

National Institute of Tuberculosis and Respiratory Diseases

**Autonomous Institute under Ministry of Health and
Family Welfare, Govt. of India**

Sri Aurobindo Marg, New Delhi – 110030



ANNUAL REPORT

2023-2024



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माननीय केंद्रीय मंत्री
Hon'ble Union Minister
स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार
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श्री प्रतापराव जाधव
Shri Prataprao Jadhav



श्रीमती अनुप्रिया पटेल
Smt. Anupriya Patel

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Hon'ble Minister of State
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Ministry of Health and Family Welfare, Govt. of India

PREFACE



The National Institute of Tuberculosis and Respiratory Diseases (NITRD), originally established as a tuberculosis sanatorium in 1952, has undergone a remarkable transformation into one of India's foremost institutes in the field of respiratory diseases. Gaining the status of an Institute in 1991 and later earning national recognition in 2013, NITRD has consistently evolved to meet the growing demands of the healthcare sector, particularly in the areas of tuberculosis (TB) and other respiratory diseases. This evolution reflects the unwavering commitment of the Government of India, the institute's governing body, and its faculty, staff, and students who have driven the institute's success for over seven decades.

NITRD's journey from a small TB sanatorium to a globally recognized center of excellence for respiratory diseases is a testament to its resilience and dedication. Initially focused on tuberculosis, the institute's scope has broadened significantly to encompass in the field of respiratory medicine ,Interventional diagnostic and therapeutic bronchoscopy, Lung Cancer and Robotics Surgery. The institute's leadership has played a crucial role in this evolution, ensuring that it remains at the forefront of medical research, patient care, and education.

In recent years, NITRD has become a national leader in supporting the Revised National Tuberculosis Control Programme (NTEP), contributing to policy formulation, clinical research,

and healthcare services. The institute provides high-quality preventive, diagnostic, curative, and rehabilitative services, particularly for tuberculosis, making it a critical player in India's fight against this infectious disease. The number of patients attending the institute has increased by more than 10% over the last five years, with over 3 lakh patients seeking care annually. This growth reflects the institute's ability to provide cutting-edge medical services, which include advanced thoracic surgeries, diagnostics, and treatment for multi-drug-resistant tuberculosis (MDR-TB).

NITRD's contributions to India's National Tuberculosis Elimination Programme (NTEP) have been pivotal in guiding the country's response to tuberculosis. As a WHO Collaborating Centre, NITRD conducts specialized training for healthcare professionals from around the world, contributing to global efforts in TB elimination. The institute's faculty members are frequently invited to serve on expert committees and have been instrumental in developing national guidelines for TB management. Furthermore, NITRD regularly hosts training sessions for state TB officers, medical professionals, and healthcare workers, ensuring that knowledge and expertise are shared nationwide.

One of the most notable accomplishments of NITRD in recent years was its recognition under the Kayakalp Scheme, which promotes cleanliness, hygiene, and infection control in healthcare settings. In 2018, NITRD received a Certificate of Commendation and a cash prize for its efforts to enhance patient care quality through improved hospital hygiene and infection control. This achievement is particularly significant in an infectious disease hospital where the risk of cross-contamination is high. By implementing stringent infection control measures, NITRD has set an example for other hospitals in the country.

The institute's focus on utilizing advanced technologies is another key factor behind its success. NITRD has introduced state-of-the-art facilities such as robotic-assisted thoracic surgeries, advanced radiological equipment, and microbiological diagnostics. The establishment of a blood bank storage facility, oxygen generating plant, and skill laboratories for radiology procedures further strengthens its capacity to provide comprehensive healthcare services. These developments not only improve patient outcomes but also enhance the institute's ability to treat complex cases referred from across the country and neighboring nations.

Research has always been a core component of NITRD's mission. The institute conducts a wide range of research projects, particularly in the field of tuberculosis diagnostics, therapeutics, and vaccines. NITRD's Department of Microbiology, recognized as a National Reference Laboratory (NRL) under the NTEP, plays a vital role in monitoring and assessing tuberculosis cases across multiple states in India. It is also a National Centre of Excellence for the WHO/GLI TB Supranational Laboratory Network, further underlining the institute's global significance in TB research.

NITRD has initiated several collaborative research projects with international organizations such as Médecins Sans Frontières (MSF) and Henry Ford Hospital, USA, focusing on antibiotic resistance and TB diagnostics. These partnerships allow NITRD to contribute to global medical knowledge while improving patient care within the country. The institute's research initiatives have resulted in numerous scientific publications, showcasing its role as a thought leader in the field of respiratory medicine.

The institute has also embraced e-learning and digital innovations to expand its reach. In 2018, NITRD launched the e-NISCHIT (National Initiative to Strengthen Collaboration between HIV and TB) program, a web-based distance learning initiative designed to disseminate information about MDR-TB and HIV-TB co-infections. More than a year after the launch and subsequent success of the HIV-TB program – NITRD decided to leverage the ECHO Model to training of faculty of medical colleges to disseminate knowledge regarding TB elimination programme. In August 2020, medical colleges and the DRTB ECHO programme merged to form “NITRD-Difficult to treat TB Clinic”. This initiative, which was attended by hundreds of delegates across India, exemplifies the institute’s commitment to leveraging technology to educate healthcare professionals and improve patient outcomes.

As an academic institution, NITRD places a strong emphasis on training the next generation of healthcare professionals. The institute offers post-graduate training in thoracic surgery, microbiology, and respiratory medicine, equipping students with the skills needed to tackle the growing burden of respiratory conditions in India. In addition, the institute regularly conducts workshops, seminars, and conferences to share knowledge with healthcare workers from around the world.

NITRD’s Continuing Nursing Education (CNE) Cell ensures that its nursing staff remains up-to-date with the latest advancements in patient care. Over the past year, a total of 108 lectures/presentations took place under CNE CELL including all the External lectures, case presentations under e-NEETI or presentations given by Nursing Officers or Senior Nursing Officers working in different areas which was attended by 3216 participants in all, highlighting the institute’s commitment to maintaining high standards of care.

Looking to the future, NITRD is poised to continue its upward trajectory, with several expansion plans already underway. The institute is implementing a new Master Plan aimed at meeting the growing demands of the healthcare sector. This plan includes the construction of new facilities, the introduction of green technologies such as solar panels and rainwater harvesting systems, and the expansion of its training and research capabilities.

NITRD’s long-term vision is centered on achieving “TB Mukht Bharat” (TB-free India) and contributing to global efforts to eradicate tuberculosis. To this end, the institute is committed to embracing new technologies and innovative treatment modalities, enhancing its ability to diagnose, treat, and prevent respiratory diseases. The introduction of a mobile app for patients and doctors is one example of how the institute is using technology to improve patient access to healthcare services and ensure better communication between patients and medical professionals.

As NITRD continues to expand its facilities, embrace new technologies, and foster international collaborations, it remains dedicated to its core mission of providing high-quality care, conducting pioneering research, and training the next generation of healthcare professionals. With its focus on achieving a TB-free India and contributing to global health efforts, NITRD is on a path of sustained excellence and innovation. The institute’s ongoing efforts will undoubtedly leave a lasting impact on respiratory health, both in India and across the world.

Prof (Dr) Manpreet Bhalla

Director

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Nirman Bhawan, New Delhi
5. **Shri K. K. Tripathy** ... **Member**
Economic Advisor
Ministry of Health & Family Welfare
Nirman Bhawan, New Delhi

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| 10 | Dean, Faculty of Medical Sciences
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University of Delhi
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| 11 | Vice Chairman
TB Association of India
3-Red Cross Road
New Delhi 110 002 | ... | Member |
| 12 | Medical Commissioner (ESIC)
Employees State Insurance Corporation
Kotla Road, New Delhi 110 002 | ... | Member |

- 13 The Secretary General** ... **Member**
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Non-Official Members

- 14 Prof. (Dr.) D. Behera** ... **Member**
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- 15 Dr. Shailendra Nath Gaur** ... **Member**
 HOD, Deptt. of Respiratory Medicine
 & Tuberculosis, Sharda Hospital,
 Greater Noida, Uttar Pradesh

- 16 Prof. (Dr.) Rajesh Chawla** ... **Member**
 Respiratory Medicine Specialist
 Deptt. Of Institute of Critical Care Respiratory
 & Sleep Medicine
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 New Delhi.

- 17 Dr. Raman Gangakhedkar** ... **Member**
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Eminent Social workers/Community involved in the control and management of Tuberculosis & Respiratory Diseases

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 IMT Manesar
 Gurgaon-122050

Director, NITRD, Member Secretary

20 Dr. Manpreet Bhalla ... **Member Secretary**
 Director & Member Secretary
 National Institute of TB and RD
 New Delhi 110030

List of Standing Finance Committee Members

- | | | | |
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| 02. | Shri Jaideep Kumar Mishra
Additional Secretary & FA
Ministry of Health & Family Welfare
Nirman Bhawan, New Delhi | ... | Member |
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Economic Advisor
Ministry of Health & Family Welfare
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Ministry of Health & Family Welfare
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Director (CGHS)
Ministry of Health & Family Welfare
Nirman Bhawan, New Delhi | ... | Member |
| 07. | Dr. Manpreet Bhalla
Director & Member Secretary
National Institute of TB and RD
New Delhi-110030 | ... | Member Secretary |

LIST OF STANDING ESTATE COMMITTEE MEMBERS

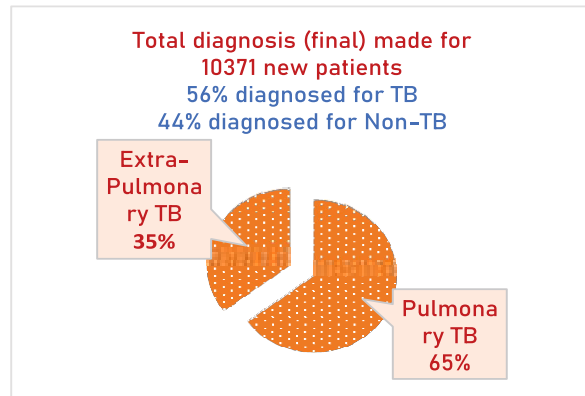
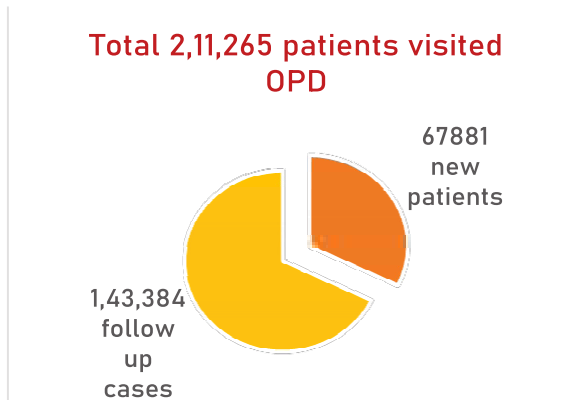
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|------------|--|-----|-------------------------|
| 01 | Joint Secretary (TB)
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New Delhi | ... | Chairman |
| 02 | JS-IFD, MoHFW
Ministry of Health & Family Welfare
Nirman Bhawan
New Delhi | ... | Member |
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Ministry of Health & Family Welfare
Nirman Bhawan
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| 04 | Senior Architect
Directorate General of Health Services
Ministry of Health & Family Welfare
Nirman Bhawan
New Delhi | ... | Member |
| 05 | Chief Engineer (NDZ) 1
CPWD
New Delhi | ... | Member |
| 06. | Dr. Manpreet Bhalla
Director & Member Secretary
National Institute of TB and RD
New Delhi 110030 | ... | Member Secretary |

National Institute of Tuberculosis and Respiratory Diseases

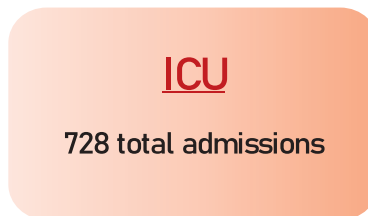
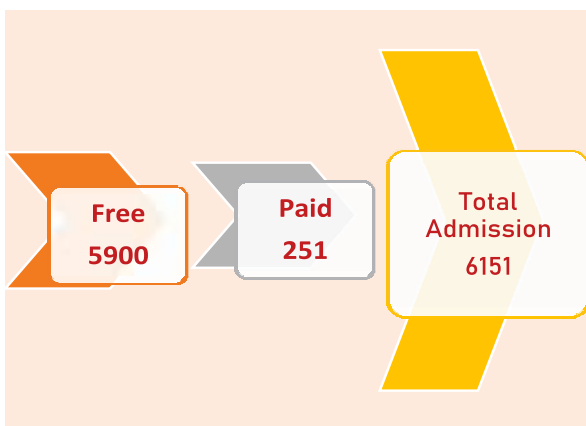
Year at a glance

1st April 2023 – 31st March 2024

OPD



IPD



Thoracic Surgery

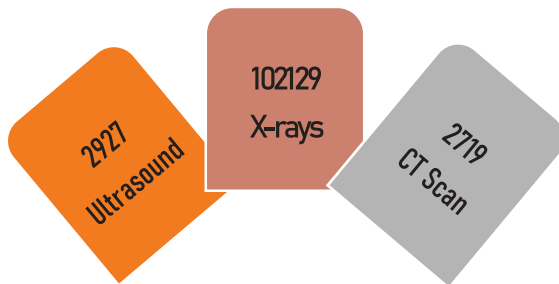
Total major surgeries done: 475

National Institute of Tuberculosis and Respiratory Diseases

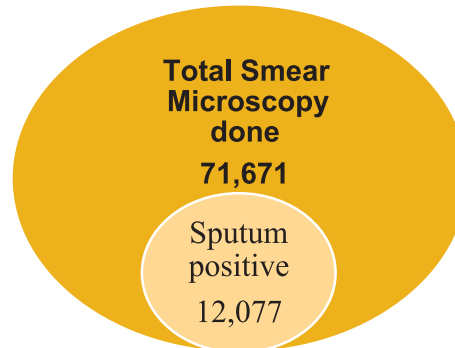
Year at a glance

1st April 2023 – 31st March 2024

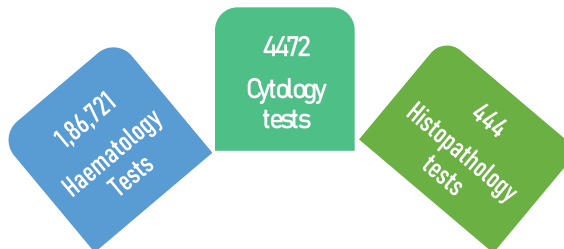
Radiology



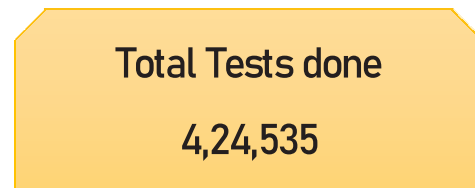
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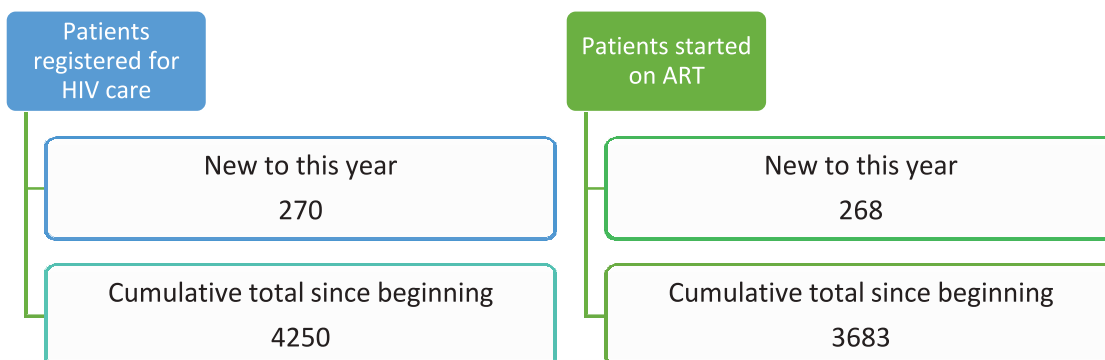
Pathology



Biochemistry



ART



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Background of Institute

1.1 Introduction

LRS TB hospital was established by TB Association of India in 1952. The hospital was upgraded into an autonomous Institute in 1991 by Government of India. The Institute was renamed as LRS Institute of Tuberculosis & Respiratory Diseases as an autonomous Institute under the Ministry of Health & Family Welfare, Government of India, and now, it has been upgraded to National Institute of Tuberculosis and Respiratory Diseases. The Institute is the part of Ayushman Bharat Scheme. The Institute is also well recognised for diagnosis, treatment, teaching, training and research in the field of tuberculosis and respiratory diseases.

The Institute is registered as a society under the Societies Registration Act, (XXI), 1860. The Union Minister of Health & Family Welfare is the President of the Institute and the Union Secretary (Health) is the Chairman of the Governing Body. Director General Health Services is the Vice-Chairman and the Additional Secretary (Health) is the Alternative Vice-Chairman of the Governing Body of the Institute. The Director is the Chief Executive Officer.

The Institute is spread over an area of 25 acres of land in South Delhi and has various departments to carry out the activities in accordance with the objectives of the Institute. These departments are:-

1. Department of Anaesthesia
2. Department of Bio-Chemistry
3. Department of Epidemiology & Public Health
4. Department of Hospital Administration
5. Department of Internal Medicine
6. Department of Microbiology
7. Department of Molecular Medicine
8. Department of Paediatrics
9. Department of Pathology
10. Department of Physiology
11. Department of Radiology
12. Department of Respiratory Critical Care
13. Department of TB & Respiratory Diseases

14. Department of Thoracic Surgery and Surgical Anatomy
15. Department of Thoracic Oncology
16. Department of Training

1.2 Treatment

1.2.1 Outdoor

The Institute runs a daily OPD and the registration is computerized. The patients are registered as Area, Non area (within Delhi) or Outsiders because the patients are not only coming from the specified NTEP area of the Institute but also from whole of Delhi and adjoining states like Haryana, Rajasthan, UP, Bihar etc. Besides the routine OPD, the Institute runs specialized clinics to focus on specific areas in Respiratory Medicine.

1.2.2 Indoor treatment facility

The Institute provided indoor treatment to the serious patients of tuberculosis and respiratory diseases through the available 470 beds in wards and ICU during the year.

Distribution of total beds in the Institute

S. No.	Ward	Total
1	MDR (Male & Female)	45
2	T. B. (Male & Female)	188
3	Non- TB (Male & Female)	89
4	Thoracic Surgery	27
5	Paediatric (TB-27 & Non-TB-7)	34
6	ICU	14
7	PVT	40
8	Emergency(20) + Chemo(8) + O. T.(4) + Sleep Lab(1)	33
	Total	470

1.3 Teaching & Training

The Institute is recognised for imparting training for the award of degree by Diplomate of National Board in Respiratory Diseases since 1999. The Institute is a recognized center for post-graduate DNB (Respiratory Diseases) three years degree course since 1999 and is admitting ten students to the course every year. It is also recognized for post-graduate DNB (Respiratory Diseases) 2 years degree course since 2014 and is admitting nine students to the course every year. The Institute is also recognized for DNB Thoracic Surgery (Super Speciality) Degree course

and admits two students to the course every year. It is also recognized for DNB Microbiology course and is admitting two students every year. The Institute also provides teaching and guiding facilities for various post- graduate (M.D. / PhD) courses of various Universities. M.Ch. (CTS) students of AIIMS, New Delhi are posted here for thoracic surgery training.

Training is also imparted in the management of tuberculosis to the nursing students from Rajkumari Amrit Kaur College of Nursing and to the nursing students of other institutions of the country. The Institute is actively involved in the training of various medical and paramedical personnel who visit from other states of our country, in implementation of strategies under National Tuberculosis Elimination Programme. The Institute is also actively involved in organising various Continuing Medical Education (CME) programmes or Workshops on different aspects of diagnosis and management of tuberculosis and respiratory diseases.

1.4 Manpower

At present, the Institute has 49 Group-A, 188 Group-B and 218 Group-C Staff in position. In addition, 16 senior residents are working on tenure/adhoc basis.

Posts	Group A	Group B	Group C	Senior Resident	Total
Sanctioned Posts	55	193	286	23	557
Working at Present	49	188	218	16	471

Out Patient Department

National Institute of TB and Respiratory Diseases has the patients attending from Delhi as well as from the adjoining states of Delhi like Haryana, Rajasthan, UP, Bihar etc. The patients who visit the Institute within the specified area of the Institute (as assigned by State TB Office) are labeled as Area patients, the patients who visit from within Delhi but beyond specified area of the NITRD are labeled as Non-Area patients and those visiting from the adjoining states of Delhi are termed as Outside patients.

2.1 New Registrations (Chest Symptomatics)

A total of 67881 chest symptomatic attended the NITRD-OPD. Of these, 11799 (17.38%) patients came from the specified area of the Institute, 37410 (55.11%) came from Non-Area within Delhi, while 18672 (about 27.51%) came from outside Delhi as shown in Table-1a. Hence, majority (82%) of the patients who attended the NITRD-OPD were from Non-Specified area of Delhi or from outside Delhi indicating that the Institute is very popular in the northern part of the country. Considering 13437 Symptomatic at the NITRD DOTS Centres (other than NITRD OPD) as shown in table 1b, the total number of Symptomatic under NITRD were 81318.

**Table -1a: NEW OPD Registrations (Chest Symptomatics) at NITRD OPD
(April-2023 to March-2024)**

	Adults		Children		Total	
	M	F	M	F	No	Percentage
Area (DOTS) Patients (From Specified NTEP area of the Institute) visited directly to NITRD	5439	5043	699	618	11799	17.38%
Non-Area (Beyond specified area but from Delhi)	18740	15656	1487	1527	37410	55.11%
Outsiders (From Outside Delhi)	10354	7181	582	555	18672	27.51%
Total	34533	27880	2768	2700	67881	100%
	62413		5468		67881	

**Table 1b: Total Symptomatics under NITRD (OPD+ NTEP DOTS Centres)
(April-2023 to March-2024)**

Locality	Symptomatics at NITRD OPD	Symptomatics at NITRD DOTS centres other than NITRD OPD	Total Symptomatics at NITRD
Area (DOTS) Patients (From Specified NTEP area of the Institute) visited directly to NITRD	11799	13437	25236
Non-Area (Beyond specified area but from Delhi)	37410	0	37410
Outsiders (From Outside Delhi)	18672	0	18672
Total	67881	13437	81318

2.2 Distribution of Symptomatics

The patients who come to the Institute for seeking treatment are investigated and after confirmation of diagnosis, are referred to their respective DOTS centres or chest clinics for further treatment of tuberculosis. Diagnosis of symptomatics is given in Table 2a.

Table 2a: Diagnosis of Symptomatics (April-2023 to March-2024)

Code	Diagnosis	Provisional Diagnosis			Final Diagnosis		
		Male	Female	Total	Male	Female	Total
1	URTI	1467	1313	2780	357	100	457
2	LRTI	1408	1443	2851	150	273	423
3	Pneumonia	135	110	245	18	14	32
4	PTB	7188	5293	12481	2196	1557	3753
5	TB-Pleural Effusion	1193	612	1805	540	240	780
6	Post TB Sequelae	1995	1062	3057	696	285	981
7	COPD	2114	672	2786	537	138	675
8	Br. Asthma	1377	1123	2500	437	246	683
9	LL.D.	139	118	257	30	38	68
10	Sarcoidosis	47	28	75	5	4	9
11	Carcinoma Lung	226	72	298	44	12	56
12	Bronchiectasis	77	84	161	33	26	59
13	Pul. Eosinophilia	19	14	33	1	6	7

Code	Diagnosis	Provisional Diagnosis			Final Diagnosis		
		Male	Female	Total	Male	Female	Total
14	Occ.LungDiseases	74	43	117	14	8	22
15	Sleep Disorder	10	3	13	3	2	5
16	Lung Abscess	15	8	23	9	1	10
17	Empyema	91	36	127	74	27	101
18	Pneumothorax	22	13	35	47	7	54
19	Hydropneumothorax	68	17	85	43	23	66
20	Other Disease	1673	1707	3380	425	420	845
21	Metastasis Lung	9	3	12	3	0	3
22	AIDS	13	2	15	11	0	11
23	Smoking	37	2	39	12	0	12
24	ABD LN Tubercular	342	378	720	104	177	281
25	TB LN Tubercular	649	929	1578	290	423	713
26	Miliary TB	19	15	34	21	18	39
27	Skeletal TB	124	139	263	91	85	176
28	TBM	31	47	78	19	31	50
	Sub Total	20562	15286	35848	6210	4161	10371
0	Not Yet Diagnosed	0	0	0	8	5	13
29	Absent	495	240	735	60	22	82
	Total	21057	15526	36583	6278	4188	10466

Among the finally diagnosed cases, 5792 (about 56%) had TB, of whom, about 65% had Pulmonary TB, while about 35% had Extra-pulmonary TB. About 44% were non TB cases).

Table 2b: Diagnosed TB and Non-TB cases (April 2023 - March 2024)

Diagnosis		Provisional Diagnosis	Final Diagnosis
TB cases	Pulmonary TB	12481	3753
	Extra Pulmonary TB	4478	2039
	Total TB cases	16959	5792
Non TB cases		18889	4579
Total Diagnosed		35848	10371
Absent		735	82
Not yet diagnosed /Status not available = 13			

All area cases, who came to NITRD OPD, were investigated and after diagnosis those having TB were referred back to NITRD-DOTS centres for treatment. All TB and Non-TB cases having serious illnesses were hospitalised for treatment at NITRD.

Table-3 shows that after diagnosis, 11116 TB cases were referred out from NITRD-OPD to NITRD-DOTS Centers or to Chest Clinics in Delhi or to neighbouring states. Among 11116 TB cases who were referred out, 2006 (about 18%) were referred out to NITRD-DOTS centres, 6215 (about 56%) to non-area chest clinics in Delhi and remaining 2895 (about 26%) to outside Delhi Chest Clinics.

Table 3: Total TB cases diagnosed and referred out from NITRD to DOTS centres (April 2023 to March 2024)

Locality	TB cases Diagnosed and Referred out from NITRD to their chest clinics for DOTS treatment
Area (DOTS patients from specified NTEP Area of the Institute) visited directly to NITRD	2006
Non-area (Beyond specified area) but from Delhi	6215
Outsiders (Outside Delhi)	2895
Total	11116

2.3 Distribution of TB Cases Registered under NTEP

Among the total of 2418 TB cases (table 4), there were 554 (23%) new smear positive pulmonary TB, 451 (19%) new smear negative PTB, 973 (40%) Extra-pulmonary TB, 197 relapses, 10 failures, 46 Treatment after Defaults and 185 other re-treatment cases.

Table -4 : NTEP Data :All New and Retreatment cases (April-2023 to March-2024)

Age Groups		New Smear Pos.	New Smear Neg.	New EP TB	Others	Relapse	Failures	Treatment after Default	Others	Total
0-14	M	11	12	67	0	0	0	0	4	94
	F	25	33	64	0	3	0	0	10	135
≥15	M	325	198	386	0	130	6	39	83	1167
	F	193	208	456	2	64	4	7	88	1022
Total	M	336	210	453	0	130	6	39	87	1261
	F	218	241	520	2	67	4	7	98	1157
Grand Total		554	451	973	2	197	10	46	185	2418

2.4 Age and Sex Distribution of New Smear Positive PTB Cases

Table-5 shows the age and sex distribution of new smear positive TB cases registered under NTEP. It can be seen that majority (87.5%) of the new smear positive cases belonged to 15-54 year age group.

Table -5: NTEP Data : Age and Sex Distribution of New Smear Positive Pulmonary TB cases only from Table (5) Column 1

Sex	Age Groups							Total
	0-14	15-24	25-34	35-44	45-54	55-64	>=65	
Male	11	78	98	63	51	30	30	361
Female	28	115	51	20	22	9	8	253
TOTAL	39	193	149	83	73	39	38	614

2.5 Respiratory Emergency

As seen from table-6(a), a total of 65387 patients attended the emergency ward. Of these, 11595 (about 17.73%) required to be admitted in the hospital. Table-6(b) shows that majority (65.8%) had tuberculosis.

Table 6(a) : Respiratory Emergency Data (April-2023 to March-2024)

		Male	Female	Total
	Total Patients Attended the emergency			65387
1	Admission to ward from emergency	7796	3799	11595
2	Number of Deaths in Emergency			665
3	Number of patients referred out from emergency			600
4	Number of Patients who came to emergency for Nebulization and/or Injection			44124
5	Number of Patients put on Ventilator			568
6	Number of Patients put on Bipap			1662
7	Number of ICDs put in emergency			1077
8	Number of ECG done in emergency			1376
9	Number of blood sugar done by Glucometer			5328

**Table 6(b) : Type of patients attended the Emergency
(April-2023 to March-2024)**

S.No.	Type of Disease	No.	%
1	Tuberculosis (TB)	13959	65.8%
2	Pneumothorax	428	2.02%
3	Post TB Sequelae	1383	6.52%
4	Bronchial Asthma	263	1.24%
5	COPD	1367	6.44%
6	Tubercular Pleural Effusion	421	1.99%
7	Empyema/Pyopneumothorax/Hydropneumothorax	387	1.82%
8	CA Lung	100	0.47%
9	Miscellaneous conditions/ Non-Respiratory conditions	2905	13.70%
	Total	21213	100.00%

2.6 Total Cases in OPD (OPD Load)

The total number of patients who attend the NITRD-OPD constitute mainly six groups: (i) New registrations (ii) Follow-up visits by TB & Non TB patients (iii) Patients in ART Centre (iv) Patients in Special Clinics (v) Patients in Emergency ward and (vi) Staff Out-patients.

Table-7 shows that a total of 318236 patients visited the Institute during the year. Of these, 67881 were new symptomatic. 143384 patients made Follow-up visits. During the year, OPD worked for 303 days. It was observed that on average, a total of 971 patients visited NITRD per day including 216 new registrations.

Table 7: Total Patients visited NITRD OPD (April-2023 to March-2024)

	Adults			Children		Total
	Male	Female	TG	MC	FC	
New Registrations	34533	27880	0	2768	2700	67881
Subsequent visits by Patients for Diagnosis	76971	57825	0	4172	4416	143384
Patients visited ART clinic	8575	3730	86	142	68	12601
Sub Total	120079	89435	86	7082	7184	223866
Non-TB patients in Special Clinics						19025
Patients attended the Emergency Ward						65387
Number of patients in Staff OPD						9958
TOTAL Patients attended NITRD						318236
Total Number of Working Days						303
Average Number of New Patients per Day						225
Average Total Number of Patients per Day						1053

2.7 Paediatric OPD

Paediatric patients are seen in a Paediatric OPD daily from Monday to Saturday. T.B. patients from the specified area of the Institute are referred to the respective DOTS centres while the others are treated at NITRD OPD. The data is shown in tables 4, 5 and 7.

A total number of 3775 of tuberculin tests were done during the year. Out of these, 2033 (about 54%) were found to be tuberculin positive.

2.8 Special Clinics

The Institute runs various specialised clinics, which are held periodically. The data is shown in table -8.

Table - 8: Special Clinics (April-2023 to March-2024)

S. No.	Name of The Clinic	In-charge	New Reg.	Follows Ups	Total Patients
1	Sleep Clinic	Dr. Rajnish Gupta	61	85	146
2	Lung Cancer Clinic	Dr. J. K. Saini/ Dr. P. Sethi	135	677	812
3	Thoracic Surgical Clinic	Dr. R. K. Dewan	2446	5742	8188
4	Allergy Clinic	Dr. Anil Jain	76	1384	1460
5	Tobacco Cessation Clinic	Dr. J. K. Saini	6316	201	6517
6	Pulmonary Rehabilitation Clinic	Dr. M. M. Puri	474	546	1020
7	ENT Clinic	Dr. Parvesh Yadav	449	303	752
8	PAC clinic	Dr. Prakash Sharma	80	0	80
	Total		10037	8938	18975

Indoor Patient Data

Patients requiring hospitalisation are admitted in the Institute for the treatment of tuberculosis and other respiratory diseases and include cases of multi-drug resistant TB, emergencies such as haemoptysis, pneumothorax etc., surgical patients of respiratory diseases, cases with diagnostic problems and patients requiring intensive care management for tuberculosis and respiratory diseases.

3.1 Total Indoor Admissions and Observations on Indoor cases :

During the period from April 2023 to March 2024, a total of 6151 patients were admitted and 4135 were discharged. Of these, 251 (4.08%) patients were admitted on paying beds, while remaining were admitted on free beds.

As soon as the treatment response was observed clinically, the patients were discharged and referred to respective DOTS centres for further treatment. Therefore, it is observed that among the pulmonary TB cases who were discharged after satisfactory treatment from NITRD (excluding LAMA, Absconded, DOR, Referred or Deaths, and for whom the sputum report was available), the admitted patients with sputum positive results had still not converted to smear negative status possibly due to a shorter duration of stay in the hospital (Table-9).

The admission rate of patients who were put on reserved drugs (Cat- IV or others) decreased because of Nation wide coverage of programmatic management of drug resistance TB (PMDT) programme.

**Table 9 : Sputum Status of Indoor Treated Pulmonary TB cases
(Excluding LAMA/DOR/Absconded and Deaths) (April 2023 - March 2024)**

S. No.	Name of The Clinic	Children	Adults	Total
a)	Total indoor treated PT cases	206	2179	2385
b)	Cases excluded from analysis {LAMA (326)+DOR (254)+Absconded (71)+Referred out (448)+Deaths (714)=1813	53	809	862
c) = (a)-(b)	Total PT cases who were discharged after Treatment	153	1370	1523
d)	Sputum Report Not available at either Admission or Discharge	48	425	473

S. No.	Name of The Clinic	Children	Adults	Total
e)=(c)-(d)	Data analyzed for sputum status at Admission and discharge	105	945	1050
	Number of Patients who were Positive at admission and Remained Positive at Discharge	11	421	432
	Number of Patients who were Positive at admission and Became Negative at Discharge	1	29	30
	Number of Patients who were Negative at admission And became Positive at Discharge	7	87	94
	Number of Patients who were Negative at admission And remained Negative at Discharge	68	435	503

Among the admitted non-TB chest cases, COPD, lung cancer and ILD constituted majority (52%) of cases as shown in table 10.

Table 10: Distribution of Non TB Indoor Treated cases (April 2023 - March 2024)

Sites	Children	Adults	TOTAL	%
COPD	0	698	698	21.44%
Lung Carcinoma	2	831	833	25.58%
ILD	3	161	164	5.04%
Pneumonia	21	210	231	7.09%
Empyema (NonTB)	10	83	93	2.86%
Bronchiectasis	8	127	135	4.15%
Corpupunonale	3	13	16	0.49%
Pneumothorax	1	55	56	1.72%
Bronchial Asthma	6	65	71	2.18%
Lung Abscess	2	36	38	1.17%
Sarcoidosis	0	6	6	0.18%
Tropical PulmEosin	1	4	5	0.15%
Others	36	874	910	27.95%
Total	93	3163	3256	100.00%

Detection of HIV-cases is also done in the Institute. Most of the cases detected were adult males (61.3%). HIV was suspected in 5186 admitted patients, of whom, 127 (2.5%) were found to be HIV positive. All of these 127 HIV patients were adults (Table 11).

Table 11 : HIV Detection among Suspected Patients (April 2023 - March 2024)

	HIV Status	Children		Adults		Total
		M	F	M	F	
PT	HIVPos	1	1	76	8	86
	HIVNeg	65	115	1205	672	2057
EPT	HIVPos	1	0	15	1	17
	HIVNeg	28	34	218	96	376
NonTB	HIVPos	0	0	36	8	44
	HIVNeg	41	35	1628	902	2606
Totaltested		136	185	3178	1687	5186

Among the total of 728 cases admitted in ICU, there were 563 medical (including pediatric cases) and 165 surgical cases. 225 deaths occurred during the year (Table 12). These are included in the total deaths of the Institute.

Table -12: Details of ICU admissions (April-2023 to March-2024)

	Number of Treated cases	Total
Medical patients admitted (ADULTS)	550	728
Medical patients admitted (Pediatrics)	13	
Surgical patients admitted	165	
Cumulative No. of patients treated in rooms for critical care		1992
Cumulative No. of patients treated for intermediate care in high dependency units (HDU)		777
Patient with longest stay (days)		30
Average ICU stay (in days)		4.56
Average bed occupancy in rooms for critical patients (total rooms=6)		5.39
Average bed occupancy in High dependency rooms (HDU) (total beds =8)		2.29
Average Bed Occupancy (Total beds=14)		7.60
No. of patients on Invasive ventilator		334
Total number of ventilator days		1300
No. of Extubations		77
No. of patients on Non-Invasive ventilator		345
Number of average patient days on Non-Invasive ventilator		5.51
Number of ECG done		1009
Number of ABG done		7943
Number of central lines put		192
Number of CVP Days		509
Number of Folley Catheter days		1365
ICD		52

	Number of Treated cases	Total
FNAC		4
Pleural Tapping		61
Bronchoscopy		11
CVP		175
Lung Biopsy		59
Thoracostomy		1
Ultrasound		517
Outcome of treatment in ICU		
Discharge		60
Transfer Out		414
LAMA		13
Deaths (These are included in total deaths at NITRD)		225

3.2 Annual Trends of NITRD's Data Vs National / International Scenario

It is observed that amongst the symptomatics attending the NITRD OPD, about 4/5th are aged between 15-59 years. About 56% of diagnosed cases had TB of either pulmonary or extra-pulmonary type. Even among the hospital admissions, around 70% were aged between 15-54 years. The annual trends of the Institute have remained broadly same over the years and are in line with the Annual Status Report of our country, which suggests that majority of the TB patients are aged between 15-45 years of age. Since this is the most productive period of their lives, TB causes enormous socio-economic consequences for their households and the country at large.

About 5-10% of all TB cases are in paediatric age-group, while the remaining are adults. Globally, paediatric TB cases account for 12% of all TB cases. Similarly, the burden of paediatric TB in our country is also assumed to be 13% of total TB load.

It is seen that males constituted about 55% of all symptomatics attending the NITRD OPD. Among those registered under NTEP, the male patients constituted about 52% of all new smear positive PTB cases. According to the India TB Report, out of all TB cases notified in 2023, 61% were male. The percentage of male patients in the Institute moderately corroborates with the National figure.

Over the years, proportion of EPTB case detection as compared to PTB has been rising. However, in 2022-2023 the EPTB percentage was 30% among all diagnosed at OPD, though in 2023-24 it has been increased to 35%. Irrespective of the minor changes in the last year, the proportion of new EPTB cases has consistently been around 1/3rd of all TB cases in the Institute. For 2023-24, proportion of new EPTB cases registered under NTEP is 40%, since EPTB diagnosis is difficult and requires a number of special tests including invasive techniques, there is a need to develop non-invasive tests and incorporate them in NTEP so that these could be utilized at the periphery itself.

The trends of data from 2014 to 2024 of few Departments and sections are shown in the annexure.

Departments and Sections of the Institute

The National Institute of TB and Respiratory Diseases has several departments and sections to carry out the activities of the Institute. Their staff (including the names of the heads / in-charges) and activities performed by them during the year are mentioned under the respective department and section.

4-A Department of Institute

Various departments functioning within the Institute and their heads are mentioned below.

S. No.	Name of Departments	Name of the Head of Department
4.1	Department of Anaesthesia	Dr. Prakash Sharma
4.2	Department of Bio-Chemistry	Dr. Devika Tayal
4.3	Department of Epidemiology & Public Health	Dr. Neeta Singla
4.4	Department of Hospital Administration	Dr. Upasna Agarwal
4.5	Department of Internal Medicine	Dr. Upasna Agarwal
4.6	Department of Microbiology	Dr. Manpreet Bhalla
4.7	Department of Molecular Medicine	Dr. Paras Singh
4.8	Department of Paediatrics	Dr. Sangeeta Sharma
4.9	Department of Pathology	Dr. Shalini Mullick
4.10	Department of Physiology	Dr. Sanjay Gupta
4.11	Department of Radiology	Dr. Devesh Chauhan
4.12	Department of Respiratory Critical Care	Dr. Rajnish Gupta
4.13	Department of TB & Respiratory Diseases	Dr. Sanjay Gupta
4.14	Department of Thoracic Surgery and Surgical Anatomy	Dr. Ravindra Kumar Dewan and Dr. B. Rama
4.15	Department of Thoracic Oncology	Dr. J. K. Saini
4.16	Department of Training	Dr. Neeta Singla

Detail of each department is given below.

4.1 Department of Anaesthesia

Department of Anaesthesia

Dr. Prakash Sharma	:	Head of Department
Dr. Ashvini Kumar	:	Consultant (Anaesthesia)
Senior Resident (Anaesthesia)	:	Dr. K. Ajay Vishnu

The Department has two centrally air-conditioned, state of the art operation theater with laminar flow. A Pre-operative room, Post-operative room with facility for continuous monitoring of the patient is also present. The Department has state of the art equipments for conduct of Anaesthesia. Following equipments are present in the Department:

- Anaesthesia Workstation -Fabius Plus XL (Draeger)
- High End Electronic Anaesthesia workstation- Atlan (Draeger)
- Pediatric Bronchoscope 2.8 mm ID
- Adult and Pediatric Video bronchoscope 5.6 mm & 4.2 mm ID
- Multiparameter monitors
- Ultrasound Machine - Esaote My lab one
- Fluid and Blood warmer
- Patient Warmer with heating mattress
- Defibrillator
- Video laryngoscope
- High End -Electrohydraulic OT Table

The Department provides following services for the patients:

- PAC Clinic for Pre-anesthetic assessment
- Pre-operative optimization
- Administration of Anaesthesia for various diagnostic and therapeutic procedures.
- Acute pain management
- Chronic Pain Management
- ❖ General Anaesthesia is provided for major thoracic surgical procedures i.e. Lobectomy, Pneumonectomy, Decortication, Thoracoplasty, Mediastinal Masses, Tracheoesophageal fistula, Tracheal tumors, Thoracic duct Repair etc.
- ❖ Regional Anaesthesia in the form of - Thoracic Epidural block, Thoracic Paravertebral block, Interpleural block, Intercostal block, Interscalene block etc. are provided wherever indicated.
- ❖ Monitored Anaesthesia Care (MAC) for high risk surgical patients
- ❖ Insertion of Invasive lines: Central venous cannulation & Arterial catheterization
- ❖ Ultrasound guided Central venous cannulation, Peripheral venous cannulation, Arterial catheterization, Thoracic Paravertebral blocks, Latissimus dorsi block, Erector spinae block etc.

The Department is also involved in teaching activities of DNB students. Anaesthesia Post graduate students from ABVIMS & RML Hospital, AIIMS -Delhi & other Institutions are posted in the Department for training in Thoracic Anaesthesia.

The Department has strength of two consultants, one senior resident and two OT Technicians.

The Department of Anaesthesiology is engaged in clinical anaesthesia, anaesthesia research and education of anaesthesia residents & para-medical staff.

The Operation Theatre Complex has 2 operation theatres, pre-operative induction room, pre-operative & post-operative areas for the ambulatory care services & indoor patients. The operation theatres are well planned with laminar flow air conditioning and hepa filters to maintain absolute sterility. The operation theatres are well equipped with modern anaesthetic machines with adequate safety devices. Both the theatres have state-of-the-art patient monitoring systems and are fitted with centralized anaesthesia gas delivery system.

Pre-anaesthetic clinic is held every Saturday in the OPD where all the ambulatory patients undergo preoperative assessment and optimization prior to surgery and declared fit according to their grades of illness.

SERVICES PROVIDED

- Anaesthesia services for thoracic surgical procedures i.e. pneumonectomy. Lobectomy, thoroscopic procedures, mediastinal masses, tracheal surgeries, tracheo- esophageal fistulas etc.
- Pre-Anaesthetic checkup clinic
- Acute pain relief services
- Chronic pain relief services
- Medical gas supply
- Anaesthesia for radiological procedures

4.2 Department of Bio-Chemistry

Dr. Devika Tayal : Head of Department

Senior Resident : One

Department of Biochemistry is well equipped with Fully automated auto analyzer Ortho clinic Diagnostics 4600 and another fully automated analyser by the same firm 350. Recently department has procured UHPLC (Ultra High Pressure Liquid Chromatography) system, for quantitating levels of TB drugs in patients blood. Dept also has Elisa plate Reader and washer for assaying TSH and IgE levels in blood. Various tests currently available in the department include glucose profile, HbA1C, LFT profile, Protein profile, KFT profile, uric acid, Lipid profile, Fluid assay (including protein, sugar and adenosine deaminase assay) and Electrolyte profile (includes sodium, potassium and chloride) Recently department has also started estimation of Calcium, Magnesium, Phosphorus, Amylase, Lipase, HDL and Triglyceride for patient care.. The various urine assays

available are microalbumin and urine electrolyte assay. The tests are performed on Fully automated analysers using standard kits and techniques. All instruments are kept in working condition and calibrated as per recommendation of manufacturer. Two levels of internal quality control samples are run every day which helps in generating consistent reports. The Department also participates in EQAS (External Quality Assurance Scheme) conducted by CMC Vellore. Department is also involved in various teaching and research activities in the institute. The tests and data of department is given in Table.13.

Table 13: Biochemistry Tests (April 2023 to March 2024)

TOTAL Tests	424535
IPD sample	21620
OPD sample	16676
Number of Samples	38296
Number of Days in the month	302
Average Number of Samples per day	127
Average Number of Tests per day	1406

4.3 Department of Epidemiology & Public Health

Dr. Neeta Singla : **Head of the Department & Research Officer (SAG):**
Dr. Khalid Umer Khayyam : **Consultant**

Department Sections and Responsibilities

- Implementation of the National Tuberculosis Elimination Programme (NTEP)
- Programmatic management of Drug-resistant TB (PMDT)
- Health education activities
- Statistics section
- Medical Social work
- Research activities
- Teaching & Training

I. National Tuberculosis Elimination Programme (NTEP):

This report provides an overview of the Department of Epidemiology and Public Health's activities and responsibilities, focusing on the implementation and achievements of the NTEP. The implementation of the NTEP is a significant activity of the department. This program is coordinated with staff from the State TB Office (STO), Delhi, the Department of TB & Respiratory Diseases, and the Department of Microbiology, NITRD. The NITRD covers a geographical area in the southern part of Delhi, serving a population of about 0.95 million, divided into two tuberculosis units with nine TB Detection and nine Treatment Support Centers (TDCs). The primary aim is to provide Directly Observed Treatment, Short-course (DOTS) to all TB patients, with efforts to establish treatment linkages at the patient's doorstep.

Key Personnel:

- **District TB Officer:** Dr. Khalid Umer Khayyam till 3rd March, 2024 and Dr. Neeta Singla from 4th March, 2024 onwards
- MO-TC: Dr. Neeta Singla
- MO-TC: Dr. K. K. Mathuria

Objectives:

- Eliminating TB: By 2025
- Reducing TB mortality: By 90%
- Reducing TB incidence: By 80%

NTEP Activities

Microscopy Centers/ TB detection centers: Nine centers are operationalized with qualified Laboratory Technicians for TB screening using direct smear microscopy and providing facilities for Universal Drug Susceptibility Testing (DST) by CBNAAT and LPA.

DOT Providers: Each DOT center has a provider responsible for:

- Initial home verification of diagnosed TB patients.
- Providing counseling to patients and family members.
- Initiating daily DOTS as per NTEP guidelines.
- Continuing treatment for patients after discharge.
- Providing TB Prophylactic Treatment (TPT).
- Organizing community meetings.

Information, Education, and Communication (IEC) Activities: Quarterly IEC activities are conducted at each DOT center. Collaborations with NGOs like Rotary Club (Delhi Ridge), St. Marry's Medical Centre, and Jesiah Community Centre enhance these efforts. ESI centers at Tigri and Mehrauli also benefit from DOT services.

Collaborations: Official collaborations exist with institutions like Jamia Hamdard (Hamdard University) for research involving B.Sc Nursing, M.Sc, and Ph.D. students.

Achievements: NITRD-NTEP consistently achieves a 90% cure rate, attributed to the combined efforts of NITRD and STO Delhi.

NIKSHAY Poshan Yojna (NPY): Initiated on April 1, 2018, under the NTEP, this program provides nutrition support incentives to TB patients through Direct Benefit Transfer (DBT) after verifying their bank account details.

Medical College Referral Centers

Two medical college referral centers support the TB program:

1. **NITRD Medical College Referral Centre**
 - o Medical Officer: Dr. Rajat Syngle

2. SJH Medical College Referral Centre

- o Medical Officer: Dr. Deepak Gupta

Each center includes a Medical Officer, Lab Technician, and DOT Provider. Their duties include diagnosing TB suspected patients and referring diagnosed patients to respective DOT centers with a NIKSHAY ID.

TB Champion Mission

Under the Unite to Act project, cured TB patients are trained to support current patients in adherence to treatment and addressing social issues, thereby providing motivation and support.

II. Programmatic Management of Drug-Resistant TB (PMDT)

The National Institute of TB & Respiratory Diseases (NITRD) has been involved in the National TB Programme since its pilot testing in 1995. Currently, NITRD implements PMDT services for a population of 3.7 million in South Delhi. The institute began pilot testing the program for Drug-Resistant TB (DR-TB) in January 2002. The experience gained has significantly contributed to the formulation of the current national policy for DR-TB management. Faculty from NITRD were part of the national expert committee that framed the national PMDT guidelines for managing DR-TB patients.

This report outlines the extensive involvement and contributions of NITRD in managing Drug-Resistant TB, emphasizing its pivotal role in the national framework and its commitment to advancing treatment and diagnostics for DR-TB patients.

Implementation and Activities:

NITRD has been implementing PMDT activities since January 2009, covering a population of 3.7 million for the screening and treatment of DR-TB through four chest clinics: Malviya Nagar, RTRM, Bijwasan, and NITRD. Newer drug-containing regimens, including Bedaquiline and Delamanid, are administered to Pre-XDR and XDR patients at the Nodal DR-TB Centre at NITRD.

Key Components of PMDT at NITRD:

1. Nodal/District DR-TB Committee:

- o Comprises chest specialists, medical specialists, microbiologists, and epidemiologists.
- o Regular meetings to discuss individual patient cases for enrollment in DR-TB regimens, manage adverse drug reactions (ADR), and address other issues.

2. Patient Treatment:

- o More than 1700 patients have been initiated on newer drug-containing regimens (Bedaquiline and Delamanid).

Diagnostics

CBNAAT (Cartridge-Based Nucleic Acid Amplification Test) & TruNAAT:

- Provided by the Delhi Government to NITRD-NTEP through the State TB Officer.
- Enables rapid diagnosis of MDR suspected patients under the NTEP programme.

Bedaquiline:

- Introduced in NTEP for programmatic management of drug-resistant TB in India in 2016.
- NITRD-NTEP was one of the initial sites for Bedaquiline use.
- The first patient was enrolled in July 2016, and currently, more than 1700 patients are on Bedaquiline-containing treatment.

Shorter MDR TB Regimen:

- Initiated as per TOG guidelines, with NITRD being one of the initial sites to start Bedaquiline-containing shorter regimens.

Salvage Regimen:

- Combines newer drugs (BDQ with Delamanid and Imipenem) pilot tested at NITRD with encouraging results, now adopted in the National Programme.

III. Research

The department is actively involved in research activities. Current ongoing research are:

- Safety and tolerability of Bedaquiline and Delamanid with Optimized Background regimen for pediatric DRTB patients aged 6-18 years.
- Evaluate the effectiveness, safety, and tolerability of various doses of Linezolid in combination with Bedaquiline and Pretomanid in Adults with Pre-Extensively Drug-Resistant (Pre-XDR), or Treatment Intolerant/Non-responsive Multidrug-Resistant (MDRTI/NR) Pulmonary Tuberculosis.

Apart from these faculty of the department is part of many ongoing thesis of PG students at NITRD.

4.4 Department of Hospital Administration

Dr. Upasna Agarwal : Head of the Department

The department of Hospital Administration at NITRD is responsible for the overall management and operations of the hospital. The department ensures that patients receive quality care and that the necessary resources and support are available for efficient functioning of the hospital. The hospital administration department is responsible for a wide variety of tasks, including developing and maintaining hospital policies and procedures and managing facility maintenance and repairs. In addition, the hospital administration department works closely with other departments in the hospital to ensure that services and treatments are delivered in a timely, safe, and effective manner.

4.5 Department of Internal Medicine

Dr. Upasna Agarwal : Head of Department

The Department of Medicine runs a daily medicine OPD and gives internal Medicine consults to patients of Respiratory Medicine attending the Institute's OPD and IPD. The department manages a variety of chronic medical conditions like diabetes, hypertension, cardiac diseases, renal failures, neurological complication, etc. It also provides consults on issues like arrhythmias, dyselectrolytemia, septicemia etc to patients admitted in the respiratory ICU at the institute. The

department has special expertise in managing toxicities of newer and other DR TB drugs.

Department of Medicine also runs a free ART Centre under the aegis of National AIDS Control Organization. The centre is having one Senior Medical Officer (SMO), one Counselor, one Data manager, one Staff nurse and one Lab technician. Comprehensive HIV care facilities are provided at the ART Centre. These include free of cost antiretroviral therapy, free CD 4 testing, treatment and prophylaxis of opportunistic infections, patient and family counselling as well as pre-ART support and care services. The centre follows stringent recording and reporting procedures and regularly reports to the National AIDS Control Organization.

The Department of Medicine hopes to provide quality care to people availing its services and to lead in research and training activities in the future.

4.6 Department of Microbiology

Dr. Manpreet Bhalla	:	Head of Department
Dr. Ajoy Kumar Verma	:	Specialist (SAG) Microbiologist
Dr. Ritu Singhal	:	Specialist (SAG) Microbiologist
Dr. Niti Singh	:	Consultant Microbiologist (NRL)
Dr. Gavish Kumar	:	Consultant Microbiologist (NRL)
Mr. Prashant Goswami	:	Consultant Microbiologist (NRL)
Dr. Raj Narayan Yadav	:	Biotechnologist (NRL)
Mr. Sanat Kumar	:	Biomedical Engineer (NRL)
Residents	:	One Senior & three Junior Residents (DNB)

The Department of Microbiology is well equipped to provide diagnostic and research support in the areas of Mycobacteriology, Bacteriology, Mycology, Serology, Parasitology and Molecular Biology.

- Molecular diagnostic services in TB are provided for Rifampicin by GeneXpert and 1st line and 2nd line drugs by Line probe assay.
- Whole Genome Sequencing technology system has also been established with support from Central TB Division for epidemiological surveillance.
- Liquid culture and sensitivity testing facility for first and second line anti-tubercular drugs is available with extended drugs susceptibility (i.e. Linezolid, Clofazimine, Bedaquiline and Delamanid).
- The Department is involved in several extra-mural and intra-mural Mycobacteriology research projects funded by ICMR/ DBT/ FIND and other partners in collaboration with other premier Institutes. Various articles are regularly published in reputed National and International journals.
- Department of Microbiology, NITRD was assessed and accredited in accordance with the standard ISO15189:2012 "Medical Laboratories Requirements for Quality and Competency in the field of Medical Testing in Mycobacteriology, Issue date: 01/08/2022 till 31/07/2024.

- The World Health Organization and Global Laboratory Initiative have recognized the National Institute of Tuberculosis and Respiratory Diseases in New Delhi, India as a National Center of Excellence for WHO / GLI TB Supranational reference laboratory network (SNRL). Trainings are regularly conducted by the Department in collaboration with International Union against Tuberculosis and Lung diseases (IUATLD), WHO and SAARC countries as and when required by the Ministry of Health and Family Welfare India.

List of equipments:

S. No.	Equipment's Name	S. No.	Equipment's Name
1	Biological Safety Cabinet Class II Type A2	12	Refrigerators
2	NuAire class I biological safety cabinet	13	Vortex Mixer
3	GeneXpert Systems	14	GT blot 48 Assay
4	BACTEC™ MGIT™ 960 systems	15	Twincubator
5	Refrigerated centrifuges	16	Thermo cycler
6	Vertical & Horizontal autoclave	17	Hot air oven
7	Incubator shaker	18	PCR hoods
8	Walk-in-incubator	19	Micro scan rapid bacterial identification system
9	Walk-in-cold room	20	ELISA reader and washer
10	Vortex mixer	21	Miseq whole Genome se-quencer system with 22 supporting equipments
11	Deep freezers		

We have also procured equipments for NTM identification, DST and further research activities - Gel Doc Machine, PCR Hood, Spectrophotometer, Gel Electrophoresis have been added.

Lab Facilities:

Mycobacteriology culture & susceptibility system: The section performs smear microscopy, processing of pulmonary and extrapulmonary samples, solid/liquid Culture, identification and Drug Susceptibility Testing for extended drugs. Department has the facility of a BSL-3 laboratory. Department is involved in the accreditation & renewal of FL-LPA, SL-LPA, first line LC-DST, second line LC-DST certification of the 8 different states.

Non-Tuberculous Mycobacterial System: Started in October 2011 and section is a tertiary level referral center for NTM for all states of NRL and receives samples/cultures for identification.

Line Probe Assay System: Started in October 2011, the LPA facility has the strength to conduct DNA extraction, and can perform more than 40 samples or cultures for first-line and second line along with mutations per day.

Gene Xpert System: Started in October 2016, the section is conducting over 80 tests per day. Section has one 16 module machine and one 4 module machine.

Whole Genome Sequencing System: Initiated in 2017, the section has MiSEQ sequencer along with 20 other equipments. Currently the section is under process of performing tests as per CTD mandate and operational research.

Bacteriology: We perform identification and drug susceptibility for all bacteria. The section has a fully automated bacterial identification and sensitivity system (MICROSCAN). The section is also conducting tests received for infection control surveillance.

Mycology: We perform routine KOH microscopy, India ink preparation and fungal isolation (Moulds and yeast) as per standard guidelines. Aspergillus IgG serology is done by ELISA. There is collaboration with Mycology Department of AIIMS for confirmation of Non-sporulating fungi by molecular methods. Galactomannan test for patients has also been started .

Serology: Tests are conducted for HIV, HBsAg, HCV and Typhoid (Widal).

National Reference Laboratory-EQA Section NITRD: NITRD is one of the six NRL's of our country under NTEP. The NRLs work closely with different IRLs and culture and DST laboratories and supervise their activities, undertake trainings of the state staff and support the testator diagnostic services and support them till they are certified in various diagnostic modalities.

Presently eight states of North India (Jammu & Kashmir, Punjab, Chandigarh, Himachal Pradesh, Bihar, Haryana, Ladakh and Delhi) are associated with the NRL. NRL regularly participates in the external quality assessment programme (proficiency testing) of WHO-GLI Supranational Reference Laboratory Network (Antwerp, Belgium) for TB drugs. On-site evaluations (OSEs) are being carried out for all states which includes IRLs, NAAT sites (CBNAAT & Truenat) and DTC/DMC of various districts of these states. NRL also provide technical support for establishment of newer and/or upgradation laboratory in associated states.

On site evaluation:

The on-site evaluation of all states was conducted except Srinagar in 2023

Training's conducted by NRL Dept. of Microbiology: -

- Training of 2 Doctors from National Heart Institute for LC-DST, July 2023
- Virtual sensitization of all linked states for CBNAAT EQA with NTI, Bangalore
- Virtual sensitization of all linked states for TruNat EQA with NTI, Bangalore
- Handholding of IRL Karnal staff for First line LCDST, Feb 2024
- CBNAAT Indicators sensitization of Punjab state LTS and STLS
- IRL ranking tool guidance for the Jammu and Srinagar State
- Hands on training in Truenat for Jammu, Srinagar, Punjab and Chandigarh
- TOT conducted for different states of the country organised by Union for the STLS and MBs.
- Virtual training of the DtOs along with DPS in Delhi
- Induction training of new LT joined in NRL, NITRD, New Delhi
- Hands on training in LC and DST in GGS medical college, Faridkot, Punjab
- Master trainer for training of trainers in EPTB at AIIMS, New Delhi

- Sensitization of LTs and STLS about diagnostic algorithm and NAAT indicators for Punjab state

Training's conducted by Dept. of Microbiology: -

- Training of DTCD students of National heart Institute from 17.07.23 to 26.07.23.
- Training of DMLT course Max Skill dept of Paramedical sciences for 3 batches of students from 06.10.23 to 05.12.23.

Ongoing research projects

- Study of hyaline non- sporulating moulds isolated from clinical samples of tertiary care respiratory hospital in Delhi, India.
- Development of a Next-generation Universal Drug susceptibility testing (NGU-DST) approach for Pulmonary Tuberculosis.
- Development of a Minimally Invasive-Multi-target Diagnostic Platform (Min-Multi Dx) for extra pulmonary tuberculosis using a circulating cell-free DNA-based approach.
- Comprehensive approach on NTM Species Identification, drug susceptibility testing methods, and strengthening NE States laboratories.
- To investigate the diagnostic utility of multiplex micro-beads immunoassay in TB diagnosis.
- Evaluate the effectiveness, safety and tolerability of various doses of Linezolid in combination with Bedaquiline and Pretomanid in Adults with Pre-Extensively Drug Resistant (Pre-XDR), Or Treatment Intolerant/Non-responsive Multidrug-Resistant (MDRTI/NR) Pulmonary Tuberculosis in India.
- Safety and Tolerability of Bedaquiline and Delamanid along with routine drugs for treatment of Pediatrics DRTB in children aged 6-18 year.
- Pretomanid Resistance Surveillance Programme.
- Aptamer-Based Tuberculosis Diagnosis toolbox.
- To evaluate the Patho Detect™ MTB RIF and INH drug resistance kit
 - Part A: To evaluate the Patho Detect™ MTB RIF and INH drug resistance kit for detection of M. tuberculosis.
 - Part B: To evaluate the Patho Detect™ MTB RIF and INH drug resistance kit for detection of RIF and INH drug resistance.
 - Part C: To evaluate sensitivity and specificity of the Patho Detect™ MTB & NTM detection kit for detection of M. tuberculosis (MTB) and Non-Mycobacterium tuberculosis (NTM) in TB suspects in comparison with the gold standard.
- Generic Protocol for Diagnostic evaluation of index molecular test kit(s) compared to the microbiological reference standard for detection of adult pulmonary tuberculosis
- Characterization Of phenotypic and molecular determinants Of Bedaquiline and Linezolid resistance in clinical isolates of Mycobacterium tuberculosis”.

DNB (Microbiology) Thesis Studies during the year 2022-23

S.No.	Title of the study	Student	Guide
1.	To Study the Bacteriological Spectrum and Antimicrobial Susceptibility pattern of device associated hospital acquired infection the Respiratory intensive care unit of a tertiary care Hospital	Dr. Indukala	Dr Manpreet Bhalla Dr Ajoy Verma (Co-Guide)
2.	To study the occurrence of fungal infection in suspected lung cancer patients at the time of diagnosis	Dr Rashmi Purey	Dr Ritu Singhal Dr Manpreet Bhalla (CO-Guide) Dr JK Saini (CO-Guide)
3.	To study the spectrum of antimicrobial resistance and susceptibility pattern among bacterial isolates from empyema thoracis patients.	Dr Ravi Pasrela	Dr AK Verma

Table 14, 15, 16 shows the data of various tests conducted in the department.

Table-14: Pulmonary Smear Microscopy (April 2023 to March-2024)

Source of Sample		Total Samples	Sputum Positives	Percentage	
a) OPD	i) Diagnosis	42420	3472	8%	
	ii) Follow up	-	-	-	
	Total OPD Samples (i)+(ii)	42420	3472	8%	
b) Indoor samples		5775	955	17%	
c) Culture Samples	PTB	(iii) OPD	13964	6288	45%
		(iv) Ward	2765	992	36%
		(v) EPTB	6747	370	5%
	Sub Total (iii)+(iv)+(v)	23476	7650	33%	
Grand Total (a)+(b)+(c)		71671	12077	17%	

**Table 15: Cultures Applied for Pulmonary and Extra Pulmonary Specimens
(April-2023 to March-2024)**

Cultures applied	Conventional culture	MGIT method	Total
Pulmonary	601	10936	11537
Extra pulmonary	0	6848	6848
TOTAL	601	17784	18385

Table -16 : Immunology Tests (April 2023 to March-2024)

Type of Tests	Number	Positives
HIV1&2	8255	126
HBsAg	6887	145
HCV	6887	195
Widal	177	47
Aspergillosis IgG	433	132
Aspergillosis Galactomannan Test	95	22
Total	22714	667

4.7 Department of Molecular Medicine

Dr. Paras Singh : Head of Department

Dr. Neha Sharma : Senior Resident

Department is actively providing various molecular facilities to the patients. The department is involved in WHO-approved rapid LAMP assay, and in multiplex TB PCR. Our department performs WHO approved LAMP Assay routinely for identification and screening of pulmonary and extra-pulmonary TB patients, to contribute in the diagnostics and support the treatment and management of tuberculosis patients in hospital.

Recently our department has also started working on two research and diagnostic project entitled as "To evaluate the diagnostic and add on value of LAMP assay: As a point of care test, in pulmonary pediatric TB cases" and "To evaluate the diagnostic and add on value of LAMP assay: As a point of care test, in extra pulmonary pediatric TB cases". Limited evidence is available on sensitivity of the newly recommended TB LAMP in children on pulmonary and extra- pulmonary specimens. In this study we focus to evaluate the diagnostic efficiency of TB LAMP for detection of M. tuberculosis as a point-of-care test for pediatric samples. This study will contribute to get the TB diagnosis within 1.5 hours of obtaining the sample, so will fasten the diagnosis and there by will aid in early start of treatment of children affected with TB.

The Molecular Medicine department is also facilitating the multiplex TB PCR for IS6110, MPB64, Pab, HSP60, ESAT6, and CFP10. This test provides cost effective diagnostic of tuberculosis

for poor patients in hospital. Monthly statistical data is also submitted for TB-PCR test and LAMP assay contributing towards the patient care services of our dept. The endorsement of this TB LAMP assay will further enhance the treatment and management of tuberculosis patients in our hospital. Our department is also investigating the association of genetic polymorphisms and incidence of pulmonary or Extra pulmonary M. tuberculosis sensitive and drug resistant TB infections.

We have recently published a research article in Applied Microbiology: Open Access journal titled “Rapid and Accurate Point of Care Diagnosis Tool to Combat an Ancient Foe” providing clinical evidence for use of TB LAMP as point of care tool for Adult pulmonary TB cases.

Our department has submitted a project in ICMR, which is in collaboration with Dept. of Biochemistry, Delhi University and Dept. of Biochemistry, AIIMS, titled “Uncovering natural protective mechanisms against Mycobacterium tuberculosis in infection resister individuals from India”. The project is under review in the funding agency.

Our department is also working on Identifying new potent mycobacterial proteins biomarkers and novel antigenic epitopes to be employed in immunodiagnostic and point of care tests for tuberculosis. We are evaluating the prevalence of allelic variation among CCR2 (190Gto A), TRL4 (896A/G & 1196C/T), CCL2, IP10, and MCP-1 genes in Indian populations. The CCL2 (-2518A/G) and TLR4 (D299G or 896A/G & T399I or 1196C/T) gene polymorphisms were studied by PCR-SSP/ PCR-RFLP and genome sequencing method, while the CCR2 (V64I or 190G/A) gene polymorphism was done by ARMS-PCR method and IP-10 is evaluated by Restriction Digestion. This will aid in determining the genetic susceptibility of Indian populations towards TB. We are also evaluating the immuno phenotype and absolute values of CD3+, CD4+ and CD8+ cells in TB patients and healthy controls.

Our research is working on molecular profiling of EGFR (Exon 18-21) mutations and EML4-ALK fusions in non-small cell lung carcinoma (NSCLC) in our hospital. The identification of such mutations is significant for defining and monitoring the treatment outcomes of the NSCLC patients. Department performs molecular profiling of “EGFR (Exon 18-21) mutations, EML4-ALK fusions and other biomarkers in non-small cell lung carcinoma (NSCLC). Efforts have been made for procurement of Droplet Digital PCR for evaluation of lung cancer from liquid biopsy and biopsies. Digital PCR was requested by the department with the aim to provide early diagnosis and detection of gene mutation for tumor markers and pathogenic genes, aiming towards fast and effective disease management, and personalized medicine. It will also help in reducing the hospitals expenses towards (outsource facility) tumor gene sequencing and provide cost effective and affordable diagnostic facility for poor patients.

4.8 Department of Paediatrics:

Prof. (Dr.) Sangeeta Sharma : **Head of Department**

Dr. Alok Yadav : **Chief Medical Officer (CMO)**

The institute has a 34 bedded paediatric ward which is headed by a paediatrician. The department is providing both domiciliary as well as institutional care, including ICU care for the children suffering from tuberculosis or other chest diseases. The institutional care is mainly

provided to children with complicated tuberculosis e.g., tuberculous disease with pyothorax, pneumothorax, haemoptysis, meningitis, drug failure or multidrug resistant cases etc. and non-TB cases like severe asthma, acute bronchiolitis, bronchopneumonia, cystic fibrosis respiratory complications in cases of HIV etc. The department provides specialist services for TB & Respiratory disease to referrals from Safdarjung Hospital, AIIMS, Maulana Azad Medical College, LNJP Hospital etc.

On Going Research :

- HIV Testing of All diagnosed cases of Paediatric Pulmonary, Extra-Pulmonary TB including MDR.
- Menstrual dysfunction in adolescent girls with non-genital tuberculosis.

4.9 Department of Pathology

Dr. Shalini Mullick : **Head of Department**

Dr. Kumud Gupta : **Consultant, Pathology**

List of Equipments:

1. Five part fully automatic Haemology Analyser – SYSMEX 1000
2. Stago Satellite Max Fully automatic coagulation analyser
3. Tissue Embedding Station – SLEE
4. Tissue Microtomes Microm
5. Olympus BX43 microscope with camera and digital imaging system
6. Dual Head Olympus Bx53 phase contrast microscope with camera and digital imaging system
7. Antigen Retrieval System for IHC
8. Incubators, Hot Air Oven, Water bath, Colorimeter etc.

Activities:

- Hematology:
 - o Routine Haematology
 - o Coagulation Testing
 - o Emergency Laboratory Services
- Cytology Services
- Histopathology Services
- Immunohistochemistry
- Apart from the above routine services, the department of pathology participates in research project and studies both within the institute as well as in collaboration with other organizations.
- The Haematology section participates in ISHTM-AIIMS-External Quality Assurance Program.

- A Museum with mounted surgically resected specimens and photographs of interesting cases covering the full spectrum of lung pathology has also been developed.
- The department contributes to teaching and training activities for Doctors, Paramedical personnel and Nursing staff.
- Department of pathology actively publishes Research papers and scientific articles.

Table 17 : Haematology Tests (April 2023 to March-2024)

Type of Tests done :		OPD & Indoor		Emergency	
		Total	%	Total	%
1	Haemoglobin	40190	23	2919	25
2	T.L.C.	40190	23	2919	25
3	D.L.C.	40190	23	2919	25
4	E.S.R.	1471	1	0	0
5	M.P.	293	0	0	0
6	Platelet Count	40190	23	2919	25
7	A.E. Count	11881	7	0	0
8	P.S.	640	0	0	0
TOTAL		175045	100%	11676	100%
Number of Samples		40190		2919	
	PT	2817		0	
	APTT	2817		0	
Number of Tests Sub Total		5634		0	
Number of Samples		2817		0	

Table 18: Cytology Tests (April 2023 to March-2024)

	Type of Tests done	TOTAL	%
1	FNAC - Lymphnode	1413	31.60
	FNAC - Others	252	5.64
2	Pleural Fluid	2388	53.40
	Peritoneal Fluid	71	1.59
3	Bronchial Washings	103	2.30
4	Bronchial Brush	14	0.31
5	BAL	153	3.42
6	TBNA	27	0.60
7	Sputum	41	0.92
8	Others	10	0.22
	TOTAL	4472	100

Total AFB Smear	1459
FNAC - AFB Positive	192
Fluid - AFB Positive	84
Special Stain	38
FNAC - AFB Positive for Malignancy	44
FNAC - Positive for Malignancy	80

Table 19: Histopathology Tests: (April 2023 to March-2024)

	Type of Tests done	TOTAL	%
1	Pneunectomy	23	0.68
2	Lobectomy	55	1.63
3	Bronchial biopsy/ TBLB/Cryo	34	1.00
4	True Cut Biopsy	16	0.47
5	Pleural Biopsy/ Decortication	246	7.27
6	Lymph Node/ Excision Biopsy	16	0.47
7	Others	34	1.00
8	Slide/ Bblock for Review	20	0.59
9	Total Cases	444	13.12
10	Total Blocks	2076	61.35
11	Special Stains	420	12.41
	Total	3384	100.00
Immunochemistry (IHC)			
	Cases	81	
	Markers	1195	
	Number of Blocks received for IHC	3	

4.10 Department of Physiology (PFT Lab)

Senior Consultant : Dr. Rupak Singla

Officer Incharge : Dr. Sanjay Gupta

Specialist : Dr. Saroj K. Meena

PFT Technicians : Mr. Satya Prakash, Mr. Manoj Kumar, Mr. Laxmi Narain

ECG Technicians : Mr. Rajesh Kumar, Mr. Mahender Singh

The Department of Physiology (PFT Laboratory) is equipped with computerized complete pulmonary functions test machine for spirometry, lung volume and diffusion tests, forced oscillometer (FOT), portable spirometer, respirometer, respiratory pressure meter, nebulizers etc. In order to avoid contamination of spirometry with M. tuberculosis, the department is equipped with

a separate spirometer for active tuberculosis patients. The department is also equipped with body plethysmograph to carry out airway resistance and conductance studies. Bronchial provocation tests can also be done in the laboratory. The department is also in the process of procuring fractional exhaled nitric oxide (FENO) equipment.

The department assists surgical unit in preoperative assessment of the patients. The patients from OPD are evaluated for confirmation of diagnosis of respiratory diseases, assessment of severity and response of treatment. Department is actively participating in various research activities, teaching and training of the resident DNB students, senior residents of the Institute and has contributed research papers for publications also. The department faculty is actively participating in various pre-conference PFT workshops at the National Level.

Equipment: The PFT Laboratory is equipped with following equipment: –

1. Computerized complete pulmonary Function test machine for spirometry, static lung volume and diffusion capacity measurements: Medisoft Equipment Pvt. Ltd.
2. Body Plethysmography: Medisoft Equipment Pvt. Ltd.
3. Forced Oscillation Technique (FOT): Medisoft Equipment Pvt. Ltd.
4. Portable spirometer for sputum positive patients: JK Medical System Pvt. Ltd.
5. Equipment for measurement of MIP and MEP
6. ECG machines: Three BPL
7. Respirometer

Total number of PFT's done 2023-2024 : 10154

Total Number of Body Plethysmography done : 648

Total number of ECG done: 6479

**Table 20: Procedures done in Respiratory Laboratory (PFT Lab.)
(April 2023 to March 2024)**

Number of procedures done in Respiratory Laboratory (PFT Lab.)		
i.	Spirometry	8858
ii.	Reversibility	106
iii.	Lung Volume	193
iv.	Diffusion test	997
Total number of PFT's done		10154
i.	Spirometry	216
ii.	Thoracic Gas Volume	216
iii.	Airway Resistance with Body Box	216
Total		648

4.11 Department of Radiology

Dr. Devesh Chauhan : **Head of Department**

Dr. Anita Yadav : **Associate Professor (Radiology)**

Senior Resident (Radiology) : **Vacant**

The Department is providing diagnostic imaging services in the institute with state of art diagnostic equipment. It is having following equipment –

- 16 Slice Spiral CT Scan - OPTIMA 540 (GE)
- Digital Radiography System (M/S AGFA – DX400).
- DRY LASER CAMERA- DRY view – 6950 – CARESTREAM HEALTH INC.
- Computed Radiography System – CR-30 with Dryimager 5503 - AGFA
- Dryimager – DRYSTAR AXYS - AGFA
- Ultrasound machine (Alpinion X Cube- 70).
- Ultrasound machine (Siemens, G-50).
- Ultrasound machine (Samsung Medison Korea, SONOACE-X8).
- 500mA X-ray machine – Philips Medical System – DIAGNOX – 4050.
- Portable X-ray Machine (Allenger Medical Systems MARS -15).
- Portable Digital X-ray Machine (Allengers Medical System MARS 32)
- Portable X-ray Machine (BPL – MRAD 5.0DR)
- Portable X-ray Machine (Siemens Ltd MM-10)
- Retrofit Digital Radiography System –AGFA
- Ultrasound simulator (Symbionix Ltd ISRAEL- US Mentor)
- Endovascular Simulator (Symbionix Ltd ISRAEL – Angio Mentor)

The Department is carrying out conventional Radiological imaging as well as image guided (Ultrasound & CT guided) diagnostic procedures such as FNACs, biopsies, therapeutic & diagnostic aspirations etc. The department is providing X-ray facility round the clock free of cost. Ultrasound facility is being provided free of cost to all patients. CT scans are done on subsidized rates as follows.

CT Scan (Brain) - Rs 1000/- for OPD patients, Rs 500/- for IPD patients.

CT Scan (Other body parts) - Rs 2000/- for OPD patients, Rs 1000/- for IPD patients.

*CT scan is done free of cost for poor patients not paying income tax.

Non-ionic contrast media is also being provided by Institute and is included in above mentioned rates.

The Department is also involved in teaching activities of DNB students.

Radiology data is shown in tables 21 to 23.

Table 21 : Number of X-Rays (April 2023 to March-2024)

X-RAY	TOTAL
8"x10"	17584
10"x12"	65932
11"x14"	3183
On-Line X-Ray	15430
TOTAL	102129

Table 22 : Number of Ultrasounds (April 2023 to March-2024)

Ultrasound	Number
CHEST+Neck	1078
ABDOMEN+KUB	1752
Colour Doppler	97
TOTAL	2927

Table 23 : Number of CT SCANS (April 2023 to March 2024)

CT Scan	Number
CHEST	2537
Head	107
Abdomen	69
CT scan Guided Aspiration	6
TOTAL	2719

4.12 Department of Respiratory Critical Care

Head of Department : Dr. Rajnish Gupta

Chest Specialist : Dr. Ashish Ranjan

The Department of Respiratory Critical Care, created in the Institute in 2013, is headed by Dr Rajnish Gupta, Senior Chest Specialist. He is assisted in the administrative works by Dr Saroj Meena, Chest Specialist. The department has a 14-bed Respiratory Intensive Care Unit, which has been operating since 1996. The department is providing clinical and administrative support for intensive care management of ICU patients in addition to the teaching, training and research activities.

Intensive Care Services

The Department provides round the clock diagnostic and treatment facilities in the form of invasive / non-invasive mechanical ventilatory support and intensive care to all patients with critical medical illnesses of a pre-dominant respiratory nature. Many of them are referred from the other hospitals in Delhi/NCR or from other states and get admitted to ICU from emergency or are transferred from the wards of the Institute. Patients having undergone thoracic surgical

interventions within the Institute are also transferred to ICU for immediate post-operative care. More than 600 seriously ill patients are being treated in ICU every year.

The Department has set up a facility for providing invasive/non-invasive ventilation to patients of sputum positive TB in the Emergency ward, a facility, which is rarely available even in the premier institutes of the country.

Staff

Apart from the intensive care management by the faculty of the Department, provision of clinical care is the responsibility of all the Units of the Dept of TB & Chest Diseases as well as the Department of Thoracic Surgery for their respective patients. Assistance is provided by the Specialists of the Departments of Anaesthesia, Medicine, Microbiology, Pathology, Paediatrics and other Depts. Trained Senior and Junior Residents, nursing staff and other supporting staff are available on round the clock basis. A Workshop Technician helps in maintenance of equipments. Availability of a physiotherapist, a psychologist and a medical social worker facilitates early mobilisation and psychological care of the patients.

Infra-structure

The Department has 6 single rooms for patients requiring mechanical ventilation and 2 High Dependency Units with 4 beds each for providing care to other critical patients. Beds are well equipped with monitoring facilities through fixed bedside monitors and Central Nursing Station. The ICU has Invasive Mechanical Ventilators, Bi-level Positive Airway Pressure Non- invasive Ventilators, Arterial Blood Gas Analysers, De-fibrillators, ECG Machines and a number of Portable equipments (X-Ray Machine, Ventilators, Monitors, Fumigation Machines, Oxygen Saturation Probes, Suction Machines, Nebulisers, Syringe Infusion Pumps, Alpha Mattresses, and other miscellaneous equipments). Facilities of central air-conditioning, Central Oxygen Supply and Central Suctioning are also available. A UPS provides un-interrupted electrical supply to the ICU at times of need. Regular procurement of supplies and maintenance of equipments facilitates the provision of critical care.

Teaching and Training

Regular teaching and training on critical management is being imparted to the senior residents, DNB students, junior residents, other doctors and nursing staff during their ICU postings. Lectures, seminars, journal clubs and case presentations are organized for the residents to cover the subject in their teaching curriculum. Training is being given to them in performing endotracheal intubations, handling of invasive/ non-invasive mechanical ventilation, performing various procedures like insertions of central venous catheterizations etc. and in taking critical clinical management decisions at crucial times. Beneficiaries have included the doctors and staff of the other Institutes as well.

Research

Many research projects have been / are being carried out in the ICU. Some of them have been published in well-known journals. These are as follows:

- i) To study the clinical profile and outcome of smear positive pulmonary tuberculosis patients requiring invasive mechanical ventilation at National Institute of Tuberculosis and Respiratory Diseases.
- ii) To determine the Vancomycin and Linezolid susceptibilities among Methicillin Resistant Staphylococcus aureus isolates from Intensive Care Unit samples at National Institute of TB and Respiratory Diseases and identify the clinical characteristics of patients with resistant strains (In collaboration with Henry Ford Hospital, Detroit, U.S.A)
- iii) Performance evaluation of APACHE II Score for an Indian patient with respiratory problems.
- iv) To study the clinical profile and outcome of patients of acute respiratory failure requiring invasive mechanical support.
- v) To determine blood lactate levels in patients with sepsis admitted to a respiratory intensive care unit and to correlate their hospital outcomes.

4.13 Department of Tuberculosis and Respiratory Diseases

The Department of TB and Respiratory Diseases is actively involved in teaching, training and research in the field of TB & Respiratory Diseases. The faculty of the department assists the government of India in developing strategies for TB control and in implementation of the same. The faculty has contributed significantly to the development of national guidelines in India for management of tuberculosis, Multi Drug Resistant-Tuberculosis (MDR-TB) and pediatric tuberculosis under the national program.

The administrative constitution of the department is as follows: –

Head, Dept. of TB & Respiratory Diseases: Dr. Sanjay Gupta

Unit I: (OPD Days: Monday & Thursday)

1. In charge: Dr. Vikram Vohra
2. Consultant: Dr. Sushil Munjal
3. Specialists: Dr. J.K. Saini, Dr. Amit Sharma
4. Senior CMO: Dr. Rakesh Aggarwal
5. Medical Officers:

Unit II: (OPD Days: Tuesday & Friday)

1. In charge: Dr. Sanjay Gupta
2. Consultant: Dr. Dr. Rupak Singla
3. Specialists: Dr. Rajnish Gupta, Dr. Puneet Arora, Dr. Ananya Prabhu, Dr. Saroj Meena
4. Medical Officers: Dr. Kapil Kumar Mathuria

Unit III: (OPD Days: Wednesday & Saturday)

1. In charge: Dr. Lokender Kumar

2. Consultant: Dr. M.M. Puri
3. Specialists: Dr. Prabhjeet Sethi, Dr. Ashish Ranjan
4. Senior CMO: Dr. Anil Jain
5. Medical Officers: Dr. Rajesh Kumar, Dr. Ajanta P, Dr. Kanishk

In-patient services: The Department has indoor wards for 354 beds including 20 emergency room beds. The department provides inpatient care to tuberculosis, lung cancer and other non-TB respiratory diseases patients and free anti-retrovirus treatment to patients suffering from TB-HIV co-infection. For acutely ill patients the department is associated with 14 bedded ICU.

Emergency Services: Since 1st April 2009 Institute has started emergency ward of 20 beds for care of patients reporting in emergency.

Special Chest Clinics: For patients suffering from various non-tuberculous chest diseases special clinics are also run by the department such as Cancer clinic, smoking cessation clinic, Allergy clinic, Sleep clinic and Physiotherapy clinic.

Out Patient Services: The Department has an out-patient department (OPD) with an average daily attendance of more than 1200 patients and 300 – 350 new chest symptomatic per day. The OPD runs from 9 AM to 1 PM. The registration in OPD is done from 8.30 AM to 12 noon.

Trainings: The Department is actively involved in the training of various medical and paramedical personnel in implementation of strategies Revised National Tuberculosis Elimination Program (NTEP). The institute also conducts training for Bronchoscopy, Pulmonary Function Tests, Sleep Medicine and ICU. The department is actively involved in organizing Continuing Medical Education program (CME), seminars, conferences on different aspects of diagnosis and management of tuberculosis and respiratory diseases.

Post graduate DNB (Respiratory Medicine) Course: The Institute is recognized Centre for post-graduate DNB (respiratory diseases) degree course since 1999. Now, the institute has been accredited for eight primary and eight secondary DNB seats per year. Regular teaching activities such as seminars, journal club, faculty lectures, grand case presentation, mortality meetings, pathological conference, radiological conference, and bed-side clinical round are routinely carried out.

Research Activities: The faculty members of the department are involved in several multi-centric trials at international level and other research projects within the country. Besides this all DNB students submit research projects as a part of their DNB course.

The publications of the faculty of the institute can be viewed under research section and in the annual report section.

Procedures: Numerous diagnostic and therapeutic interventional procedures are routinely carried out in the department such as:

1. Fine Needle Aspiration Cytology (FNAC)
2. Fiber Optic Bronchoscopy (FOB)
3. Rigid Bronchoscopy

4. Intercostal Tube Thoracostomy
5. Ultrasound guided FNAC and Trucut Biopsy
6. CT guided FNAC
7. Endobronchial Ultrasound (EBUS)
8. Complete Pulmonary Function Testing including Spirometry, Lung Volume, Body Plethysmography, Diffusion Capacity, Forced Oscillometry Technique (FOT) and FeNO.
9. Medical Thoracoscopy
10. Cryotherapy/Cryobiopsy
11. Electro-Cautery
12. Radial- Endobronchial Ultrasound (EBUS)

4.14 Department of Thoracic Surgery and Surgical Anatomy

Head of the Department : Dr. Ravindra Kumar Dewan (Professor & Thoracic Surgeon SAG)

Thoracic Surgeon : Dr. B. Rama Phanindra (Specialist Grade II)

: Dr. Saraansh Bansal (Specialist Grade II)

Senior Resident : Dr. Rahul Jaiswal

Super-specialty DrNB Fellows: Two

The Department has 24 pre-operative beds, 4 ICU post-operative beds and 9 post-operative beds of the total functioning beds of NITRD. The department is a high-quality thoracic surgery unit which is engaged in general thoracic surgery with results comparable to the best international standards. It gets referrals from almost the whole of Northern India and neighboring countries. About 500 major thoracic surgical procedures are carried out every year. The referrals usually include complications of pulmonary tuberculosis, cancer lung, infective lung conditions, chronic empyema, COPD and intra-thoracic tumors besides several other chest conditions. The experience includes some of the most challenging lung resections. The spectrum of surgery being done is quite extensive which includes not only complications and sequelae of pulmonary tuberculosis like drug failure, hemoptysis, empyema, destroyed lungs, bronchiectasis but also carcinoma lung, interstitial lung diseases, mediastinal tumor, chest wall tumor, tracheal surgery, pericardiectomy and removal of foreign bodies from the. The expertise of the department is unique as there is an extreme shortage of practitioners engaged in general thoracic surgery.

The Department has also helped in establishing thoracic Surgery units in Armenia and Cambodia by conducting surgical missions in these countries and training of their surgeons and staff to deal with these complicated patients.

Recently, the department along with support from the UNION under the defeat TB project has started a 3-month thoracic surgery fellowship program wherein, surgeons from all over India can learn the intricacies of TB surgery for them to apply the principles learnt here at their original institutions. Since there is a paucity of thoracic surgeons and thoracic surgery training centers, the 3 months fellowship has had an overwhelming response and 4 surgeons have already been trained

under this TB surgery fellowship.

The department also receives M.Ch. and DNB Cardiothoracic surgery trainees from All India Institute of Medical Sciences, New Delhi, G.B. Pant Hospital, New Delhi and a few corporate hospital like Max hospital and Fortis hospital for regular postings in the department.

Several physicians, surgeons and thoracic surgeons from Bangladesh, Philippines, Kenya, Nigeria, South Africa, Egypt, Iraq, Germany, Afghanistan and Armenia have visited the department for short term trainings and observer-ships.

There is an NBE accredited Super-specialty DrNB Thoracic Surgery program running in the Department since 2015. Two students are being enrolled every year for training and research in thoracic surgery.

The Department is equipped with the latest state of the art equipment including thoroscopes, bronchoscopes, surgical staplers, argon beam coagulation, ultrasonic coagulation and cutting system in addition to various surgical and thoracoscopic instruments. The department has been successful in establishing a Robotic surgery system to conduct high end thoracic surgery through minimally invasive methods . Recently, the department has successfully established a state of the art Skill lab for training of fellows and trainees to make them better understand the thoracic anatomy.

The department has been represented in international conference like ESTS 2023 and has been as national faculty in conferences like ISTSCON 2023 and IATSCON 2023 and thoracic midterm CME 2023.

Data related to thoracic surgery shown in tables below:

Table 24(a) : Thoracic Surgical Procedures (April 2023 to March 2024)

S.No.	Major Surgical Procedures	Total	Percentage
1	Pneumonectomy	19	4%
2	Lobectomy	31	6.53%
3	Decortication	39	8.21%
4	Thoracotomy	17	3.58%
5	Open Window Thoracotomy	147	30.95%
6	Rib Resection + ICD	19	4.00%
7	Thoracoplasty	3	0.63%
8	Bronchoscopy	131	27.58%
9	VATS	59	12.42%
10	Others (Robotic Assisted Surgery)	10	2.11%
	Total	475	100 %

Table 24(b): Minor Surgical Procedures (April 2023 to March 2024)

Minor Procedures	Minor OT
Intercostal Tube Drainage Insertions	301
FNAC	3690
Pleural Aspirations	2727
Incision and drainage	26
Pleural biopsy	702
Dressing	10
Removal of ICD Tube	1
Others	22
TOTAL	7479

Table 24(c): Dressing room / Empyema Ward (April 2023 to March 2024)

Procedures	TOTAL
New ICDs	196
ICDs Changed	315
ICDs Removed	262
Pleural Aspirations	38
Dressings	6326
Sutures Done	18
Sutures Removed	93
Incision and drainage	25
Total	7273

4.15 Department of Thoracic Oncology

Dr J. K. Saini : Head of Department

Dr. P. Sethi : Specialist

Department of Thoracic Oncology started w.e.f. 01/01/2022. Department is looking after Lung Cancer Clinic, Tobacco Cessation Centre & Interventional Bronchoscopy Suit. In the lung cancer clinic, all newly diagnosed lung cancer patients from the Institute and outside the institute are discussed and their treatment is decided based upon the lung cancer stage and performance status of the patient. All the patients who consume tobacco (chewable and smoke) are referred from the OPD and indoor wards to the Tobacco Cessation Centre (TCC). In the TCC, these patients are told the harmful effects of the tobacco and counselled for quitting tobacco. If only counselling is not sufficient then pharmacotherapy is also prescribed. After initial counselling these patients are regularly followed after to ensure tobacco cessation.

LUNG CANCER CLINIC: April 2023 to March 2024

	New	Follow-up	Total Patient
LUNG CANCER CLINIC	135	677	812

TOBACCO CESSATION CENTRE (TCC): April 2023 to March 2024

	New	Follow-up	Total Patient
TOBACCO CESSATION CENTRE (TCC)	6316	201	6517

Besides that department also looks after Inerventional Bronchoscopy. A total of 618 Bronchoscopies and 933 various bronchoscopic procedures were performed during the year. Besides that 48 EBUS TBNA, 4 Radial EBUS, 124 Cryotherapy procedures, 27 Semirigid Thorascopic Pleural Biopsies, 27 Balloon Dilatation were performed during the year.

INTERVENTIONAL BRONCHOSCOPY: April 2023 to March 2024

S.No.	Fiberoptic Bronchoscopy	Total
	Unit-I	244
	Unit-II	201
	Unit-III	173
	Total	618
i.	Bronchial Aspiration	392
ii.	Bronchial Brush	34
iii.	Endo Bronchial Biopsy (EBB)	239
	a. Cryo EBB	111
	b. Forceps EBB	128
iv.	Transbronchial Biopsy	114
	a. Cryo TBLB	56
	b. Forceps TBLB	55
v.	BAL	74
vi.	Endo Bronchial Needle Aspiration (EBNA)	3
vii.	Transbronchial Needle Aspiration (TBNA)	77
	Total Bronchoscopic Procedures (i+ii+iii+iv+v+vi+vii)	933
1	EBUS	48
2	Radial EBUS	4
3	Cryotherapy	124
4	Thoracoscopy	27

4.16 Department of Training

Head of Department : **Dr Neeta Singla**
Nodal Officer (Training) : **Dr. Rajesh Kumar**

The department is also involved in regular teaching of post graduate students of the NITRD and from other institute like AIIMS, NIHFM, Jamia Hamdard of this country and from other countries like Henry Ford Hospital Michigan Detroit USA. The department is also involved in a regular NTEP teaching programme for nursing staff of the Institute and for nursing students from other Institutes like RAK Nursing College. The faculty doctors have delivered guest lectures and attended various conferences at both national and international level.

ECHO Sessions: Regular virtual sessions are conducted to update current knowledge and discuss challenging cases at both the state and national levels.

Training of Program Managers: The department is involved in facilitating the NTEP modular training of Medical Officers (MOs), Medical Officers TB Control (MOTCs), District TB Officers (DTOs), State TB Officers (STOs), specialist of Medical Colleges and Institutes from different parts of the country on a continuous basis.

4-B Sections of the Institute

Various sections of the Institute are given as under.

- 4.17 Academic Section
- 4.18 Anti-Retroviral Therapy Centre
- 4.19 Biostatistics Section
- 4.20 Computer Section
- 4.21 Health Education Section
- 4.22 Library
- 4.23 Nursing Section
- 4.24 Physiotherapy Section
- 4.25 Laboratory
- 4.26 Integrated Counseling and Testing Centre
- 4.27 Yoga Therapy and Research Centre

Detail of each section is mentioned below.

4.17 Academic Section

In charge of Academic Section : **Dr. P. Sethi**

Specialists – Academic Section – Dr. Saroj K Meena and Dr Ananya Prabhu

DNB Courses

TEACHING CREDENTIALS OF THE INSTITUTE

1. The institute has been providing post-graduate teaching to students of Delhi University in D.T.D., D.T.C.D., N.D.C.T.B. and respiratory diseases since the late 1960's. Training to M. Ch.

(CTVS) students of All India institute of Medical Sciences, New Delhi and G.B. Pant hospital, New Delhi since 1992.

2. Since 1999, the institute is running D.N.B. course in respiratory medicine and D.N.B. Super specialty (Thoracic Surgery) since 2015 and D.N.B. (Microbiology) since 2017.

DNB-Thoracic Surgery (Super Specialty) Course

Course Director: Dr. R.K. Dewan

The Institute is recognized center for DNB THORACIC SUGERY (SUPER SPECIALITY) DNB degree course since 2015. Two students are admitted to the course every year.

DNB-Respiratory Diseases Course:

Course Director: Dr. Sanjay Gupta

1. **PRIMARY DNB:** The Institute is recognized centre for post-MBBS DNB in Respiratory Diseases, three years degree course since 1999.Ten students are admitted to the course every year.
2. **SECONDARY DNB:** The Institute is recognized centre for post-diploma DNB in Respiratory Diseases, 2 years degree course since 2014. Eight students are admitted to the course every year.

Selection Process: The DNB candidates are selected through a Centralized Entrance Test and centralized counselling conducted by NBE.

The Diplomate qualifications awarded by the National Board of Examinations have been equated with post graduate degree and post-doctoral level qualifications of Universities by the Government of India, Ministry of Health and Family Welfare.

Academic Schedule: NITRD has a unique structured academic schedule. Teaching activities such as seminars, journal club, faculty lectures, external faculty lectures, grand case presentation, mortality meetings, pathological conference, radiological conference, and bed-side clinical round are routinely carried out.

The academic schedule for every academic year is available on the website of the institute.

Emoluments

The candidates enrolled for training for DNB courses will be designated as Junior Resident (DNB)/ DNB Fellows-Super Specialty. They will be given salary equivalent to that of Junior Resident/Senior Resident as per the rules of the Institute. Reservation of seats of SC/ST/OBC will be as per the rules and the roster maintained by the Institute for Junior Resident posts. The students shall be provided accommodation, if available.

DUTIES AND RESPONSIBILITIES

Duties and responsibilities of the candidates enrolled shall be fixed by the institute from time to time. They will be required to perform such work as may be needed in the legitimate interest of the patient care in the hospital. All rules framed in this regard by the institute will be final. They will

have to carry out thesis/dissertation as per DNB rules. At the end of every year each Junior Resident will be assessed and in case his/her performance is not satisfactory, his/her registration may be cancelled and no extension for Junior Residency will be given.

Respiratory medicine junior residents are posted in PFT Lab, Microbiology, Pathology, Biochemistry, Thoracic surgery, Paediatrics, Radiology, Respiratory ICU, Respiratory emergency, RNTCP and ART clinic.

Institute in addition has a fully functional thoracic oncology, sleep lab, allergy clinic, lung cancer clinic and smoking cessation clinic.

SUBMISSION OF PROTOCOL AND THESIS

The candidate registered for training for DNB course shall be required to get his/her plan of thesis approved by the departmental faculty and submit it to the Academic Section of the Institutes as per the guidelines of National Board of Examinations issued from time to time.

4.18 Anti-retroviral Therapy Centre

Dr. Upasna Agarwal : In-charge ART Centre

Department of Medicine runs a free Antiretroviral Therapy Centre under the aegis of National AIDS Control Organization. Dr. Upasna Agarwal, Specialist (Medicine) is the in-charge of the Centre. The Centre is having one Senior Medical Officer (SMO), one Medical Officer, three counselor, two data managers, one staff nurse, one lab technician, one pharmacist and one community care coordinator.

Comprehensive HIV care facilities are provided at the ART Centre. These include free of cost CD4 and viral load testing, antiretroviral therapy (both first and second line), treatment and prophylaxis of opportunistic infections, patient and family counseling as well as pre ART support and care services. The centre follows stringent recording and reporting procedures and regularly reports to the National AIDS Control Organization. NITRD-ART Centre has special expertise in managing HIV-TB (including HIV DR-TB cases).

Table 25 (a): Anti-Retroviral Therapy (April-2023 -March-2024)
Patients registered for HIV care

No	Patients registered for HIV care	Adults (≥15years)			Children (<15years)		Total
		M	F	TG/TS	M	F	
A	New patients registered for HIVcare in thisYear	202	62	1	3	2	270
B	Total patients registered for HIV care at the end of this year (Cumulative since Dec 2005)	2877	1234	49	57	33	4250

Table 25 (b): Anti-Retroviral Therapy (April-2023 -March-2024) Enrollment at ART centre

	Enrolment for ART	Adults (≥ 15 years)			Children (<15 years)		TOTAL
		M	F	TG/TS	M	F	
C	New Patients started on ART during this year	202	60	1	3	2	268
D	TOTAL Patients started on ART at the end of this year	2521	1048	44	43	27	3683

Table 25 (c): Outcomes of PLHIV started on Antiretroviral Therapy (April-2023 -March 2024)

	Status		Adults (≥ 15 years)			Children (<15years)		Total
			M	F	TG/TS	M	F	
E	Number of patients 'Transfer out'	During this year	41	23	0	5	0	69
		Since beginning	467	204	7	22	12	712
F	Number of patients 'Died'	During this year	40	12	2	0	0	54
		Since beginning	476	138	4	8	1	627
G	Number of patients 'Lost to follow-up'	During this year	68	14	2	0	0	84
		Since beginning	284	102	7	1	3	397
H	Number of patients 'Opted Out'	During this year	0	1	0	0	0	1
		Since beginning	9	3	0	0	0	12
I	Number of PLHIV currently on follow-up, i.e. alive and on ART		1285	601	26	12	11	1935
J	Total number of patients visited to ART Centre this year		8560	3704	91	139	68	12562

4.19 Biostatistics Section:**HOD, Department of Epidemiology and Public Health**

- **Dr. Neeta Singla (w.e.f. 05-03-2024)**
- **Dr. Khalid Umer Khayyam (up to 04-03-2024)**

Statistician: Dr. Ankita Dey

The Statistician is involved in research activities being carried out in the NITRD as well as involved in the data collection, analysis, interpretation and presentation of quantitative information.

The section collects the patients' data from various Departments of the Institute and prepares a monthly statistical report for internal circulation. A monthly statistical meeting is being organized on every third thursday of the month under the Chairmanship of the Director. A power-point presentation containing the statistical data analysis using advanced techniques of descriptive and inferential statistics is prepared by the Statistician for discussion on monthly data collected from various Departments of the Institute and is presented by the Statistician during the meeting. All the doctors and other attended this meeting and discuss the data of the Institute for gaining an insight into the day-to-day functioning of the respective Departments of the Institute.

The Statistician is also involved in the revision and improvisation of the Statistical System of the Institute, incorporating advanced techniques of Biostatistics. The Statistician carries out compilation of quarterly data for the Newsletter published by the Institute. Statistical analysis of quarterly data, annual trend analysis and time series analysis of the data of different Departments of the Institute are performed. The Statistician is involved in production of Annual Report for preparation of tabular format of summarized data by aggregating and collating the data of monthly statistical reports. The Statistician helps the Faculty Members / Doctors of the Institute in planning of the intramural research studies of the Institute e.g., Research Methodology, Research Plan, Framing of Hypothesis, Data collection plan with appropriate sampling techniques, Sample size determination, Critical analysis of data using parametric and non- parametric techniques, regression analysis, clustering and classification analysis etc. and relevant use of Statistical softwares (eg. MS Excel, SPSS, R). Guidance and support in the above- mentioned areas of Statistical analysis and interpretation is also provided to the DNB students for their research thesis. The Statistician is carrying out any other responsibilities assigned by the Director from time to time. The Statistician is also engaged in supervising the data collection and entry of Departmental data in different portals of the Government of India viz Integrated Health Information Platform and Health Management Information System on daily and monthly basis.

4.20 Computer Section

Dr. Sanjay Gupta	: In-charge Computer Section
Mr. Ajay Kumar	: System Analyst
Mrs. Poonam Awasthi	: Data Entry Operator
Mr. Yogendra Singh	: Data Entry Operator
Mr. Bhaskar Bose	: Data Entry Operator
Mr. Sunil Basak	: Data Entry Operator

The computer section of the Institute plays pivotal role in the smooth functioning of the Institute and is responsible for a wide range of activities, from maintaining the Local Area Network (LAN) and Wi-Fi facilities, to ensuring internet and network security with a Unified Threat Management (UTM) firewall and Endpoint protection enterprise antivirus software. They also host four servers connecting more than 200 PCs in the Institute campus.

The section also handles the procurement and maintenance of all computer hardware, network, and software in the Institute. Internet connectivity is provided to the faculty, research and

administrative staff, and to patients through two fibre-optic leased line circuits of 100 MBPS & 50 MBPS through NKN-MTNL and NKN- RailTel respectively.

The functioning of various departments like the academic cell, administration, accounts section, medical store, general store, library, laboratories, etc., is fully computerized through the implementation of e-office (NIC), and Hospital Management Information System (HMIS).

The computer section has developed and implemented several modules in the HMIS software, including :-

- a. OPD Registration Module
- b. Thoracic Surgery OPD and Special Clinic module
- c. Doctors Desk Module
- d. Medical Record Module
- e. IPD Registration and Patient Billing Module
- f. Microbiology Laboratory Module
- g. Pathology Laboratory Module
- h. Bio-Chemistry Laboratory Module
- i. Molecular Medicine Laboratory Module
- j. General Store Module
- k. Medical Store Module
- l. Emergency Department Module
- m. Dispensary Module
- n. Radiology Module
- o. The IPD module.

Through these modules patient records, reports, billing and various others management functions have been digitalized.

The digitization of patient records, reports, billing, and various other management functions not only improved the efficiency of hospital operations but also enhanced the quality of healthcare services provided to the patients. It allowed for easy access to patient data, streamlined billing processes, and effective management of hospital resources. Moreover, it reduced the chances of errors, thus ensuring more accurate and reliable data.

The Institute is also connected online with Mera Aspataal (My Hospital), an Initiative of Ministry of Health and Family Welfare, Government of India, to capture patient feedback on the services who visited the hospital, both in the OPD and IPD. It works through multiple communication channels, including SMS, Outbound Dialing (OBD), a mobile application, and a web portal. The collected data from from Mera Aspataal is then analyzed to improve the quality of service in the institute.

The Institute is linked with the Online Registration System (ORS), a Digital India initiative of Govt. of India, to provide online access to hospital services for patients. Patients can make online appointments for OPD registration through ORS.

The section has also implemented the Aadhaar Enabled Biometric Attendance System (AEBAS) authenticated by Aadhar number of Unique Identification Authority of India (UIDAI) for marking attendance of the employees in the Institute.

The section is actively involved in the data collection and preparation of the Institute's Monthly and Annual Reports. UHID number along with bar-coding on registration in OPD is implemented. Use of Bar code has significantly reduced the waiting time for patient revisit registration.

4.21 Health Education Section:

Dr. Neeta Singla : HOD, Department of Epidemiology and Public Health

Mrs. Priyanka Sharma : Health Education Officer

Advocacy, Communication and Social Mobilization (ACSM) is an important component of the TB control strategy and is necessary to ensure long-term and sustained impact. This department has a Health education officer (HEO) and four trained health workers (TBHV). This team provides health education about tuberculosis and NTEP to the patients, their relatives, friends and companions. Advocacy plays a vital role in the treatment of tuberculosis and other chest diseases. This section has developed many leaflets & pamphlets to educate patients. The health education material is regularly distributed to the patients visiting room number 107 first floor OPD for health education during OPD timing and wards from 2:00 PM to 4:00 PM as per monthly schedule.

Short video films on tuberculosis, AIDS, No Smoking of Tobacco, Asthma etc. are showing regularly to create awareness among the patients and their relatives in OPD from 9.00 AM to 4.00PM.

All doctors communicate via the Public Address System (P.A. System) installed in the OPD rooms to call patients. After diagnosis, all patients attending the OPD are referred for health education in Room no. 107. After imparting health education about diseases, mode of spread, prevention and type of food to be taken during the illness, the patients are referred with referral hard copy bearing Nikshay ID number to their nearby DOT Centre for further treatment.

Central TB Division started the electronically transfer of referral TB patients through NIKSHAY portal to be used by computer, where details of TB diagnosed patients to be entered to generate NIKSHAY Patient ID. This NIKSHAY Patient ID must be entered in the referral hard copy handed over to TB patients.

The institute celebrated the following days of special importance this year.

World TB Day	-	24 th March
World Asthma Day	-	5 th May
World No Tobacco Day	-	31 st May
Anti Drug Addiction Day	-	2 nd October
Pneumonia Day	-	12 th November
Diabetes Day	-	14 th November
World AIDS Day	-	1 st December

On these special days, the department conducts ACSM activities and creates awareness for TB in patients and their companions. Quiz competitions, Health talks etc are organized for the patients and attendants. Drawing competitions, Magic show, puppet shows, dance and song competitions for children. We also distribute prizes to winners and consolation prizes to other participated children.

Regular Health camps in collaboration with various NGOs such as Rotary Delhi Ridge, United Way Delhi (NGO) are organized in several areas of Delhi for active case finding of Tuberculosis patients in the community.

The Institute has a “**Photography section**” which supports by creating digital photographs to facilitate I.E.C., Training and other Institute activities.

The number of patients on whom health education was imparted during the year is mentioned in Table-45.

Table 45 : Patients imparted Health Education (April-2023- March-2024)

S. No.	No. of Patients given Health Education	Total
1	New TB and Follow-up patients who came in OPD	12,603
2	Patients in Wards	4495
	Total	17,098

4.22 Library

Dr. Amit Sharma	:	Chairman Library Committee
Sh. Sachin Sharma	:	In-charge Library
Sh. Vedant Kumar Singh	:	Library Information Assistant

There is a Library Committee headed by Dr. Amit Sharma, which overlooks the affairs of the Institute Library. Sh. Sachin Sharma, In-charge Library and Sh. Vedant Kumar Singh, Library Information Assistant look after day to day affairs. The Library opens seven days of the week (except important holidays) from 9:00 am to 9:00 pm. During the year, library purchased 49 New Textbooks. There are 1547 textbooks available on various topics, apart from a wide collection of journals relating to all specialties of the Institute. It is open for use for all categories of staff of the Institute. We have DNB Residents also who also utilize the Literature and software for academic purposes. Those visiting the Institute from outside can also utilize the Library facilities after obtaining special permission. During the year, 13 National Journals and 32 International Journals in both print as well as online format were procured. There are 1745 Bound Journals. The NITRD library also subscribes to UpToDate database, to enable easy and continuous access to recent medical literature and treatment guidelines.

In addition, famous magazines and national newspapers are also available. There are membership links with UpToDate database. Web based OPAC (Online Public Access Catalogue) service is also available. OPAC link is: <http://eg4.nic.in/Mediac1Libraries/OPAC/OPACBasic.aspx>

Other services available are:

1. Reference and Consultation
2. Internet and E-mail with CD writer
3. Newspaper E-clipping Alert
4. Current Awareness Services
5. Membership
6. Borrowing
7. Inter Library Loan
8. Audio-visual
9. Selective Dissemination of services

The library is committed to providing all the necessary services required to foster greater quest for knowledge and research among the doctors, nurses and hospital staff of the Institute. It is also envisioned to keep on incorporating whatever the newer technological advances have to offer in this mission. It is progressing for Automation with the help of e-Granthalaya Library Management Software.

4.23 Nursing Section

The Nursing Section at NITRD remains steadfast in its commitment to providing quality nursing services to both indoor and outdoor patients. With a total strength of 197 dedicated nursing personnel, comprising all cadres from Nursing Officers to Nursing Superintendent, our team tirelessly caters to the needs of 470 indoor patients across various departments including OPD services, ICU, Operation Theater, Bronchoscopy Services, and so on. Apart from patient care, Nursing section is actively involved in other services like, Biomedical Waste Management, Infection Control, Laundry Management, etc. The department is independent incharge of Pest Control. Nursing section is actively contributing in all the committees as well.

The hierarchy of Nursing Department:

Dr. Anita Rani Kansal	:	Nursing Superintendent
Ms. Raj Shree B. Gourkhede	:	Dy. Nursing Superintendent
Ms. Manjari. RBP	:	Dy. Nursing Superintendent
Ms. Lata R David	:	Astt. Nursing Superintendent
Ms. Sangeeta .P	:	Astt. Nursing Superintendent
Ms. Reeta A. Masih	:	Astt. Nursing Superintendent
Ms. Sangam Susheelamma	:	Astt. Nursing Superintendent
Senior Nursing Officers	:	57
Nursing Officers	:	132

Training and Education Initiatives:

Throughout the year, the Nursing Section has been actively engaged in enhancing the skills and knowledge of our nursing staff through a series of comprehensive training programs and classes. These initiatives aim to ensure that our nursing personnel remain equipped with the latest practices and techniques in healthcare delivery.

Highlights of Training and Classes:

1. **Specialized Training Programs:** Recently, the hospital has started Robotic Surgery under Thoracic Surgery department. Special training of OT Nurses was done for several months to make them specialized in Robotic Surgeries. A one month special training of selected candidates was done for Sleep study and a certification was provided for the same.
2. **Continuing Nursing Education:** We conducted regular classes to facilitate continuous learning and professional development among our nursing personnel. These sessions cover a wide range of topics including new medical advancements, patient care techniques, and ethical practices. Our nursing staff participated in specialized training programs focused on infection control, waste management, pest control, and ward management. These programs are integral to maintaining high standards of hygiene and patient care within the institute.
3. **Research and Educational Contributions:** The Nursing Section actively contributes to the educational and research endeavors of the institute. Our team members have been instrumental in organizing conferences, CME's (Continuing Medical Education), review meetings, and Kayakalp activities. These initiatives not only foster knowledge exchange but also promote innovation and excellence in healthcare delivery.
4. **Learning Platform for upcoming Nurses:** Nursing section organizes teaching and training programmes for B.Sc. & M.Sc. Nursing students of various nursing colleges like, Rajkumari Amrit Kaur College of Nursing, Holy Family College of Nursing, College of Nursing RML.
5. **Launch of e-NEETI:** The program has been initiated by NITRD in collaboration with ECHO India. The program was started as a pilot project in March 2023 to see the feasibility and acceptability among nurses. As it was well taken by the nurses all over India, the formal launch was planned for 17th August, 2023. The program was given the name e-NEETI which stands for Nurses' Efforts to Eliminate Tuberculosis in India reflecting its purpose. Topics like Pulmonary tuberculosis and nursing care, multiple drug Resistant TB and care of patients with MDR TB, bronchiectasis, intercostal chest tube and care of patients with chest tube, counseling of patients with MDR TB,, etc, will be discussed. The program currently has 886 active participants and the average attendance of each session is 150 participants from across states.

Continuing Nursing Education Cell:

CNE Chairperson: Dr. Anita Rani Kansal (Nursing Superintendent, NITRD)

CNE Coordinator: Ms. Sakshi Arora (Nursing Officer, NITRD)

List of CNE members:

S. No.	No. of Patients given Health Education	Total
1.	Dr. Anita Rani Kansal	Nursing Superintendent
2.	Ms. Rajni Nirala	Senior Nursing Officer
3.	Ms. Violet Masih	Senior Nursing Officer
4.	Ms. Simran Samuel	Senior Nursing Officer
5.	Ms. Anita Singh	Nursing Officer
6.	Ms. Susheela P Singh	Nursing Officer
7.	Ms. Sheema John	Nursing Officer
8.	Mr. Shaiby	Nursing Officer
9.	Ms. Gayatri Anupam	Nursing Officer
10.	Ms. Priyanka	Nursing Officer
11.	Mr. Ramakant	Nursing Officer
12.	Mr. Karan Singh	Nursing Officer
13.	Ms. Vineeta	Nursing Officer
14.	Mr. Mahesh Prasad	Nursing Officer
15.	Ms. Bhawna	Nursing Officer
16.	Ms. Ashima Suroy	Nursing Officer
17.	Ms. Sakahi Arora	Nursing Officer
18.	Mr. Narender	Nursing Officer
19.	Ms. Nischal	Nursing Officer
20.	Mr. Kuldeep	Nursing Officer

- In the year 2023-2024, a total of 108 lectures/presentations took place under CNE CELL including all the External lectures, case presentations under e-NEETI or presentations given by Nursing Officers or Senior Nursing Officers working in different areas which was attended by 3216 participants in all.

**List of Training held at NITRD for in service education for
Nursing Officers 01/04/2023 to 31/03/2024**

S. No	Date of Training	Topic	Speaker	Group	No. of Participant
1	12/04/23	ENT & General Health Checkup Camp	-	Public	-
2	12/05/23	Training on BMW, Spill Management, Hand Hygiene, NSI, 5-S	Ms. Veera Devi (SNO, NITRD), Ms. Priyanka (Nursing Officer, NITRD)	MTS workers	50

S. No	Date of Training	Topic	Speaker	Group	No. of Participant
3	17/05/23	Training for waste disposal machine	Company Personnel	Nursing Staff, MTS workers	30
4	19/06/23	Training For Robotic Surgery	SSI Team Members	OT Staff	20
5	10/07/23	Demonstration for use of Polti Sanitation system	Members from Faith Biotech Pvt. Ltd.	Senior Nursing Officers	30
6	18/10/23	Needle stick Injury	Mr. Ramakant (Nursing Officer, NITRD)	Nursing Officers	10
7	18/10/23	Inj. Tazobactam (Piperacillin + tazobactam)	Ms. Racheal (Nursing Officer, NITRD)	Nursing officers	10
8	19/10/23	Inj. Amikacin	Ms. Susheela P Singh (Nursing officer, NITRD)	Nursing officers	10
9	19/10/23	Inj. Ceftriaxone	Ms. Sonal (Nursing officer, NITRD)	Nursing officers	10
10	20/10/23	Inj. Ceftriaxone	Ms. Siby Mathew (Nursing officer, NITRD)	Nursing officers	10
11	20/10/23	Inj. Meropenem	Ms. Elsy Sabu (Senior Nursing Officer, NITRD)	Nursing officers	10
12	20/10/23	Inj. Augmentin	Ms. Sangeeta Majumdar (Nursing Officer, NITRD)	Nursing officers	10
13	20/10/23	Inj. Tazobactam (Piperacillin + tazobactam)	Ms. Mahima (Senior Nursing Officer, NITRD)	Nursing officers	10
14	23/10/23	Tazobactam (Piperacillin + tazobactam)	Ms. Navita (Senior Nursing Officer, NITRD) Ms. Pooja (Nursing Officer, NITRD)	Nursing officers	10
15	20/10/23	10 rights of safe medication administration	Ms. Sangeeta Majumdar (Nursing Officer, NITRD)	Nursing officers	10

S. No	Date of Training	Topic	Speaker	Group	No. of Participant
16	25/10/23	Inj. Ciprofloxacin 200mg	Ms. Paramjeet (Senior Nursing Officer, NITRD)	Nursing officers	10
17	25/10/23	Inj. Ceftriaxone, Linezolid, Gentamicin, Aminoglycosides, Streptomycin, Amikacin	Mr. Narender (Nursing Officer, NITRD) Mr. Yogesh (Nursing Officer, NITRD)	Nursing officers	10
18	25/10/23	BMW & Hand Hygiene Health education	Ms. Veera Devi (SNO, NITRD) Ms. Rajni Nirala (SNO, NITRD)	MTS Workers	52
19	26/10/23	Inj. Augmentin	Ms. Mamta (Senior Nursing Officer, NITRD)	Nursing officers	10
20	26/10/23	Inj. Ciprofloxacin, Linezolid	Ms. Lincy (Nursing Officers, NITRD) Ms. Swarnlata (Nursing Officers, NITRD)	Nursing officers	60
21	27/10/23	Inj. Morphine	Mr. Bhanvra (Nursing Officers, NITRD)	Nursing officers	10
22	30/10/23	Inj. Metrogyl	Ms. Laveena (Nursing Officers, NITRD)	Nursing officers	10
23	30/10/23	Inj. Tazobactam (Piperacillin + tazobactam)	Ms. Maya (Nursing Officers, NITRD)	Nursing officers	10
24	30/10/23	Inj. Augmentin	Ms. Biji Mol (Nursing Officers, NITRD)	Nursing officers	10
25	30/10/23	Inj. Amphotericin B	Ms. Monica Devi (Nursing Officers, NITRD)	Nursing officers	10
26	3/11/23	Inj. Midazolam	Mr. Sanjay (Nursing Officers, NITRD)	Nursing officers	10
27	03/11/23	Inj. Potassium Chloride	Ms. Arti (Nursing Officers, NITRD)	Nursing officers	10
28	17/11/23	WHO Surgical Checklist	Ms. Sakshi Arora (Nursing Officers, NITRD)	Nursing officers	10

S. No	Date of Training	Topic	Speaker	Group	No. of Participant
29	17/11/23	Sterilization & Disinfection	Mr. Sandhipta Patra (Nursing Officers, NITRD)	Nursing officers	10
30	22/11/23	How to wear Sterile Gloves	Ms. Archana Thakur (Nursing Officers, NITRD)	Nursing officers	10
31	22/11/23	Needle Stick Injury	Ms. Archana Thakur (Nursing Officers, NITRD)	Nursing officers	10
32	22/11/23	Hand Hygiene	Ms. Chhaya (Nursing Officers, NITRD)	Nursing officers	10
33	22/11/23	How to wear Sterile Glove	Mr. Ramesh (Nursing Officers, NITRD)	Nursing officers	10
34	22/11/23	Needle Stick Injury	Mr. Sarjeet (Nursing Officers, NITRD)	Nursing officers	10
35	22/11/23	How to wear Sterile Glove	Mr. Alkesh (Nursing Officers, NITRD)	Nursing officers	10
36	22/11/23	Needle Stick Injury	Ms. Anu John (Nursing Officers, NITRD)	Nursing officers	10
37	23/11/23	Hand Hygiene	Ms. Kochu Rani Thomas (Nursing Officers, NITRD)	Nursing officers	10
38	23/11/23	How to wear Sterile Glove	Mr. Krishan Kumar (Nursing Officers, NITRD)	Nursing officers	10
39	23/11/23	Hand Hygiene	Ms. Vinita Matpal (Nursing Officers, NITRD)	Nursing officers	10
40	23/11/23	Spill Management	Mr. Sant Lal (Nursing Officers, NITRD)	Nursing officers	10
41	23/11/23	Hand Hygiene	Ms. Jeenamol Roy (Nursing Officers, NITRD)	Nursing officers	10
42	23/11/23	How to wear Sterile Glove	Ms. Lizamma (Nursing Officers, NITRD)	Nursing officers	10
43	23/11/23	Needle Stick Injury	Ms. Ashima Suroy (Nursing Officers, NITRD)	Nursing officers	10

S. No	Date of Training	Topic	Speaker	Group	No. of Participant
44	23/11/23	Hand Hygiene	Ms. Alveena James (Nursing Officers, NITRD)	Nursing officers	10
45	23/11/23	Hand Hygiene	Ms. K. Soncy (Nursing Officers, NITRD)	Nursing officers	10
46	23/11/23	How to wear Sterile Glove	Ms. Soumya Lais (Nursing Officers, NITRD)	Nursing officers	10
47	23/11/23	Needle Stick Injury	Mr. Banwari Lal (Nursing Officers, NITRD)	Nursing officers	10
48	23/11/23	Hand Hygiene	Ms. Madhu Bala (Nursing Officers, NITRD)	Nursing officers	10
49	23/11/23	Hand Hygiene	Mr. Ajeet (Nursing Officers, NITRD)	Nursing officers	10
50	24/11/23	How to wear Sterile Gloves	Ms. Nisha (Nursing Officers, NITRD)	Nursing officers	10
51	24/11/23	Hand Hygiene	Ms. Bijimol (Nursing Officers, NITRD)	Nursing officers	10
52	24/11/23	How to wear Sterile Gloves	Mr. Vishal (Nursing Officers, NITRD)	Nursing officers	10
53	24/11/23	Spill Management	Ms. Maya (Nursing Officers, NITRD)	Nursing officers	10
54	24/11/23	Hand Hygiene	Mr. Ramesh (Nursing Officers, NITRD)	Nursing officers	10
55	24/11/23	How to wear Mask	Mr. Omprakash (Nursing Officers, NITRD)	Nursing officers	10
56	24/11/23	Hand Hygiene	Ms. Sukhwinder Kaur (Nursing Officers, NITRD)	Nursing officers	10
57	24/11/23	Needle Stick Injury	Ms. Nible (Nursing Officers, NITRD)	Nursing officers	10
58	25/11/23	Spill Management	Mr. Sanjay (Nursing Officers, NITRD)	Nursing officers	10
59	25/11/23	Needle Stick Injury	Mr. Nikil (Nursing Officers, NITRD)	Nursing officers	10

S. No	Date of Training	Topic	Speaker	Group	No. of Participant
60	25/11/23	Hand Hygiene	Mr. Ishwar (Nursing Officers, NITRD)	Nursing officers	10
61	25/11/23	Hand Hygiene	Ms. Arti (Nursing Officers, NITRD)	Nursing officers	10
62	25/11/23	Needle Stick Injury	Ms. Nischal (Nursing Officers, NITRD)	Nursing officers	10
63	25/11/23	5 S	Mr. Sant Lal (Nursing Officers, NITRD)	Nursing officers	10
64	25/11/23	Hand Hygiene, Spill Management	Ms. Snehlata (Nursing Officers, NITRD)	Nursing officers	10
65	25/11/23	Hand Hygiene	Ms. Myclean (Nursing Officers, NITRD)	Nursing officers	10
66	25/11/23	How to wear Gloves	Mr. Harish (Nursing Officers, NITRD)	Nursing officers	10
67	25/11/23	Hand Hygiene	Ms. Sajimol (Nursing Officers, NITRD)	Nursing officers	10
68	26/11/23	How to wear Gloves	Mr. Mahesh (Nursing Officers, NITRD)	Nursing officers	10
47	23/11/23	Needle Stick Injury	Mr. Banwari Lal (Nursing Officers, NITRD)	Nursing officers	10
69	27/11/23	Needle Stick Injury	Ms. Sunita (Nursing Officers, NITRD)	Nursing officers	10
70	27/11/23	Hand Hygiene	Ms. Paramjit (Nursing Officers, NITRD)	Nursing officers	10
71	27/11/23	Needle Stick Injury	Ms. Pushpa (Nursing Officers, NITRD)	Nursing officers	10
72	27/11/23	How to wear Gloves	Ms. Shelma Biju (Nursing Officers, NITRD)	Nursing officers	10
73	27/11/23	Needle Stick Injury	Ms. Asha (Nursing Officers, NITRD)	Nursing officers	10
74	29/11/23	Spill Management	Ms. Jessy V. (Nursing Officers, NITRD)	Nursing officers	10
75	29/11/23	5 S	Mr. Ramakant Sharma (Nursing Officers, NITRD)	Nursing officers	10

S. No	Date of Training	Topic	Speaker	Group	No. of Participant
76	30/11/23	Spill Management	Ms. Madhu Bala (Nursing Officers, NITRD)	Nursing officers	10
77	30/11/23	How to wear Sterile Gloves	Ms. Moushmi Das (Nursing Officers, NITRD)	Nursing officers	10
78	30/11/23	Spill Management	Ms. Komal (Nursing Officers, NITRD)	Nursing officers	10
79	30/11/23	Needle Stick Injury	Ms. Laveena (Nursing Officers, NITRD)	Nursing officers	10
80	6/12/23	Cardio-pulmonary Resuscitation Awareness Programme	Team, National Board of Examination	Nursing Superintendent, Senior Nursing Officers & Nursing Officers	29
81	7/12/23	D-TAT training	ICMR Team	Nursing Superintendent, Senior Nursing Officers & Nursing Officers	17
82	03/01/23	Induction Training	NITRD Senior Nursing Officers	New recruitees	16
83	12/02/24	Rozgar Mela		Nursing Officers at NITRD	11
84	14/02/24	Delhi Triage and Treat TB training	ICMR- NIE	ANS, DNS & SNOs	8
85	23/02/24	Kayakalp training on Hand Hygiene,NSI, 5-S,BMW,Spill management	Dr. Anita Rani Kansal, ANS,DNS,SNO	SRs, JRs at NITRD	29
	Total				1022

List of Trainings for Nursing Students held at NITRD:

S. No	Date of Training	Topic	Speaker	Participant Group	No. of Participant
1	18/09/23	Field visit of College of Nursing, Kasturba	Ms. Simran Samuel (SNO, NITRD)	Bsc. Nursing II year student	13

S. No	Date of Training	Topic	Speaker	Participant Group	No. of Participant
2	6/10/23	Tuberculosis current situation, challenges, & overview of control programs in India	Dr. Khalid (Consultant; NITRD)	Batch I of B.Sc. Nursing II Year students, Holy Family College of Nursing	22
3	13/10/23	Tuberculosis & its Management and NTEP	Ms. Ashima Suroy (Nursing Officer, NITRD)	Batch II of B.Sc. Nursing II Year students, Holy Family College of Nursing	22
4	21/10/23	Tuberculosis, its Prevention, Management & Control programme	Ms. Sakshi Arora (Nursing Officer, NITRD)	Batch III of B.Sc. Nursing II Year students, Holy Family College of Nursing	21
Total					78

List of Case presentations conducted under e-NEETI :

S. No	Date	Topic	Speaker	Participant Group	No. of Participant
1	21/04/23	Case presentation of Nursing Management of drug sensitive TB	Ms. Sakshi Arora (Nursing Officer, NITRD)	Nursing Officers, NITRD	24
2	26/05/23	Case presentation on Nursing Management of "Bronchiectasis"	Ms. Priyanka (Nursing Officer, NITRD)	NITRD	18
3	30/06/23	Intercostals Drainage and Nursing Care of Patients with ICD	Ms. Nischal (Nursing Officer, NITRD)	NITRD Nursing Staff	50
4	27/07/23	MDR TB and Nursing Management	Ms Gayatri Anupam (Nursing Officer, NITRD)	NITRD Nursing Staff	21
5	17/08/23	e-NEETI official launch	Director (NITRD), Senior Faculty (NITRD), ECHO Team,	NITRD Staff & healthcare workers across states	351

S. No	Date	Topic	Speaker	Participant Group	No. of Participant
6	24/08/23	Counseling of patients with MDR TB	Ms. Rajni Nirala (Senior Nursing Officer, NITRD) Ms. Ashima Suroy (Nursing Officer, NITRD)	Nurses, Doctors and other healthcare workers across India	181
7	29/09/23	Multidrug Resistant Tuberculosis	Ms. Divya Sojan, (Nursing Officer at AIIMS, New Delhi)	Nurses, Doctors and other healthcare workers across India	148
8	27/10/23	Management of Obstructive Sleep Apnoea	Mr. Shaiby Thankappan (Nursing Officer, NITRD)	Nurses, Doctors and other healthcare workers across India	140
9	24/11/23	Nurses' role in Allergy Clinic	Ms. Sushila P Singh (Nursing Officer, NITRD)	Nurses, Doctors and other healthcare workers across India	219
10	25/01/24	TB Meningitis	Anjani Dobhal (Nursing Officer, AIIMS Rishikesh)	Nurses, Doctors and other healthcare workers across India	161
11	21/02/24	Cardio-Pulmonary Resuscitation	Mr. Nagesu (Nursing Officer, NITRD)	Nurses, Doctors and other healthcare workers across India	242
12	22/03/24	Basics of Airborne Infection Control	Dr. Anita Rani kansal (Nursing Superintendent, NITRD)	Nurses, Doctors and other healthcare workers across India	158
Total					1786

List of External lectures conducted monthly:

S. No	Date	Topic	Speaker	Participant Group	No. of Participant
1	26/06/23	Reflexology and Role of Acupressure in Holistic Care	Ms. Manju Rani Aggarwal (Ex-SNO, NITRD)	(ANS, DNS, Senior Nursing Officer and CNE cell members)	50
2	14/07/23	Stress Management	Ms. Vimla Mehra (Ex. D.G.P.)	(ANS, DNS, Senior Nursing Officer and CNE cell members)	50
3	01/09/23	Utilization of patient care data in clinical research	Dr. Smriti Arora (Principal, AIIMS Rishikesh)	(ANS, DNS, Senior Nursing Officer and CNE cell members)	35
4	7/10/23	Patient safety & Quality care	Ms. Jeena Pradeep, (Deputy Assistant Director General, MoHFW, Nirman Bhawan, Delhi)	(ANS, DNS, Senior Nursing Officer and CNE cell members)	40
5	30/11/23	Color therapy	Ms. Manju Rani Aggarwal (Ex-SNO, NITRD)	(ANS, DNS, Senior Nursing Officer and CNE cell members)	30
6	06/01/24	Motivation & Initiatives in Clinical Care	Ms. Roopa Rawat Singhvi, Nurse Consultant at WHO collaborating Centre at AIIMS	(ANS, DNS, Senior Nursing Officer and CNE cell members)	45
7	23/02/24	Nurse Led Models of Care in India	Dr. Gopichandran .L, Associate Professor and Consultant, Nursing Department, NIMHANS, Bengaluru	(ANS, DNS, Senior Nursing Officer and CNE cell members)	30
Total					330

4.24 Physiotherapy Section**Administrative In-charge**

- **Dr. Rajesh Kumar, Chief Medical Officer (CMO);**
- **Dr. Ananya Prabhu; Chest Specialist, Grade II (Senior scale)**

Physiotherapist : Mr. Prabhu Lal Jat

The physiotherapy section of the Institute is actively involved in patient care in OPD, ICU,

post-surgical wards and in general wards. Physiotherapy treatment to patients helps them in early recovery from the disease.

The section has various machines like ultrasound Therapy Machine, HOT MAGNER, machines for Electric Stimulation and TENS (Trans-cutaneous Electric Nerve Stimulation), Shoulder Wheel, Static Cycle, Manual Traction Set, Traction Machine, Postural Drainage Table, Incentive Spirometer, Wax Bath Machine etc. Physiotherapy is given to patients suffering from COPD, bronchiectasis, empyema, lung abscess, pleural thickening, joint contractures etc., as well as, to post operative patients in ICU and wards. The patients who received physiotherapy treatment during the year are shown in table-27.

Table 27(a) : Physiotherapy Data (April-2023 –March-2024)

DETAILS	New		Follow-up		Total
	Male	Female	Male	Female	
Number of patients attended OPD for physiotherapy	228	155	362	313	1058
Number of calls attended from the wards and ICU for physiotherapy	313	202	1279	1012	2806
Total patients received physiotherapy	541	357	1641	1325	3864
	898		2966		

Table 27(b): Physiotherapy Data based on Modality (April-2023 -March-2024)

Type of Modality	Number of Sitzings
Hot MAGNER	367
Ultrasonic Therapy	317
Vibrator Therapy	394
Wax bath	183
Lumbar and Cervical Traction	22
Postural Drainage	410
Therapeutic Exercises OPD	969
Total Sitzings	2662

4.25 Sleep Lab

In-Charge : **Dr Rajnish Gupta**

Chest Specialist : **Dr. Saroj Meena**

Staff : **Mr Shaiby**

A Sleep Lab has been fully operational within the Institute since May 2004. It is headed

by Dr Rajnish Gupta, Senior Chest Specialist, who is being assisted by Dr Saroj Meena, Chest Specialist and Mr Shaiby. Various activities of the Department are the enrollment of patients suspected with a sleep related breathing disorder, the conduct of Sleep Study (Polysomnography) and Positive Airway Pressure Titration, their manual scorings and reportings with appropriate recommendations. In addition, teaching and training, research and publications on the subject are also being carried out regularly.

Infra-structure

The Sleep Lab has 2 rooms – one with a comfortable bed for the patient to sleep on and the other for the technician who records the study. The equipment used for recording the sleep study is Compumedics E-Series Polysomnograph which has an interface box, a control module and a power supply unit. It can monitor upto 57 channels. The Sleep Lab equipment can conduct the study of one patient at a time, though it is upgradable for the recording of four patients at a time. The Polysomnograph in the patient's room is connected through LAN with the Computer (Monitor, CPU and Printer) in the technician's room, where the study gets recorded. The Department is using the PSG III software, which is American Academy of Sleep Medicine (AASM) compliant. A BIPAP Machine is available in the Sleep Lab for carrying out CPAP or BIPAP Titrations of the diagnosed patients with OSA.

The Sleep Lab is a quiet and a comfortable place for sleeping with the facility of air-conditioning, communication with the technician in case of need, providing Oxygen inhalation either during the baseline study or during the titration study and UPS for an un-interrupted electrical supply. Regular procurement of supplies and maintenance of the equipment facilitates the provision of a quality care to the patients with sleep disordered breathing.

Services

Sleep Lab is diagnosing patients with sleep related breathing disorders. All suspected cases of sleep disordered breathing like obstructive sleep apnoea (OSA) etc., referred from the out-patient department of the Institute or from the other hospitals, are enrolled in the Sleep Clinic run every week on Tuesdays. Detailed findings of their history and the general examination are recorded in a specially designed proforma. Relevant investigations are carried out and necessary instructions given to them. In order that they get acquainted with the Sleep Lab, they are made to visit the lab at least once before the conduct of the study. On the scheduled date, an overnight polysomnography is conducted in the sleep lab on the Compumedics E-Series PSG III software. The recorded study is analyzed both automatically and manually, interpreted and reported with specific recommendations.

All diagnosed cases of sleep disordered breathing are appropriately subjected to a Continuous Positive Airway Pressure (CPAP) or Bilevel Positive Airway Pressure (BIPAP) titration in the Sleep Lab during the simultaneous conduct of a polysomnography. The titration study is also analyzed both automatically and manually, interpreted and reported with specific recommendations to the patients for using the requisite pressure during sleep. Subsequently, the follow-up sleep studies are conducted and patients are given appropriate instructions. More than 150 sleep studies including the PAP titrations are being carried out annually in the Sleep Lab.

Teaching and Training

The diagnostic and therapeutic evaluation of sleep related breathing disorders is being taught to the doctors and the staff including the postgraduate DNB students and the senior residents of the Institute. The subject is also covered in the teaching curriculum of the residents as per the academic schedule through lectures, journal clubs, seminars etc. Teaching and training on the subject are also carried out regularly for the benefit of the trainee doctors and staff from the other Institutes as well. Short term Sleep Lab Training for technician was carried out for six technicians' doctors between 1st to 31st March 2024. The faculty of the sleep lab are participating in sleep workshops at national conferences.

Research

Many research projects on the subject are being / have been carried out regularly in Sleep Lab over the years. Some of these are:

1. To study the effect of intervention (intensive patient communication) on short term adherence of Positive Airway Pressure therapy in diagnosed cases of obstructive sleep apnoea and to determine the reasons of non-compliance.
2. Sleep Oxygen De-saturation in late Sequelae of Pulmonary Tuberculosis.
3. To determine the existence and pattern of sleep disordered breathing in cases of interstitial lung diseases.
4. To correlate Mallampati scale and cephalometric parameters with the presence and severity of sleep related breathing disorders in Indians.
5. Correlation between Quality of Sleep, Depression, Bode Index and Quality of Life in COPD patients.
6. To determine and to compare the initial and final effective pressure levels in the adult patients with obstructive sleep apnoea.
7. To determine the existence and pattern of sleep disordered breathing in non-obese adult Indian snorers.
8. To determine the pattern of Sleep Disordered Breathing in Obese Indian Subjects.

Publications

Articles and Chapters on sleep have been published in well-known journals or books. Some of these are:

- i) K. Gupta, A. Jaiswal, R. Gupta, A. K. Jain, D. Kumar, D. Behera. Pattern of sleep disordered breathing in obese Indians. *Indian J Sleep Med* 2009; 4 (1): 19-31.
- ii) Rajnish Gupta, D. Behera. Essentials of Polysomnography and recommendations in adults. In: Behera D, Gaur SN, Katiyar SK, Gopal B, Gupta KB, Luhadiya SK, editors. *NCCP Textbook of Respiratory Medicine*. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd. 2011; pp 756-765.

- iii) V.K.Arora, Rajnish Gupta. Interpretation of polysomnography and management of obstructive sleep apnoea-hypopnea syndrome. In: Arora VK, Arora R, editors. Practical approach to critical respiratory medicine, sleep disorders and fiberoptic bronchoscopy. New Delhi: Jaypee Brothers Medical Publishers (P) Ltd. 2006; pp 602-613.
- iv) Meena SK, Gupta R, Puri MM. 2. Existence and pattern of sleep- related breathing disorders in patients diagnosed with bronchial asthma. Monaldi Archives for chest diseases; 2024.2855

Future Vision

Efforts are on to strengthen the Department with a better staff availability, more supporting equipments and the development of sleep protocols so that the Department could become a premier site for the conduct of training and research in the field of Sleep Medicine in the country.

Table 28: Polysomnography data (April-2023- March-2024)

Number of cases = 109		
Cases with Apnoeas	Obstructive	32
	Central	0
	Mixed	01
Cases with Hypopnoeas		44
Cases with Significant Respiratory Disturbance Index/HR. (RDI/Hr>5)	Mild	12
	Moderate	07
	Severe	40
Cases with Nocturnal Hypoxaemia		28
Other findings		01
Cases put on CPAP/BIPAP Trial		62

4.26 Integrated Counseling and Testing Centre (ICTC)

In-charge : Dr. Upasna Agarwal

NITRD has a centre for Integrated Counseling for HIV testing in the same premises as the ART centre. During the period from April-2023 to March-2024, a total of 8255 patients were imparted pre-test, post test counseling and free of cost HIV Testing. A total of 126 (1.53%) atients were found to be positive for HIV (Table-29).

Table 29: ICTC Data: April 2023 to March 2024

	Adults			Children		Total
	Male	Female	TG	Male	Female	
Number of Pretest Counseling	4406	3351	34	177	287	8255
Number of Posttest Counseling	4406	3351	34	177	287	8255

Cases tested for HIV who came to ICTC						HIV Positives	
i) From NTEP	208	170	0	12	29	419	02
ii) From NITRD OPD	1049	855	0	62	95	2061	71
iii) From NITRD IPD (Wards)	3048	1614	0	103	163	4928	52
iv) From NGO & Others	101	712	34	0	0	847	01
Total Cases Tested for HIV (i+ii+iii+iv)	4406	3351	34	177	287	8255	126

4.27 Yoga Therapy and Research Centre

Administrative In-charge:

- **Dr. Rajesh Kumar, Chief Medical Officer (CMO);**
- **Dr. Ananya Prabhu; Chest Specialist, Grade II (Senior scale)**

A centre for collaborative therapy and research in Yoga was established in the Institute on 24th May 2007 in partnership with Morarji Desai National Institute of Yoga, New Delhi. The Centre comprises of staff- a Yoga Physician (vacant), female Yoga Therapist, **Mrs. Priti Nandi**. The Institute is offering yoga services to both outdoor and indoor patients of COPD, bronchial asthma and those requiring respiratory rehabilitation as well as to hospital staff. A DNB research study has also been conducted on the subject in patients of COPD.

Yoga centre does the following:

- Activities for the OPD referred patients
- Activities in the ward
- Activities for General public

Table 30(a): Yoga Services (April- 2023 to March- 2024)

Patients Details		New Enrollment		Old Enrollment (follow-ups)		Total
		M	F	M	F	
1.	Patients treated at OPD	376	148	589	28	1141
2.	Patients treated at IPD	176	122	61	51	410
3.	General participants	25	13	18	38	94
4.	Pulmonary Rehabilitation Clinic	26	4	524	27	581
Total		603	287	1192	144	2226
		890		1341		

Table 30(b): Details of Yoga Session (April- 2023 to March- 2024)

Total attendance of participants	4460	
Average no. of participants per day	OPD	72
	IPD	151
Total no of session in the year		5218
Average no of sessions per day		18
Total no. Of working days in year		296
Average duration of session		30 minutes

Researches Other Than DNB

In-Charge (Research cell) – Dr. Devika Tayal

National Institute of TB & Respiratory Diseases assists the Govt. of India in developing strategies for TB control and in implementation of the same. Based on operational research, the faculty of the institute has contributed significantly to the development of National guidelines in India for management of Tuberculosis, MDR-TB and pediatric tuberculosis under national programme.

The Institute has a Research Committee and an Ethical Committee for the evaluation of the research proposals. The institute has collaborations with many reputed national and international institutions. Several rapid diagnostic tests for the diagnosis of tuberculosis are already being tested in collaboration with international agencies.

The long-term goal of the institute will be to develop a center of excellence providing a platform for clinical immunological work in the field of tuberculosis and other respiratory diseases. The research focus would be on priority to work on the diagnosis, monitoring and evaluation of various newer therapeutic modalities like drug and vaccines besides studying the immune pathogenesis and development of tuberculosis and other respiratory diseases. The institute will focus on the proteomics and genomics to achieve the above objectives. The facility will focus on discovering antigens, antibodies and immunological biomarkers for rapid and early diagnosis of tuberculosis, HIV-TB co-infection, MDR-TB and XDR-TB and on developing cost-effective devices for rapid detection of tuberculosis. This in long run will help in the field of evaluation and application of technology in tackling these diseases and will supplement the National Tuberculosis Elimination Programme (NTEP).

