

Zone wise List of Research under Central TB Division

Zone	State	Approved Research/ ongoing Research(2017)	Investigators/Institute	Completed Research in last 3 years	Investigator/ Institute
EAST	JHARKHAND	1. Correlation between TB, Type-2 DM, HIV and oral manifestations	Dr. J.K. Mitra, Associate Prof. Dept. Of Medicine, RIMS Ranchi	1. Assessment of health seeking behaviour and reasons for delay in diagnosis for TB patients in Jharkhand	Dr. (Prof.) Shamim Haider (HOD) & Dr. (Prof.) V. Kashyap, Dept. PSM, RIMS, Ranchi.
		2. Observations on hepatic and oral manifestations of anti-tubercular therapy	Dr. J.K. Mitra, Associate Prof. Dept. Of Medicine, RIMS Ranchi	2. Acceptability of DOTS regimen among tribal predominant population of Jharkhand	Dr. (Prof.) Shamim Haider (HOD) & Dr. (Prof.) V. Kashyap, Dept. PSM, RIMS, Ranchi.
		3. An assessment of the barriers faced by PLHIV (on ART) of Dhanbad, Jharkhand in accessing TB care	Dr. (Prof) Arun Kumar & Dr. Matin A Khan, PMCH Dhanbad		
		4. Association between tuberculosis and diabetes : the emerging dual epidemic	DR. PRANEET ANSAL MUNDU, Dept. Of Medicine, RIMS Ranchi		
	BIHAR	1. Study on private providers perspective on notification of TB.	(Dr. Chittaranjan Roy) Darbhanga Medical College, Darbhanga		
	2. Audio logical monitoring of multidrug resistant tuberculosis patient on aminoglycoside treatment with long term follow up.	J.L.N.M.C.H, Bhagalpur			
	3. Prevalence of Genital Tuberculosis in women with Infertility.	J.L.N.M.C.H, Bhagalpur			

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	West Bengal	1.A study on the relevant factors resulting in MDR/XDR-TB with special reference to psychological status and effect of intervention, while they are on anti-tubercular therapy	Prof Susmita Kundu,R G Kar Medical College , Kolkata	1. A case control study on risk factors of Multi drug resistant TB in few districts of West Bengal	Dr.Anima Halder, Prof. & HOD, Dept. Of Community Medicine, NRSMCH, Kolkata
		2.A System analysis of Revised National Tuberculosis Control Programme(RNTCP)with Logical Framework Approach, in A Block of North 24 Parganas, West Bengal	Dr.Rivu Basu,Department of Community Medicine, R.G.Kar Medical College, Kolkata	2. Tuberculosis among the Child contacts of Adults tuberculosis patients: an exploratory study”	Dr.Arijit Das, Assistant Professor, Dept. Of Paediatrics COM & JNMH, Kalyani, Nadia.
		3.To Study the burden of non Tuberculosis myco-bacterial infection among immune-competent suspected pulmonary and extra pulmonary cases ”	Dr.Nupur Pal, Assistant Professor, Dept. Of Microbiology, IPGMER		
	ODISHA	1.Development of Community strategy to reinforce notification of Tuberculosis cases from private health care providers through interventional approach.	IMS & SUM Hospital, SOA University		
		2.An interventional strategy to improve treatment outcome among Pulmonary TB patients with Alcoholism	RMRC Chandrasekharpur, Bhubaneswar		
		3.Factors promoting multidrug resistance Tuberculosis in Urban Odisha	IMS & SUM Hospital, SOA University		
		4. Effect of SMS reminders on TB Treatment Outcomes: A randomized control study.	VIMSAR Burla		

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WEST	GUJARAT	1.Therapeutic drug monitoring of second line anti tubercular drugs in MDR TB patients	Dept. Of Pharmacology, PDU Medical College. Rajkot	1.Diagnostic and Treatment Protocol Adopted by Private physicians/chest physicians (MD) of Surat City for Drug Resistant Tuberculosis Patients	Dr. Prakash Patel,SMIMER, SURAT
		2.Therapeutic drug monitoring of first line anti tubercular drugs in high risk Cat I and Cat II pulmonary tuberculosis	Dept. Of Pharmacology, PDU Medical College. Rajkot	2. Prevalence of Paediatric TB in patients of different TUs and qualitative & quantitative assessment of the factors influencing the prognosis of paediatric TB in Ahmedabad	Dr. Shital Vyas, AMC MET Medical college, Maninag,Ahmedabad
				3. A study on community based tracking of cured Tuberculosis patients treated at various Designated Microscopy Centre (DMC) of Ahmedabad city. Western INDIA	Dr. Pradeep kumar, GMERS Medical College, Sola
				4.Evaluation of Kumar Raajratna Bhimrao Ambedkar Vaidkiya Sahay Yojana (KRBAVSY) scheme with reference to TB control Programme in Gujarat India	Dr Bhavesh Modi ,GMERS Medical College, Gandhinagar
				5. KAP of government medical officers and paediatricians of Jamnagar district regarding diagnosis, prophylaxis and management of T.B.	Dr K. N. Pandya, MP Shah Govt. Medical College Jamnagar

