

†

2021 Vol.15(17)



TB ALERT

(a fortnightly publication from NIRT Library)

ICMR-National Institute for Research in Tuberculosis



1. Acharya MP, Pradeep SP, Murthy VS, Chikkannaiah P, Kambar V, Narayanashetty S, et al. CD38+CD27+TNF-alpha + on Mtb-specific CD4+ T Cells Is a Robust Biomarker for Tuberculosis Diagnosis. *Clin Infect Dis.* 2021;73(5):793-801. <https://www.ncbi.nlm.nih.gov/pubmed/34492697>.
2. Ahmed N, Hamid S, Memon MA. Relationship Of Prior Pulmonary Tuberculosis With The Occurrence Of Covid-19 Pneumonia: Review Of 500 Plus HRCT Chest Scans From Two Different Centres Of Sindh, Pakistan. *J Ayub Med Coll Abbottabad.* 2021;33(3):368-75. <https://www.ncbi.nlm.nih.gov/pubmed/34487640>.
3. Akhmetova A, Akilzhanova A, Bismilda V, Chingissova L, Kozhamkulov U. Use of 15 Miru-Vntr Genotyping for Discriminating M. Tuberculosis Clinical Isolates from Kazakhstan. *Georgian Med News.* 2021(316-317):129-35. <https://www.ncbi.nlm.nih.gov/pubmed/34511459>.
4. Al Abdali K, Britton PN, Howard-Jones AR, Kesson AM, Marais BJ. Intra-thoracic tuberculosis lymphadenitis in a child with rheumatic heart disease. *J Paediatr Child Health.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34490935>.
5. Alam MA, Ahmed MN, Khan AH, Arif SM. Metastatic tuberculous abscess: A rare manifestation of cutaneous tuberculosis. *IDCases.* 2021;26:e01257. <https://www.ncbi.nlm.nih.gov/pubmed/34485079>.
6. Alashavi H, Daher M, Chorgoliani D, Saflo M, Zeidan M, Huseyinibrahim F, et al. Descriptive Epidemiology of the Tuberculosis Service Delivery Project Beneficiaries in Northwest Syria: 2019-2020. *Front Public Health.* 2021;9:672114. <https://www.ncbi.nlm.nih.gov/pubmed/34513779>.
7. Alene KA, Wangdi K, Colquhoun S, Chani K, Islam T, Rahevar K, et al. Tuberculosis related disability: a systematic review and meta-analysis. *BMC Med.* 2021;19(1):203. <https://www.ncbi.nlm.nih.gov/pubmed/34496845>.
8. Ali MH, Khan DM, Jamal K, Ahmad Z, Manzoor S, Khan Z. Prediction of Multidrug-Resistant Tuberculosis Using Machine Learning Algorithms in SWAT, Pakistan. *J Healthc Eng.* 2021;2021:2567080. <https://www.ncbi.nlm.nih.gov/pubmed/34512933>.
9. Ali W, Jamal S, Grover A, Grover S. Insights into the mutations leading to capreomycin resistance in S-adenosyl-L-methionine binding motif in TlyA from Mycobacterium tuberculosis. *J Biomol Struct Dyn.* 2021;1-9. <https://www.ncbi.nlm.nih.gov/pubmed/34463210>.
10. Allen R, Calderon M, Moore DAJ, Gaskell KM, Curisinche-Rojas M, Lopez S. Feasibility of a mobile application as a tool for multidrug-resistant tuberculosis contact monitoring in Peru. *Rev Peru Med Exp Salud Publica.* 2021;38(2):272-7. <https://www.ncbi.nlm.nih.gov/pubmed/34468575>.
11. Al-Qattan MM. Tendon Rupture in a Patient with Tuberculosis of the Hand Misdiagnosed as a Recurrent Dorsal Wrist Ganglion. *J Hand Microsurg.* 2021;13(3):202-4. <https://www.ncbi.nlm.nih.gov/pubmed/34511840>.

12. Alsdurf H, Empringham B, Miller C, Zwerling A. Tuberculosis screening costs and cost-effectiveness in high-risk groups: a systematic review. *BMC Infect Dis.* 2021;21(1):935. <https://www.ncbi.nlm.nih.gov/pubmed/34496804>.
13. Altpeter ES, Schmidt AJ. Surveillance of tuberculosis in Switzerland and the Principality of Liechtenstein, 2009 to 2019. *Swiss Med Wkly.* 2021;151:w30032. <https://www.ncbi.nlm.nih.gov/pubmed/34495607>.
14. Andronikou S, Lucas S, Zouvanni A, Goussard P. A proposed CT classification of progressive lung parenchymal injury complicating pediatric lymphobronchial tuberculosis: From reversible to irreversible lung injury. *Pediatr Pulmonol.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34515414>.
15. Anwaierjiang A, Wang Q, Liu H, Yin C, Xu M, Li M, et al. Prevalence and Molecular Characteristics Based on Whole Genome Sequencing of Mycobacterium tuberculosis Resistant to Four Anti-Tuberculosis Drugs from Southern Xinjiang, China. *Infect Drug Resist.* 2021;14:3379-91. <https://www.ncbi.nlm.nih.gov/pubmed/34466004>.
16. Ashraf M, Goh WA, Tan EMX, Nadarajah R. Co-existent abdominoperitoneal tuberculosis with endometrial cancer: A diagnostic and surgical challenge. *Gynecol Oncol Rep.* 2021;37:100848. <https://www.ncbi.nlm.nih.gov/pubmed/34466649>.
17. Auld AF, Kerkhoff AD, Hanifa Y, Wood R, Charalambous S, Liu Y, et al. Derivation and external validation of a risk score for predicting HIV-associated tuberculosis to support case finding and preventive therapy scale-up: A cohort study. *PLoS Med.* 2021;18(9):e1003739. <https://www.ncbi.nlm.nih.gov/pubmed/34491987>.
18. Ayeni FA, Oyetunde OO, Aina BA. The effect of collaborative care on treatment outcomes of newly diagnosed tuberculosis patients with Type-2 diabetes mellitus and adverse drug reaction presentations: A prospective study. *Int J Mycobacteriol.* 2021;10(3):285-92. <https://www.ncbi.nlm.nih.gov/pubmed/34494568>.
19. Bahoua B, Sevdalis SE, Soto AM. Effect of Sequence on the Interactions of Divalent Cations with M-Box Riboswitches from *Mycobacterium tuberculosis* and *Bacillus subtilis*. *Biochemistry.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34472844>.
20. Balakrishnan N, Md Monoto EM, Mohd Tohit N, Abdul Wahab A. Knowledge and perception of treatment among tuberculosis patients attending primary care clinics in Malaysia. *J Infect Dev Ctries.* 2021;15(8):1205-11. <https://www.ncbi.nlm.nih.gov/pubmed/34516430>.
21. Bar-Meir M, Pariente G, Romem A, Wiener-Well Y. Identifying factors affecting latent tuberculosis treatment acceptance among healthcare workers: a retrospective analysis in a tertiary care centre. *BMJ Open.* 2021;11(9):e047444. <https://www.ncbi.nlm.nih.gov/pubmed/34493512>.
22. Bastos ML, Melnychuk L, Campbell JR, Oxладе O, Menzies D. The latent tuberculosis cascade-of-care among people living with HIV: A systematic review and meta-analysis. *PLoS Med.* 2021;18(9):e1003703. <https://www.ncbi.nlm.nih.gov/pubmed/34492003>.

23. Bernard-Raichon L, Colom A, Monard SC, Namouchi A, Cescato M, Garnier H, et al. A Pulmonary Lactobacillus murinus Strain Induces Th17 and RORgammat(+) Regulatory T Cells and Reduces Lung Inflammation in Tuberculosis. *J Immunol*. 2021; <https://www.ncbi.nlm.nih.gov/pubmed/34479945>.
24. Bhatt K, Bhagavathula M, Verma S, Timmins GS, Deretic VP, Ellner JJ, et al. Rapamycin modulates pulmonary pathology in a Murine model of Mycobacterium tuberculosis infection. *Dis Model Mech*. 2021; <https://www.ncbi.nlm.nih.gov/pubmed/34486033>.
25. Bhatti Z, Khan AH, Sulaiman SAS, Laghari M, Ali I. Determining the risk factors associated with delayed sputum conversion at the end of the intensive phase among tuberculosis patients. *East Mediterr Health J*. 2021;27(8):755-63. <https://www.ncbi.nlm.nih.gov/pubmed/34486711>.
26. Bhosale R, Alexander M, Deshpande P, Kulkarni V, Gupte N, Gupta A, et al. Stages of pregnancy and HIV affect diagnosis of tuberculosis infection and Mycobacterium tuberculosis (MTB)-induced immune response: Findings from PRACHITi, a cohort study in Pune, India. *Int J Infect Dis*. 2021; <https://www.ncbi.nlm.nih.gov/pubmed/34517050>.
27. Bigio J, van Gemert W, Kaiser B, Wanig B, Pai M. Asia emerges as a hotbed of diagnostic innovations for tuberculosis. *J Clin Tuberc Other Mycobact Dis*. 2021;25:100267. <https://www.ncbi.nlm.nih.gov/pubmed/34485710>.
28. Bilmumad B, Liabsuetrakul T, Ngamtrairai N, Chongsuvivatwong V. Pulmonary tuberculosis among prisoners in Southern Thailand: prevalence and its association with imprisonment status. *Int J Prison Health*. 2021;ahead-of-print(ahead-of-print). <https://www.ncbi.nlm.nih.gov/pubmed/34464526>.
29. Birda CL, Kumar A, