6	61,15,000	59,65,000
Current Assets, Loans & Advances:	7		
- Stock and Stores and receivables		4,10,458	5,73,449
- Cash and Bank balances		90,02,806	72,98,809
TDS recoverable		3,64,652	2,98,370
	Total	1,83,45,043	1,67,31,725

Accounting Policies and Notes to the accounts **19**
Schedule Nos.1 to 18 form an integral part of the Accounts

As per our report of even date attached
For Thakur Vaidyanath Aiyar & Co.
Chartered Accountants
FRN: 000038N

Admn. Officer
(Sulekha Chakrawarti)

Director
(Dr. K.K.Chopra)

(Anil K. Thakur)
Partner
M. No. 088722

Financial Adviser
(Sh. T. Ahluwalia)

Chairman
(Dr. Ashwani Khanna)

Place : New Delhi
Date : 19.10.2022

NEW DELHI TUBERCULOSIS CENTRE
STATEMENT OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2022

	Schedule	For the year 2021-22	For the year 2020-21
		(Rs.)	(Rs.)
<u>INCOME</u>			
Recurring Grant from Govt.of India :			
Grant-in-aid Salaries		4,95,00,000	4,42,00,000
Grant-in-aid General		66,00,000	70,00,000
Maintenance Grants from TAI		10,000	10,000
Fees from Patients	8	31,200	42,740
Misc. Receipts:			
- Other receipts		98,611	4,023
Total		5,62,39,811	5,12,56,763
<u>EXPENDITURE</u>			
Salary & Other Staff expenditure	9	4,88,24,469	4,36,17,987
Administrative Expenses	10	59,52,388	77,58,127
Expenses on X-Ray Films, Drugs & Medicines and Lab. Consumable	11	4,76,938	6,24,894
Total		5,52,53,795	5,20,01,008
(Deficit)/Surplus for the year		9,86,016	(7,44,245)
Less / (Add) : Balance as per last account		5,35,637	12,79,882
		15,21,653	5,35,637
Accounting Policies and Notes to the Accounts	19		
Schedule Nos.1 to 18 form an integral part of the Accounts			
As per our report of even date attached			
For Thakur Vaidyanath Aiyar & Co.	Admn. Officer	Director	
Chartered Accountants	(Sulekha Chakrawarti)	(Dr. K.K.Chopra)	
FRN: 000038N			
(Anil K. Thakur)	Financial Adviser	Chairman	
Partner	(Sh. T. Ahluwalia)	(Dr. Ashwani Khanna)	
M. No. 088722			

Place : New Delhi

Date : 19.10.2022

NEW DELHI TUBERCULOSIS CENTRE
RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED MARCH 31, 2022

	Schedule	For the year 2021-22	For the year 2020-21
		(Rs.)	(Rs.)
<u>RECEIPTS</u>			
Opening Cash & Bank Balances	7	72,98,809	94,94,348
Opening Investment (FDR)	6	59,65,000	42,50,000
Grants :			
Recurring Grant-in Aid from Govt. of India			
- Grant-in-aid Salaries		4,95,00,000	4,42,00,000
- Grant-in-aid General		66,00,000	70,00,000
Maintenance Grants from TAI		20,000	10,000
Fee from Patients	8	31,200	42,740
Receipts from TAI	12	1,23,83,571	1,31,35,886
Other Receipts	13	14,67,421	6,65,604
Total		<u>8,32,66,001</u>	<u>7,87,98,578</u>
PAYMENTS			
Staff Expenditure	14	4,74,96,369	4,27,85,754
Administrative expenses	15	62,88,088	81,65,470
X-Ray films, Drugs and Med. & Lab. Consumables	16	5,01,596	6,70,891
Payments from TAI Fund	17	1,23,83,571	1,31,35,886
Other Payments	18	14,78,571	7,76,768
Investment purchased	6	61,15,000	59,65,000
Closing Cash & Bank Balances	7	90,02,806	72,98,809
Total		<u>8,32,66,001</u>	<u>7,87,98,578</u>
Policies and Notes to the Accounts	19		

Schedule Nos.1 to 18 form an integral part of the Accounts

As per our report of even date attached

For Thakur Vaidyanath Aiyar & Co.

Chartered Accountants

FRN: 000038N

Admn. Officer
(Sulekha Chakrawarti)

Director
(Dr. K.K.Chopra)

(Anil K. Thakur)
Partner
M. No. 088722

Financial Adviser
(Sh. T. Ahluwalia)

Chairman
(Dr. Ashwani Khanna)

Place : New Delhi

Date : 19.10.2022

NEW DELHI TUBERCULOSIS CENTRE

Schedule- 1

ASSETS FUND

	As at 31.03.22	As at 31.03.21
	(Rs.)	(Rs.)
BBalance as Per last A/c	25,96,097	28,44,285
Add : Additions during the year for Cost of Assets Acquired (refer Schedule - 5)	2,53,200	1,01,760
	28,49,297	29,46,045
Less:		
Disposals during the year	62,684	-
Depreciation for the year (refer Schedule - 5)	3,34,486	3,49,948
Total	24,52,127	25,96,097

Unutilised Balance as on 01.04.21	Received / Transferred during the year	Interest	Total	Utilised during the year	Unutilised Balance as on 31.03.22
(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)

Schedule - 2

EARMARKED FUND

General Donations	4,62,482	-	50,145	5,12,627	2,11,000	3,01,627
Auditorium fund	1,008	-	-	1,008	1,008	-
For Medicines	1,86,302	24,480	-	2,10,782	42,973	1,67,809
Staff Welfare Fund	85,479	-	2,500	87,979	1,000	86,979
Research Fund	4,87,690	-	-	4,87,690	-	4,87,690
Total	12,22,961	24,480	52,645	13,00,086	2,55,981	10,44,105

NEW DELHI TUBERCULOSIS CENTRE

	As at 31.03.22	As at 31.03.21
	(Rs.)	(Rs.)
<u>Schedule- 3</u>		
Unspent Project Fund:		
Project Fund-Mapping of anti Mycobacterial drugs	60000	145000
Project NTM Diseases	521994	736832
	<u>5,81,994</u>	<u>8,81,832</u>

Schedule- 4

Current Liabilities & Provisions

Salary & Allowances	44,24,954	36,90,854
Other Payable	36,829	31,913
Sundry Creditors	-	5,288
Provision for Contribution to Gratuity Fund	5,94,000	7,76,000
Security Deposit/ Earnest Money	1,99,604	2,49,444
Training under RNTCP	51,072	58109
Gratuity fund	71,82,758	6345762
Interest on Recurring Grant -in-aid	2,55,947	337828
Total	<u>1,27,45,164</u>	<u>1,14,95,198</u>

NEW DELHI TUBERCULOSIS CENTRE

Schedule - 5

Fixed Assets

	WDV as on 01.04.21	Additions during the year	Disposals	Balance as on 31.03.22	Depreciation for the year	Net balance on 31.03.22
	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
Building	1,45,240			1,45,240	14,524	1,30,716
Electrical Installations	4,70,066			4,70,066	47,007	4,23,059
Furniture & Fittings	12,71,545	42,200	53,822	12,59,923	1,23,883	11,36,040
Lab. Equipments	1,25,478		8,759	1,16,719	17,508	99,211
X-ray Equipments	1,13,275			1,13,275	16,991	96,284
Other Equipments	8,808			8,808	1,321	7,487
Computer	2,122	2,11,000	103	2,13,019	43,008	1,70,011
Books	5,241	-		5,241	2,096	3,145
Vehicle	4,54,322			4,54,322	68,148	3,86,174
Total	25,96,097	2,53,200	62,684	27,86,613	3,34,486	24,52,127

INVESTMENT

Schedule- 6

	As at 31.03.22	As at 31.03.21
	(Rs.)	(Rs.)
Fixed Deposit (Gratuity)	61,15,000	59,65,000
Total	61,15,000	59,65,000

NEW DELHI TUBERCULOSIS CENTRE

<u>CURRENT ASSETS</u>	As at 31.03.22	As at 31.03.21
	(Rs.)	(Rs.)
<u>Schedule- 7</u>		
<u>(A) Current Assets & Loans and Advances</u>		
Grant Receivable from TAI.	-	10,000
Interest accrued on FDR(gratuity fund)	1,58,151	3,36,840
Stocks and Stores at cost : (as valued and certified by the Management)		
-X-Ray films and chemicals	23,282	51,552
-Laboratory stains, chemicals glassware	2,25,485	1,75,057
NABL Accreditation Fee	3,540	
Sub Total - A	4,10,458	5,73,449
<u>(B) Cash and Bank Balances:</u>		
Cash in hand (as certified by the Management)	-	-
In Current A/c with BOI	66,22,435	53,51,650
Bank of India (Gratuity Fund A/C)	8,44,453	13,883
In Saving Bank	-	-
- with BOI (Earmarked donation fund)	14,48,939	18,47,797
- with BOI (Staff Welfare Fund)	86,979	85,479
Sub Total - B	90,02,806	72,98,809
Gross Total - A+B	94,13,264	78,72,258

<u>Schedule-8</u>	Fee for the year 2021-22	Fee for the year 2020-21
	(Rs.)	(Rs.)
<u>Advance Fees for patients</u>		
Laboratory charges	31,200	39,800
X-ray charges	-	2,940
Total	31,200	42,740

NEW DELHI TUBERCULOSIS CENTRE

<u>Schedule- 9</u>	For the year 2021-22	For the year 2020-21
	(Rs.)	(Rs.)
<u>Salary & Other Staff Expenditure :</u>		
Salaries	2,65,73,667	2,56,38,396
Dearness Allowance	73,18,842	42,79,737
House Rent Allowance	65,26,456	57,93,130
Transport Allowance	21,98,877	19,73,241
Other Allowances	16,61,075	16,23,259
Children's Education Allowances	4,05,000	4,16,786
Contribution to Provident Fund	33,25,156	29,45,481
Contribution to Gratuity Fund	5,94,000	7,76,000
Bonus	1,77,867	1,70,107
Travel Concession	43,529	1,850
Total	<u>4,88,24,469</u>	<u>4,36,17,987</u>

Schedule- 10

Administrative Expenses :

Housekeeping Charges/ Wages to Contractual Staff	14,96,764	14,31,245
Salary to Contractual Staff	10,89,919	7,83,149
Security Charges	12,25,995	11,80,883
Medical Aid to staff	2,93,477	2,80,436
Travelling Expenses & Conveyance	13,527	7,010
Repairs to Furniture and equipment	2,29,935	1,50,095
Repairs to Laboratory equipment	2,03,145	1,59,214
Telephone Expenses	1,08,126	1,20,719
Printing & Stationery	1,63,879	1,36,090
Postage	3,969	9,572
Laundry Charges	4,459	3,238
Maintenance of car	40,522	35,046
Audit Fee	29,500	24,780
Miscellaneous expenses	1,88,223	1,87,691
Building maintenance expenses -civil	6,73,404	21,70,612
Building maintenance expenses -electrical	45,523	3,16,527
Annual day expenses	98,088	10,000
Furniture - Major repairs	42,200	1,01,760
Advertisement	-	25,709
Interest to Govt. of India	-	6,24,351
Linen and bedding	1,733	-
Total	<u>59,52,388</u>	<u>77,58,127</u>

NEW DELHI TUBERCULOSIS CENTRE

		For the year 2021-22	For the year 2020-21
		<hr/> (Rs.)	<hr/> (Rs.)
<u>Schedule- 11</u>			
<u>X-Ray Films ,Drugs and Medicines & Lab. Consumable</u>			
Drugs and Medicines			
Balance as on 1.4.2021	-		
Add : Purchased during the year	39,984		
	<hr/>		
Less : Closing Stock	-		
	<hr/>	39,984	31,154
X-Ray Films and Chemicals			
Balance as on 1.4.2021	51,552		
Add : Purchased during the year	56,461		
	<hr/>		
	1,08,013		
Less : Closing Stock	23,282		
	<hr/>	84,731	41,686
Lab. Stains, Chemicals & Glassware			
Balance as on 1.4.2021	1,75,057		
Add : Purchased during the year	4,02,651		
	<hr/>		
	5,77,708		
Less : Closing Stock	2,25,485	3,52,223	5,52,054
	<hr/>	<hr/>	<hr/>
Materials Consumed	Total	4,76,938	6,24,894
		<hr/> <hr/>	<hr/> <hr/>

NEW DELHI TUBERCULOSIS CENTRE

Schedule- 12

	For the year 2021-22	For the year 2020-21
	(Rs.)	(Rs.)
<u>Receipts from TAI</u>		
For PF Advances	85,50,000	11,15,000
For Gratuity Payments	7,68,826	7,72,540
For Provident Fund Payments	30,64,745	1,12,48,346
Total	<u>1,23,83,571</u>	<u>1,31,35,886</u>

Schedule - 13

Other Receipts

Donations for Medicines	24,480	12,240
Staff Welfare Fund	2,500	2,580
Interest on FFD A/c	2,29,853	3,11,484
Interest on Saving A/c (Earmarked Fund)	45,721	60,894
Miscellaneous Receipts	98,611	4,020
Earnest money	10,700	75,100
Security deposit	1,97,600	56,706
Training under RNTCP	2,00,600	3,600
Project-Mapping of antimycobacterial drugs	1,35,000	-
Project- Effect of counselling	-	1,26,000
Project-NTM Diseases	-	-
NABL Servillance Fees	22,066	12,980
Interest accrued encashed	5,00,290	-
Total	<u>14,67,421</u>	<u>6,65,604</u>

NEW DELHI TUBERCULOSIS CENTRE

Schedule- 14

	For the year 2021-22	For the year 2020-21
	(Rs.)	(Rs.)
<u>Staff Expenditure</u>		
Salaries	2,64,91,438	2,56,31,928
Dearness Allowance	68,23,208	42,69,937
House Rent Allowance	64,60,600	57,78,682
Transport Allowance	21,70,695	19,69,029
Other Allowances	16,65,203	16,19,075
Children's Education allowance	4,05,000	4,16,786
Contribution to Provident Fund	32,66,589	29,38,733
Contribution to Gratuity Fund	-	-
Bonus	1,70,107	1,59,734
Travel Concession	43,529	1,850
Total	<u>4,74,96,369</u>	<u>4,27,85,754</u>

Schedule- 15

Administrative Expenses

Wages to Contractual staff	14,96,764	15,47,095
Salary to Contractual Staff	10,89,919	7,83,149
Security Expenses	12,25,995	12,77,656
Medical Aid to staff	2,93,477	2,80,436
Travelling Expenses & Conveyance	13,527	7,010
Repairs to Furniture and equipment	2,29,935	1,50,095
Repairs to Laboratory equipment	2,03,145	1,59,214
Telephone Expenses	1,07,930	1,22,169
Printing & Stationery	1,63,879	1,36,090
Postage	3,969	9,572
Laundry Charges	4,459	3,238
Maintenance of car	43,310	32,258
Audit Fee	24,780	24,780
Miscellaneous expenses	1,88,223	1,87,691
Building maintenance -civil	6,73,404	21,70,612
Building maintenance -Electrical	45,523	3,16,527
Annual day expenses	98,088	10,000
Advertisement	-	25,709
Furniture	42,200	2,97,818
Interest to Govt. of India	3,37,828	6,24,351
Linen and bedding	1,733	-
Total	<u>62,88,088</u>	<u>81,65,470</u>

NEW DELHI TUBERCULOSIS CENTRE

<u>Schedule- 16</u>	For the year 2021-22	For the year 2020-21
	(Rs.)	(Rs.)
<u>X-Ray Films ,Drugs and Medicines & Lab. Consumable</u>		
X-Ray FilX-Ray Films and Chemicals	56,461	61,981
Drugs and Medicines	39,984	31,154
Laboratory Stains and Chemicals	4,05,151	5,77,756
Total	<u>5,01,596</u>	<u>6,70,891</u>
<u>Schedule- 17</u>		
<u>Payments from TAI Fund</u>		
PF Advances	85,50,000	11,15,000
Gratuity Payments	7,68,826	7,72,540
Provident Fund Payments	30,64,745	1,12,48,346
Total	<u>1,23,83,571</u>	<u>1,31,35,886</u>
<u>Schedule- 18</u>		
<u>Other Payments</u>		
settlement of gratuity a/c	2,96,369	1,23,680
Earnest money	-	8,962
Staff Welfare Fund	1,000	1,000
Donation fo medicines	42,973	17,560
General Donations	2,11,000	-
Research Fund	-	-
Auditorium Fund	1,008	-
Security deposit	2,58,140	31,093
Project-Framework of TB care in prison	-	1,19,064
Training under RNTCP	2,07,637	44,065
Project Active Case Finding Compaigh	-	94,413
Project Mapping of Anti Bacterial Drugs	2,20,000	80,000
Project- Effect of counselling	-	1,95,383
Project- NTM Diseases	2,14,838	24,968
NABL Servillance Fees	25,606	36,580
Total	<u>14,78,571</u>	<u>7,76,768</u>