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	MAHARASHTRA			6. A study on prevalence of initial defaulters among T.B. patients lost during referral and there possible reason for non-initiation of treatment under RNTCP.	Dr. Pradip pithadiyamp Shah Govt. Medical college Jamnagar
		1. What are the risk factors for Unfavourable outcomes in MDR Tuberculosis of patient on DOTS, Pune	B J Govt. Medical College, Pune	1.Spectrum of mycotic infections occurring in TB patients.	Dr. Sarala menonasso. Prof, Dept of Microbiology,Grant Medical College, MUMBAI
		2.Cross sectional study on the health related quality of life in patients who complete treatment pulmonary TB.	Krishana Hospital and Medical Research Centre, Karad, Satara	2.Iron studies, haematological parameters protein, lipid profile vitamin B12, folic ACID and total antioxidant status in patients of tuberculosis	Dr. V. W. Patil,Professor and Head,Department of Biochemistry,Grant Govt Medical College, Mumbai
		3.Identifying early predictors of treatment outcome in TB.	Krishana Hospital and Medical Research Centre, Karad, Satara	3.Active case finding for TB/DRTB in Health Care Workers at NKPSIMS DRTB setting ,Nagpur	Dr B.O.Tayade,NPK SIMS &Lata Mangeshkar Hospital, Nagpur
		4.Tuberculosis case detection in high risk population in context to Migrants.	Krishana Hospital and Medical Research Centre, Karad, Satara	4.Involvement of Private practitioners for detection of additional TB cases treated by private practitioners and tracking of these TB patients according to RNTCP guidelines through existing human resource for health.	Dr S.V Ghorpade,Prof and HOD pulmonaryasso. Prof, Dept of Microbiology,Grant Govt. Medical College, MUMBAI

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		5.Pyrosequencing as a confirmatory tool for detection of rifampicin resistant in cases of silent mutations in the RpoB Gene locus in isolates of M. Tuberculosis	Grant Govt Medical College, Mumbai	5.Study of Prevalence of Diabetes among MDT TB suspects in Nagpur District of Maharashtra.	Dr. Radha Munje,HOD and Head of Dept of Microbiologist,GMC Nagpur
				6. Evaluation of Rapid diagnostic methods in the diagnosis of Extra pulmonary tuberculosis in HIV and non HIV patients	Sujata N Dharmshale, Principal Investigators, Department of Microbiology,
				7.Comparison of induced sputum and bronchoscopy to enhance diagnostic accuracy of pulmonary tuberculosis	Dr Anil Sontakke,NPK Salve Institute of Medical Sciences & RC and Lata Mangeshkar Hospital, Nagpur
				8.Prescription Practices of Tuberculosis in an Urban Health set up in Indian	Dr. Priti .L.Meshram Associate Professor Dept of Pulmonary Medicine, Grant Govt Medical College, Mumbai
				9.Evaluation of Factors in Diagnosis & Treatment including outcome of patients Treated under RNTCP Dots.	Dr. Priti .L. Meshram Associate Professor Dept of Pulmonary Medicine, Grant Govt Medical College, Mumbai
		10.Pyrazinamide drug susceptibility testing in Mycobacterium tuberculosis : Evaluation of a PCR mediated DNA sequencing technique (Genotypic method)	Mrs. Vaishali R.wabaleassistant Professor, Grant Govt Medical College, Mumbai		

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				11. Study of CD4 Cell Counts in Human Immunodeficiency virus negative patients with Tuberculosis	Dr .A.U.Athavale Professor And Head Dept.of Chest Medicine and EPRC,KEM Hospital, Mumbai
				12. Objective Assessment of Drug induced side effects of treatment of drug resistant Tuberculosis under PMDT Programme	Dr.Nilkanth T. Awad Prof. & Head Dept. Of Pulmonary Medicine,LTMMC <MGH Mumbai
				13.Utility of loop-mediated isothermal amplification assay (TB-Lamp0 as a rapid diagnostic tool in detection of M. Tuberculosis in RNTCP	Dr. Nilma Nuruddin hiraniassociate Professor Dept of Microbiology,Grant Govt Medical College, Mumbai
				14. Study of thyroid profile lipid profile oxidative stress in patients with tuberculosis.	Dr V W Patil,HOD Biochemistry,Grant Medical College, Mumbai
				15. Study of dopamine and Gaba status in patients of Tuberculosis.	Dr V W Patil,HOD Biochemistry, Grant Medical college, Mumbai
				16. Study of nutritional status and inflammatory markers in extra-pulmonary TB	Dr M B Tayade, HOD Gen Surg ,Grant Medical College, Mumbai
				17. A study on correlation of tuberculin reactivity with nutritional and BCG status.	Dr. Sunil N. Mhaske,P.D.V.V.P.Fs Medical College and Hospital Vilad ghat Ahmednagar

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				18. Study of Interferon Gamma and Adenosine Deaminase in Diagnosis of tuberculosis pleural effusion.	Dr. Babaji Ghewade, Prof. And HOD Dept. Of Respiratory Medicine, JNMC Wardha
				19. Pyrosequencing a confirmatory tool for detection of rifampicin resistant in cases of silent mutations in the RpoB Gene locus in isolates of M. Tuberculosis	Dr. Nilma Nuruddin Hirani, Associate Professor Dept of Microbiology, Grant Medical College Mumbai
				20. Clinical profile of XDR TB cases admitted in DR-TB Centre Aurangabad	Dr. Mangala Borkar, Prof. And Head, Department of Medicine, GMC Aurangabad
				21. A Multi-centric cross sectional study of bacterial filtration efficacy of multitier system of a novel reusable N95 respirator mask in sputum smear positive respiratory cases	Dr. Rahul Lokhande, Asso. Prof. Dept. Of Pulmonary, Medicine, BJ MC Pune
				22. EPTB-Rapid confirmation with CBNAAT	Dr Jyoti Iravane, Associate Professor, Department of Microbiology, GMC Aurangabad
				23. Overcoming NTM in the PMDT Programme?	Dr Jyoti Iravane, Associate Professor, Department of Microbiology, GMC Aurangabad

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				24. To design and evaluate effectiveness of dry Tissue papers (antimicrobial agent) for daily use for sputum positive patients. A necessity to prevent spread of TB.	Dr. S.R. Parmeshwaran Professor & Head Department of Microbiology, K.J. Somya Medical College, Mumbai
				25. Awareness in sputum positive pulmonary TB cases presenting to tertiary care Centre about cough hygiene and sputum disposal.	Dr. Mangala V. Sonavani (Borkar), Prof. & HOD, Dept of Medicine, GMC Aurangabad
				26. Analysing the follow-up sputum examination of DR-TB patients being done as per RNTCP guidelines.	Dr. Mangala V. Sonavani (Borkar), Prof. & HOD, Dept of Medicine, GMC, Aurangabad
				27. Cross sectional study on the health related quality of life in patients who complete treatment pulmonary TB.	Dr. Vijay D. Nair, Department of Medicine, Krishana Hospital and Medical Research Centre, Karad
				28. Tuberculosis case detection in high risk population in context to Migrants.	Dr. Vaishali Raje, Professor in Dept. Of Community Medicine, Krishana Hospital and Medical Research Centre, Karad

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	MADHYA PRADESH			1. Problems of Female Gender In RNTCP	MGM Indore
				2. Determinants of resolution of lymph nodes in patients of Tuberculous Lymphadenitis receiving ATT.	AIIMS Bhopal
				3. GIS Mapping of MDR Tb cases in 6 Districts of MP	RDGMC Ujjain
				4. Cytokine Profile in pleural fluid and systemic circulation in dual HIV TB Infection	RDGMC Ujjain
NORTH	CHANDIGARH	1. Determination of resistance pattern to second line drugs in multidrug resistant tuberculosis cases and its molecular characterization.”	Dr. Sunil sethi, Prof. , Deptt. Of Medical Microbiology, PGIMER		
		2. “Rapid detection of non-tuberculous mycobacteria by high resolution melting analysis and Geno Type Mycobacterium CM/AS	.” Dr. Sunil sethi, Prof. , Deptt. Of Medical Microbiology , PGIMER		

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	HARYANA	1. Thesis (DM Pulmonary Medicine) by Dr. Sarita Department of PCCM PGIMS Rohtak "Prevalence and effect of increasing clinical exposure on latent tuberculosis infection among medical and non medical student"	PGIMS Rohtak		
	Jammu & Kashmir	1.' An inventory study to assess extent of under reporting of tuberculosis under routine programmatic conditions in Jammu division'	Govt Medical College Jammu		
	DELHI	1." Predictor of short term mortality and morbidity in children with CNS tuberculosis : a cross sectional study"	MAMC		
		2."Utility of moxifloxacin as a treatment option in pre XDR- TB"	AIIMS		
		3."Prognostic value of serum markers in predicting outcome of patients on category II treatment" :	AIIMS		
		4."An observational study to assess causes of mortality among Drug Resistant TB patients in Delhi"	MAMC		
		5. "Partnership in TB Control through involvement of Pharmacists in Delhi":	MAMC		

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		6. "Evaluation of MTBDR plus version 2.0 line probe assay for the detection of Mycobacterium tuberculosis and drug resistance in extra-pulmonary specimens	NITRD		
		7. "Pyrazinamide Resistance in Mycobacterium Tuberculosis isolates from MDR suspects and identification of mutations by sequencing	NITRD		
		8. "Effect of adjuvant Homoeopathic treatment in Multi Drug Resistance Tuberculosis (MDRTB) : Randomized double blind control trial" :	AYUSH		
		9. Role of Nurses in Management of MDR-TB treatment at DR-TB centre	NITRD		
		10. Accelerating TB Notification from the private health sector and improving surveillance of TB patients diagnosed from private laboratories	NDTBC		
		11. "Genotypic mechanism/s of resistance to Bedaquiline":	AIIMS		
		12. Framework for TB care in Prisons	NDTBC		
		13. MDR TB trends in Case Finding and Treatment Outcome in Delhi	MAMC		
		14. Tuberculosis (TB) Intervention Model Targeting Mobile Population of Truckers	MAMC		

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	HIMACHAL PRADESH	1. To compare the sensitivity and specificity of microscopy for AFB using ZN and fluorescent stains in direct and concentrated specimen with culture as gold standard in Dr. RP Govt. Medical College, Kangra at Tanda	DRPGMC Tanda	1. An epidemiological assessment and profiling of EPTB cases under RNTCP in Himachal Pradesh	Dr. AK Bhardwaj,DRPGMC
		2. Variations in plasma levels of first line anti tubercular drugs with thrice weekly regime of RNTCP in the population of Kangra valley region of Himachal Pradesh	DRPGMC Tanda	2. Facility based cohort study to estimate the Risk of coexistence of Tuberculosis and Diabetes Mellitus in Himachal Pradesh, India	Dr. Dinesh Kumar,DRPGMC TANDA
		3. Facility based cohort study to estimate the Risk of coexistence of Tuberculosis and Diabetes Mellitus in Himachal Pradesh, India	DRPGMC Tanda	3. To compare the sensitivity and specificity of microscopy for AFB using ZN and fluorescent stains in direct and concentrated specimen with culture as gold standard in Dr. RP Govt. Medical College, Kangra at Tanda	Dr. Rekha Bansal,DRPGMC ,TANDA
		4. A study of Multi Drug Resistance Tuberculosis and its prevention in district Shimla	IGMC Shimla	4. Variations in plasma levels of first line anti tubercular drugs with thrice weekly regime of RNTCP in the population of Kangra valley region of Himachal Pradesh	Dr. PK Sharma,DRPGMC,TANDA
		5. To study the proportion of Mycobacterium Tuberculosis complex and non Tubercular Mycobacterium among suspected extra pulmonary Tuberculosis cases using FNAC and culture	DRPGMC Tanda		