New Research Activities Other than DNB initiated during the year 2023-2024

S. No	Title
1	A Multi-centric Performance Evaluation of Diagnostic Accuracy of Determine™ TB LAM Ag Test, a Point-of-Care Urine Lipoarabinomannan Assay, for detection of Active Tuberculosis in People Living with HIV in India.
2	Evaluate the effectiveness, safety and tolerability of various doses of Linezolid in combination with Bedaquiline and Pretomanid in adult with (Pre-XDR), or treatment intolerant/ Non-responsive Multidrug-Resistant (MDRTI/NR) Pulmonary Tuberculosis in India.

S. No	Title
3	Assessing Fluoroquinolone (Levofloxacin) acceptability among contacts of MDR-TB Patients: A qualitative study.
4	Single-blinded comparative evaluation of standard E TB-Feron ELISA with QuantiFERON-TB Gold Plus and TST in microbiologically confirmed Tuberculosis Patients.
5	Efficacy of BCG revaccination compared with oral chemoprophylaxis in house hold contacts aged 6-18 years for prevention of Tuberculosis disease- A phase III open labeled randomized controlled trial.
6	Protocol for diagnostic evaluation of new molecular test kit(s) with existing approved test for detection of adult pulmonary Tuberculosis, paediatric pulmonary Tuberculosis, extra-pulmonary Tuberculosis and drug-resistant Tuberculosis.
7	Evaluate the effectiveness, safety and tolerability of various doses of Linezolid in combination with Bedaquiline and Pretomanid in adults with pre-extensively drug resistant (Pre-XDR), or treatment Intolerant/ Non-responsive Multidrug-Resistant (MDR TI/NR) Pulmonary Tuberculosis in India. (Version 3.1.1 & Version 3.1.2).
8	Evaluation of AFIAS IGRA-TB product for detection of Mycobacterium tuberculosis infection.
9	Study of Mycobacterial Tuberculosis isolates using whole Genome Sequencing (WGS) for newer anti-TB drugs.

Awards and Achievements

S No.	Awards and Achievements during the Year 2023-24
1	Robotic Surgery Unit Installed in the Thoracic Surgery Department of this Institute in the Month of April,2023.
2	A JAC Team from Guru Gobind Singh IP University visited this Institute on 21.04.2023 for inspection regarding affiliation of NITRD with GGSIP University for Post Graduate Course in MD(Respiratory Medicine and MD(Microbiology) for the Academic Session 2023-24.
3	This Institute has organized an "ENT & General Health Check up Camp" for Jail Inmates at Central Jail No.12, Mandoli, Delhi-110093 on12/04/2023.
4	Dr. Pravesh Yadav, AMS, attended as an External Assessor State NQAS assessment of Guru Gobind Singh Hospital, New Delhi, from17-19th April 2023.
5	Distribution of Food Basket to TB patients adopted by Nikshay Mitras under Nikshya poshan yojna on 25.04.2023 in NITRD, OPD Ground floor.
6	As per the instruction of MoHFW, passengers of Sudan Evacuation flights were quarantine in this Institute in the month of May 2023.
7	NITRD in collaboration UNION organized a meeting to discuss the modality of training with all the facilitators from CTD as well as NITRD from 01/05/2023 to 02/05/2023 in NITRD.
8	The "Department Related Parliamentary Standing Committee (DRPSC)" on Health and Family Welfare chaired by Shri Bhubaneswar Kalita, MP (Rajya Sabha) visited National Institute of TB and Respiratory Diseases (NITRD) on the 09th May, 2023 as part of examination of the subject" Implementation of Pradhan Mantri TB Mukh Bharat Abhiyan (PMTBMBA)".
9	Inspection of this Institute by the Manniya Sansadiya Rajbhasha Samiti ki Teesri up-samiti ki Nirikshan Baithak and Exhibition was held on 26/5/2023 at Vigyan Bhavan.
10	Dr. Pravesh Yadav, AMS, conducted External NQAS assessment of PHC Udayanapuram, Kottayam, Kerala on May 15-16,2023

S No.	Awards and Achievements during the Year 2023-24
11	Dr. Ravindra Kumar Dewan, Director, and Dr. Saraansh Bansal, Specialist Gr. II, successfully performed the first robotic surgery case in the Institute in the month of June, 2023.
12	Certificate received month of June 2023 from MoHFW regarding registered as a Ni-Kshay Mitra under the "Pradhan Mantri TB Mukh Bharat Abhiyan: to provide support to Persons with TB undergoing treatment.
13	A "Angdaan Mahotsav" has been observed from 01/07/2023 to 31/07/2023 in the Institute and various activities were performed during this period in the Institute Campus.
14	An awareness march for "Angdaan Mahotsav" was organized on 30/07/2023 from NITRD Campus to Qutab Minar and back.
15	Senior Superintendent of Post offices, New Delhi South West Division, Chanakya Puri, New Delhi, organized a three days camp in the Institute from 19.07.2023 to 21.07.2023 from 10.00AM to 4.00PM regarding various POSB schemes.
16	Dr. Prabhpreet Sethi, Specialist Gr.I (TB&RD) and Dr. Ashish Ranjan, Specialist Gr.II-SS (TB&RD), were nominated for the empanelment in the National Human Rights Commission medical expert panel.
17	ENT Assessment, Chest Checkup and Angdaan Awareness Camp organized at Gaushala Mandir, Kishangarh Village, Vasant Kunj, New Delhi, on 1.8.2023.
18	"Angdaan Mahotsav" and "Indian Organ Donation Day" observed in the Institute on 03/08/2023. All employees took "Organ Donation Pledge" on 03/08/2023.
19	Ms. Ankita Dey, Statistician, of this institute received award of Ph.D in Statistics in August 2023.
20	Dr. Mansukh Laxmanbhai Mandaviya, the Union Minister of Health and Family Welfare, and Chemicals and Fertilizers, inaugurated Robotic Surgery System in the Department Thoracic Surgery of NITRD on 15/12/2023.
21	CTD, MoHFW and NITRD organized AYUSH-NTEP training/sensitization of around 200 AYUSH doctors in four batches from 18/12/2023 to 21/12/2023 at NITRD.
22	Under Mission Recruitment, Exams were conducted by HLL-DGHS for the various vacant posts of HMTS (General Others/Wardboy), HMTS (Sanitation/Safai Karamchhari), HMTS (Dietary/Kitchen Staff), Dietician, Pharmacist and Laboratory Assistant and all appointment letters also issued for these posts.
23	Republic Day function was held on 26th January, 2024. Dr. R. K. Dewan, Director NITRD, hoisted the National Flag. Large number of employees attended the function.

S No.	Awards and Achievements during the Year 2023-24
24	Peer Assessment of the Institute under Kaya Kalp award scheme 2023-24 was done on 13th January,2024 by the AIIMS New Delhi team.
25	Dr. U. K. Khalid, Epidemiologist (SAG), Dr. Pravesh Yadav, Assistant Medical Superintendent and Dr. Ritu Singhal, Specialist (Microbiology) (SAG) of this Institute undertaken Peer Assessment of AIIMS, Jodhpur in January 2024.
26	Republic Day function was held in the Institute campus on 26/01/2024. All staff and their family members attended the function in January 2024.
27	Dr. Sangeeta Sharma, Specialist (SAG) & HOD (Pediatrics), NITRD, has taken over the additional charge of Director, NITRD w.e.f. 10/02/2024 (F/N), in addition to her current duties.
28	A Rozgar Mela session was scheduled for all new recruitees of NITRD on 12th February 2024.
29	National level training for District TB officers (DTOs) was organized from 12/02/2024 to 24/02/2024.
30	The external assessment of the Institute for the Kaya Kalp award scheme 2023-24 was done by team from National Institute of Health and Family Welfare (NIHFW), New Delhi on 26th to 27th February, 2024.
31	A Re-orientation meeting for “Delhi-Triage and Treat TB (D-TAT)” was held on 14/02/2024.
32	The trainees of 5th Foundation Training programme (2nd Batch) of the Medical Officers under CHS visited the Institute from NIHFW on 3rd February 2024.
33	Epidemiology and Public Health department has organized Group talk on importance of cleanliness for the purpose of awareness regarding importance of cleanliness in February 2024.
34	Epidemiology and Public Health department has organized distribution of Food Baskets to TB patients for providing nutritional support to fight the disease by Nikshay Mitras & members of Parliamentary Committee at NITRD in February 2024.
35	Epidemiology and Public Health department has organized Health talk on Alcohol De-addiction was done by members of Alcoholics Anonymous Group to spread awareness of Alcohol De-addiction in February 2024.
36	The Foundation Day of the Institute celebrated on 16th March, 2024.
37	24th March, 2024 was observed as World TB Day in the Institute.

Publications

7.1 Publications in Journals

S. No.	Authors Names	Title of the Paper	Journals/Year/Month/ Volume/Page No.
01	Singhal R, Sah GC, Sethi P, Singh A, Kumar G, Myneedu VP.	Detection of multidrug and extensively drug-resistance and mutation pattern in geriatric patients from North Indian referral institute.	Indian J Tuberc. 2022;69 Suppl 2:S287-S294. doi: 10.1016/j.ijtb.2022.10.016. Epub 2022 Oct 28. PMID: 36400525.
02	Chiang SS, Graham SM, Schaaf HS, Schaaf, H. Simon, Marais B, Sant'Anna, Clemax Couto, Sangeeta Sharma, Jeffrey S, Triasih R. et al.	Clinical standards on drug-susceptible tuberculosis in children and adolescents.	Int J Tuberc Lung Dis 2023 27(8):584–598.
03	Sharma Sangeeta	Tuberculosis Elimination Program in Children-Progress and Way Forward.	Vimlesh Seth, SK Kabra (Eds.) Essentials of Tuberculosis: in Children 5th edition 2023.
04	Sharma Sangeeta (Section editor), Manoj Rawal, Tilak Raj Dangwal.	Tuberculosis Notification and Prevention.	NK Subramanya, Sanjiv S Rawat (Eds.) IAP NRC Textbook of Pediatric Pulmonology 2023.
05	Sharma Sangeeta (Section editor), Krishna Mohan R, Yadav A.	Adverse drug reactions in antitubercular therapy	NK Subramanya, Sanjiv S Rawat (Eds.) IAP NRC Textbook of Pediatric Pulmonology 2023.
06	Sharma Sangeeta (Section editor),	Non-tubercular Mycobacteria.	NK Subramanya, Sanjiv S Rawat (Eds.). IAP NRC Textbook of Pediatric Pulmonology 2023.

S. No.	Authors Names	Title of the Paper	Journals/Year/Month/Volume/Page No.
07	Casenghi M, Jennifer Furin; Sekadde MP, Sangeeta Sharma; Ben J Marais	Closing the policy-practice gap for tuberculosis preventive treatment – which strategies to prioritize?	International Paper Published – The Lancet Child & Adolescent Health March 21, 2024. https://doi.org/10.1016/S2352-4642(24)00018.X
08	Dr. Amit Sharma	"Beware of the master masquerader. A case series of cavitary lung disease with hearing loss".	A co-author of International Publication
09	Dr. Amit Sharma	Monoresistance to Rifampicin: An Uncharted Territory in The Management of Drug-Resistant Tuberculosis.	(Review Article)
10	Dr. Amit Sharma	Brief Overview on Sustained Release Theophylline (SRT): An Older Drug for COPD.	(Chapter)
11	Dr. Amit Sharma	"The Conundrum of Thoracic Radiological Signs in Patients Having Chronic Kidney Disease (CKD) Who are on Haemodialysis".	Published an International paper, in Journal of Pulmonology Research & Reports.
12	Dr. Amit Sharma	"Diabetes mellitus in acute exacerbation of chronic obstructive pulmonary disease – the tip of the iceberg".	Published a Chapter in International publication
13	Ms. Ankita Dey	"Tobacco and Alcohol Consumption among Men in India: A comparative study of NFHS-4 and NFHS-5".	Published research paper in the Epidemiological Foundation of India (EFI) Journal

Organisation of Conferences/ Seminars/Workshops/CMEs

S. No.	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organised	Names of the Organisers/ Coordinators	Venue	Dates (From - to)
1	The Institute organized a public lecture and panel discussion on “World No Tobacco Day” theme “Grow Food Not Tobacco”.	-	NITRD	31 st May, 2023
2	Consultative workshop on NTEP Modernized Training System was organized in NITRD by CTD and The UNION. Training Division attended the above workshop.	Dr. R. K. Dewan, Dr. Rupak Singla, Dr. M. M. Puri, Dr. Sanjay Gupta, Dr. Neeta Singla	NITRD	18 th July, 2023
3	Conducted PFT workshop for Physiotherapy students and demonstrated diffusion capacity and Body Plethysmography at NITRD.	Dr. Rupak Singla and Dr. Sanjay Gupta	New Delhi	16 th and 17 th November, 2023
4	ENT Assessment, Chest Checkup and Angdaan Awareness Camp organized at Gaushala Mandir, Kishangarh Village, Vasant Kunj,	-	New Delhi	1 st August, 2023
5	Institute organized a Union OR (Operational Research) course.	-	NITRD	28 th August 2023 to 2 nd September 2023
6	Workplace based clinical assessment for formative assessment test (FAT) of DNB students.	-	NITRD	19 th September, 2023

7	A lecture was organized for Batch I of B.Sc. Nursing II Year students, Holy Family College of Nursing on the topic "Tuberculosis current situation, challenges, & overview of control programs in India".	Nursing Section	NITRD	6 th October, 2023
8	An external guest lecture was organized on Session was taken by Ms. Jeena Pradeep, Deputy Assistant Director General, MoHFW, Nirman Bhawan, Delhi, on "Patient safety & Quality care".		NITRD	7 th October, 2023
9	A lecture was organized for Batch II of B.Sc. Nursing II Year students, Holy Family College of Nursing on the topic "Tuberculosis & its Management and NTEP".	Nursing Section	NITRD	13 th and 21 st October, 2023
10	e-NEETI Session No.-9 on "Management of Obstructive Sleep Apnoea".	Nursing Section		27 th October, 2023
11	e-NEETI Session No.-10 took place on Topic for the session was "Nurses' role in Allergy Clinic", taken by Ms. Sushila P Singh, Nursing Officer, NITRD. Expert for the day were Dr. Anil Jain, Chief Medical Officer, NITRD, Dr. Ravindra Kumar Dewan, Director, NITRD, and Dr. Anita Rani Kansal, Nursing Superintendent, NITRD. The session was attended virtually by 219 Nurses, Doctors and other healthcare workers across India.	Nursing Section		24 th November, 2023
12	Workshop on "PFT in Clinical Practice" was organized in the Institute for the faculty and resident doctors.		NITRD	25 th January, 2024
13	A Kayakalp Training was conducted on on hand hygiene, needle stick injury, 5S and biomedical waste management.	NITRD		23rd February 2024
14	A Review Meeting and Cross-Learning Workshop of the Centre of Excellence for DR-TB Care was held from the Institute.		NITRD	10th to 12th March 2024

15	“TBCON 2024” conference was organized in the Institute, alongwith Pediatric Respiratory society. All faculty members of the Institute participated in the conference and delivered lectures and chaired various sessions. A large number of delegates from other institutions attended the conference.		NITRD	17 th and 18 th March, 2024
16	Organized TB Bacteriology & Immunology Webinar: New Insight on Non-tuberculous Mycobacteria CET under International Union of Tuberculosis and Lung Diseases.	Dr. Ajoy Kumar Verma	NITRD	22 nd March 2024

Presentations/Chaired Sessions/Attended Conferences/ Scientific Sessions/Trainings

9.1 Presentations/Chaired Sessions outside Country:

S. No.	Names of Conferences/ Workshops/Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of the presenter	Venue	Dates (From - to)
1	Attended South Asia's TB Event on at Kathmandu, Nepal.	Dr. Sangeeta Sharma, Director & HOD (Pediatrics) and Dr. Upasna Agarwal, Specialist (Internal Medicine) SAG,	Nepal	29 th February, 2024
2	Presented an oral paper titled "Can functional determinants be taken as a surrogate for post resection quality of life in post tuberculous sequelae patients" at the Annual European society of thoracic surgeons conference, Milan, Italy, along with two posters at the conference.	Dr. Gautam Kanishka Siddhartha, Senior Resident, Department of Thoracic Surgery	Italy	

9.2 Presentations/Chaired Sessions/Facilitated Sessions Within Country:

S. No.	Title of the Paper Presented/ Session Chaired or Organized	Name of the Presenter	Venue	Dates
1	Delivered a Lecture on "Role of Surgery" during NTEP training.	Dr. R K. Dewan		17 th May, 2023
2	Delivered Lecture on "Role of Surgery" during NTEP training.	Dr. R K. Dewan	Ambala	14 th July, 2023
3	Delivered Lecture on "Role of Surgery" during NTEP training.	Dr. R. K. Dewan		2nd August, 2023

S. No.	Title of the Paper Presented/ Session Chaired or Organized	Name of the Presenter	Venue	Dates
4	Delivered lecture on “Robotics in Thoracic surgery” in Pneumologica 2023.	Dr. R. K. Dewan		6 th August, 2023
5	Delivered lecture on “Banishing Tuberculosis around the World: Lessons from the Indian experience”, in Meta ECHO-2023, Global Conference in USA.	Dr. R. K. Dewan		18 th to 21 st September, 2023
6	Expert for national level ‘NITRD-CTD-NTF Difficult to treat TB Clinic’	Dr. Rupak Singla	-	17 th April, 2023
7	Delivered a lecture on “Management of DR-TB: regimen” on as a part of Center of Excellence activity.	Dr. Rupak Singla	-	10 th April, 2023
8	Delivered a lecture on “Management of DR-TB regimen” Medical learning Hub CME online.	Dr. Rupak Singla		15 th April, 2023
9	Expert for national level ‘NITRD-CTD-NTF Difficult to treat TB Clinic’.	Dr. Rupak Singla		20 th July, 2023
10	Presented a webinar on NTM infection and management.	Dr. Rupak Singla		5 th July, 2023
11	Delivered lectures on ‘Diffusion Capacity’ and on ‘Case series in lung function tests’ in Advanced PFT Workshop conducted by CREST.	Dr. Rupak Singla	Pune	23 rd July, 2023
12	Technical expert for discussion on Paediatric DR-TB guidelines.	Dr. Rupak Singla		17 th August, 2023
13	Presented a webinar on ‘Home nebulization’.	Dr. Rupak Singla		29 th August, 2023
14	Delivered lecture on “How to read normal X-ray chest and X-ray of TB and non-TB” in DTO training of trainers for District TB Officers.	Dr. Rupak Singla		12 th September, 2023
15	Participated as an Expert for national level ‘NITRD-CTD-NTF Difficult to treat TB Clinic’.	Dr. Rupak Singla		20 th September, 2023

S. No.	Title of the Paper Presented/ Session Chaired or Organized	Name of the Presenter	Venue	Dates
16	Participated as panellist in webinar "Diagnosis of TB".	Dr. Rupak Singla		22 nd September, 2023
17	Participated as panellist in a panel discussion on "MDR-TB".	Dr. Rupak Singla	Jaipur	17 th September, 2023
18	An external guest lecture by Dr. Smriti Arora, Principal, AIIMS Rishikesh, was organized by CNE cell on the topic, "Utilisation of patient care data in clinical research".	Dr. Rupak Singla		1 st September, 2023
19	Participated as faculty in MDR-TB workshop in NAPCON Delhi 2023 and delivered a lecture on 'Management of MDR-TB.	Dr. Rupak Singla		5 th October, 2023
20	Delivered a lecture on "Therapeutic Drug Monitoring" in NAPCON Delhi 2023.	Dr. Rupak Singla		6 th October, 2023
21	Delivered lecture on 'Management of MDT-TB & future directions" at PULMOCON.	Dr. Rupak Singla	Kerala	14 th October, 2023
22	Expert for 'Meet the mentor' session on TB in PULMOCON.	Dr. Rupak Singla	Kerala	13 th October, 2023
23	Expert for national level 'NITRD-CTD-NTF Difficult to treat TB Clinic'.	Dr. Rupak Singla		18 th October, 2023
24	Expert for national level 'NITRD-CTD-NTF Difficult to treat TB Clinic'.	Dr. Rupak Singla	Delhi	16 th and 22 nd November, 2023
25	Delivered lectures on "Management of ADR of DR-TB drugs- Part 1 and 2, BPAL regimen: overview" on organized by GHTM, Tambaram, Chennai.	Dr. Rupak Singla	Chennai	23 th November, 2023

S. No.	Title of the Paper Presented/ Session Chaired or Organized	Name of the Presenter	Venue	Dates
26	Delivered a lecture on "Management of DR-TB in 2023 and future directions" for Omnicuris, Global Digital Platform for Doctors (Supported by AIC-RMP NITI Aayog).	Dr. Rupak Singla		27 th November, 2023
27	NRL Biotechnologist, attended as facilitator from NITRD for Regional ToT for STS and STLS course at Guwahati.	Dr. Sanjay Gupta, Dr. Ashish Ranjan, Dr. Prashant, NRL, Dr. Raj Narayan		22 nd to 26 th May, 2023
28	Attended as an External Assessor with NHSRC, External NQAS assessment of Serai kela Kharsawan, Jharkhand.	Dr. Pravesh Yadav	Jharkhand.	25 th to 26 th August, 2023
29	Attended as an External Assessor, Kaya Kalp assessment of Lok Nayak Hospital.	Dr. Pravesh Yadav		4 th to 6 th October, 2023
30	Attended as an External Assessor, Kaya Kalp assessments of Delhi Government Hospitals.	Dr. Pravesh Yadav		14 th to 21 st October, 2023
31	Peer Assessment of AIIMS, Jodhpur under KayaKalp.	Dr. U. K. Khalid, Dr. Pravesh Yadav, and Dr. Ritu Singhal		January, 2024
32	Took session for the Hospital Managers training batch from NIHFWS, New Delhi.	Dr. Pravesh Yadav	New Delhi	20 th January, 2024
33	As a delegate attended "Pneumologica 2023", The First Pan Max Congress on Respiratory Medicine, Critical Care, Interventional Pulmonology & Infectious Diseases and delivered a lecture on "Tuberculosis Preventive Treatment - Rationale and the Indian Scenario".	Dr Rajnish Gupta		5 th August 2023

S. No.	Title of the Paper Presented/ Session Chaired or Organized	Name of the Presenter	Venue	Dates
34	Participated as a Panelist in the Panel Discussion in the Workshop on MDR TB conducted at New Delhi TB Centre as a part of DELHI NAPCON 2023.	Dr Rajnish Gupta		5 th October, 2023
35	Moderated as a Case Expert in the e-NEETI ECHO CLINIC presentation on Management of Obstructive Sleep Apnoea by the Nursing Officer, Mr Shaiby, at NITRD.	Dr Rajnish Gupta		27 th October, 2023
36	Facilitated and carried out a 1-month Sleep Lab Training on "Operation of Sleep Lab" for 5 trainees (one from Medanta Medicity, 2 ECG technicians from NITRD and 2 nursing officers from NITRD).	Dr Saroj Meena, and Mr. Shaiby	NITRD	1 st to 31 st March, 2024
37	Delivered a lecture on "Tuberculosis Preventive Treatment: Rationale and Indian Scenario" for Faculty of Medical Colleges of Haryana at NITRD, the Center of Excellence through ECHO platform.	Dr Rajnish Gupta	NITRD	28 th March 2024
38	Moderated Respinar on "Extrapulmonary Tuberculosis – Challenges and Approach" as a part of Indian Chest Society (ICS) Respinar Series.	Dr. J. K. Saini		4 th October, 2023
39	Delivered a talk on "Oxygen Therapy" at Pulmonary PG Update organized by King George Medical University, Lucknow and Indian Chest Society, UP Chapter.	Dr. J. K. Saini		10 th March 2024
40	Chaired a session on "Lung Transplant" at Pulmonary PG Update organized by King George Medical University, Lucknow and Indian Chest Society, UP Chapter.	Dr. J. K. Saini		10 th March 2024

S. No.	Title of the Paper Presented/ Session Chaired or Organized	Name of the Presenter	Venue	Dates
41	Presentation of Free Oral Paper in Delhi NAPCON 2023 - To determine the comparative frequency of polycythemia and anemia in COPD patients presenting in a tertiary care institute and to compare the clinical profile of the two groups.	Dr. Amit Sharma		October, 2023
42	Faculty from the Institute participated and chaired several sessions at National Training of Master Trainers, on Management of Extrapulmonary TB, organized by Department of Medicine, AIIMS, Delhi, & Central TB Division, MoHFW, GoI,			1 st to 3 rd and 6 th to 8 th November, 2023
43	Participated as faculty in National Microbiology Conference (IAMM) at KGMU Lucknow and chaired session on tuberculosis.	Dr. Ritu Singhal	Lucknow	24 th to 26 th November, 2023
44	Participated as one of the executive members of IAMM Delhi Chapter from with theme as "Clinical Microbiology in Amrit kaal".	Dr. Ritu Singhal		2 nd to 4 th November, 2023
45	Participated as faculty in NATCON Thrissur, topic "Whole genome Sequencing can be used as routine diagnosis under NTEP-Against"	Dr Ritu Singhal	Trishur	2 nd to 4 th February, 2024
46	Did external assessment of one Public Health Facility under NQAS Program at Madhya Pradesh.	Dr. Anita Rani Kansal		2 nd to 3 rd November, 2023
47	External assessment of UHWC Saleem Nagar, UHWC Kalander Community Hall, and HWC Puligilla Yadadri, Hyderabad, under NQAS was done from under NHSR, MoHFW.	Dr. Anita Rani Kansal		29 th to 31 th January, 2024

S. No.	Title of the Paper Presented/ Session Chaired or Organized	Name of the Presenter	Venue	Dates
48	Induction Training of 16 new recruits was done in the Institute.	Nursing Section	NITRD	3 rd January, 2024
49	Lecture by Ms. Roopa Rawat Singhvi, Nurse Consultant at WHO collaborating Centre at AIIMS, was organized on "Motivation & Initiatives in Clinical Care" for SNOs & CNE Cell members.	Nursing Section	NITRD	
50	e-NEETI Session No.-11 took place on "TB Meningitis", by Anjani Dobhal (Nursing Officer, AIIMS Rishikesh)	Nursing Section	NITRD	25 th January, 2024
51	Alcohol De-addiction health talk in collaboration with Alcoholics Anonymous Group at OPD first floor, & Ward5, NITRD.	Health Education Section	NITRD, New Delhi	25 th April 2023
52	NITRD COE capacity building session on "Counselling for TB Patients" & "Adherence to treatment" on iECHO	Health Education Section	NITRD, New Delhi	23 rd June 2023
53	NITRD ECHO-TB Clinic for Nurses, e-NEETI (Nurses' Efforts to Eliminate Tuberculosis in India).	Nursing Section	NITRD, New Delhi	17 th and 24 th August, 2023
54	e-NEETI Session 8 took place on "Multidrug resistant Tuberculosis", by Ms. Divya Sojan, Nursing Officer at AIIMS, New Delhi. The session was attended virtually by 148 Nurses and Doctors across India.	Nursing Section	NITRD, New Delhi	29 th September, 2023
55	An external guest lecture by Ex. Senior Nursing Officer, NITRD, on "Color Therapy".	Ms. Manju Rani Aggarwal	NITRD	30 th November, 2023
56	e-NEETI Session took place on "Basics of Airborne Infection Control in TB healthcare setting". The session was attended virtually by 158 Nurses, Doctors and other healthcare workers across India.	Dr. Anita Rani Kansal	NITRD	22 nd March, 2024

9.3 Attended crucial workshops:

S. No	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of attendee/ presenter	Venue	Dates (From - to)
1	Attended CME on Chest Surgery and Lung Transplantation – An update as Moderator organized by Medanta-Gurugram in association with Physicians Forum of India.	Dr. R. K. Dewan	New Delhi	5 th April, 2023
2	Attended “TESCON 2022”, the 6th Annual conference of Thoracic Endoscopy Society.	Dr. R. K. Dewan	Jalandhar, Punjab	7 – 9 th April 2023
3	Attended Regional webinar on TB and Nutrition organized by WHO South-East Asia Regional Office.	Dr. R. K. Dewan		11 th April, 2023
4	Attended ZTF-South1.	Dr. R. K. Dewan	Hyderabad	12-13 th April, 2023
5	Attended Clinico-pathologic conference as Clinical discussant for the case of chest wall swelling at AIIMS.	Dr. R. K. Dewan	New Delhi	25 th April, 2023
6	Attended Thoracic Surgery ECHO meeting (Virtual).	Dr. R. K. Dewan		27 th April, 2023
7	Attended meeting on the topic "Implementation of Pradhan Mantri TB Mukta Bharat Abhiyaan" organized by Department-related Parliamentary Standing Committee on Health and Family Welfare.	Dr. R. K. Dewan	New Delhi	28 th April, 2023
8	Attended MD-TB-CON:2023 conference organized by BPS Govt. Medical College for Women, Khanpur Kalan.	Dr. R. K. Dewan	Sonapat, Haryana	29 th April, 2023
9	Attended ZTF East Zone Meeting.	Dr. R. K. Dewan	Bhubaneswar, Odisha	18 th to 19 th May, 2023.
10	Attended ZTF (North East) meeting.	Dr. R. K. Dewan	Virtual mode	29 th to 30 th May, 2023
11	Attended a meeting on “Accelerating TB Elimination: Learnings from TB Prevalence Surveys” jointly organised by Central TB Division, MoHFW, New Delhi and ICMR – NIRT, Chennai.	Dr. R. K. Dewan	New Delhi	13 th June 2023

S. No	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of attendee/ presenter	Venue	Dates (From - to)
12	Attended virtual Zonal task force meeting (North Zone) Srinagar, J&K.	Dr. R. K. Dewan	New Delhi	19 th to 20 th June 2023
13	Attended virtual meeting on Support for Zoonotic TB project.	Dr. R.K. Dewan		3 rd July, 2023
14	Attended Meeting for finalizing the SoW and QCBS criteria for TB call center tendering at CTD.	Dr. R.K. Dewan		4 th July, 2023
15	Participated in 2-day meeting on South-South Collaboration on Research and Innovation in TB organized by WHO South-East Asia Regional Office.	Dr. R.K. Dewan		11 th to 12 th July, 2023
16	Attended 110th Session of e-Nischit.	Dr. R. K. Dewan		3 rd August, 2023
17	Attended Scientific Advisory Committee (SAC) meeting.	Dr. R.K. Dewan	VPCI (Virtual)	23 rd August 2023
18	Attended 3rd International Climate Summit, at Vigyan Bhawan.	Dr. R.K. Dewan	New Delhi	14 th and 15 th September, 2023
19	Attended Thoracic Pulmo interface Symposium as Faculty organized by NH group of Hospitals.	Dr. R.K. Dewan	Kolkata	14 th October, 2023
20	Participated in Difficult to Treat TB (Echo Clinic).	Dr. R.K. Dewan		18 th October, 2023
21	Attended e-NISCHIT HIV-TB Session 103.	Dr. R.K. Dewan		19 th October, 2023
22	Attended 7th Dr. V.K. Vijayan Oration as Guest of Honour.	Dr. R.K. Dewan	VPCI, Delhi	26 th October, 2023
23	Attended Pericardial TB Session at EPTB training, AIIMS.	Dr. R.K. Dewan		3 rd and 8 th November, 2023
24	Attended e-Neeti meeting.	Dr. R.K. Dewan		24 th November, 2023
25	Attended Echo (Thoracic Surgery) meeting.	Dr. R.K. Dewan		28 th November, 2023

S. No	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of attendee/ presenter	Venue	Dates (From - to)
26	Attended Meeting of Official Language Implementation Committee (South Delhi-3) at Indian Institute of Mass Communication, Aruna Asaf Ali Marg, New Delhi.	Dr. R.K. Dewan		29 th November, 2023
27	Attended NBEMS Cardio Vascular and Thoracic Surgery WEBINAR: Approach to a patient with chest traumas "Presenter".	Dr. R.K. Dewan		3 rd January, 2024
28	Attended CME on Recent Updates in Cardiac Surgery as Moderator organized by Max Smart Super Specialty Hospital, Saket in association with Physician forum of India (Regd.).	Dr. R.K. Dewan	New Delhi	17 th January, 2024
29	Attended NBEMS Cardio Vascular and Thoracic Surgery WEBINAR: Approach to a patient with chest trauma as "Panelist".	Dr. R.K. Dewan		24 th January, 2024
30	Attended and delivered lectures on "Management of DR-TB in India", "BPaL regimen: overview", and "Manage TB India App" at UPTBCCON.	Dr. Rupak Singla	Allahabad.	4 th to 5 th November, 2023
31	Attended National Expert for 'NITRD-CTD-NTF Difficult to treat TB Clinic', for Telangana state.	Dr. Rupak Singla		24 th January 2024
32	Attended a meeting as technical expert of "Lung cancer guidelines development group".	Dr. Rupak Singla		31 st January 2024
33	Attended DMSC committee meeting as technical member for shorter Moxifloxacin study for DS-TB.	Dr. Rupak Singla		5 th December 2023
34	Attended as National consultant for difficult to treat TB clinic of NITRD.	Dr. Rupak Singla		6 th December 2023
35	Attended as National expert of difficult to treat TB clinic of UP.	Dr. Rupak Singla		26 th December 2023

S. No	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of attendee/ presenter	Venue	Dates (From - to)
36	National Expert for 'NITRD-CTD-NTF Difficult to treat TB Clinic', for Telangana state.	Dr. Rupak Singla		24 th January, 2024
37	Attended a meeting as technical expert of "Lung cancer guidelines development group'.	Dr. Rupak Singla		31 st January, 2024
38	Participated and chaired several sessions at National Training of Master Trainers, on Management of Extrapulmonary TB, organized by Department of Medicine, AIIMS, Delhi, & Central TB Division, MoHFW, GoI,	Faculties from NITRD	Delhi	1 st to 3 rd November, and 6 th to 8 th November, 2023
39	Attended as facilitator from NITRD for Regional ToT for STS and STLS course.	Dr. Sanjay Gupta, CMO (SAG), Dr. Ashish Ranjan, specialist Gr.II (TB&RD), Dr. Prashant, NRL Microbiologist, Dr. Raj Narayan, NRL Biotechnologist,	Guwahati	22 nd to 26 th May, 2023
40	Attend National Training of Trainers on 'Post Treatment Follow up (PTFU) of TB patients'.	Dr. Sanjay Gupta, CMO (SAG), Administration and Dr. Neeta Singla, Research Officer (SAG)	Delhi	17 th May, 2023
41	Attended as facilitators Regional TOT for STS.	Dr. Sanjay Gupta, and Dr. Anil Kumar Jain	Bhopal	26 th to 29 th June, 2023

S. No	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of attendee/ presenter	Venue	Dates (From - to)
42	Attended five day workshop on "Program Monitoring in NTEP for State Program Managers" organized by CTD, MoHFW.	Dr. Sanjay Gupta, CMO (SAG)	NTI, Bengaluru.	17 th -21 st April, 2023
43	Delivered a lecture on "Airborne infection control in tuberculosis" as a part of NITRD, Centre of Excellence mentoring session, on ECHO platform.	Dr. J. K. Saini	Virtual	25 th May 2023
44	Moderated a session on "Bronchiectasis" for Nursing Officers on ECHO platform.	Dr. J. K. Saini	Virtual	26 th May 2023
45	Attended 14 th National Lung Cancer Conference of Indian Society for Study of lung Cancer (ISSLC), NALCCON 2023, at Pt. BDS Post Graduate Institute of Medical Sciences (PGIMS), Rohtak and Chaired session on Newer Diagnostic Techniques in Lung Cancer.	Dr. J. K. Saini	Rohtak, Haryana	23 rd and 24 th September, 2023
46	Attended as facilitators Regional TOT for STLS course.	Dr. Prashant, NRL Microbiologist	Hyderabad	19 th to 23 rd June, 2023
47	Attended an online " WORKSHOP ON IMAGE MANAGEMENT FOR GREATER SUCCESS" organized by Image Management Professionals' Association.	Sh. Rajan Sood	Mumbai	10 th June 2023
48	Attended two days "Certificate course on HOSPITAL MANAGEMENT" conducted by MSME, Govt. of India.	Sh. Rajan Sood		24 th and 25 th June 2023
49	Attended two days sessions of Certificate course on "HOSPITAL MANAGEMENT" conducted by MSME, Govt. Of India.	Sh. Rajan Sood		1 st and 2 nd July, 2023
50	The "Coordinating Committee of Scientific Activities meeting in Lille, France", funded by "The Union'.	Dr. Ajoy Kumar Verma		5 th to 7 th June, 2023
51	International workshop on "Advanced TB Diagnostics" at Mc Gill Summer Institute in Global Health at McGill University, Montreal, Canada.	Dr. Ajoy Kumar Verma		29 th May 2023 to 2 nd June 2023

S. No	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of attendee/ presenter	Venue	Dates (From - to)
52	One day workshop on “reservoir and transmission dynamics of escalating infectious diseases” at the ITC Maurya, Diplomatic enclave, Sardar Patel Marg, New Delhi.	Dr. Ajoy Kumar Verma		12 th June, 2023
53	Attended training of trainers for STLS at Pune as observer /Co- facilitator.	Dr. Ajoy Kumar Verma		18 th October, 2023 to 21 st October, 2023
54	Attended the 78th National Conference of TB and Chest Diseases at Thrissur, Kerla.	Dr. Ajoy Kumar Verma	Kerala	2 nd February 2024 to 4 th February 2024
55	Attended one day Training of Sanitation Staff & Ward Boy on “Use of Macerator system, BMW Management & Infection Control Practices”.	Dr. Pravesh Yadav		12 th June, 2023
56	Attended as an External Assessor with NHSRC, External NQAS assessment of Seraikela Kharsawan, Jharkhand.	Dr. Pravesh Yadav	Jharkhand	25 th to 26 th August, 2023
57	Attended Kayakalp assessment of Shahdol dispensary.	Dr. Pravesh Yadav	MP	25 th to 27 th September, 2023
58	Attended as an External Assessor, State Level NQAS assessment of DGHS sector-19 Dwarka Delhi.	Dr. Pravesh Yadav	Delhi	1 st to 2 nd December, 2023
59	Attended as an External Assessor, external NQAS assessment of UPHC Swej Farm, Jaipur.	Dr. Pravesh Yadav	Rajasthan	4 th to 5 th December, 2023
60	Attended as an External Assessor, State Level NQAS assessment including LaQshya and MusQan of Satyawadi Raja Harish Chandra Hospital, Narela.	Dr. Pravesh Yadav	New Delhi	20 th to 22 nd December, 2023
61	Attended as the Chairman of the Kaya Kalp committee, coordinated the Peer assessment activity of the hospital performed by the AIIMS, New Delhi team.	Dr. Pravesh Yadav	New Delhi	13 th January 2024

S. No	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of attendee/ presenter	Venue	Dates (From - to)
62	Attended as the Nodal officer, took sessions for the Hospital Managers training batch from NIHFW, New Delhi and hospital round was also given for the understanding of the various hospital services.	Dr. Pravesh Yadav	New Delhi	20 th January 2024
63	Attended as the member of the selection committee, interview was conducted for the selection of SR Thoracic Surgery post.	Dr. Pravesh Yadav	New Delhi	25 th January 2024
64	Attended as the chairman of Flag Hoisting Committee, necessary arrangements were done for the Republic day celebration.	Dr. Pravesh Yadav	New Delhi	26 th January 2024
65	Attended Annual Training program of NQAS (online mode), organized by NHSRC, Govt. of India New Delhi.	Dr. Pravesh Yadav	New Delhi	9 th February 2024
66	A Kayakalp Training was conducted on on hand hygiene, needle stick injury, 5S and biomedical waste management.	Dr. Pravesh Yadav	NITRD, New Delhi	23 rd February 2024
67	Attended training on “Tendering process and contract management: insight to public procurement”.	Dr. Devesh Chauhan	Jaipur	25 th to 29 th September, 2023
68	Attended as facilitator “Regional ToT on Course for STS” at STDC UP,	Dr. Ashish Ranjan	Agra	7 th to 10 th August, 2023
69	External assessment of Health & Wellness Centre, Kakwad, District Valsad, Surat, Gujrat under NQAS, MoHFW, Delhi	Dr. Anita Rani Kansal	Gujrat	28 th August, 2023
70	An expert lecture was taken on the topic “Human Resource planning & Management by Nursing Leaders”.	Dr. Anita Rani Kansal	Online	19 th September, 2023
71	External assessment of one Public Health Facility under NQAS Program at Madhya Pradesh, MoHFW, Delhi	Dr. Anita Rani Kansal		2 nd to 3 rd November, 2023
72	External Kayakalp assessment of PUHC Mehrauli under Delhi State Health Mission.	Dr. Anita Rani Kansal		4 th December, 2023

S. No	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of attendee/ presenter	Venue	Dates (From - to)
73	External Kayakalp assessment of DGD PVR Saket, under Delhi State Health Mission.	Dr. Anita Rani Kansal		5 th December, 2023
74	Done a State Level Assessment under NQAS inclusive of Laqshay and Musqan of Babu Jagjivan Ram Memorial Hospital of Delhi.	Dr. Anita Rani Kansal		11 th to 13 th December, 2023
75	Attended the State Level NQAS Assessment of MCW, Hauz Khas, New Delhi.	Dr. Anita Rani Kansal		15 th to 16 th December, 2023
76	External assessment of UHWC Saleem Nagar, Hyderabad under NQAS, MoHFW, Delhi	Dr. Anita Rani Kansal		29 th January, 2024
77	External assessment of UHWC Kalander Community Hall, Hyderabad under NQAS, MoHFW, Delhi	Dr. Anita Rani Kansal		30 th January, 2024
78	External assessment of HWC Puligilla Yadadri, Hyderabad under NQAS, MoHFW, Delhi	Dr. Anita Rani Kansal		31 st January, 2024
79	Lecture on Conflict Management in Clinical Realm in Workshop on Mastering Workplace Excellence: Strategies for success at AIIMS, New Delhi for Senior Nursing Personnels at AIIMS.	Dr. Anita Rani Kansal		5 th February, 2024
80	Training of nurses across India on Airborne Infection Control via e-NEETI on ECHO	Dr. Anita Rani Kansal		22 nd March, 2024
81	Attended as an external assessment of UHWC Saleem Nagar, Hyderabad under NQAS done under NHR, MoHFW.	Dr. Anita Rani Kansal		29 th January 2024
82	Attended as an external assessment of UHWC Kalander Community Hall, Hyderabad under NQAS done under NHR, MoHFW.	Dr. Anita Rani Kansal		30 th January 2024
83	Attended as an external assessment of HWC Puligilla Yadadri, Hyderabad under NQAS done under NHR, MoHFW.	Dr. Anita Rani Kansal		31 st January 2024

S. No	Names of Conferences/ Workshops/ Seminars/ CMEs/ Trainings/Public Lecture Organized	Name of attendee/ presenter	Venue	Dates (From - to)
84	An external class on "Nurse Led Models of Care in India" was taken by Dr. Gopichandran L, Associate Professor and Consultant, Nursing Department, NIMHANS, Bengaluru.	30 participants (ANS, DNS, SNOs, CNE Members)		23 rd February 2024
85	Attended webinar on Biostatistics organized by the Biostatistics Consortium,	Ms. Ankita Dey	New Delhi	29 th June, 2023
86	Attended Webinar on Statistical Disease Modelling and Predictions organized by the ICMR-National Institute of Medical Statistics, New Delhi.	Ms. Ankita Dey	New Delhi	30 th June, 2023
87	Attended Workshop on Mission Karmayogi for the MDOs of organisations under the Ministry of Health and Family Welfare on at NIHFW, New Delhi	Mr. Ajay Kumar	New Delhi	29 th February 2024
88	Attended two day workshop on "Improved Financial Management in Autonomous Bodies(ABs) under MoHFW" organized by MMoHFW, IFD, Nirman Bhawan.	Mrs. Rajni Awasthi, Accounts Officer	NIHFW, New Delhi	13 th April, 2023

List of Committees (2023 – 2024)

1. List of Sections and Their Incharges

Section Name	Incharges Nominated
OPD & Transport Section and Ambulance	Dr. Rajesh Kumar
Medical Store & Dispensary	Dr. Ananya Prabhu
Procurement Cell	Dr. Devesh Chauhan
GeM Buyer for GeM purchases for Estate Committee / Maintenance Department	Dr. Ashish Ranjan
Maintenance Section & Horticulture	Sh. Rahul Joshi
General Store	Dr. K.K. Mathuria
Computer Section & Telephone Exchange	Dr. Sanjay Gupta and Sh. Ajay Kumar (SA)
Main Kitchen	Dr. Upasna Agarwal
Legal Cell	Sh. Rajan Sood
Training Hostel, Gym & Doctors Hostel (Warden)	Dr. Ashish Ranjan
ART Centre	Dr. Upasna Agarwal
Sleep Laboratory	Dr. Rajnish Gupta
Bronchoscopy Room	Dr. J. K. Saini
Record Room (MRD)	Dr. Saroj Kumari Meena
Academic Cell	Dr. Prabhpreet Sethi
Yoga & Physiotherapy Section	Dr. Rajesh Kumar
Library	Sh. Sachin Sharma
Security	Dr. Ashish Ranjan
Manifold Room	Dr. Prakash Sharma
Laundry Section & Auditorium	Dr. Pravesh Yadav
Incharge Cable Services	Sh. Vijay Bhatt
Havaldar Office	Mrs. Rajni Awasthi

2. List of Various Committees

LOWER PURCHASE COMMITTEE (For Purchase Upto Rs. 5 Lacs)

Dr. Saroj Kumari Meena	Chairperson
Dr. Ananya Prabhu	Member

Dr. Ashish Ranjan	Member
Dr. Ankita Dey	Member
Smt. Manjari R. B. Prakash	Member
Shri Vijay Khara	Member
Shri Kuldeep Kumar Upadhaya	Member
Incharge Procurement Cell	Member-Convener

HIGHER PURCHASE COMMITTEE

Dr. Upasna Agarwal	Chairperson
Dr. Amit Sharma	Member
Dr. Devika Tayal	Member
Dr. Shalini Mullick	Member
Dr. Rajesh Kumar	Member
Smt. Rajni Awasthi	Member
Sh. Vijay Bhatt	Member
Incharge Procurement Cell	Member-Convener
Representative of IFD, MoHFW	Member (for Purchases of more than 15 lakh)

Technical Evaluation Committee

Dr. Kapil Kumar Mathuria	Chairperson
Dr. B. Rama Phanindra Kumar	Member
Sh. Ajay Kumar (SA)	Member
Sh. K. K. Upadhyay	Member
Representative of medical store for medical store items only	Member
Representative of user department (if required)	Member

Tender Opening Committee & Quotation Opening Committee (For Estate, Hospital & Others)

Sh. Vijay Bhatt	Chairperson
Sh. Vivek	Member
A nominee of General Store	Member
A nominee of Account Section	Member

Inspection Committee (Medical Store & General Store)

Dr. Puneet Arora	Chairperson
Dr. Anita Yadav	Member
Dr. B. Rama Phanindra Kumar	Member
Smt. Manjari R.B. Prakash	Member
A nominee of user department	Member

Estate Committee

Dr. Alok Yadav	Chairperson
Dr. Rajesh Kumar	Member
Sh. Ajay Kumar, System Analyst	Member
Sh. Vijay Khera	Member
Sh. Rahul Joshi, AE (Civil)	Member-Convener
Sh. Vivek, JE (Electrical)	Member
Smt. Manjari R.B. Prakash	Member

Condemnation & Disposal Committee

Dr. J. K. Saini	Chairperson
Dr. Ajoy Kumar Verma	Member
Smt. Rajshree B. G.	Member-Convener
Dr. Sunil Kumar Gupta	Member
Shri Mahinder Tiwari	Member

Diet Committee

Dr. Amit Sharma	Chairperson
Dr. Paras Singh	Member
Mrs. Lata R. David	Member
Sh. Vijay Khera	Member
Incharge Kitchen	Member-Convener
Ms. Samyukta Gaur	Member

Hospital Infection Control Committee

HOD (Microbiology)	Chairperson
HOD (Anesthesia)	Member
HOD (Respiratory Critical Care)	Member
HOD (TB&RD)	Member
Dr. J. K. Saini	Member
Dr. B. Rama Phanindra Kumar	Member
Assistant Medical Superintendent	Member-Convener
Nursing Superintendent	Member
Assistant Engineer (Civil)	Member
Ms. Priyanka, ICN	Member

Waste Management Committee

Dr. Pravesh Yadav	Chairperson
Dr. Paras Singh	Member
Mrs. Rajshree Bhargao, DNS	Member
Mrs. Veera Devi, Nodal Officer (Waste Management)	Member-Convener
Ms. Priyanka, Nursing Officer, Infection Control	Member
Sh. Rajender Singh, Havaladar	Member

Transport Repair Committee

Dr. Kapil Kumar Mathuria	Chairman
I/c Transport	Member-Convener
Sh. Ajay Kumar (SA)	Member
Sh. K. K. Upadhaya	Member
Shri Mahinder Tiwari	Member

Equipment Repair Committee

Dr. Prakash Sharma	Chairperson
Dr. Shalini Mullick	Member
Dr. Anita Yadav	Member
Dr. Ananya Prabhu	Member
Shri Mahinder Tiwari	Member
Nominee of user department	Member-Convener

Disaster Management Committee

Dr. Vikram Vohra	Chairperson
Dr. Anita Rani Kansal	Member
Dr. Ritu Singhal	Member
Dr. Ashish Ranjan	Member
Shri Ajay Kumar (SA)	Member
Shri Rahul Joshi	Member
Shri Vivek	Member

Library Committee

Dr. Amit Sharma	Chairperson
Dr. Shalini Mullick	Member
Dr. Ananya Prabhu	Member
Dr. Ankita Dey	Member
Shri Mahinder Tiwari	Member
Shri Sachin Sharma	Member-Convener
Shri Vedant Kumar Singh	Member

Annual Report Committee

Dr. Devika Tayal	Chairperson
Dr. Saroj Kumari Meena	Member
Dr. Devika Tayal	Member
Ms. Ankita Dey	Member
Sh. Ajay Kumar	Member
Mrs. Sangeeta Pal	Member
Mr. Bhasker Bose	Member
Sh. Kanwar Singh	Member

Research Committee

Director, NITRD	Chairperson
HOD (TB&RD)	Member
HOD (Epidemiology & Public Health)	Member
HOD (Microbiology)	Member
HOD (Internal Medicine)	Member
HOD (Respiratory Critical Care)	Member
Dr. Lokender Kumar	Member
I/c Academic Cell	Member
Dr. Neeta Singla	Member

Dr. Ritu Singhal	Member
Dr. Devika Tayal	Member-Convener
Dr. (Mrs.) Ankita Dey	Member

Ethical Committee

Dr. K. K. Chopra, Director, NDT B Centre	Chairman
Dr. Upasna Agarwal, NITRD	Member-Convener
Dr. Rajnish Gupta, NITRD	Member
Dr. Swati Subodh, Director (Health-care Innovation), 1M1B Foundation, Delhi	Member
Dr. Saroj Kumari Meena, NITRD	Member
Dr. Mohit Joshi, Addl. Professor, Department of Surgery, AIIMS, New Delhi	Member
Dr. Prabhpreet Sethi, NITRD	Member
Ms. Santosh Srivastava, Advocate	Member
Sh. Akarsh Garg, Advocate	Member
Ms. Gayatri Subramaniam, Director, Association for women in Business	Member
Dr. Kamlesh Garg, Associate Professor, Pharmacology Deptt. Safdarjung Hospital	Member
Dr. Rakhi Saxena, Associate Professor, Department of Computer Science, Deshbandhu College, University of Delhi	Member

Post Graduate Ethics Committee

Dr. K. K. Chopra, Director, NDTB Centre	Chairman
HOD (TB&RD)	Member
HOD (Microbiology)	Member
Dr. Prabh Preet Sethi	Member-Convener
Dr. Alok Yadav	Member
Ms. Santosh Srivastava, Advocate	Member

Canteen Committee

Dr. Shalini Mullick	Chairperson
Dr. Paras Singh	Member

Dr. Ankita Dey	Member
Sh. N. Singh	Member
Mrs. Priyanka Sharma	Member
Sh. Samyukta Gaur	Member

Internal Complaints Committee for Complaints of Sexual Harassment of Women

Dr. Upasna Agarwal	Chairperson
Dr. K. K. Mathuria	Member
Dr. Prabhpreet Sethi	Member
Dr. Ananya Prabhu	Member
Dr. Anita Rani Kansal	Member
Dr. Saroj Kumari Meena	Member
Mrs. Vandana Bhandari Gugnani, Advocate, Supreme Court	Member

Official Language Implementation Committee

Director, NITRD	Chairperson
Dr. Puneet Arora	Vice-Chairperson
Dr. Sanjay Gupta	Member
Dr. Devesh Chauhan	Member
Dr. Pravesh Yadav	Member
Dr. Anita Rani Kansal	Member
Ms. Priyanka Sharma	Member
Mr. N. Singh	Member
Mrs. Rajni Awasthi	Member
Mr. Vijay Bhatt	Member
Mr. Vijay Khera	Member
Mr. Sanjeev Kumar Sukheja, O.S.	Member
Sh. Suraj Prakash	Member
Shri Sachin Sharma	Member
Sh. Kanwar Singh, JHT	Member-Convener

Public/Employees Grievance Committee

Dr. Devika Tayal	Chairperson
Dr. Ananya Prabhu	Member
Dr. Rajesh Kumar	Member
Ms. Sangeeta Pal	Member
Sh. Sanjeev Kumar Sukheja, O.S.	Member

Student Grievance Redressal Committee

Dr. Rajnish Gupta	Chairperson
Dr. J.K. Saini	Member
Dr. Prabhpreet Sethi	Member
Sh. Rahul Joshi	Member
Sh. Sanjeev Kumar Sukheja, O.S.	Member
Warden	Member

Employees Welfare Committee

Director, NITRD	Chairperson
Dr. Sanjay Gupta	Member
Dr. Upasna Agarwal	Member
Dr. Pravesh Yadav	Member
Dr. Anita Rani Kansal	Member
Smt. Rajshree B. G.	Member
Shri Vijay Bhatt	Member
Smt. Rajni Awasthi	Member
Smt. Simron Samuel, SNO	Member
Shri Bhaskar Bose, DEO	Member
Shri Rajesh Belwal, UDC	Member
Shri. S. P. Tyagi, Wardboy	Member
Shri Rajender Singh, Havaladar	Member
Shri Karambir, Safai Karamchari	Member

Record Management Committee

Dr. Saroj Kumari Meena	Chairperson
Dr. Paras Singh	Member
Ms. Lata R. David	Member
Sh. Ajay Kumar, S.A.	Member
Shri Sanjeev Kumar Sukheja, O.S.	Member

Space Allotment Committee

Dr. Upasna Agarwal	Chairperson
Dr. Rajesh Kumar	Member
Dr. B. Rama Phanindra Kumar	Member
Dr. Vijay Bhatt	Member

House Allotment Committee

Dr. Sanjay Gupta	Chairperson
Dr. Ajoy Kumar Verma	Member
Dr. Pravesh Yadav	Member
Shri Vijay Bhatt	Member-Convener
Shri Vijay Khara	Member

Medical Board

Dr. Upasana Agarwal	Chairperson
Dr. Anita Yadav	Member
Dr. Rajesh Kumar	Member
Dr. Devika Tayal	Member
Dr. Ananya Prabhu	Member

Medical Reimbursement Board

Dr. Prabhpreet Sethi	Chairperson
Dr. Puneet Arora	Member
Dr. Ananya Prabhu	Member
Shri Vijay Khara	Member
Shri Sanjeev Kumar Sukheja, O.S.	Member

PG Committee

Director, NITRD	Chairperson
HOD (TB&RD)	Member
HOD (Microbiology)	Member
HOD (Thoracic Surgery)	Member
HOD (Respiratory Critical Care)	Member
Dr. Upasana Agarwal	Member
Dr. Prabhpreet Sethi	Member

Editorial Board For News Letter, NITRD

Dr. Shalini Mullick	Chairperson, Editor-in-Chief
Dr. Ritu Singhal	Member, Editor
Dr. B. Rama Phanindra Kumar	Member
Dr. (Mrs.) Ankita Dey	Member
Ms. Priyanka Singh	Member
Ms. Gayatri Anupam	Member
Ms. Aarti, Photographer	Member

Drug Resistance Tuberculosis Committee (DR-TB)

Director, NITRD	Chairperson
HOD (TB&RD)	Vice Chairperson
HOD (Microbiology)	Member
HOD (Epidemiology & Public Health)	Member
HOD (Internal Medicine)	Member
Dr. Rupak Singla	Member
Dr. Vikram Vohra	Member
Dr. Neeta Singla	Convener & Nodal Officer
Dr. Lokender Kumar	Member
Dr. Prabhpreet Sethi	Member
Dr. Alok Yadav	Member
Dr. Saroj Kumari Meena	Member
Dr. B. Rama Phanindra Kumar	Member
SMO, DRTB Centre	Member

Academic Cell

Dr. Prabhpreet Sethi	Chief Coordinator
Dr. Saroj Kumari Meena	Member
Dr. Ananya Prabhu	Member

Media Cell

Dr. Pravesh Yadav	Chairperson
Dr. Priyanka Sharma	Member
Sh. Ajay Kumar	Member
Sh. Sanjeev Kumar Sukheja, O.S.	Member
Ms. Priyanka, Nodal Officer	Member

Other Activities of the Institute at a Glance



STOP HIV Conference 13-14 January 2024



TBCON 17-18 March 2024



International Nurses' Day 2023



International Yoga Day 2023



International Nurses' Day 2023



World No Tobacco Day 2023



Inspection meeting of The Committee of Parliament on Official Language 2023



Hindi Pakhwada 14 - 29 September 2023



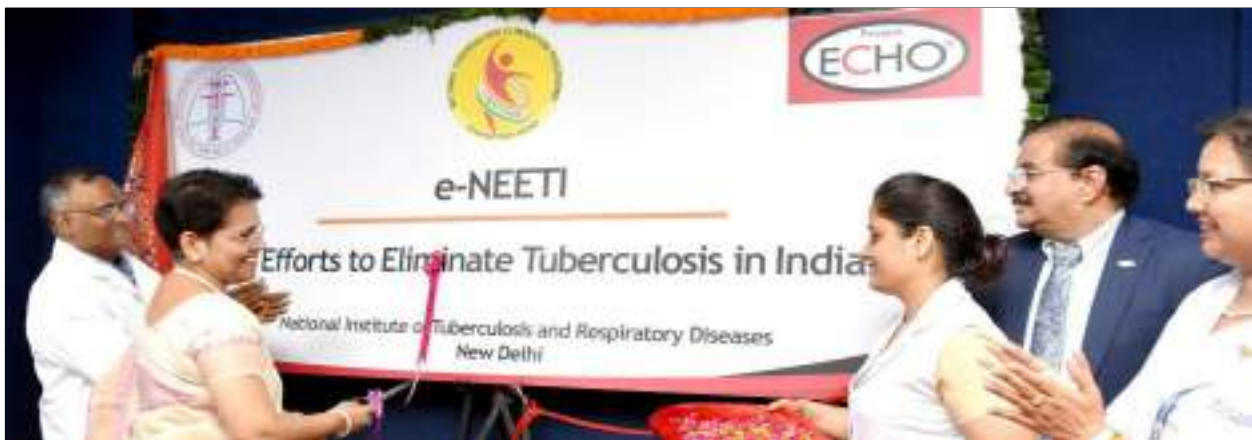
Hindi Typing Training & Workshop 24 July 2023



Department Related Parliamentary Standing Committee (DRPSC) on Health and Family Welfare chaired by Shri Bhubaneswar Kalita, MP (Rajya Sabha) visited NITRD on the 09th May, 2023 as part of examination of the subject Implementation of Pradhan Mantri TB Mukht Bharat Abhiyan (PMTBMBA)



Swachh Bharat Abhiyaan 2023



Inauguration of e-NEETI at NITRD



Dedication of the new Robotic Surgery Unit, NITRD by the Honourable Health Minister, GoI,



NTEP Training 2023



Organ Donation month celebration 2023



e-NISCHIT Session



Inauguration of the Renovated Administrative Block of NITRD

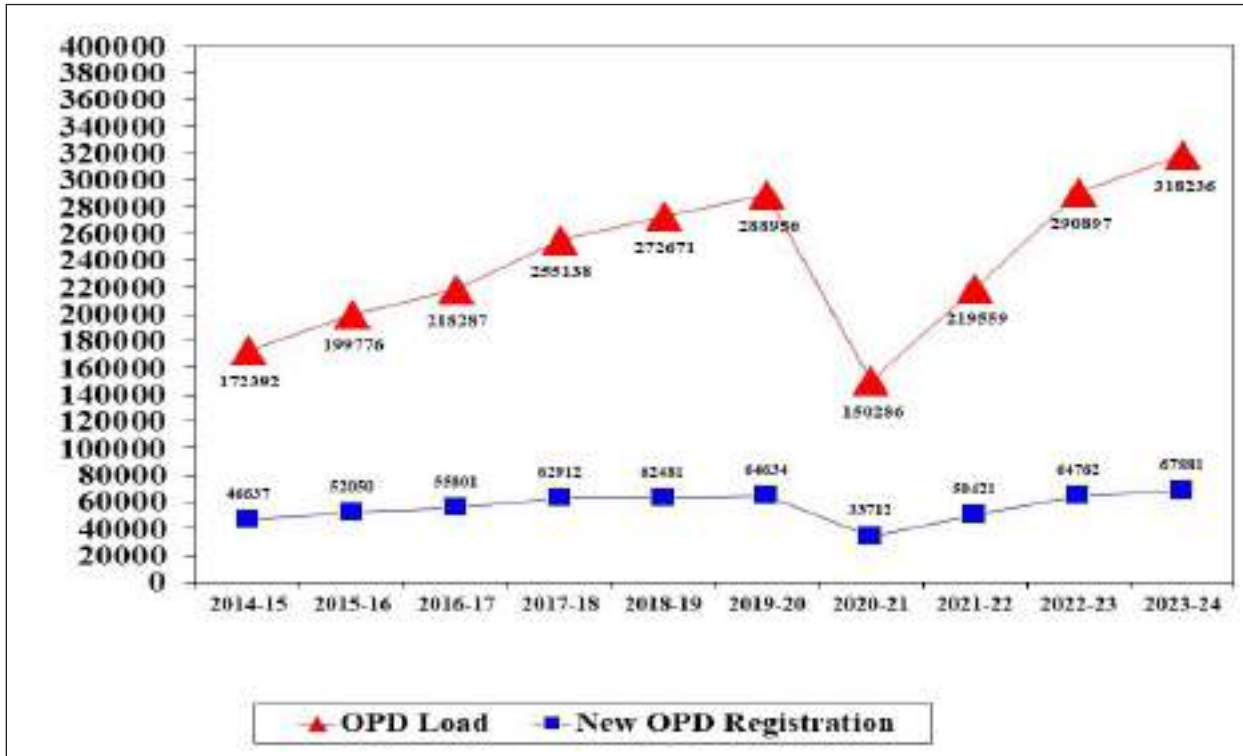


Seminar on Biostatistics

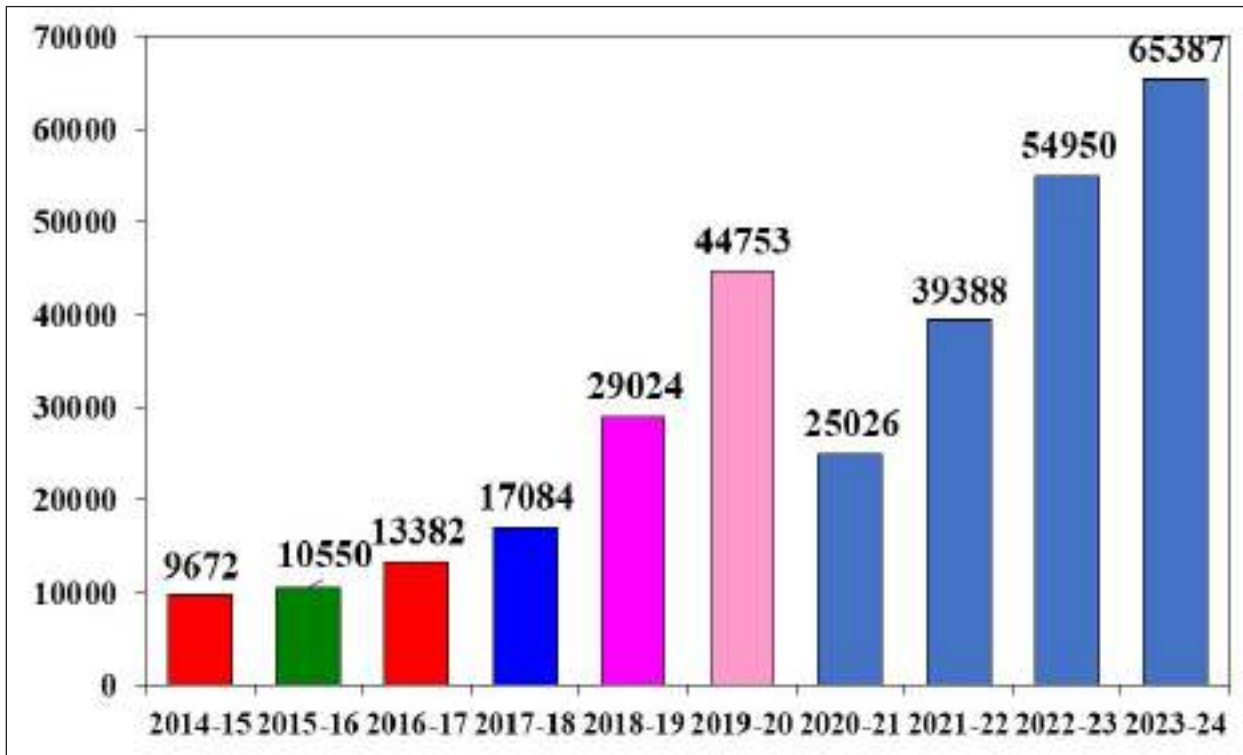
TRENDS

2014-24

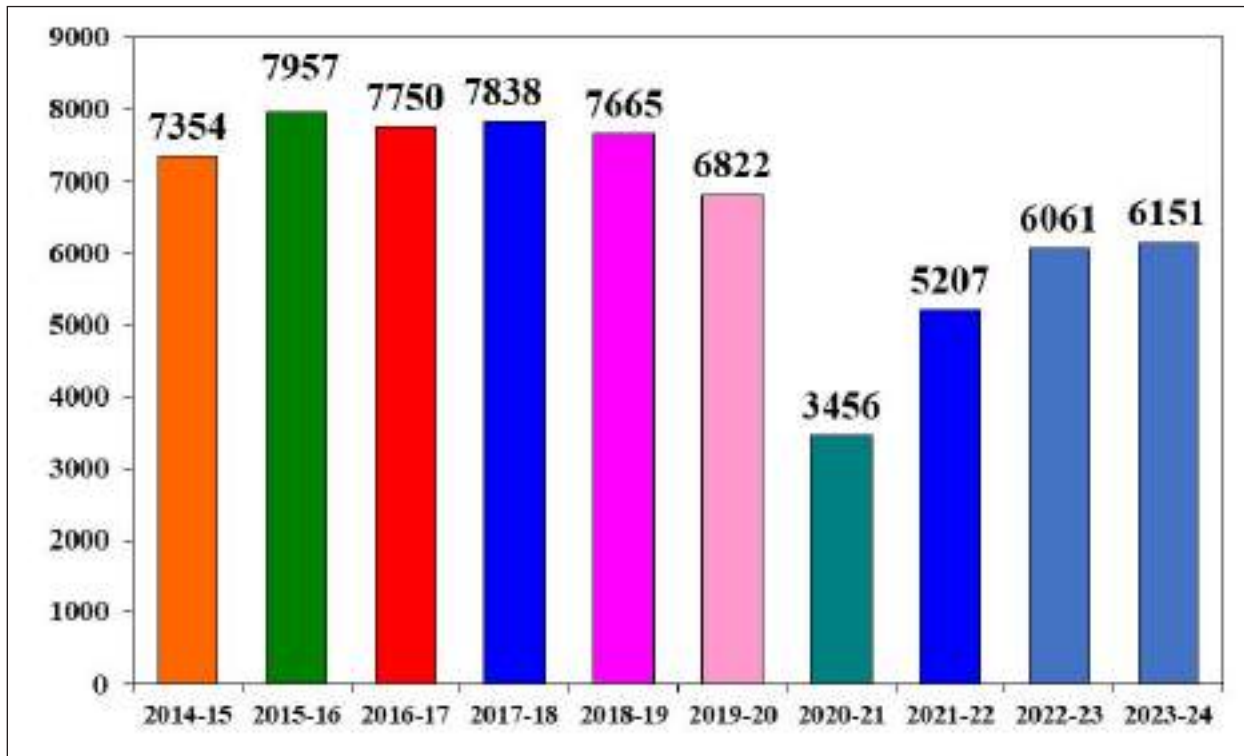
Total OPD Patients in NITRD



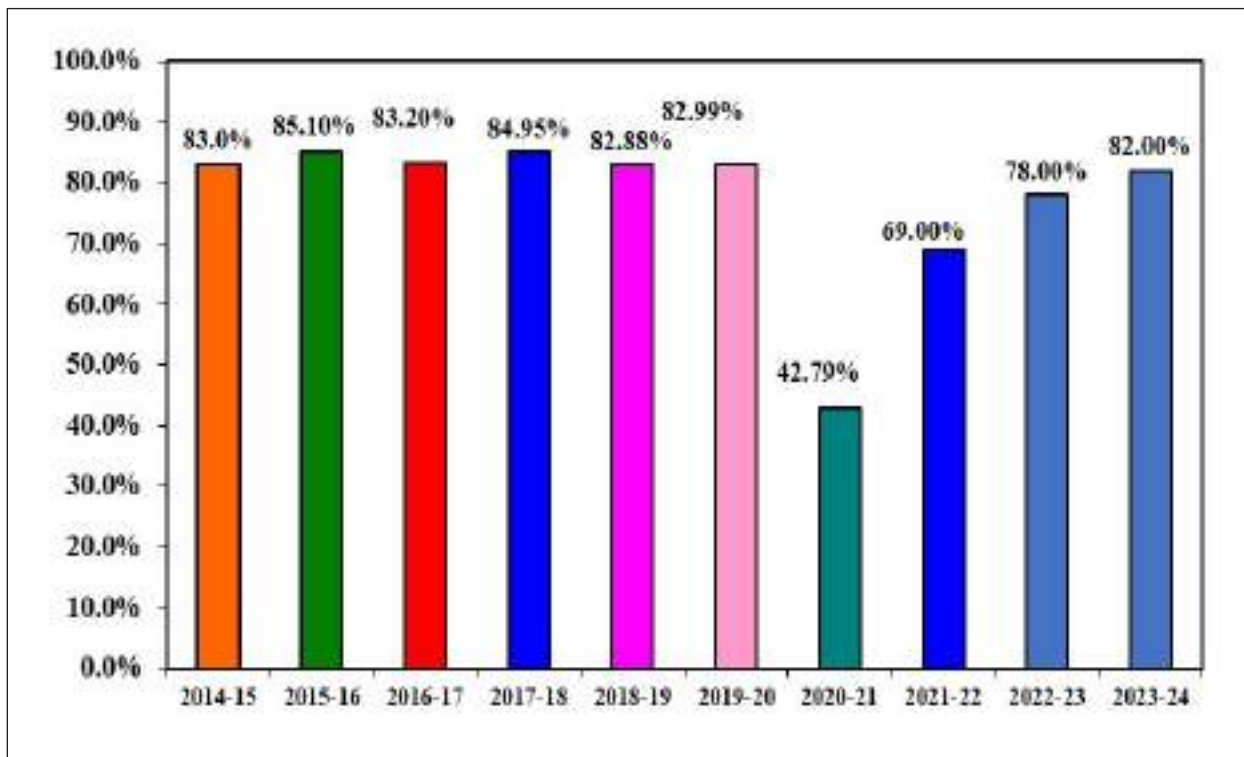
Emergency Ward Total Patients



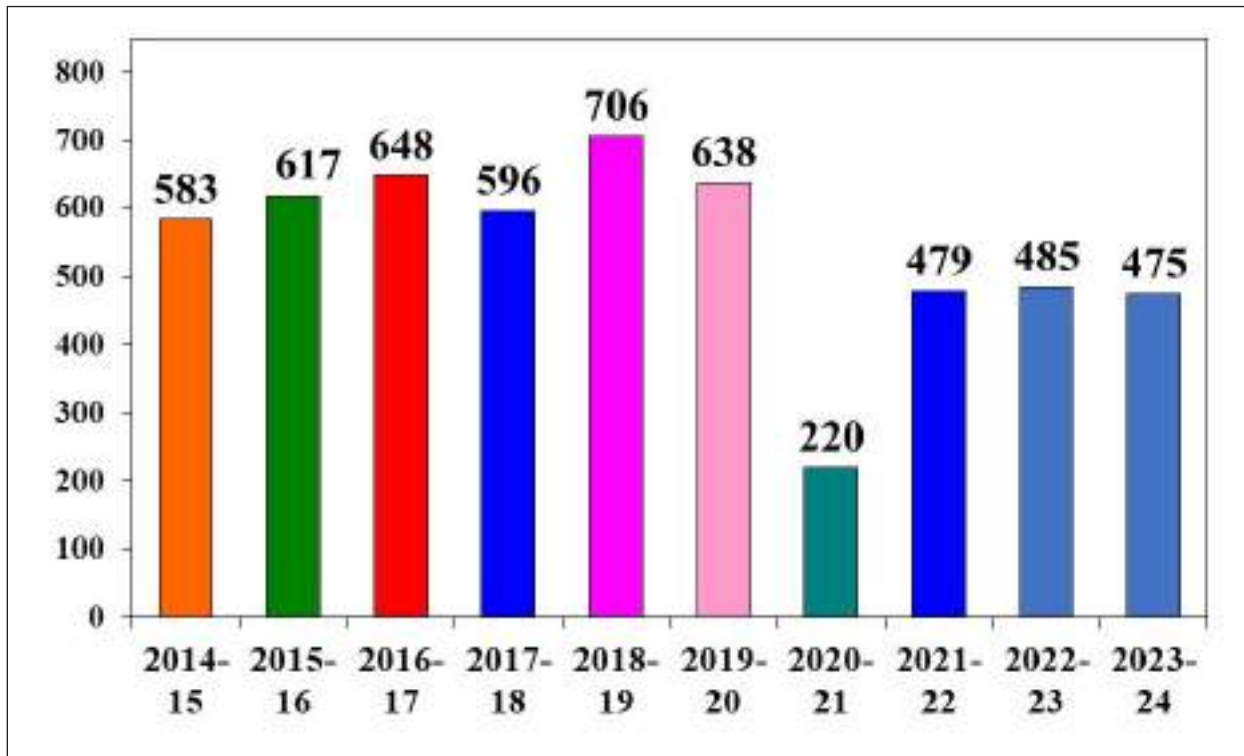
Hospital Admissions



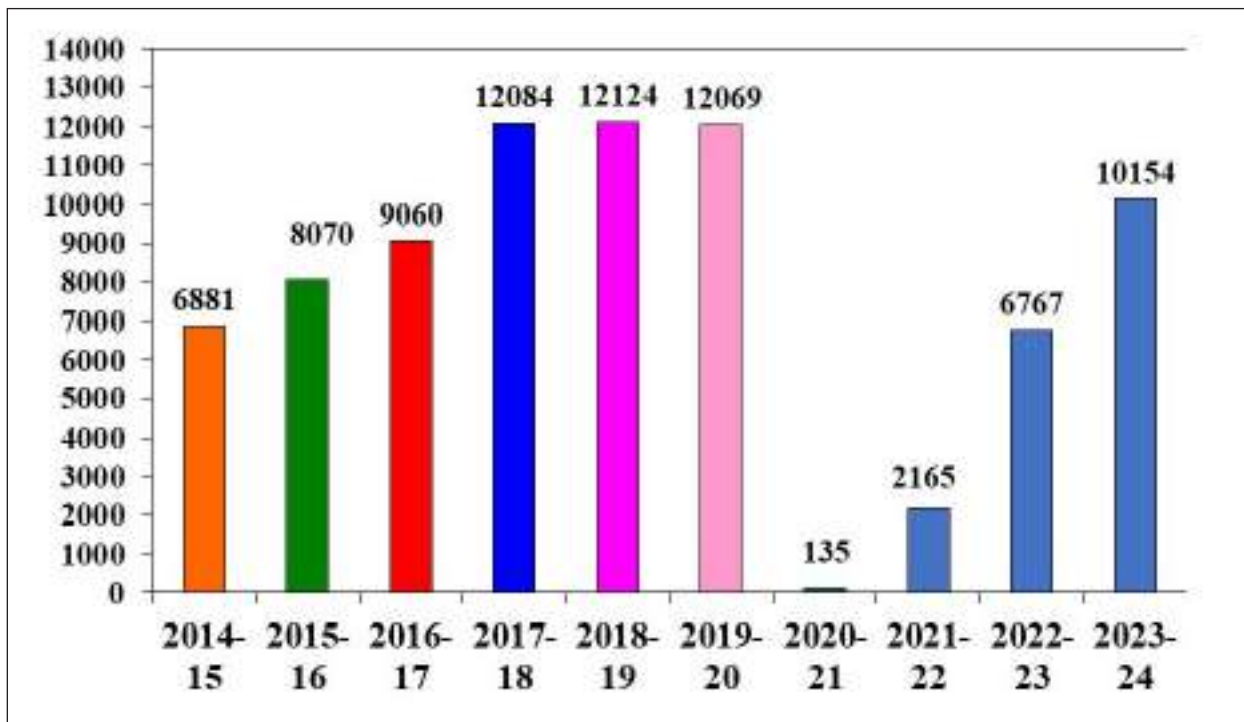
Bed Occupancy Rate



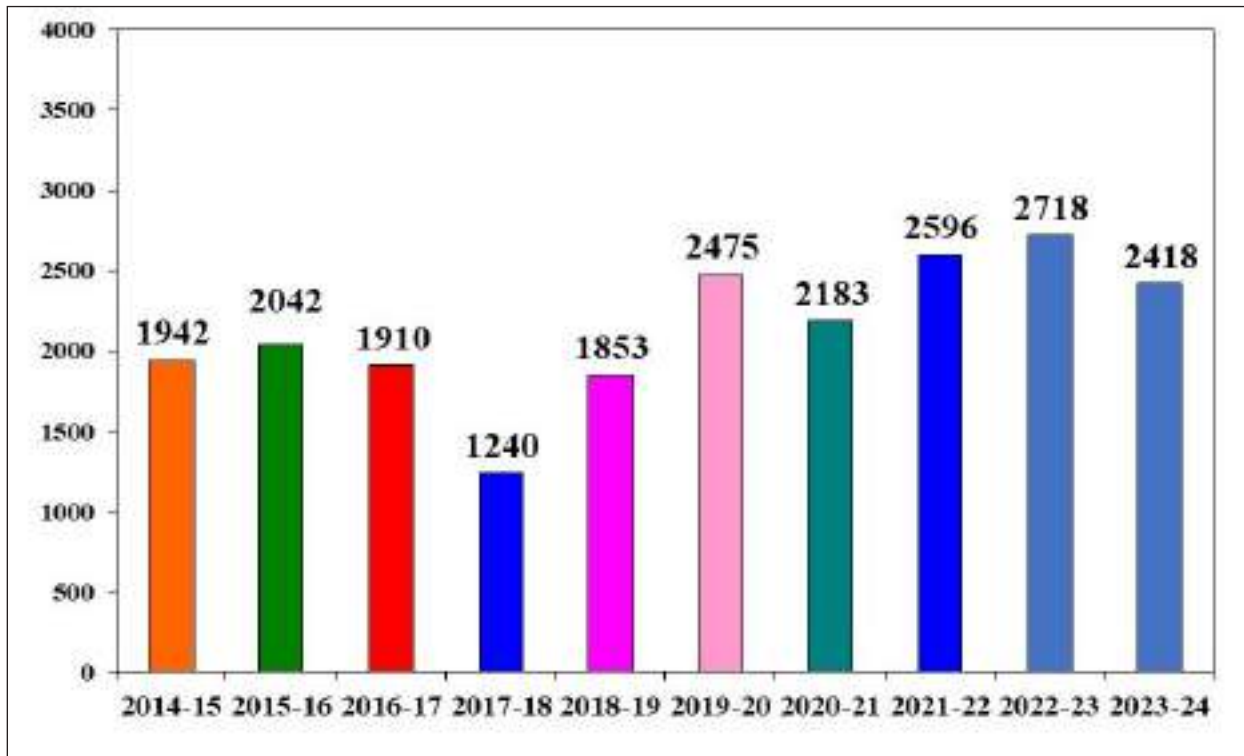
Major Thoracic Surgeries



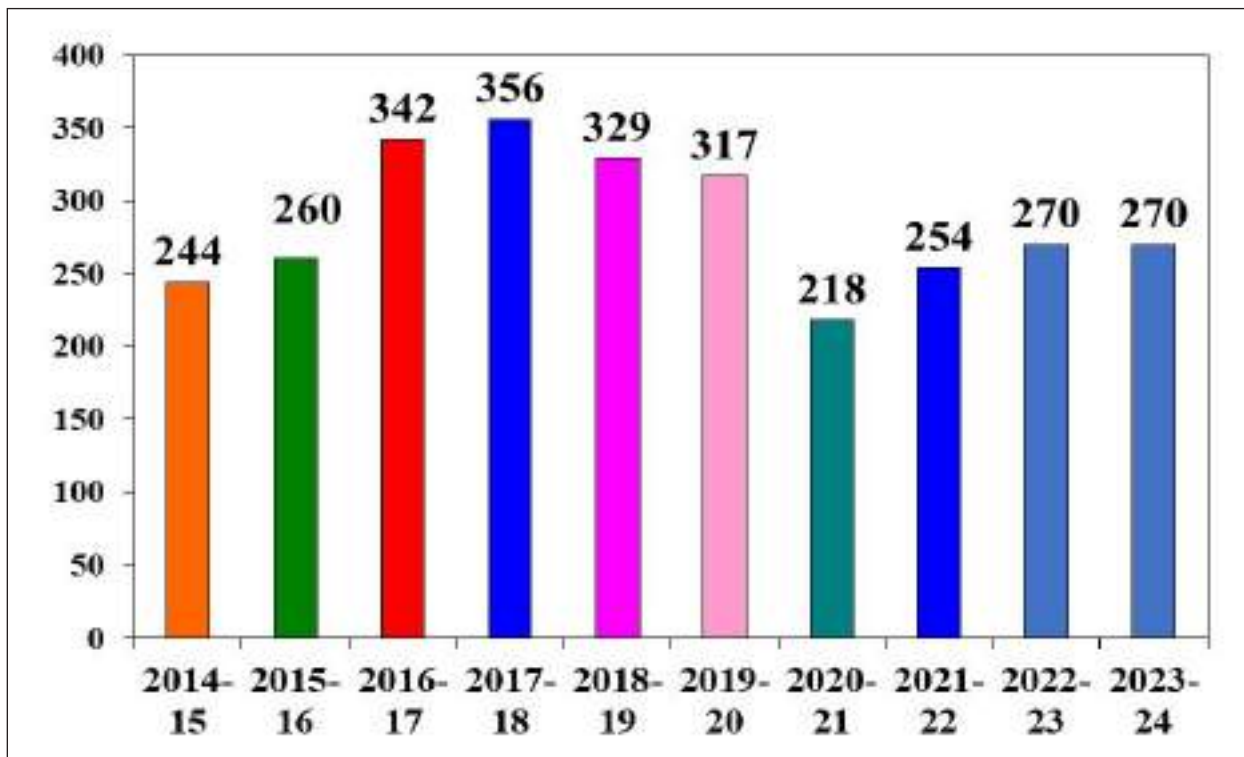
Pulmonary Function Tests



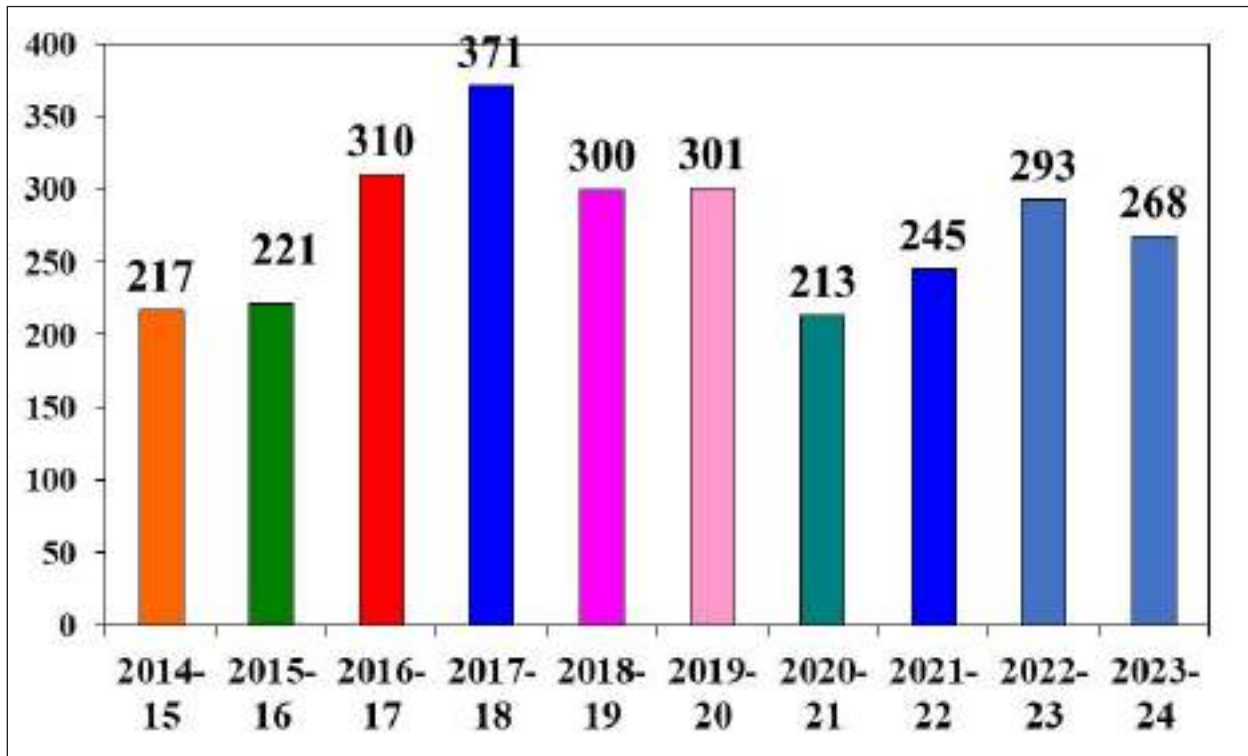
TB Patients NITRD-NTEP



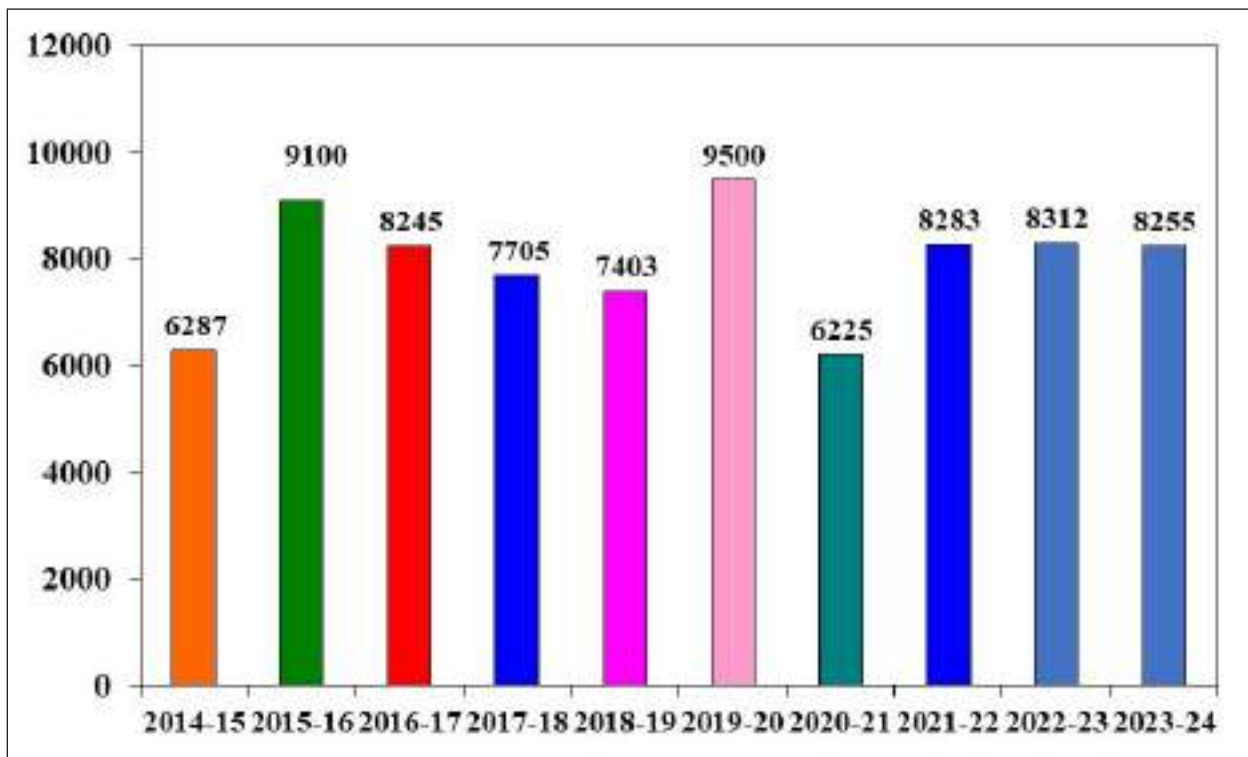
Anti-Retroviral Therapy New under HIV care



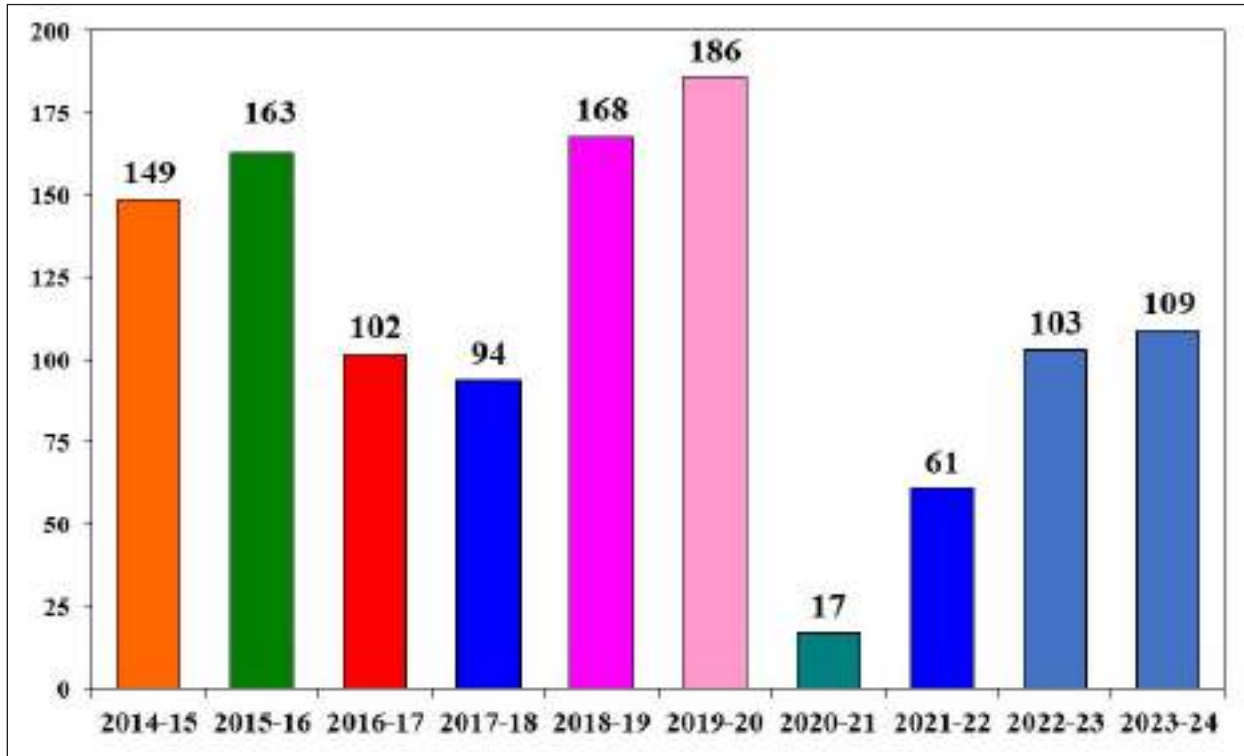
Anti-Retroviral Therapy New Patients Started on ART



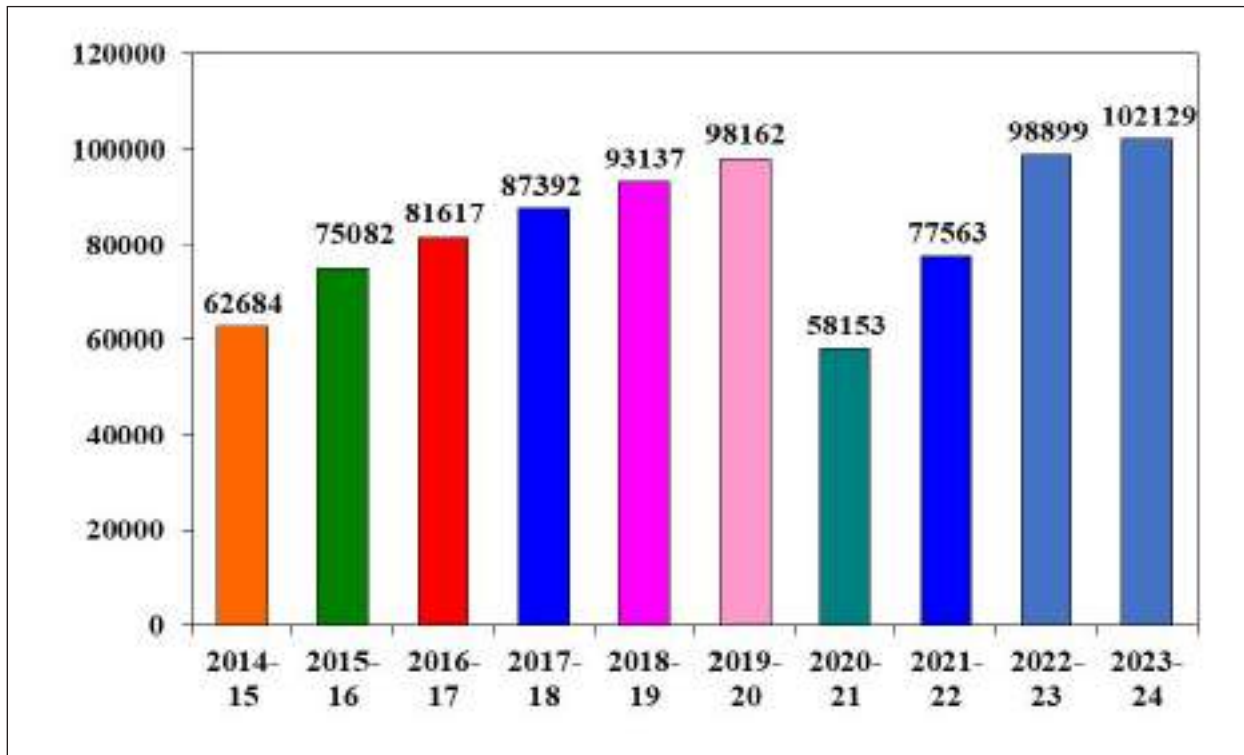
ICTC Patients



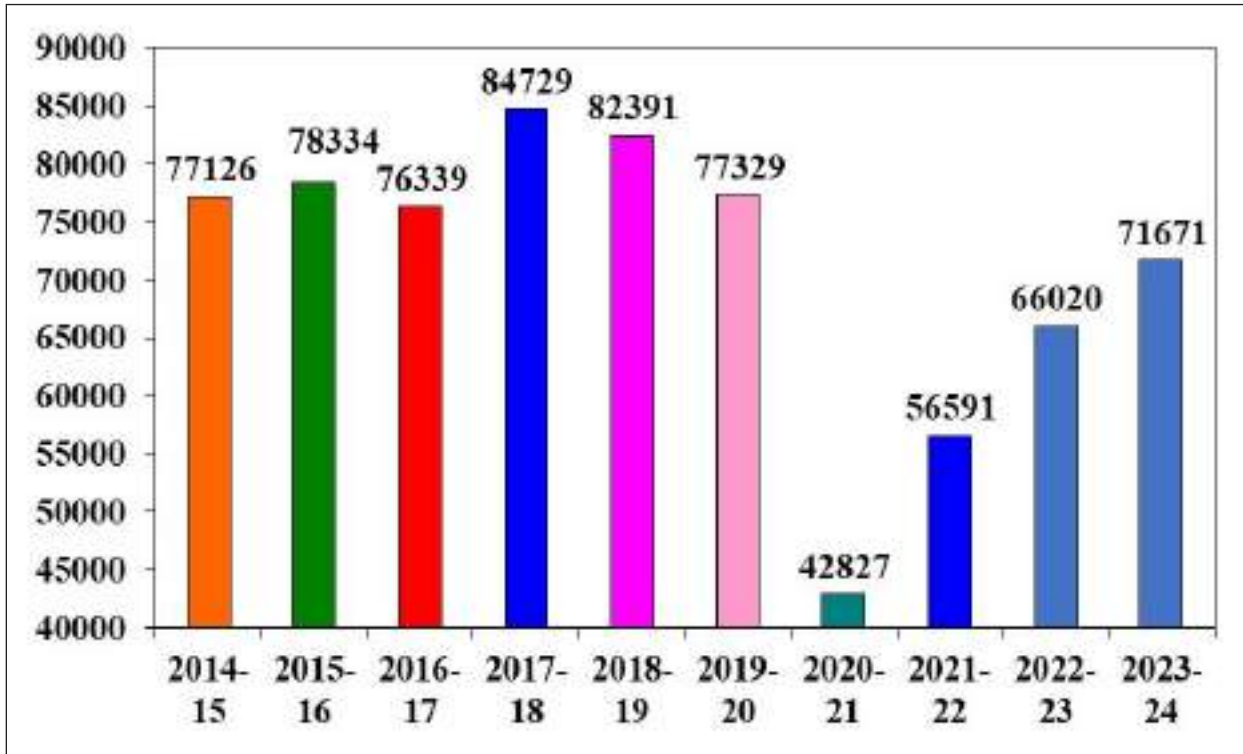
Sleep Studies



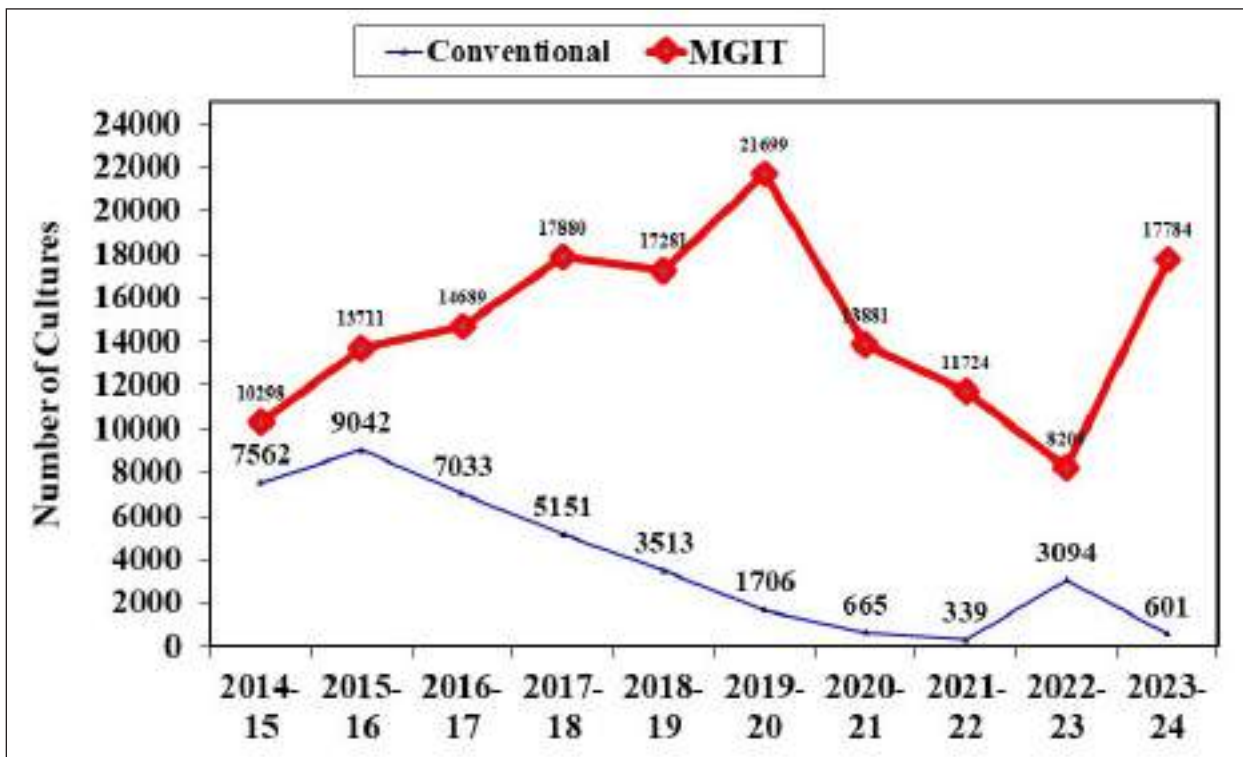
X-Ray Investigations



Sputum Smear Microscopy



Conventional and MGIT cultures



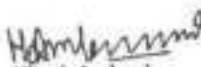
Audited Accounts Statements

National Institute of Tuberculosis and Respiratory Diseases
Sri Aurbindo Marg, New Delhi - 110030
Income & Expenditure Account
for the year ended as on 31st March 2024

Particulars	Sch. No.	Fig. as at 31.03.2024	Fig. as at 31.03.2023
INCOME			
Grants	7	1,29,66,84,300	1,34,00,00,000
Fees / Subscription	8	2,70,44,210	1,53,08,770
Other Income	9	1,56,92,313	1,85,40,775
Interest Earned	10	46,49,145	42,31,466
Total		1,34,40,69,968	1,37,80,81,011
EXPENDITURES			
Personnel Expenses	11	90,25,74,072	95,00,98,725
Other Administrative Expenses	12	51,33,24,947	40,23,50,040
Depreciation on Non Planned Assets	4	38,81,900	26,91,068
Total		1,41,97,80,920	1,35,51,39,833
INCOME TAX PAID		18,08,699	-
EXCESS OF EXPENDITURE OVER INCOME (Amount transferred to Balance sheet)		(7,75,19,651)	2,29,41,178
Total		1,34,22,61,269	1,37,80,81,011

For Ambani and Associates LLP
 Chartered Accountants
 FRN - 016923N

For and on behalf of National Institute of
 Tuberculosis and Respiratory Diseases


 Hitesh Ambani
 M.No. : 506267
 Designated Partner

UDIN: 2415063678396L3551

Date : 01 - June - 2024
 Place : New Delhi


 Accounts Officer


 Director

For Office Use Only
 National Institute of Tuberculosis and Respiratory Diseases
 Sri Aurbindo Marg, New Delhi - 110030
 Tel: 011-26101111, Fax: 011-26101112

For Office Use Only
 National Institute of Tuberculosis and Respiratory Diseases
 Sri Aurbindo Marg, New Delhi - 110030
 Tel: 011-26101111, Fax: 011-26101112

National Institute of Tuberculosis and Respiratory Diseases
Sri Aurobindo Marg, New Delhi - 110030
Notes Forming Part of Financial Statements

I. Fixed Assets

Depreciation

Being Hospital Registered under Societies Act, there is **No Applicability of Schedule 2** of Companies Act, 2013 and FAR on NITRD, hence Depreciation Rates have been taken as per WDV method under Income Tax Act, 1961.

Depreciation charged @40% on Library (Books & Journals) during the year as per amended IT Rules.

II. Inventories

Inventories are valued at Cost or Market Price, whichever is Lower & Certified by Management.

III. Income tax recoverable

Income tax is to be recoverable in respect of various earlier Assessment Years to the tune of Rs. 27.05 Lakhs as on 31.03.2024

IV. Outstanding Balances - Sundry Debtors and Creditors

The outstanding balances as at 31st March, 2024 in respect of Sundry Debtors and Creditors are subject to confirmation and reconciliation.

V. Interest on Fixed Deposit

Interest received on FDR's made from Employees Gratuity fund has been credited to the Employees Gratuity fund account.

VI. Gratuity

There is a investment of Rs 37.03 Crores as against the total gratuity fund of Rs 48.94 Crores.

VII. Donation in Kind

Keeping in view the Guidelines issued by ICAI & Guidance note issued by CAG ,Donation received in kind (Fixed Assets received free of cost) by institute during the year has been accounted at their nominal value of Rs 1/- and has been added to the capital account. However, during this year no Donation in Kind received by Institute. No depreciation has been charged on the assets received free of cost.

VIII. Regrouping

Previous year's figures have been regrouped and rearranged, wherever found necessary.



Signature

Not a Member
 Justice Officer
 न्यायिक अधिकारी
 National Institute of T.B. & Respiratory Diseases
 श्री अरुणो मार्ग, नई दिल्ली-110030
 Sri Aurobindo Marg, New Delhi-110030

Signature

Principal Officer
 मुख्य अधिकारी
 National Institute of T.B. & Respiratory Diseases
 श्री अरुणो मार्ग, नई दिल्ली-110030
 Sri Aurobindo Marg, New Delhi-110030

National Institute of Tuberculosis and Respiratory Diseases
Sri Aurobindo Marg, New Delhi - 110030
Financial Year: 2023-2024

Schedules forming part of Financial Statements

SCHEDULE 1 : CAPITAL ACCOUNT

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Opening Balance	38,32,65,703	12,58,81,042
Add:- Grant Utilised for Capital formation		
1. For Furniture & Fixture	48,01,883	5,67,908
2. For Equipments	7,64,34,501	1,00,75,683
3. For Computer	95,03,593	31,06,586
4. For Machinery	67,20,000	-
5. For Library Books	82,24,094	78,50,485
6. For Building	5,00,73,506	-
7. For Capital WIP	11,00,00,000	25,11,87,429
	64,90,23,280	39,86,69,133
Less:- Depreciation for the year	8,74,10,429	3,83,44,608
Add:- Excess of Expenditure over Income (Transferred from Income & Expenditure Account)	(7,75,19,651)	2,29,41,178
Closing Balance	48,40,93,200	38,32,65,703



(Signature)

For Director
Account Officer
National Institute of Tuberculosis and Respiratory Diseases
Sri Aurobindo Marg, New Delhi-110030

(Signature)

Director (Finance)
National Institute of Tuberculosis and Respiratory Diseases
Sri Aurobindo Marg, New Delhi-110030

National Institute of Tuberculosis and Respiratory Diseases
Sri Aurobindo Marg, New Delhi - 110030
Financial Year: 2023-2024

Schedules forming part of Balance sheet & Income and Expenditure Account

SCHEDULE 2 : EARMARKED FUNDS

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Opening Balance	70,62,18,942	41,01,91,806
Add:- Addition made to the Fund (From Ministry of Health and Family Welfare (Govt. of India)		
1. Grant Received	25,00,00,000	47,00,00,000
2. Amount Deposited (Gratuity)	74,13,495	10,12,95,269
3. Interest on Fixed Deposits (Gratuity)	1,98,51,421	94,69,044
4. Interest on Saving Bank Account (Gratuity)	13,46,643	4,46,513
Total (A)	98,48,30,501	99,14,02,632
Less:- Amount Transferred		
1. Addition made to Fixed Assets		
A. Furniture & Fixtures	48,01,883	5,67,908
B. Equipments	7,64,34,501	1,00,75,683
C. Computers	95,03,593	31,06,586
D. Machinery	67,20,000	-
E. Library Books	82,24,094	78,50,485
F. Buildings	5,00,73,506	-
H. Capital WIP	11,00,00,000	25,11,87,429
2. Expenditure Incurred		
A. Amount paid to Employees (Gratuity)	3,79,66,527	1,23,95,599
Total (B)	30,37,24,104	28,51,83,691
Closing Balance (A-B)	68,11,06,397	70,62,18,942

Note : Grant received from Ministry for the creation of Capital Asset



Dr. K. S. Narayana
Principal Officer
National Institute of Tuberculosis and Respiratory Diseases
Sri Aurobindo Marg, New Delhi - 110030

Dr. K. S. Narayana
Principal Officer
National Institute of Tuberculosis and Respiratory Diseases
Sri Aurobindo Marg, New Delhi - 110030

National Institute of Tuberculosis and Respiratory Diseases
Sri Aurobindo Marg, New Delhi - 110030
Financial Year: 2023-2024

Detail forming part of Schedules.

