



# NTEP

## Kerala TB Elimination During the Covid Era 2020-2021



The State TB Officer,

State TB Cell, Red Cross Road, General Hospital jn;

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Layout Design: Satheesh Joy ACSM Officer, State TB Cell

## **TB Elimination programme During The Covid Era 2020 & 2021**

A state level review of the NTEP programme had scheduled by Principal Secretary H&FWD, Govt. of Kerala on **16<sup>th</sup> January 2020**. Director of Health Services and State TB Officer along with all 14 DTOs were present in the online meeting. The Principal Secretary congratulated the State & District team of NTEP for the good work carrying out at the field level and conveyed the appreciation by the Joint Monitoring Mission team.

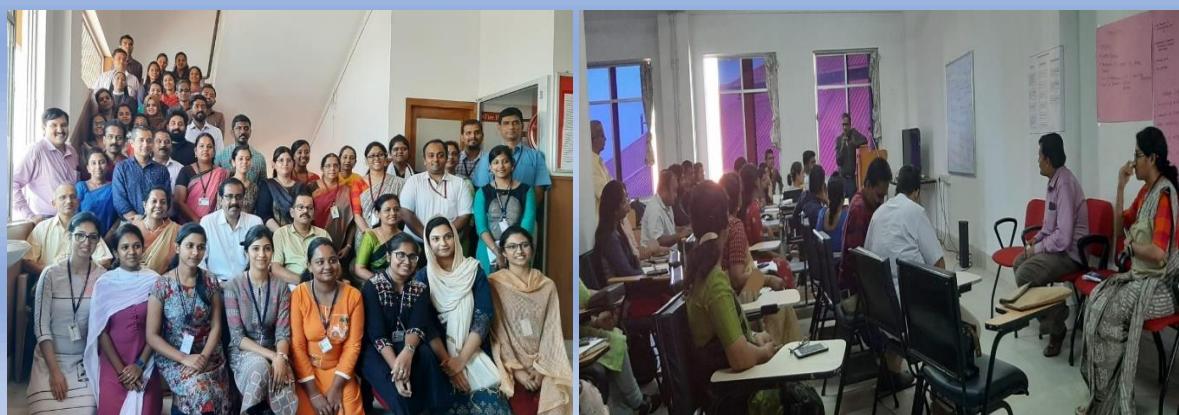
### **State level TOT on “TB-free air for every child” on 29th January 2020**

State level TOT on “TB-free air for every child” -Paediatric TB care strategies among the practising Paediatricians of the Kerala -organised by State TB Cell in association with Indian Academy of Paediatrics, Kerala Chapter at Govt Guest House, Kochi on **29th January 2020**.



### **ROADMAP TO TB ELIMINATION: BUILDING COMMUNITY MODELS-20th of January 2020**

State level Workshop on **ROADMAP TO TB ELIMINATION: BUILDING COMMUNITY MODELS** -organised by State TB Cell in association with WHO and IAPSM Kerala Chapter in academic collaboration with Amrita Institute of Medical Sciences at Dept. of Community Medicine, AIMS, Kochi **20th of January 2020**.



### **Workshop on Roadmap to ' One Health Approach in Ending TB in Kerala on 20<sup>th</sup> February 2020**

Workshop on Roadmap to ' One Health Approach in Ending TB in Kerala' with experts from Animal Husbandry, Forest, Veterinary, Researchers and Beneficiary representatives on **20<sup>th</sup> February 2020**

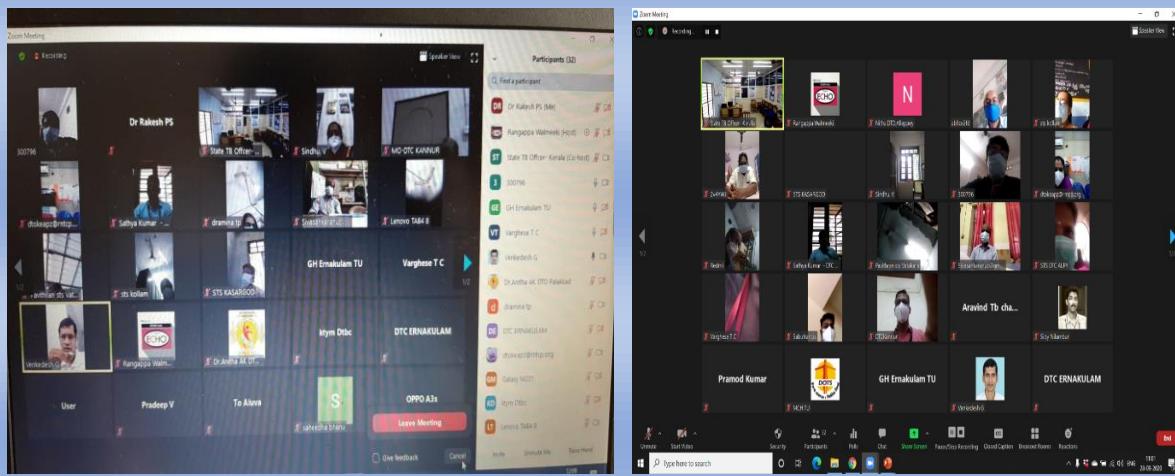


### District TB Tele- Health Helpline numbers

State TB Cell ensure sustained TB diagnostic and care service delivery in the state during COVID-19 pandemic. District Level Helpline numbers made available in all districts to facilitate TB diagnostic services and treatment during Covid 19 situation.

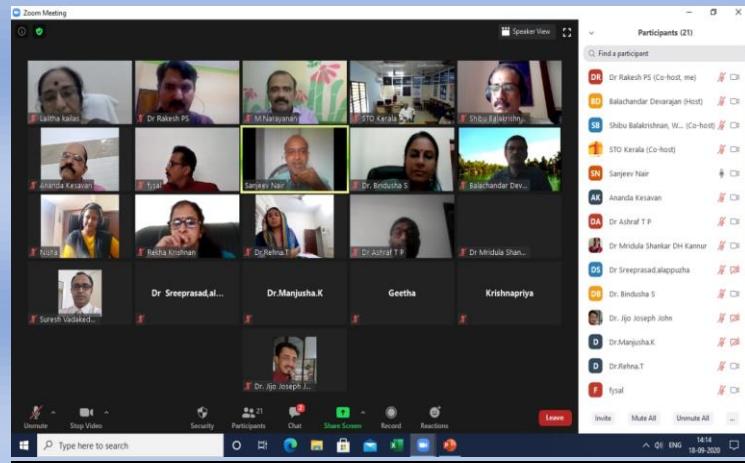
### State TB Forum meeting on 28/09/2020

TB survivors from all districts participated in the meeting. Meeting chaired by Dr.Sunil Kumar. M, State TB Officer, STO had briefed the necessity of District and State TB Forum for participating the Akshaya Keralam Campaign is going to be launched on 2nd October 2020 with an aim to Catch Up the missing TB Cases, if any, in the community. More than 50 participants attended the meeting.



### State level subcommittee for LTBI Working group 18-09-2020

Workshop to finalise the plan for Programmatic Management for LTBI among children and adolescents in Kerala had decided to officially launch the TB Infection management with Test & Treat among children and adolescents on 1<sup>st</sup> Nov 2020.



### **State Medical College NTEP Task Force Meeting held on 13<sup>th</sup> October 2020**

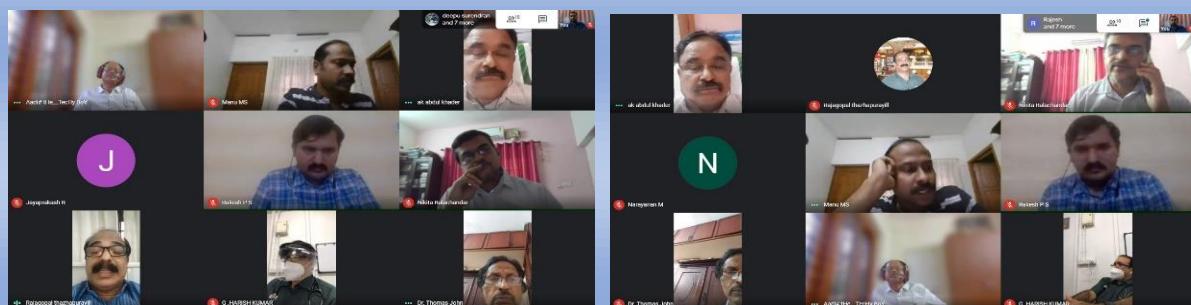
State Medical College NTEP Task Force Meeting was conducted on online platform. The meeting was chaired by Dr Sanjeev Nair -STF Chair, Dr.Sunil Kumar .M ,State TB Officer, Kerala. Dr Pazhanivel, ZTF chair were participated. 44 members participated in the meeting.

**Online meeting with heads of all health sectors (health outposts/ dispensaries/ hospitals) for strengthening TB Services in Kerala on 16<sup>th</sup> October 2020.**



### **STATE COALITION MEETING- 17 October 2020**

5th Meeting of State Coalition of Professional Medical Organisations to Eliminate TB in Kerala 17th October 2020, 5.30 PM. Coalition of Professional Medical Associations for TB free Kerala met under patronage of IMA and chairmanship of APCCM. IAP, QPMPA, API, KGMCTA, Indian Society of Nephrology, Indian Academy of Geriatrics, Indian Psychiatry Society state leaders participated. All associations ensured commitment of members to find out 1500 missing TB cases in Kerala and pledged to make "AKSHAYA KERALAM" a reality.



**Principal Secretary buying TB stamp on 21<sup>th</sup> October 2020 at 11.59.23 AM**



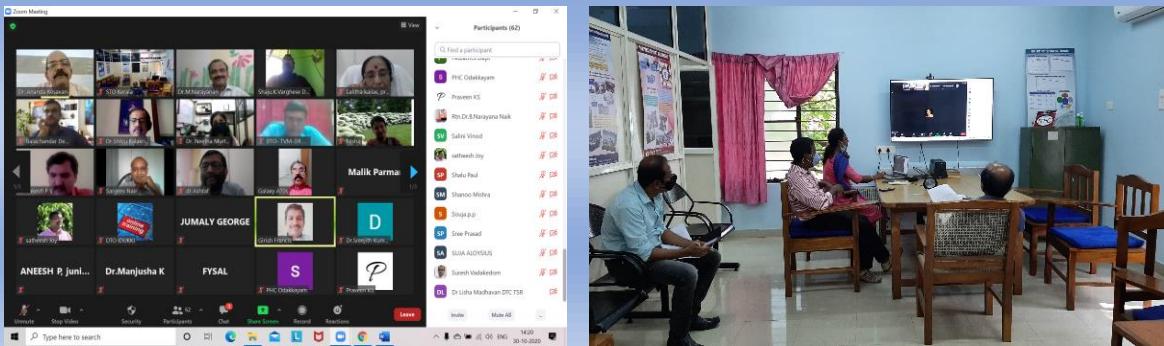
### **Ayush & TB coordination**

India has six recognized medicine systems in this category, namely Ayurveda, Siddha, Unani and Yoga, Naturopathy and Homoeopathy. This review was undertaken to evaluate the efficacy of different drug treatments based on Indian Systems of Traditional Medicines to the standard MDR-TB regimen. This review mainly focuses on the combinational approaches towards treatment protocols, prevention strategies, and management of tuberculosis in different established systems of medicine in India. The findings in this review have provided scientific support for anti-TB activity of different medicinal system of India via numerous underlying mechanisms.

### **Online training for medical officers – AYUSH – NTEP -28 Oct 2020**

The State TB Cell had organized an orientation meeting, in consultation with the State Ayush Department, in newer NTEP testing and treatment modalities on 28.10.2020.

## Training on Programmatic Management of Latent TB Infection, Kerala, India 30 Oct 2020

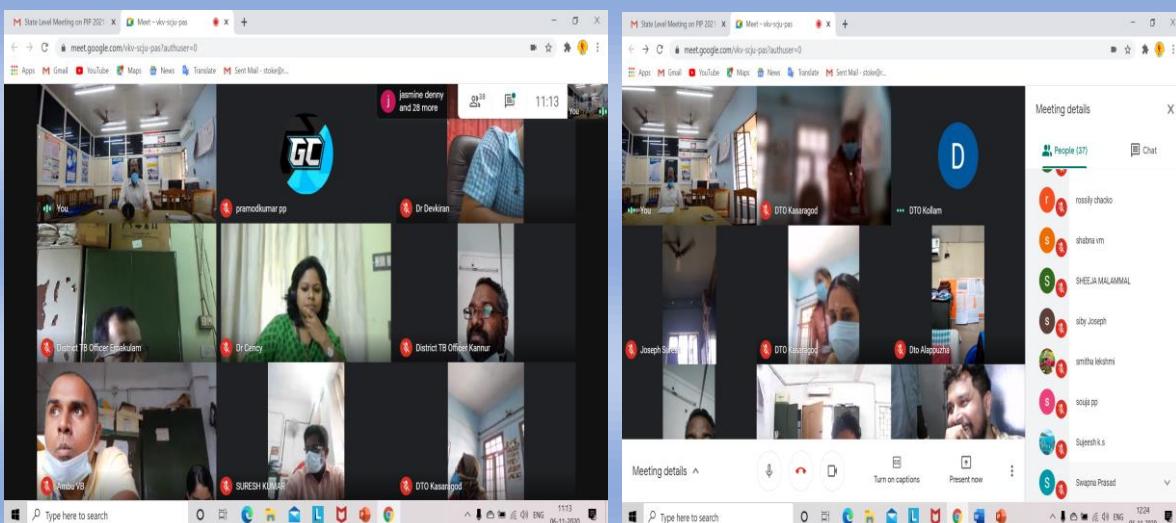


## IAP TB FREE AIR FOR CHILDREN Nov 1 2020

Launch of TB FREE AIR for every child movement by Hon Governor, Kerala in presence of Hon Health Minister, Kerala.



## PIP Meeting 6 Nov 2020



## ADR Meeting 7 Nov 2020

Pharmacovigilance Med Safety Week observance With NTEP, Kerala to assure Drug Safety in TB management



## LTBI Training for STS and STLS on 12th November 2020

LTBI implementation in Kerala state to children and adolescents - State level online training for all STS scheduled on 12th November 2020 at 2.00 PM



## TB Survivors E- booklet release 12 Nov 2020

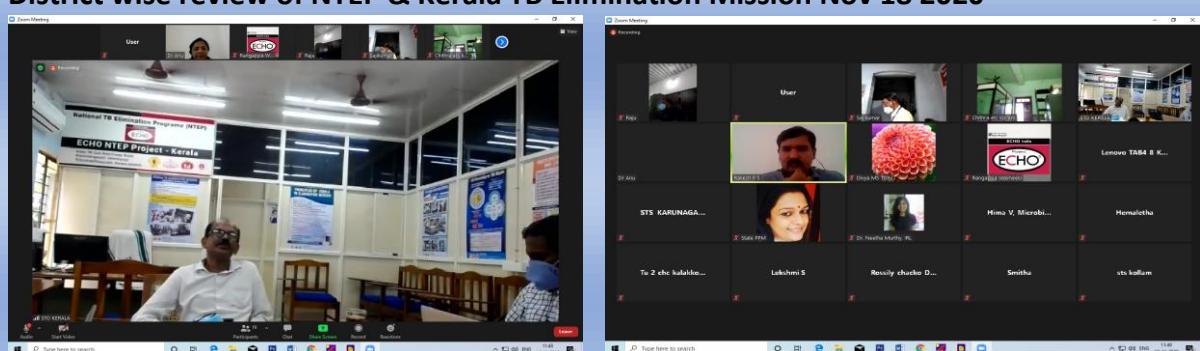
E- booklet prepared by State TB Cell on the experiences of 9 TB Survivors have been compiled as a booklet to be given to all prospective patients and providers- It was released by Mrs Divya Sojan in presence of TB Fighters in Kerala on 12 Nov 2020.



Orientation trainings regarding NTEP, Standards of TB Care in India for MEDICAL OFFICERS of respective central and state health service provider organisations meeting on 17th Nov 2020

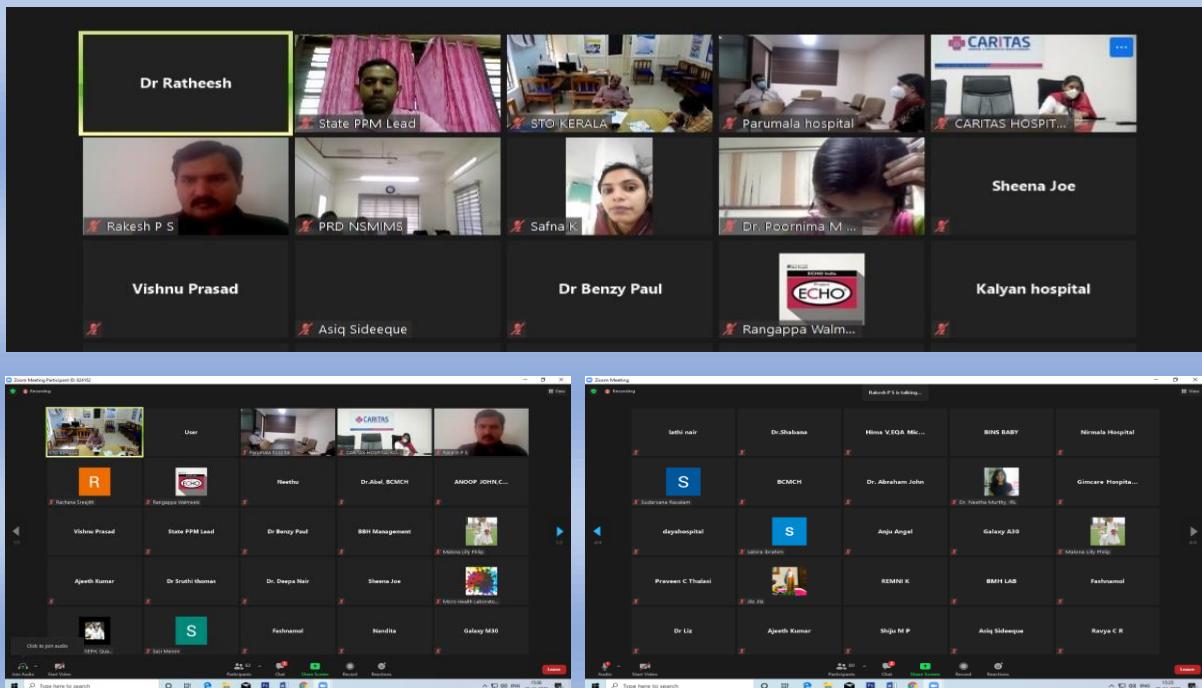


District wise review of NTEP & Kerala TB Elimination Mission Nov 18 2020



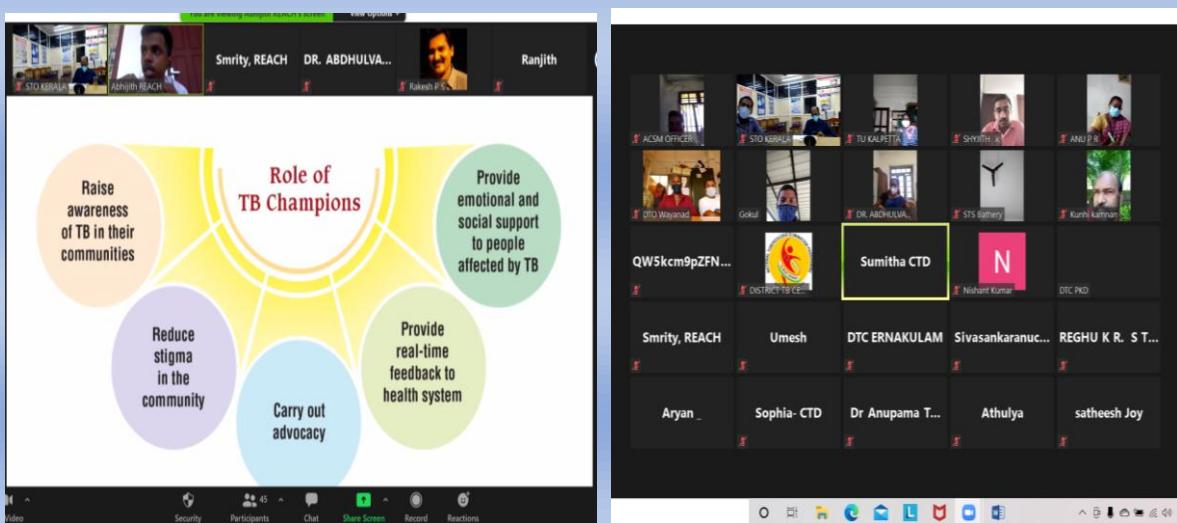
## State level online training for private labs – NTEP 25 November 2020

Consortium of Private Labs for TB Elimination in Kerala met and they decided to scale up services immediately for offering upfront NAAT for TB diagnosis.



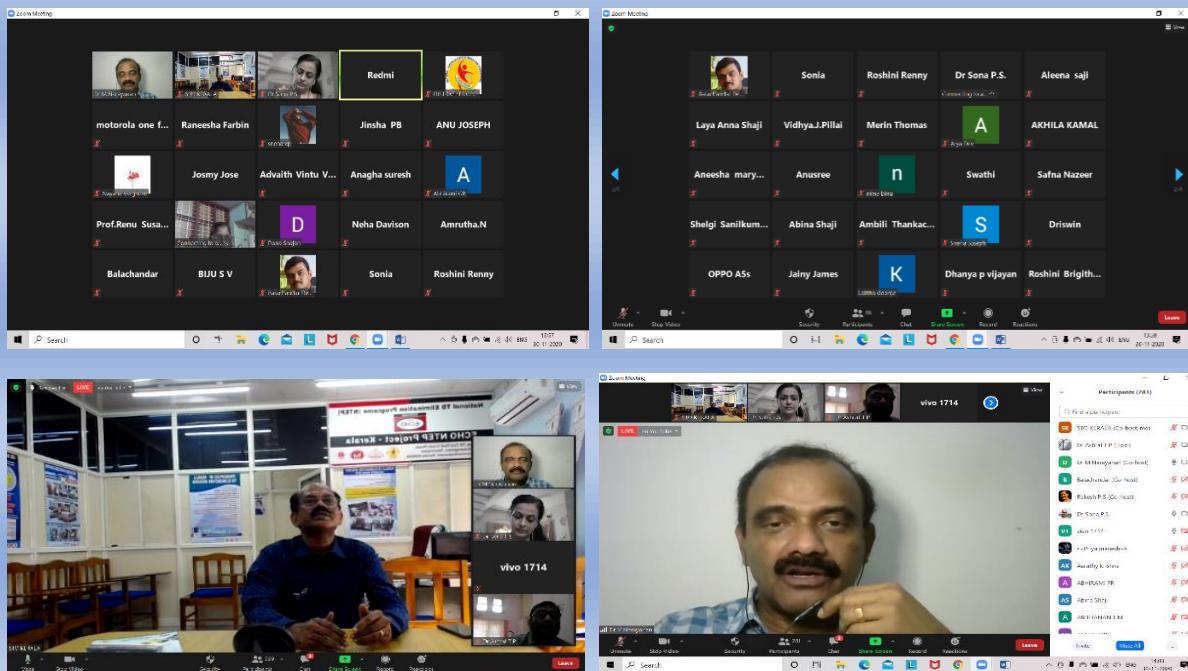
## TB SURVIVORS MEETING ON 30<sup>TH</sup> NOVEMBER 2020

TB survivors from Fourteen Districts in Kerala participated in the State level Training for TB Survivors organized by State TB Cell Kerala on 30<sup>th</sup> November 2020, 10 AM to 12.30 PM through an online platform. The workshop virtually brought together 33 TB Survivors and 15 District officials from fourteen Districts.

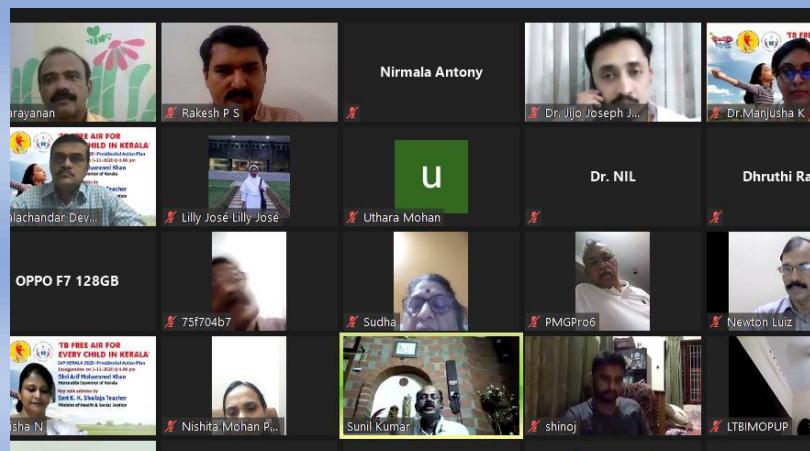


## State level online training for Nurses on 30 November 2020

325 Nurses under the banner of TNAI discussed their role in TB Elimination in Kerala, India on 30 November 2020.



**1000 Practicing Pediatricians in Kerala trained on LTBI management within a week using a 2.5 hour module by 16 Faculties of - Indian Academy of Pediatrics, Kerala Chapter**

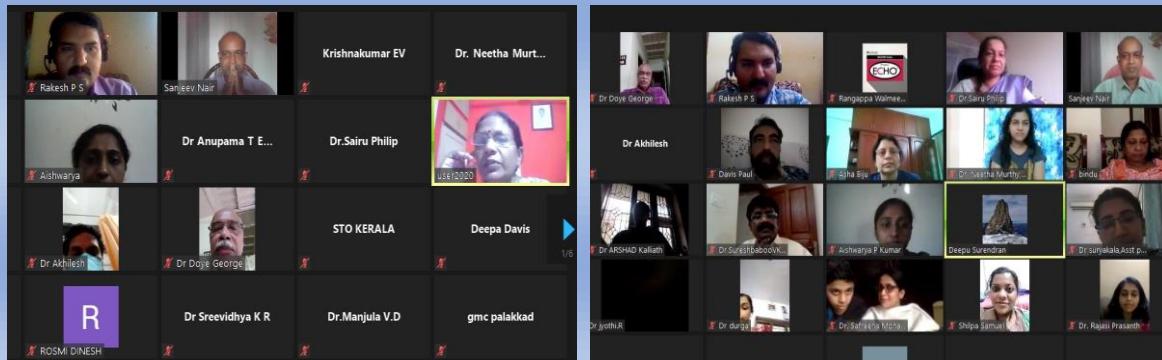


**Pulmonologists under the banner of Academy of Pulmonary and Critical Care Medicine discussing on Latent TB Infection Management in Kerala, India.**

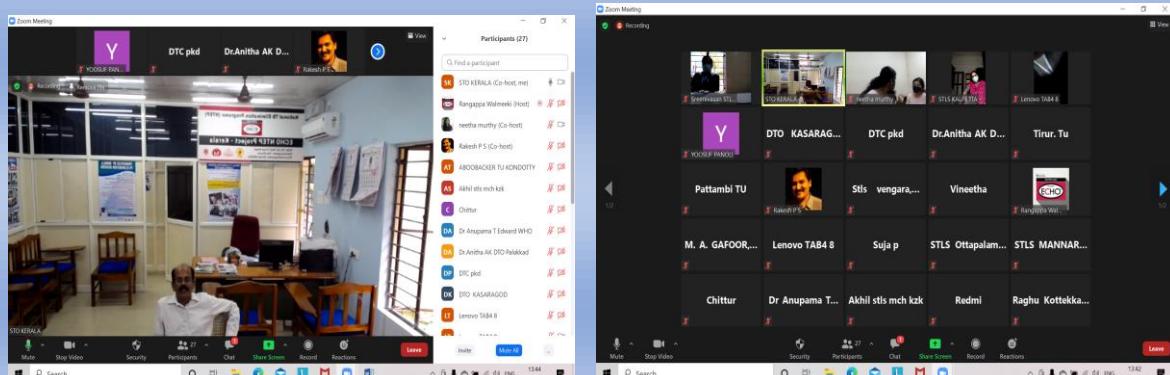


**STF & STDC trained a batch of above 100 faculty from various departments 03/12/2020 to 05/12/2020**

142 Faculty from 31 Medical Colleges in Kerala from Pulmonology, Microbiology, Public Health, Pharmacology and Internal Medicine discussing NTEP under stewardship of State Medical College TB Elimination Task Force and State TB Cell Kerala over 3 days on web on TB Elimination



### STLS review 3 December 2020



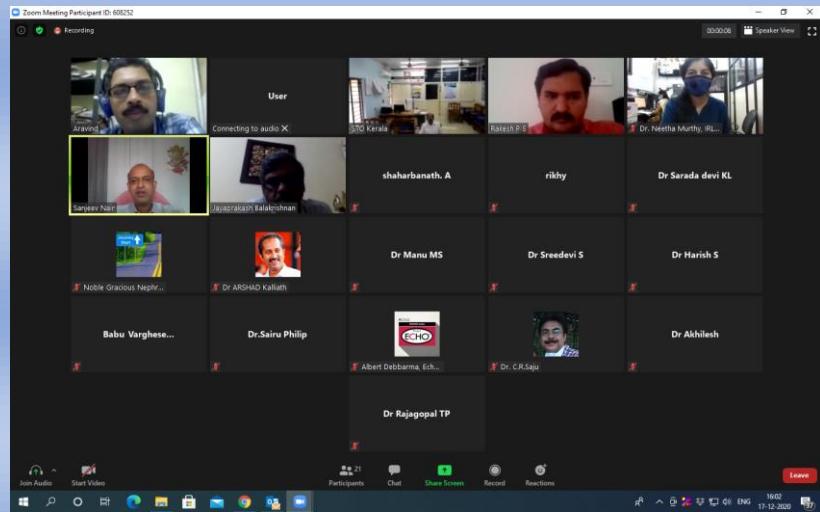
### LTBI Technical working group Management meeting -04.01.2021

The image shows two screenshots of a Zoom meeting. The left screenshot displays a physical meeting room with several people seated around a table, with a camera view of the room overlaid on the screen. The right screenshot shows a standard Zoom participant grid with multiple users visible in their respective video feeds. A table titled "Eligible Individuals for PMTPT" is overlaid on the right-hand screen, listing categories such as "Already Existing", "Phase I", and "Phase II".

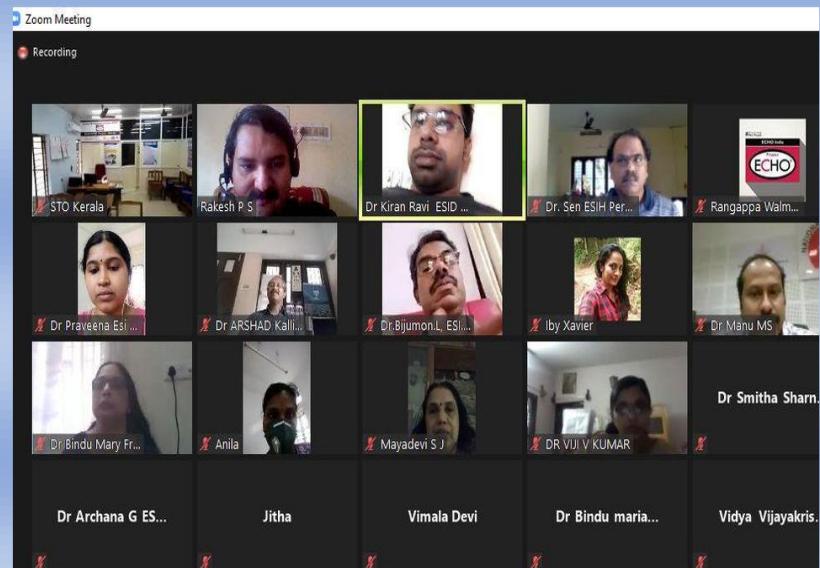
Already Existing	Phase I	Phase II
All PLHIV	Household contacts of Microbiologically confirmed Pulmonary TB	Household contacts of pulmonary TB
	Patients preparing for Solid organ transplant	All patients on haemodialysis/End stage renal disease
Silicosis	GI bypass	
	Immunosuppressive therapy (Biologics/anti TNF/IL6)	Immunosuppressives with other drugs
	Children with haematological malignancy	Vulnerability score above
		HCW with vulnerability
		Severe Undernourished
		Lymphoma with intense

### State LTBI Working Group Training-17-12-2020

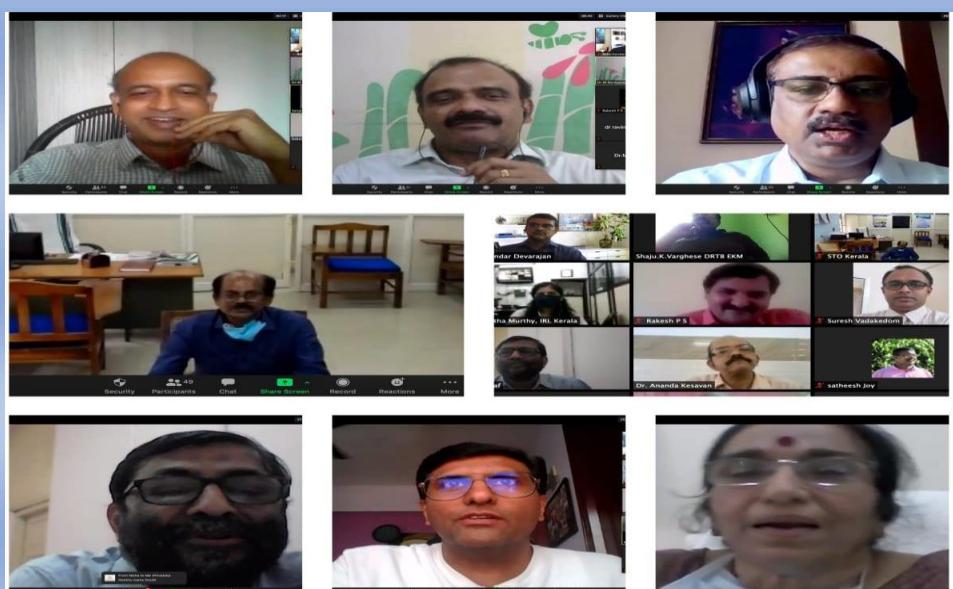
LTBI Technical Working Group with specialists from Pulmonology, Infectious Diseases, Organ Transplantation, Nephrology, Rheumatology, Oncology, Microbiology, Public Health & Program Management- Discussion on PMLTBI among adults



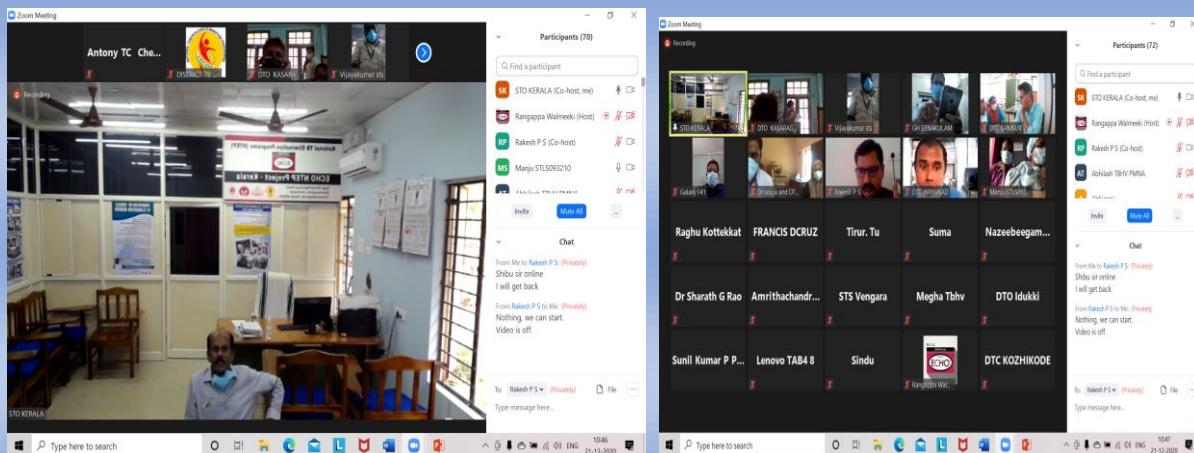
## Discussing TB with Doctors from Insurance Medical Services 17th December 2020



## NTEP LTBI Training for Medical Officers Kerala 18 12 2020



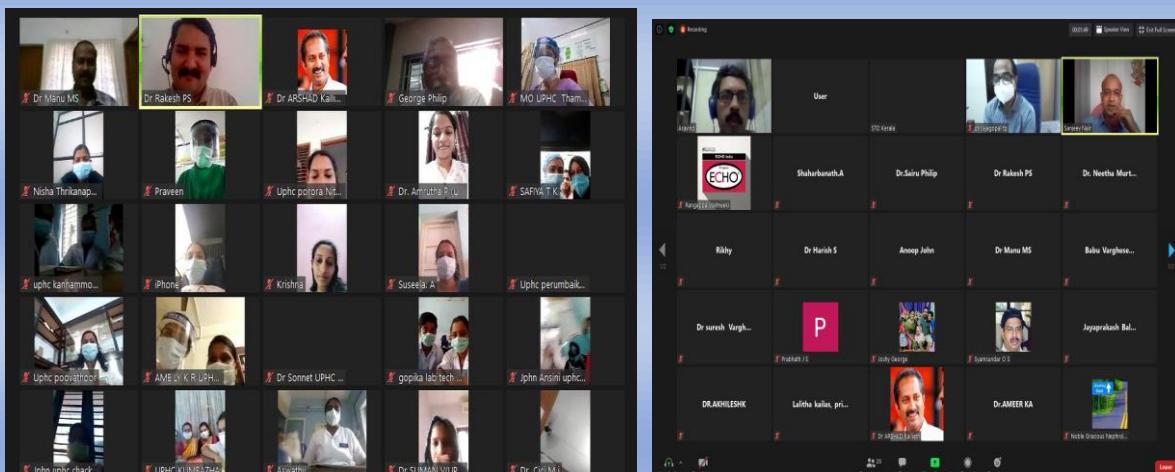
## Akshaya Keralam Review 21 December 2020



## DTO Meeting 27th Jan 2021

	Number
Number of PHIs (Numerator/denominator) where established mechanism for sputum collection & transportation of presumptive TB exists	82 / 82
Number of Truenat/CB NAAT made available to the district from state	1. 8
Out of the above, Number of Truenat/CB NAAT made functional for TB testing in the district	1. 5
Number of PHIs offering upfront molecular tests for vulnerable individuals ? (Numerator and Denominator)	1. 9/82
Total Number of Truenat/CB NAAT in private sector	1. 4 (Caritas, Bharat, Dianova, Mar Sleeva)
Number of Truenat/CB NAAT in private sector performing TB testing	1. 1 (Dianova)
Has all the Truenat/CBNAAT in private sector mapped in NIKSHAY ?	1. 4

## Discussion on strengthening systems at urban areas for TB Elimination- Kerala, India. 28 Dec 2020





## Review of the district's NTEP performance from 25th to 29th January 2021

	Number
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available to the district from state	1. 8
/CB NAAT made functional for TB	1. 5
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private sector	1. 4 (Caritas,Bharat,Dianova,Mar Sleeva)
e sector performing TB testing	1. 1 (Dianova)
e sector mapped in NIKSHAY ?	1. 4

## Online workshop- Training for members of Standing committee on Health and Education 24/2/2021

**Moving towards TB Elimination - A Call for Action-International conference on 4th march 2021**



## World TB Day CME on 21 March 2021 organised by State Tb Cell and State Task Force

The image shows a screenshot of a Zoom video conference interface. On the left, there is a promotional banner for the event. The banner features a blue background with a stylized illustration of lungs and a clock. The text on the banner reads "World TB Day – 2021", "Continuing Medical Education (CME)", "Organised By State TB Cell, Kerala & State Task Force", and "THE CLOCK IS TICKING". Below the banner, it says "on 21.03.2021 9.50 AM to 4.30 PM", "ZOOM ID : 951 1279 4159", and "Password: 2021". The main video frame shows a man with a mustache and glasses wearing a green shirt, speaking into a microphone. In the top right corner of the video frame, there is a small window showing other participants: "ACSM kerala", "DR.RAJAGOPAL.T.P", "Sunil Kumar", and "Sanjeev". At the bottom right of the video frame, there is a message: "Activate Windows Go to Settings to activate Windows." The bottom half of the image shows the Zoom control bar with various icons and participant thumbnails.

## DTOs review 2021 30 MARCH 2021

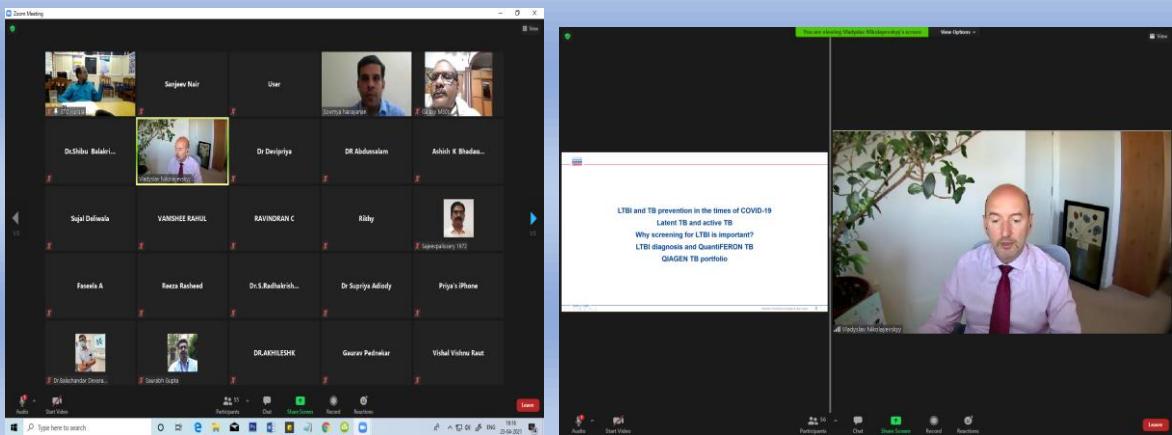


**World TB Day - Kerala First State in India to be certified under subnational TB Free Certification for a 37.5% decline in TB Incidence over 5 years**



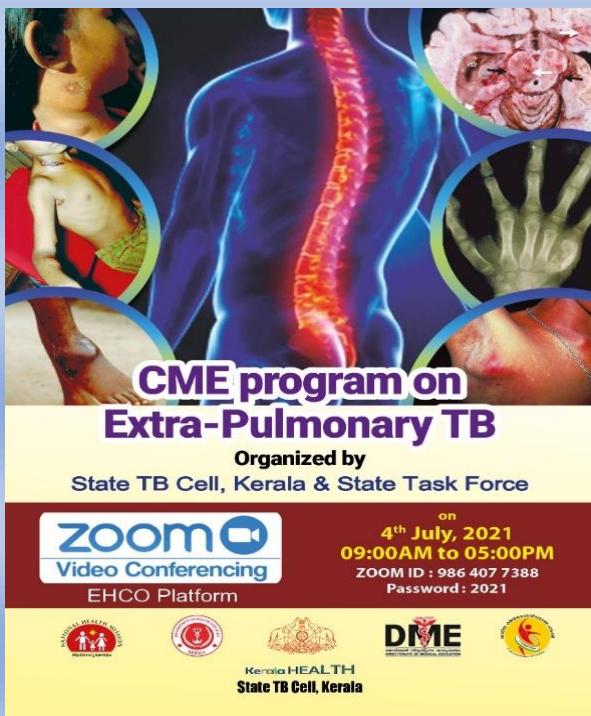
**Continuing Medical Education (CME) on 23rd April 2021**

"Achieving End TB strategy goals through Latent TB testing and TB prevention during COVID-19 pandemic"- CME Organised By State TB Cell, Kerala & QIAGEN On 23rd April 2021

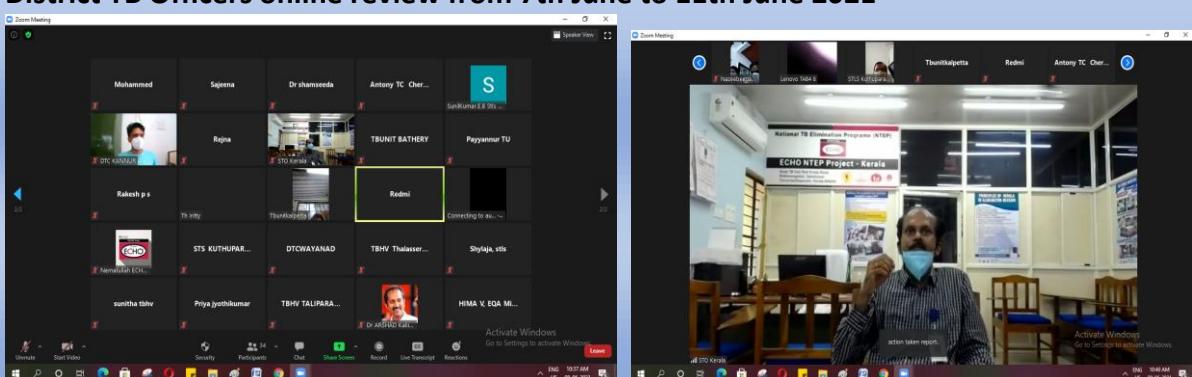


## CME program on Extra-Pulmonary TB Organized by STF Kerala and STC Kerala on 4th July, 2021.

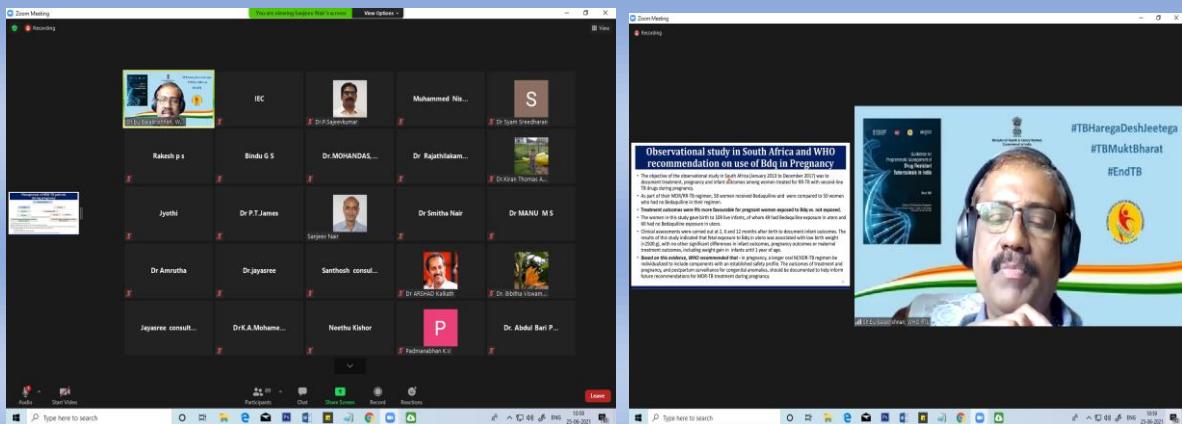
Full day CME on ExtraPulmonary TB- STC & STF- more than 300 doctors from various specialities.



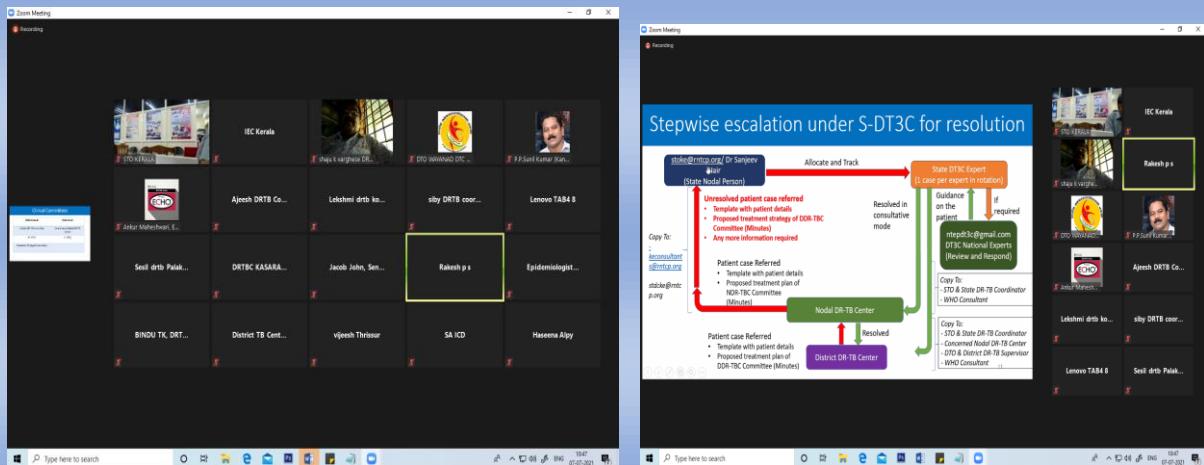
## District TB Officers online review from 7th June to 11th June 2021



## State level PMDT Training for MOs on 24th &25th June 2021

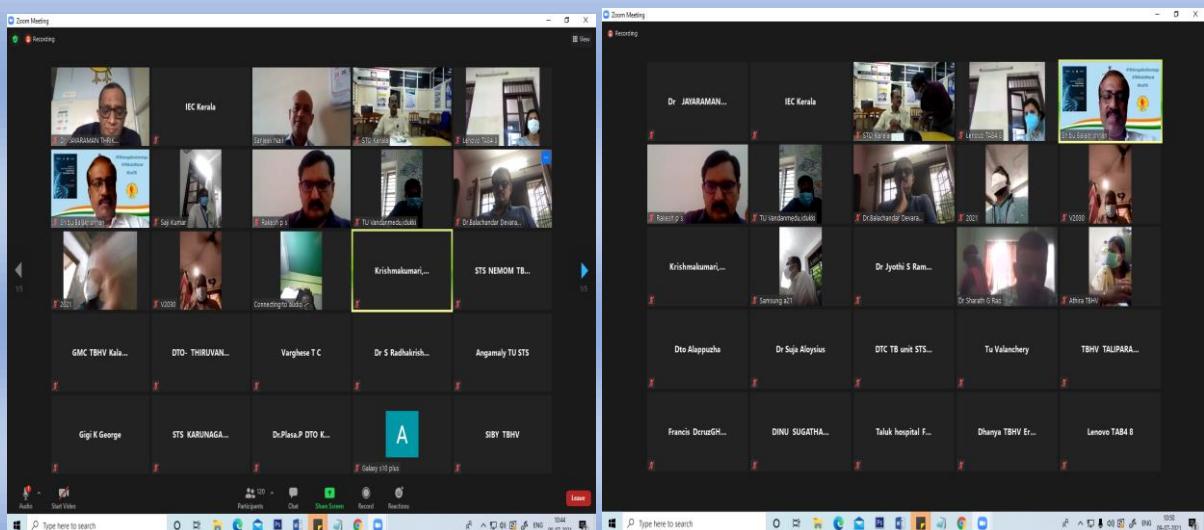


## PMDT Training for DRTB coordinator 07072021

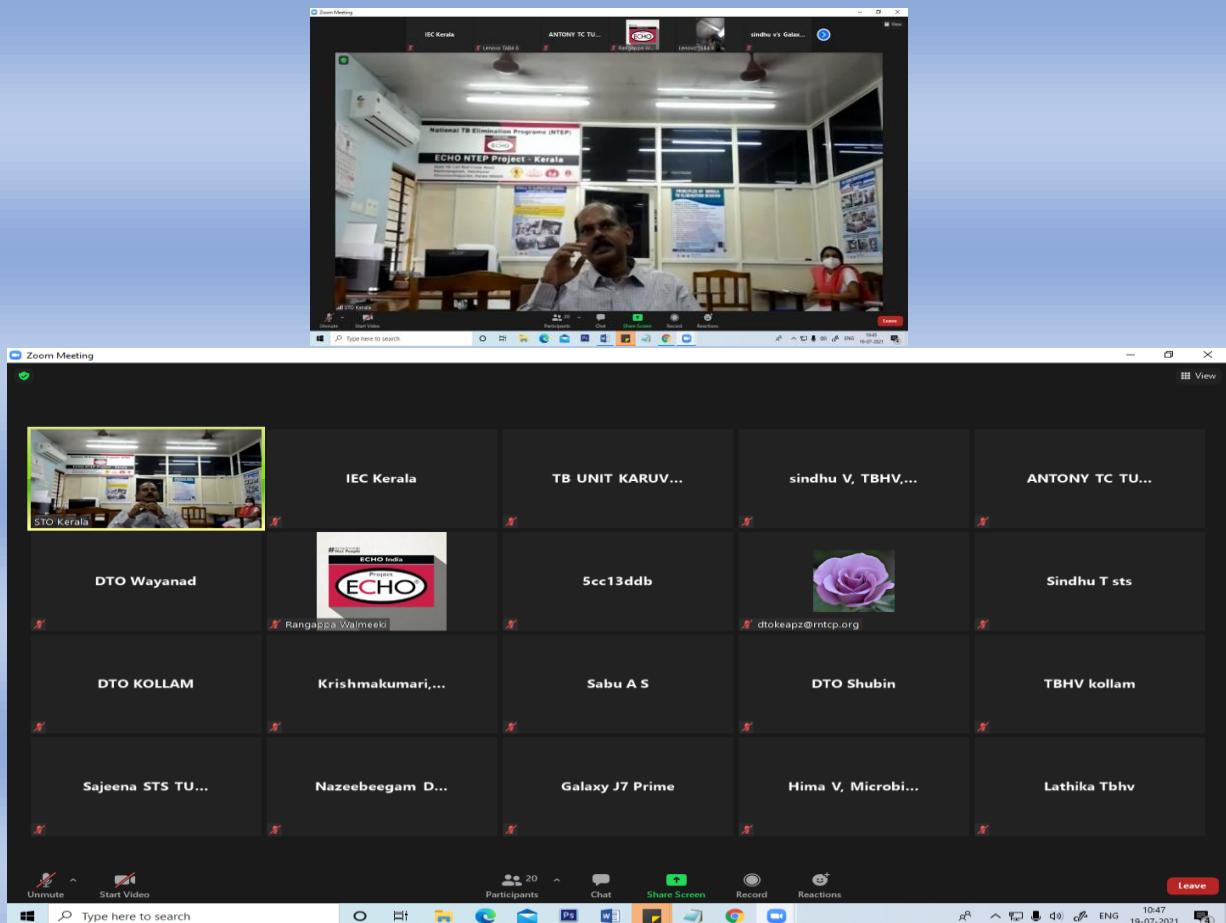


## Review of LTBI 9 July 2021

First Review of Programmatic Management of TB Infection- Kerala. Community has accepted the 'test and treat' approach for programmatic Management of TB Infection



## Review of the district's NTEP performance from 19 th July 2021



## Pride moment for Kerala TB Elimination Programme

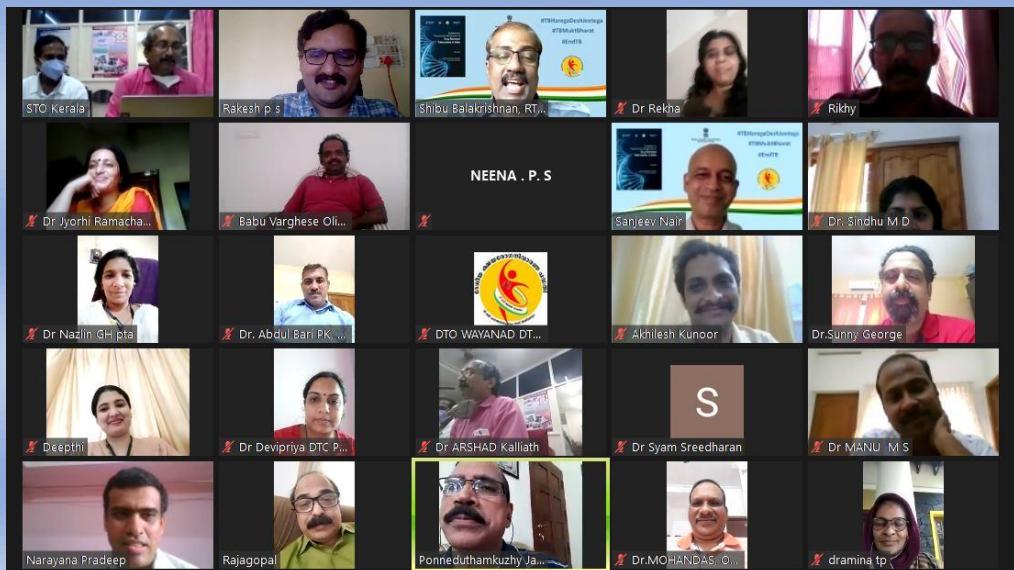
Dr. Matteo Zigno, Team Leader, Research for TB Elimination Team, WHO Global in conversation with Kerala State TB Officer, during USAID Global TBCI Summit.



**Hon Governor about TB Elimination Mission.** Hon Governor conveyed his appreciations to all TB fighters.

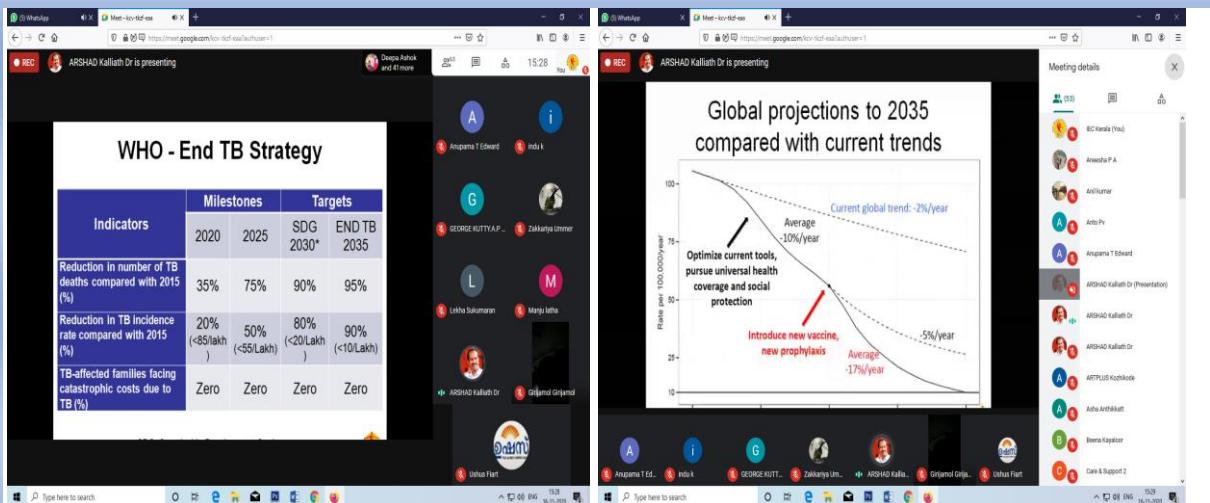


### **Training on Programmatic Management on Drug Resistant TB 2021 – Kerala**



### **TB –HIV Coordination Activities**

**Co-ordinated efforts of National AIDS Control Organization and the National TB Elimination Program are essential to achieve goals of both these national programmes. State TB Cell are working on various activities for this, which includes**



- Periodic review meetings with KSACS to strengthen the ongoing TB- HIV bi-directional screening, TB prophylaxis for all eligible PLHIV and TB management for all co-infected PLHIV.
- In collaboration with KSACS, as part of New India@75, TB awareness campaigns were conducted in schools and colleges' Red Ribbon Clubs in selected districts.
- State TB Cell has also extended its support to KSACS for “SUBHIKSHA Plus: - A program to intensify access to testing and treatment services among the incarcerated populations in all prisons and other closed settings with regard to HIV, TB, STI and Viral Hepatitis” to intensify TB testing and treatment services

#### STEPS (System for Eliminating TB in Private Sector).



STEPS is an initiative to increase TB Notification and follow-up in private sector. STEPS was officially launched on **10/02/2019** during State wise TB Coalition and Consortium ceremony. The Internal committee's to be formed in Private hospitals and other systems for TB Elimination in private sector will be named after STEPS. The concept of STEPS is to avoid stigma for notifying the disease in its presumptive stage itself. And all patients will receive the standards of TB care irrespective of their point of treatment. There are 328 STEPS Centre's are functioning In Kerala.

## **Service Delivery: Effective Implementation of Sample Transportation for Diagnosis and UDST**

To ensure continuous TB diagnostic services, the state has established mechanisms for TB specimen collection and transportation from home / peripheral health institutions (PHIs) to the TB laboratories in all the districts. This includes diagnosis of TB among suspected or confirmed cases of COVID-19. State has effectively implemented TB sample transportation Mechanism by utilizing the manpower and service of ASHAs and NGO's. The transporter assigned to the public and private health institutions for the collection purpose. Incentives for them were fixed depending upon the distance from collection centre to the respective NAAT sites and Sample carrying kits are provided for transportation of specimen and also ensures the timely dispatch of the lab test results on each visit to NAAT site.

Dedicated X ray facilities also have been identified for diagnosis of TB among the later, in all the districts.

There are District level clinical expert committees in every district to support the diagnostic process through tele / direct consultations as per requirement.