NEW DELHI TUBERCULOSIS CENTRE

Annexure 1 (for the year ended 31st March 2022)

	Grant-in-aid Salaries	Grant-in-aid General
	(Rs.)	(Rs.)
INCOME		
Opening surplus/(Deficit) (01.04.21)	7,49,139	(2,13,502)
Grant-in-aid from Govt.of India	4,95,00,000	66,00,000
Maintenance Grants from TAI	-	10,000
Fees from Patients	-	31,200
Other receipts	-	98,611
Total	<u>5,02,49,139</u>	<u>65,26,309</u>
EXPENDITURE		
Salary & Other Staff expenditure	4,88,24,469	-
Administrative Expenses	-	59,52,388
Expenses on X-Ray Films, Drugs & Medicines and Lab. Consumable	-	4,76,938
Total	<u>4,88,24,469</u>	<u>64,29,326</u>
Surplus/(Deficit)	14,24,670	96,983
Total Surplus(Deficit) as on 31.03.2022		<u>15,21,653</u>

NEW DELHI TUBERCULOSIS CENTRE

Schedule – 19

Significant Accounting Policies and Notes to Accounts

A. Significant Accounting Policies:

1. Accounting Convention :

The Financial Statements have been prepared on accrual basis (except as specifically stated) and under the historical cost convention, and in accordance with the generally accepted accounting principles in India.

2. Use of Estimates:

The preparation of the Financial Statements in conformity with GAAP in India requires management to make estimates and assumptions, wherever necessary, that affect the reported amount of assets and liabilities and contingent liabilities as at the date of financial statements and the amount of revenue and expenses during the year. Actual results could differ from those estimates. Any revision to such estimates is recognized in the year in which the results are known / materialized.

3. Revenue Recognition:

Income & Expenditures have been accounted for on accrual basis except for leave encasement.

4. Fixed Assets & Depreciation:

- a) Fixed Assets are stated at cost, Assets received as donation are stated at estimated market value on the date of donation.
- b) Centre has started charging Depreciation from the Financial Year 2011-12 on its Fixed Assets as per rate prescribed under Income Tax Act, 1961.
- c) Further, Depreciation has been debited to the Assets Fund by Crediting Cost of respective Fixed Assets.
- d) Capital items having cost / value less than Rupees Five Thousand are not capitalized.
- e) Assets Fund has been credited with the cost/value of Fixed Assets acquired during the year by debiting Income & Expenditure account and / or Project Fund.

5. Inventories:

Laboratory stains, chemicals and glassware and x-ray films & chemicals are valued at purchase price following FIFO method (Refer Note No. 4).

6. Gratuity :

Provision towards gratuity liability is being made on adhoc basis (as per the rules of

Tuberculosis Association of India) and the said fund is maintained by Tuberculosis Association of India. However from Financial Year 2019-20 onwards the said fund is maintained by the Centre. The accumulated balance as on 1st April, 2019 of the said fund lying with Tuberculosis Association of India is yet to be received by the centre.

7. Provident Fund :

As per rules of Tuberculosis Association of India (TAI), accounts relating to Provident Fund of the staff of the Centre have been maintained by the (TAI).

8. Interest Incomes :

Interests earned on the Investments of Earmarked Funds have been credited directly to such Fund instead of Income & expenditure Account.

B. Notes to Accounts

1. In absence of any demands by the Lok Nayak Hospital for water expenses and for electricity charges from May 2018 onwards no liabilities have been provided for.
2. TDS recoverable as on 31st March, 2022 amounting to Rs. 3,64,652/- for which management is making effort to recover the same from the Tax Department.
3. Title deed of the land on which Buildings are situated is not available.
4. Cost / Value of stock are as valued and verified by the Management.
5. As per Letter from Ministry of Health & Family welfare, Government of India bearing file no. W.11034/02/2020-CCD dated 28th January 2021 and according to GFR, Interest received on the Grants from Government should be refunded and any un-spent balances of Grants should not be adjusted with future Grants. Interest for the year has been credited to current liabilities instead of crediting the same to Income & Expenditure accounts.
6. Previous year's figures have been regrouped / rearranged wherever considered necessary.

Admn. Officer
(Sulekha Chakrawarti)

Director
(Dr. K.K. Chopra)

Financial Adviser
(Sh. T. Ahluwalia)

Chairman
(Dr. Ashwani Khanna)

Place: New Delhi

Date: 19.10.2022