DETAIL OF EARMARKED FUND ALLOCATION

Particulars	Fig. as on 31.03.2024		Total	Fig. as on 31.03.2023		Total
	Grant-in-Aid	Employee's Gratuity Fund		Grant-in-Aid	Employee's Gratuity Fund	
Opening balance	20,74,55,030	49,87,63,912	70,62,18,942	1,02,43,121	39,99,48,685	41,01,91,806
Add:- Addition made to the fund (From Ministry of Health and Family Welfare (Govt. of India)	25,00,00,000	-	25,00,00,000	47,00,00,000	-	47,00,00,000
1. Amount Received	-	74,13,495	74,13,495	-	10,12,95,269	10,12,95,269
2. Amount Deposited	-	1,98,51,421	1,98,51,421	-	94,69,044	94,69,044
3. Interest on Fixed Deposits	-	13,46,543	13,46,543	-	4,46,513	4,46,513
4. Interest on Saving Bank Account	-	-	-	-	-	-
Total (A)	45,74,55,030	52,73,75,871	98,48,30,501	48,02,43,121	51,11,59,511	99,14,02,632
Less:- Amount Transferred						
1. Addition made to Fixed Assets						
A. Furniture & Fixtures	48,01,883	-	48,01,883	5,67,908	-	5,67,908
B. Equipments	7,64,34,501	-	7,64,34,501	1,00,75,683	-	1,00,75,683
C. Computers	95,03,593	-	95,03,593	31,06,586	-	31,06,586
D. Machinery	67,20,000	-	67,20,000	-	-	-
E. Library Books	82,24,094	-	82,24,094	78,50,485	-	78,50,485
F. Buildings	3,00,73,506	-	3,00,73,506	-	-	-
H. Capital WIP	11,00,00,000	-	11,00,00,000	25,11,87,429	-	25,11,87,429
2. Expenditure Incurred						
A. Amount paid to Employees/Institute	-	3,79,66,527	3,79,66,527	-	1,23,95,599	1,23,95,599
Total (B)	26,57,57,577	3,79,66,527	30,37,24,104	27,27,88,091	1,23,95,599	28,51,83,691
CLOSING BALANCE (A-B)	19,16,97,453	48,94,08,944	68,11,06,397	20,74,55,030	49,87,63,912	70,62,18,942

For Chief Accountant
National Institute of Tuberculosis and Respiratory Diseases
New Delhi

(Signature)
Date: 31.03.2024

National Institute of Tuberculosis and Respiratory Diseases
Sri Aarbind Marg, New Delhi - 110030
Financial Year: 2023-2024

Schedules forming part of Balance sheet & Income and Expenditure Account

SCHEDULE 3 : CURRENT LIABILITIES

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Sundry Creditors		
1. Business	12,01,48,445	7,61,00,548
2. Other Creditors	4,34,76,818	5,19,71,384
Patient's Advance		
1. Central Govt. Health Scheme	82,35,596	82,35,596
2. Patient Advance (Pvt. Ward)	7,65,551	6,75,990
Project Grant	1,26,75,169	83,41,419
Earnest Money	14,63,423	49,98,741
Securities received from Contractors	1,26,96,224	41,25,424
Funds Received under:-		
1. External Agencies	7,61,370	-
2. ART Center	1,46,221	11,414
4. Contail Project	50,233	18,244
5. Fungi Project	2,99,837	1,32,660
6. POD Main Trial Project	12,59,779	10,82,357
7. POD Ext.	15,67,938	8,31,692
8. HICOM R Project of India TB Research Foundation (EXT)	14,13,583	13,75,048
9. NTM Comprehensive Approach (Extn.)	93,285	1,04,145
10. NPT BPAL	1,89,173	3,45,447
11. TB IAM	19,83,398	-
12. IMPPACT	2,876	2,801
13. Contact TB Project	5,388	5,201
14. Secured M TB Project	49,284	47,972
15. TB Detect Project	3,19,494	3,10,893
16. Vitamin D Project	85,664	83,384
17. NFL (EQA) Project	25,216	4,61,791
18. IGRA STUDY	2,63,376	-
18. AI Tool	10,78,062	10,01,381
19. PROJECT 3-HP	10,51,684	7,42,045
Total	21,03,06,945	11,12,17,440

DETAIL SHOWING AMOUNT OF OTHER CREDITORS.

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
New Pension Scheme	53,96,510	35,37,602
Salary Payable	1,64,65,105	1,67,84,538
Family Pension Scheme	2,04,408	2,31,465
Group Life Insurance Scheme (G.L.I.S)	68,096	73,136
Group Life Insurance Scheme (Settlement)	2,62,927	1,47,138
Staff Provident Fund (R.P.F.C)	76,49,714	97,05,990
Audit Fee Payable	44,897	44,897
T.D.S. Payable - Salary	85,03,000	1,82,06,200
T.D.S. Payable - Contractors	28,39,794	17,31,582
T.D.S. Payable - Professionals	2,60,740	87,240
T.D.S. Payable - TDS on Purchase of Goods	5,538	3,991
GST Payable	14,24,243	15,85,810
M.D.R Patient Fund/Patient Grant	3,30,586	3,30,586
FOR OF (A.T.R) LATE STAFF NURSE	1,364	1,164
Total	4,34,76,818	5,19,71,384

National Institute of Tuberculosis and Respiratory Diseases
 Sri Aurobindo Marg, New Delhi - 110030
 Financial Year: 2023-2024

SCHEDULE 4 : Fixed Assets Schedule

S.NO.	PARTICULARS	BALANCE AS ON 01.04.2022	ADDITIONS BEFORE 2 nd OCTOBER	ADDITIONS AFTER 2 nd OCTOBER	SALE/TRANSFER/A DILUSTMENT DURING THE YEAR	DEPRECIATION	SALANCE AS ON 31.03.2023	DEPRECIATION RATE
1	FREEHOLD LAND	3,36,445	-	-	-	-	3,36,445	-
2	BUILDINGS	10,01,26,363	-	1,02,03,660	-	1,05,22,810	9,98,07,202	10%
3	BUILDING (OVERSIGHT)	2,86,83,707	-	-	-	24,68,371	2,22,15,336	10%
4	FURNITURE & FIXTURES	96,35,848	7,24,753	40,77,510	-	12,39,897	1,31,97,834	10%
5	EQUIPMENT	8,21,61,280	27,22,80,290	3,88,07,106	-	5,00,76,768	33,71,71,907	15%
6	EQUIPMENT (CLOSED PROJECTS)	4	-	-	-	-	4	-
7	LIBRARY BOOKS	1,01,49,659	9,480	83,14,614	-	57,06,578	1,26,47,175	60%
8	COMPUTER	64,71,387	71,15,285	21,08,508	-	59,52,310	1,00,22,579	60%
9	COMPUTER (CLOSED PROJECTS)	5	-	-	-	-	5	-
10	COVID19 CAPITAL	75,76,286	-	-	-	11,76,548	64,00,438	15%
11	MACHINERY	15,93,229	67,20,000	-	-	12,46,684	70,64,545	15%
12	FURNITURE & FIXTURES (OVERSIGHT)	3,70,187	-	-	-	27,019	2,43,169	10%
13	EQUIPMENT (SAP)	15,78,478	-	-	-	2,96,772	13,43,206	15%
14	VEHICLES	11,90,768	-	-	-	1,78,615	10,12,152	15%
15	PHYSICAL INFRASTRUCTURE	-	60,00,968	3,58,68,878	-	17,93,444	3,80,76,402	10%
16	EQUIPMENT (DONATED)	13,29,916	-	-	-	-	13,29,916	-
17	TUBE WELL AND WATER SUPPLY	-	-	1,65,34,534	-	12,60,090	1,52,94,444	15%
18	EQUIPMENT (OWN INCOME)	2,31,10,091	-	-	-	34,66,514	1,96,43,577	15%
19	CAPITAL - WORK-IN-PROGRESS	25,11,87,429	-	11,00,00,000	25,11,87,429	-	11,00,00,000	-
20	TOTAL	52,13,99,580	29,10,50,176	22,58,94,830	25,11,87,429	9,12,92,329	69,58,64,828	-

(Signature)
 Director
 National Institute of Tuberculosis and Respiratory Diseases
 Sri Aurobindo Marg, New Delhi - 110030

(Signature)
 Director
 National Institute of Tuberculosis and Respiratory Diseases
 Sri Aurobindo Marg, New Delhi - 110030



National Institute of Tuberculosis and Respiratory Diseases

Sri Aurobindo Marg, New Delhi - 110030

Financial Year: 2023-2024

Schedules forming part of Balance sheet & Income and Expenditure Account

SCHEDULE 5 : INVESTMENT FROM EARMARKED FUNDS

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Employee's Gratuity Fund		
<u>Amount With Scheduled Bank</u>		
1. Saving Bank	58,97,961	14,24,25,195
2. Fixed Deposits	33,60,47,738	22,09,93,971
Add:- Interest Accrued on Fixed Deposits	1,73,00,920	76,76,107
Add:- Amount of Tax Deducted at Source	1,10,10,503	1,02,30,192
Total	37,02,57,122	38,13,25,465




 Director
 National Institute of Tuberculosis and Respiratory Diseases
 Sri Aurobindo Marg, New Delhi - 110030


 Finance Officer
 National Institute of Tuberculosis and Respiratory Diseases
 Sri Aurobindo Marg, New Delhi - 110030

National Institute of Tuberculosis and Respiratory Diseases

Ed Arwido Morg, New DeM - 110532

FINANCIAL YEAR: 2023-2024

Schedule forming part of Balance sheet & Income and Expenditure Account

SCHEDULE B : CURRENT ASSETS, LOANS AND ADVANCES

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Cash-in Hand & With Bank		
Petty-Cash	5,981	18,022
Cash at Bank		
Bank Balance	6,43,40,442	1,42,00,306
GEM POOL	-	12,37,414
ART Centre		
Cash at Bank		
ART CENTER Account	8,936	11,814
PFMS (ART) CENTRE	1,37,285	-
Project Grant Account		
Bank	1,26,75,309	21,45,835
IMPACT BANK ACCOUNT		
Cash at Bank	2,877	2,801
Other Project Bank Account		
Bank Account AI Tool	50,76,062	30,01,281
Bank Account Corpal Project	50,233	28,144
Bank Account Pangi Project	2,96,827	1,21,600
Bank Account WICOW II Project	14,13,383	13,76,048
Bank Account MRT SPAL	1,89,173	1,48,447
Bank Account NTM Project	93,285	1,04,145
Bank Account PDD Capacity	15,67,938	8,31,903
Bank Account PDD Main Trail Project	12,50,779	30,82,357
Bank Account TB LAM	17,57,007	-
Bank Account TB Detect	3,12,464	3,18,893
Bank Account NRL (EDA)	25,216	4,81,791
Bank Account Pediatric Contract	5,388	5,101
Bank Account Secured N. tb	45,294	47,972
Bank Account - Vitamin D	85,664	81,584
Bank Account - I HI	10,51,684	7,41,046
External Agency		
Cash at Bank		
A) AI Current Account	7,61,370	-
Sundry Debtors	76,700	76,700
Closing Stock (Stores)	1,31,30,887	1,48,63,745
(Valued at Cost or Market Price, whichever is lower & Certified by Management)		
Other Current Assets		
Tax Deductible At Source		
1. Assessment Year (2012 - 2013)	12,10,702	12,10,702
2. Assessment Year (2013 - 2014)	14,94,000	14,94,000
3. Assessment Year (2023 - 2024)	-	5,00,706
4. Assessment Year (2024 - 2025)	8,14,078	-
Recoverable from Vendors	6,41,562	15,71,728
Advance to Staff	5,73,696	8,11,766
OUS Recoverable	24,240	17,170
Advance for Construction to HSCC	-	1,14,88,886
ADVANCE TO CPWD(MASTER PLAN)	20,00,00,000	20,00,00,000
Security Deposits	16,49,002	11,85,302
Prepaid Expenses	6,86,605	5,60,423
FUC/VC	-	1,54,99,671.00
Total	80,92,84,593	29,79,77,341



 Director General
 National Institute of Tuberculosis and Respiratory Diseases
 Ed Arwido Morg, New DeM - 110532
 New Delhi - 110029


 Director General
 National Institute of Tuberculosis and Respiratory Diseases
 Ed Arwido Morg, New DeM - 110532
 New Delhi - 110029

DETAIL SHOWING AMOUNT GIVEN AS ADVANCE TO STAFF

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
L.T.C. Advance	62,538.00	1,41,600
House Building Advance	38,500.00	41,500
Festival Advance	6,150.00	6,150
Medical Advance to Staff	4,43,177.00	3,71,014
Postage Advance	33,726.00	48,822
Total	5,71,691	8,12,768

DETAIL SHOWING AMOUNT RECOVERABLE FROM VENDORS

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Recoverable From PNB Elec.	23,212	23,006
Recoverable From PNB LF	80,000	45,000
Recoverable From Maxwell Food	57,820	18,510
Recoverable From Elec. Post Office	22,870	10,651
Recoverable From License Fee Post Office	1,30,800	79,800
Recoverable of License Fee from Wells	90,000	60,000
RECOVERY OF ELECTRICITY FROM WILLO	6,754	6,548
RECOVERY OF ELECTRICITY FROM BLOOD BANK	60,899	37,988
RECOVERY OF LICENCE FEE (AGRAH BLOOD BANK)	1,35,000	1,05,000
RECOVERABLE FROM CHAI VEDA	14,704	-
RECOVERY FROM COMPETENT SERVICES	13,489	-
Recoverable from Bank	13,600	11,89,104
Total	6,41,162	11,72,128



Rajiv

डॉ. राजीव
 Anand Officer
 राष्ट्रीय संस्थान के अध्यक्ष
 National Institute of TB & Respiratory Diseases
 जी. आर. आर. 150, नई दिल्ली-110015
 G. R. A. R. 150, New Delhi-110015

M. Shella

प्रमुख / Director
 राष्ट्रीय संस्थान के अध्यक्ष
 National Institute of TB & Respiratory Diseases
 जी. आर. आर. 150, नई दिल्ली-110015
 G. R. A. R. 150, New Delhi-110015

National Institute of Tuberculosis and Respiratory Diseases

Sri Aurobindo Marg, New Delhi - 110030

Financial Year: 2023-2024

Schedules forming part of Balance sheet & Income and Expenditure Account

SCHEDULE 7 : GRANTS

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Grant (From Govt. of India)	1,29,66,84,300	1,34,00,00,000
Total	1,29,66,84,300	1,34,00,00,000

SCHEDULE 8 : FEES / SUBSCRIPTION

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
INCOME FROM PATIENTS		
1. O.P.D Registration Charges	6,61,300	6,41,950
2. Private Ward	88,74,200	93,08,175
3. Patient Tests	4,76,510	3,29,545
	1,00,12,010	1,02,79,670
Donation and Contribution	1,70,32,200	50,29,100
Total	2,70,44,210	1,53,08,770

SCHEDULE 9 : OTHER INCOME

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Licence Fees & House Rent Recoveries	16,27,630	18,50,163
Miscellaneous Receipts		
Penalty Deducted	15,02,813	27,93,212
Sundry Receipt	28,98,657	53,47,647
Employees Health Scheme	36,72,495	31,73,070
Water Charges	11,568	60,433
Aayushman Bharat	27,900	-
Fees for Diploma in National Board Course	59,51,250	53,16,250
Total	1,56,92,313	1,85,40,775



Director
 Admin Office
 National Institute of Tuberculosis and Respiratory Diseases
 Sri Aurobindo Marg, New Delhi - 110030

Director (Finance)
 National Institute of Tuberculosis and Respiratory Diseases
 Sri Aurobindo Marg, New Delhi - 110030

National Institute of Tuberculosis and Respiratory Diseases

Sri Aurobindo Marg, New Delhi - 110030


Financial Year: 2023-2024

Schedules forming part of Balance sheet & Income and Expenditure Account

SCHEDULE 10 : INTEREST EARNED

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Interest Earned on :-		
Saving Account	25,05,065	-
Interest Earned from H.S.C.C	2,42,088	6,50,269
Interest on House Building ,Computer & Vehicle Advance (Staff)	-	16,790
Interest received on FDRs against ILC/FLC	18,61,609	3,958
Interest Received from BSES Rajdhani	40,383	-
Interest on Income Tax Refund	-	35,60,449
Total	46,49,145	42,31,466




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 Accounts Officer
 राष्ट्रीय अणु रोग विज्ञान संस्थान
 National Institute of T.B. & Respiratory Diseases
 श्री अरुविंद मार्ग, नई दिल्ली-११००३०
 Sri Aurobindo Marg, New Delhi-110030


 Director
 राष्ट्रीय अणु रोग विज्ञान संस्थान
 National Institute of T.B. & Respiratory Diseases
 श्री अरुविंद मार्ग, नई दिल्ली-११००३०
 Sri Aurobindo Marg, New Delhi-110030

National Institute of Tuberculosis and Respiratory Diseases

Sri Aurobindo Marg, New Delhi - 110030

Financial Year: 2023-2024

Schedules forming part of Balance sheet & Income and Expenditure Account

SCHEDULE 11 : EMPLOYEE EXPENSES

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Salaries and Allowances - General (A)		
Salaries, Allowances and Bonus	78,42,14,718	75,86,76,162
<u>Allowances :-</u>		
1. Children Education Allowance	53,46,000	67,59,849
2. Conveyance Allowance	16,89,253	36,21,566
3. Leave Travel Concession	39,70,372	38,89,979
5. Telephone Allowance	6,22,262	7,35,526
6. Travelling Allowance	26,56,531	26,26,474
8. Honorarium	1,28,700	1,89,000
9. Medical Aid to Staff	3,56,67,207	1,65,75,019
10. Newspaper Allowances	4,09,650	3,84,960
<u>Contribution to :-</u>		
1. Provident Fund	3,44,33,601	3,14,32,370
2. Family Pension Fund	25,75,554	29,48,049
3. Gratuity Fund	53,33,152	10,00,00,000
4. Deposit Linked Insurance Scheme	2,00,257	2,15,565
5. New Pension Scheme	2,37,67,993	2,05,75,826
<u>Administration Charges :-</u>		
1. Provident Fund	15,58,822	14,68,380
Total (A)	90,25,74,072	95,00,98,725



Dr. S. Gupta
Account Officer
NITRD, Sri Aurobindo Marg, New Delhi
National Institute of TB & Respiratory Diseases
Sri Aurobindo Marg, New Delhi - 110030
C/Aurobindo Marg, New Delhi-110030

(Signature)

(Signature)

Dr. S. Gupta
Account Officer
NITRD, Sri Aurobindo Marg, New Delhi
National Institute of TB & Respiratory Diseases
Sri Aurobindo Marg, New Delhi - 110030
C/Aurobindo Marg, New Delhi-110030

National Institute of Tuberculosis and Respiratory Diseases
 St. Ambrose Marg, New Delhi - 110002
 Receipts and Payment Account
 for the year ended on 31st March 2024

Particulars	Fig. in ₹		
	31.03.2024	31.03.2023	
OPENING BALANCE			
Cash in Hand			
Party-Cash Advance	18,000	26,168	
Bank Balances			
Saving Account (regular account)	31,34,76,181	1,81,81,271	
Saving Account (Savings)	31,50,404	1,90,829	
Saving Account (incl. Bank Account)	1,40,30,300	4,30,50,541	
Bank Account of Topi	33,11,381	21,89,588	
Bank Account Seal Project	-	12,00,211	
Bank Account COPPAJ Project	20,244	3,61,806	
Bank Account TUBSI Project	1,32,650	1,93,790	
Bank Account HODN/R Project	14,76,668	14,12,015	
Bank Account NRI Project	1,04,146	1,54,010	
Bank Account POC Project	8,51,600	8,58,808	
Bank Account POC Main Trail Project	58,80,201	15,15,581	
Bank Account Project Grant	71,46,205	91,75,282	
Bank Account PRL	4,81,791	8,86,081	
Bank Account Pediatric Contract	5,203	1,48,309	
Bank Account PEDWATAC WORK 19 PROJECT	-	4,380	
Bank Account Secured N TB	41,671	40,538	
Bank Account TB client	3,30,692	3,31,426	
Bank Account Vitamin D	81,304	81,202	
Bank Account NRI BINA	3,64,647	7,43,042	
Current Account (External Agency)	-	6,12,899	
MT	11,414	84,562	
BANK ACCOUNT 2 HP	7,62,048	-	
Impost Bank Account	7,001	1,52,424	
Total	A	17,16,80,137	6,06,85,295
RECEIPTS			
Grant Received	1	1,54,88,84,300	1,85,03,80,200
Others Receipts	2	1,41,31,547	1,33,58,892
Advance Recovered	3	4,40,82,514	89,580
Sundry Receipts	4	18,99,40,144	7,11,41,546
Other Receipts	5	2,71,46,354	1,89,10,448
External Agency			
1. Fund Received		12,08,11,368	6,00,41,777
2. Project Grant Account		26,15,176	30,88,143
3. Fund Received (MT)		3,90,150	2,02,588
4. Impost		78	7,805
Other Projects		1,04,45,201	1,41,11,006
Total	B	1,12,12,72,904	1,08,29,54,644
Grand Total	A+B	1,19,48,21,338	1,11,35,17,979



डॉ. अ. वि. शर्मा
 Accounts Officer
 राष्ट्रीय क्षय एवं श्वसन रोग संस्थान
 National Institute of T.B. & Respiratory Diseases
 श्री अमरेश मार्ग, नई दिल्ली-110002
 St. Ambrose Marg, New Delhi-110002

Signature

Signature

Dr. Anil Kumar
 Director
 National Institute of T.B. & Respiratory Diseases
 St. Ambrose Marg, New Delhi-110002
 National Institute of Tuberculosis and Respiratory Diseases

Particulars		Fig. in ₹ 31.03.2024	Fig. in ₹ 31.03.2023
PAYMENT			
Establishment Expenses	8	82,15,26,871	74,15,87,880
Treatment of Patients	7	932,05,527	10,30,98,778
Administrative Expenses	8	15,45,85,757	26,27,34,289
Payment for Assets	8	44,49,40,994	30,32,65,400
Amount paid as Advance	10	81,40,297	14,46,15,740
Other Accounts	11	18,76,75,651	12,44,80,440
External Agency		5,85,29,811	8,54,89,428
ART Expenditure		1,97,445	2,48,257
Project Grant Account		43,24,905	48,03,264
HCCN - A Project		2	49,587
BDAT Project		17,289	11,30,501
POD Capacity Project		7,58,773	8,36,941
WAPCOI		1	1,84,028
Contact TB project		-	1,48,781
MBL Project		88,11,623	81,41,184
POD Main Trail Project		18,25,796	24,53,108
Secreted M TB Project		-	35
Fungi Project		8,71,897	10,24,895
NIIT BML		18,84,869	10,50,888
NTM Project		3,03,475	9,57,800
REDA/ICMR TB RESEARCH		-	18,881
AI TOOL		18,48,282	20,85,971
PROJECT 3 HR		4,15,272	178
CORTX PROJECT		6,05,034	4,13,697
TE LAM		1,80,031	-
TE DETECT		1	2,80,401
WMA STUDY		1,95,513	-
Vaccine D Project		-	38
Total	<	1,70,16,42,221	1,94,19,17,888
CLOSING BALANCE			
Cash-in-hand			
Party Cash		9,981.00	18,021
Cash in-hand (External Agency)		-	-
Bank Balances			
Saving Account (Security Account)		58,67,941	24,24,15,135
Saving Account (Gurupool)		-	32,27,464
Saving Account (Ind. Self Account)		6,41,49,642	1,41,85,970
Bank Account AI Tool		88,58,042	10,01,181
Bank Account BDAT Project		-	-
Bank Account CORTX Project		50,218	76,244
Bank Account FUNGI Project		2,86,817	3,32,648
Bank Account HCCN A Project		14,33,583	13,76,948
Bank Account NTM Project		58,280	2,04,145
Bank Account POD Capacity		15,67,945	8,12,600
Bank Account POD Main Trail Project		11,85,715	10,02,257
Bank Account Project (SAP)		1,78,75,100	31,48,816
Bank Account WPL		25,138	4,65,791
Bank Account WPL		5,598	5,281
Bank Account Pediatric Contact		-	-
Bank Account Secreted M TB		40,184	47,872
Bank Account TE DETECT		1,39,484	5,00,893
Bank Account Vaccine C		32,884	83,384
Bank Account NIIT BML		1,89,179	2,48,447
Bank Account TE LAM		11,37,607	-
Current Account (External Agency)		1,81,379	-
IFMS-ART CENTRE		1,81,280	-
ART		8,955	11,634
BANK ACCOUNT 3 HR		11,50,184	7,42,346
Impound Bank Account		1,827	7,001
Total	D	9,26,15,967	17,16,08,137
Grand Total	₹ 0	2,70,42,38,188	2,11,35,26,025

For Ambani and Associates LLP
Chartered Accountants
FIRM - 024903M

Hamburano
Hitesh Ambani
M.No. : 506267
Designated Partner

[Signature]
Accounts Officer

[Signature]
Director

UDIN: 2403624MLJ2YEL3551

Date: 08 - June - 2024
Place: New Delhi

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National Institute of Tuberculosis and Respiratory Diseases

Sri Aurobindo Marg, New Delhi - 110030

Financial Year: 2023-2024

Detail forming part of Receipt & Payment Account

1. Grant Received

Detail showing amount received during the year under grant.

Financial Year: 2023-2024

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Grant-in-Aid	1,24,36,84,300	1,30,00,00,000
Grant-in-Aid (Capital Creation)	25,00,00,000	47,00,00,000
Swachhta Action Plan	5,30,00,000	4,00,00,000
Patient Grant Received	-	200
Total	1,54,66,84,300	1,81,00,00,200

2. Patient Settlements

Detail showing amount received during the year.

Financial Year: 2023-2024

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
O.P.D Registration Charges	6,61,300	6,41,950
Patient's Receipts (Test/Investigation)	4,76,510	3,29,545
Private Ward Income	1,31,77,737	1,29,87,397
Total	1,43,15,547	1,39,58,892




 Joint Officer
 राष्ट्रीय अणु एवं श्वसन रोग संस्थान
 National Institute of Tub. & Respiratory Diseases
 श्री अरविन्द मार्ग, नई दिल्ली-110030
 Sri Aurobindo Marg, New Delhi-110030


 Financial Director
 राष्ट्रीय अणु एवं श्वसन रोग संस्थान
 National Institute of Tub. & Respiratory Diseases
 श्री अरविन्द मार्ग, नई दिल्ली-110030
 Sri Aurobindo Marg, New Delhi - 110030

National Institute of Tuberculosis and Respiratory Diseases

Sri Aurobindo Marg, New Delhi - 110030

Financial Year: 2023-2024

Detail forming part of Receipt & Payment Account

3. Advances Recovered*

Detail showing amount received during the year.

Financial Year: 2023-2024

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Imprest (Staff)	1,07,500	89,500
Advance for construction HSCC	88,95,173	-
L.T.C. Advance	1,00,330	10,000
FLC/ILC	354,59,571	-
Total	445,62,574	99,500

* Net of Advances Given and amount paid to advance is vice versa

4. Sundry Receipts

Detail showing amount received during the year.

Financial Year: 2023-2024

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Sundry Receipt	17,06,492	8,47,685
Interest on FDR	18,61,619	3,958
Interest on Saving Bank (NITRD)	25,05,065	50,05,989
Interest Received on Income Tax Refund	-	35,60,449
Penalty Deduction	15,02,813	27,92,551
Donation & Contribution	170,32,200	50,29,100
Capital WIP	4109,71,704	-
Gratuity FDR	(1048,27,159)	491,50,685
TDS ON FDR (Recoverable From Main A/c)	-	15,56,861
Interest On HSCC	2,42,088	-
P.G./Security	276,50,773	37,47,774
Interest on Gratuity Fund	13,46,643	4,46,513
Total	3599,92,238	721,41,565



आचार्य
 Director
 राष्ट्रीय क्षयरोग एवं श्वसन रोग संस्थान
 National Institute of Tuberculosis and Respiratory Diseases
 श्री अरविंद मार्ग, नई दिल्ली-110030
 Sri Aurobindo Marg, New Delhi-110030

Daya

W. S. K. K.

प्रमुख/प्रधान
 प्रमुख/प्रधान
 राष्ट्रीय क्षयरोग एवं श्वसन रोग संस्थान
 National Institute of Tuberculosis and Respiratory Diseases
 श्री अरविंद मार्ग, नई दिल्ली-110030
 Sri Aurobindo Marg, New Delhi-110030

National Institute of Tuberculosis and Respiratory Diseases

Sri Aurobindo Marg, New Delhi - 110030

Financial Year: 2023-2024

Detail forming part of Receipt & Payment Account

S. Other Account Receipts

Detail showing amount received during the year.

Financial Year: 2023-2024

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Earnest Money	2,37,562	40,85,270
Income Tax Refund	52,000	22,30,770
Electricity & Power (Recovered)	19,72,253	4,16,768
Employee Health Scheme	8,52,045	3,78,120
G.L.I.S (Settlement)	15,79,566	6,54,722
CSIR	68,999	-
Licence Fees	-	4,18,770
Water Charges (Recovered)	840	49,355
Fess from DNB Project	59,51,250	53,16,250
Recoverable From PNB Elec	19,651	58,968
Recoverable From PNB LF	2,00,000	2,14,000
Recoverable From Mandavi Food	34,252	70,297
Recoverable From Elec. Post Office	8,640	6,148
Recoverable From License Fee Post Office	79,800	79,800
Recoverable From Electricity of Amrit	-	9,230
RECOVERY OF ELECT. (JAGRATI BLOOD BANK)	40,493	-
Recoverable of License Fee From Wello	7,20,000	4,80,000
RECOVERY OF ELECTRICITY FROM WELLO	63,877	18,021
RECOVERY OF LICENCE FEE (JAGRATI BLOOD BANK)	1,50,000	15,000
Recoverable From Bank	11,77,604	(11,98,004)
Aayushman Bharat	27,900	-
GST	1,35,87,429	61,62,901
TDS Salary	3,21,000	4,44,100
Total	2,71,45,161	1,99,10,486



[Signature]

Account Officer
राष्ट्रीय क्षयरोग एवं श्वसन रोग संस्थान
National Institute of T.B. & Respiratory Diseases
श्री अरविन्द मार्ग, नई दिल्ली-110030
Sri Aurobindo Marg, New Delhi-110030

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Accountant
राष्ट्रीय क्षयरोग एवं श्वसन रोग संस्थान
National Institute of T.B. & Respiratory Diseases
श्री अरविन्द मार्ग, नई दिल्ली-110030
Sri Aurobindo Marg, New Delhi-110030

National Institute of Tuberculosis and Respiratory Diseases

Sri Aurobindo Marg, New Delhi - 110030

Financial Year: 2023-2024

Detail forming part of Receipt & Payment Account

6. Establishment Expenses

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
General		
Salaries, allowances and Bonus	5996,59,195	5629,80,313
Children Education Allowance	53,46,000	67,59,849
Leave Travel Concession (Sett.)	50,23,744	-
Administration Charges (P.F)	15,58,822	14,68,380
Administration Charges (D.L.I)	2,00,257	2,15,565
Payment of Gratuity to Employees	309,24,986	130,70,244
Newspaper Allowance	4,09,650	3,84,960
Staff Medical Aid	326,87,784	143,48,120
Telephone Expenses	6,22,262	7,35,526
Travelling Exp	-	26,26,474
Conveyance Allowance	16,89,253	36,21,566
A	6781,21,953	6062,10,997
Contribution towards		
Contribution to Provident Fund	947,26,711	908,54,751
Family Pension Scheme	26,02,551	29,92,544
New Pension Scheme	456,74,256	413,29,308
B	1430,03,518	1351,76,603
A+B	8211,25,471	7413,87,600

7. Treatment of Patient

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Diet	168,82,708	158,16,086
Supplies and Material	192,77,859	561,26,128
Drugs & Supplies	216,67,137	270,45,769
Surgical Goods	194,49,839	246,53,601
M.D.R	27,02,295	58,10,048
Laboratory Chemicals	110,49,276	150,13,403
X-Ray Film	82,26,413	73,89,300
COVID - 19	-	1,54,444
Total	992,55,527	1520,08,779



Director
 Finance Officer
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Sri Aurobindo Marg, New Delhi - 110030

Financial Year: 2023-2024

Detail forming part of Receipt & Payment Account

8. Administrative Expenses

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Swachhta Action Plan	4,36,20,732	3,55,25,977
DNB Expenses	(2,74,819)	52,380
G.L.I.S	22,79,511	14,54,153
Bank Charges	2,46,603	2,12,268
Conveyance and Cartage	56,667	2,81,768
Electricity & Power	4,13,93,215	4,28,44,475
AMC	1,08,52,525	1,49,16,159
Advertisement	16,01,681	-
Entertainment to Patients & Staff	11,81,635	9,80,450
Audit Fee Payable	11,75,432	1,57,317
Honorarium	1,28,700	1,89,000
Procurement of Services and Legal Expenses	9,43,03,683	10,04,43,221
Repair & Maintenance	11,36,83,243	4,37,66,137
Office Expenses	44,97,327	15,74,476
Printing & Stationary	13,73,588	15,04,127
Property Tax	-	27,45,138
Sundry Expenses	6,30,196	7,95,376
Teaching & Training Expenses	25,86,687	7,17,413
Miscellaneous Expenses	1,35,80,844	40,98,624
Prior Period	2,16,64,307	40,636
Upkeep of Vehicles	-	3,650
NRL Project/RNTCP Support Expenses	-	4,27,500
Total	35,45,81,757	25,27,30,295



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Financial Year: 2023-2024

Detail forming part of Receipt & Payment Account

9. Payment for Assets

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
Equipment	3004,47,390	381,03,354
Furniture & Fixture	41,29,778	7,40,612
Books	180,14,249	-
Modernisation of Computer	85,66,766	36,93,795
Machinery	67,98,574	-
Physical Infrastructure	222,95,879	-
Tubewell	74,61,448	-
Library	-	95,60,240
Building	74,81,696	-
Capital Work-in-Progress	2697,84,275	2511,87,429
Total	6449,80,055	3032,85,430

10. Payment for Advances

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
L.T.C Advance (Plan)	16,50,315	41,40,699
Postage Advance	95,000	2,94,000
Advance to CPWD (master Plan)	-	2000,00,000
FLC / ILC	-	354,59,571
Total	61,45,597	2449,15,740

11. Other Accounts Expenditures

Particulars	Fig. as at 31.03.2024	Fig. as at 31.03.2023
T.D.S on Purchase (194Q)	40,200	41,155
T.D.S on Consultancy	7,90,550	15,65,272
T.D.S on Salary	1062,96,304	1047,25,100
T.D.S from Contractors	64,68,627	35,86,597
Assessment Year (2023-24)	-	5,22,486
Assessment Year (2024-25)	8,08,511	-
Earnest Money	29,92,245	17,51,361
Security Refunded & Performance Guarantee	191,61,738	23,38,852
GST	137,50,332	61,28,052
Patients Grants Received	-	3,875
Private Ward (Patients)	42,67,550	37,02,692
Total	1545,76,057	1243,65,442



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Signature of the Account Officer