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		6. Registry of Patients on ATT from Dr. RPGMC Tanda district Kangra	DRPGMC Tanda		
		7. Retrospective evaluation of drug sensitivity patterns with patient outcome in new bacteriologically confirmed cases of Pulmonary Tuberculosis	DRPGMC Tanda		
		8. To study the Role of Interferon- γ Assay in Screening for Latent Tuberculosis in Patients with Rheumatoid Arthritis	DRPGMC Tanda		
		9. Improving the diagnosis of Tuberculosis through optimization of sputum microscopy	DRPGMC Tanda		
		10. A Study of Early versus Late Chest Roentgenogram for Better Yield among Sputum Smear Negative Tuberculosis Patients	DRPGMC Tanda		
		11. Molecular Characterization of Mycobacterium Tuberculosis strains from Kangra district of Himachal Pradesh, India	DRPGMC Tanda		
		12. Effect of mobile based messaging system for improvement in case notification rate at tertiary level medical institutions of Himachal Pradesh.	DRPGMC Tanda		
		13. Role of mobile health on treatment adherence and outcome in newly diagnosed tuberculosis patients : A Cohort Study	IGMC Shimla		

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		14. To study the variability in plasma concentrations of first line antitubercular drugs in patients with secondary drug resistant tuberculosis	DRPGMC Tanda		
		15. To determine the prevalence of cough (of more than 2 weeks duration) among new adult OPD in primary and secondary public health care facilities in District Kangra, HP.	DRPGMC Tanda		
		16. Epidemiological study for recurrence among patients undergoing treatment for Tuberculosis under Revised National Tuberculosis Treatment Program (RNTCP), Una, Himachal Pradesh.	IGMC Shimla		
		17. A study to improve case finding in Tuberculosis by active screening in Haroli block of Una district in Himachal Pradesh	DRPGMC Tanda		
		18. Will sensitizing qualified private practitioners and Ayurveda medical officers improve symptomatic referral and tuberculosis case detection in Bilaspur District, Himachal Pradesh, India	DRPGMC Tanda		
	UTTARAKHAND	1. Effect of Nutritional Status on Pulmonary Tuberculosis patients treatment outcome indicators.	HIHT		

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		2.Study on determinants of rising trend of MDR- TB in Uttarakhand	HIHT		
		3. Study Private Health Care Providers Perspective Regarding TB Notification Under TB Surveillance Programme	HIHT		
		4.Effect of nutritional status on pulmonary tuberculosis patients treatment outcome indicators	HIHT		
	PUNJAB	1.To study the pattern of referrals, case suspicion, diagnosis, treatment, case notification of children (up to fourteen years) with tuberculosis by Paediatricians in five cities of Punjab”	DMC Ludhiana	1. Appraisal of Missed Call Campaign	Dr Jai Kishan , GMC Patiala
				2. Outcome of treatment in Medical Colleges	Dr Jai Kishan ,GMC Patiala
NORTH EAST	MEGHALAYA	1.Comparison of Family versus non family member DOTS provider for tuberculosis in urban areas of Shillong	NEIGRIHMS	1.Missed opportunity to diagnosed pulmonary tuberculosis at a tertiary care hospital	Dr. Star Pala
		2.Patient’s perspective of Treatment of TB in Children in Meghalaya: A Qualitative study	NEIGRIHMS	2. Patients perspective of treatment of TB in children in Meghalaya; A Qualitative Study	Dr Saurav Duwarah
		3. A clinico-bacteriological study of musculoskeletal tuberculosis among the patients attending tertiary health care centre in north-eastern India” (Thesis)	NEIGRIHMS		

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	SIKKIM	1.A study of the status and factors affecting Isoniazide Chemoprophylaxis for paediatric contacts of the smear positive Tuberculosis cases in East Sikkim	SMIMS	Nil	
		2. Burden of Tuberculosis amongst the contacts of Sputum Positive TB patients in East District of Sikkim	SMIMS		
	TRIPURA			1. Detection of MDR-TB using MGIT and MAS PCR in Tripura, India	Dr Tapan Majumdar, AGMC
SOUTH 1	KARNATAKA	1.Nutritional assessment of Tuberculosis patients of Mangalore Tuberculosis Unit	Yenopoya MC, Mangalore	NIL	
		2.A cross-sectional study on health status and Quality of life of MDR-TB patients of Gadag and Koppal districts	GIMS,Gadag		
		3.Assessment of cost incurred by patients undergoing treatment for tuberculosis in urban slum community – a multi centric longitudinal study.	JJM MC, Davangere		
		4.Impact of structured awareness programmes in filling treatment gaps in RNTCP: An interventional study	Sapthagiri MC, Bangalore		
		5. Mobile phone instructional video on sputum expectoration for tuberculosis suspects to enhance case detection: A pragmatic RCT	Yenopoya MC, Mangalore		

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		6. Comparison of TB treatment outcome and adverse reactions among non-diabetic, controlled diabetic and uncontrolled diabetic TB patients	FMMC, Mangalore		
		7.Validation of reporting of adverse drug reactions under pharmacovigilance programme of RNTCP in BBMP area - A mixed method approach	MS Ramaiah MC, Bangalore		
		8. Strategy to Sensitize Private Practitioners on RNTCP through Medical Representative in Urban Slum, Bangalore: An Operational Research	Vydehi MC, Bangalore		
	ANDHRA PRADESH	1.Evaluation of Triton ZN technique for TB meningitis	Guntur Medical college		
	TELANGANA	1.Prospective one year follow up study of all new successfully treated patients under RNTCP in Hyderabad	Apollo Institute of Medical Sciences & Research		
		2.Evaluation of ≤ 6yrs contacts for active TB by CBNAAT of adult Tuberculosis patients and treat them accordingly in Rangareddy district, Telangana state India	Mallareddy Medical College for Women		
		3.A comparative study of treatment status and behaviour of TB patients registered in Govt. Facilities who have experienced private sector diagnosis and treatment	Mallareddy Medical College for Women		

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		4.Study of Impact of Pulmonary and Genital Tuberculosis on Menstrual Pattern of the Women in a Tertiary Care Referral Centre	Mamata Medical College		
		5.Intensive case finding of Tuberculosis & Diabetes Mellitus - Bidirectional screening of patients attending a tertiary teaching hospital in Rural Telangana	Mediciti Institute of Medical Sciences		
		6.Polymorphism of Interferon-gamma and susceptibility to pulmonary tuberculosis	Kamineni Academy of Medical Sciences and Research Centre		
		7.Establish and evaluate different models of sending biological specimen of Presumptive TB patients from select Non DMC Tribal PHCs of Adilabad district to RNTCP labs	Rajiv Gandhi Institute of Medical Sciences		
		8.Early Detection of Drug Resistant Tubercle Bacilli by Fluoresces in Di Acetate (Fda) Vital Staining among Pulmonary Tuberculosis Patients on Treatment in Rangareddy District of Telangana	Nizams Institute of Medical Sciences		
		9.Identification of reasons for mortality among TB patients in Nizamabad district	Government Medical College, Nizamabad		

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SOUTH 2	KERALA	1. Evaluation of Loop mediated isothermal amplification method for the rapid diagnosis of Tuberculosis	AIMS, Kochi	1. Western Blot for Sm-ve TB	Dr. Mercy John Idikula,GMC Ernakulam
		2.Long term outcome of patients with tuberculous meningitis on intermittent anti-tuberculous drugs	Medical College, Thiruvananthapuram.	2. Factors associated with prescription of non-RNTCP Anti-TB drugs by private practitioners practicing RNTCP in Trivandrum city	Dr. Vivek P,Multicentric
	PUDUCHERRY	1. Adverse treatment outcomes and its risk factors among patients registered and treated under RNTCP in Puducherry – A Community based cohort study.	IGMCRI	1.An approach to improve the public visibility of tuberculosis diagnosis and treatment facilities in rural Pondicherry	Dr. G.Kalaiselvan
		2. Adverse treatment outcomes and its risk factors among patients registered and treated under RNTCP in Puducherry – A Community based cohort study.	PIMS		
		3. Adverse treatment outcomes and its risk factors among patients registered and treated under RNTCP in Puducherry – A Community based cohort study.	MGMCRI		
		4. Adverse treatment outcomes and its risk factors among patients registered and treated under RNTCP in Puducherry – A Community based cohort study.	SMVMCH		

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	TAMILNADU	1. Correlation of pulmonary tuberculosis and parasitic infestation with nutritional status in a tertiary care centre	Dept of Microbiology, Sri Sathya Sai Medical College & Research Institute, Kancheepuram,		
		2. Effects of rifampicin with bio-enhancer in the treatment of newly diagnosed sputum positive pulmonary tuberculosis patients	Prof & HOD, Dept of Pulmonary Medicine, Tagore Medical College, Rathinamangalam		
		3.Effectiveness of gene Xpert MTB/RIF assay for the MTB complex in extra pulmonary tuberculosis	Assistant Professor, Dept of Microbiology, PSG Inst of Medical Science and Research, Coimbatore		
		4.Evaluation of contributory factor towards development of MDRTB	Post Graduate, Govt Hospital of Thoracic Medicine, Tambaram , Chennai		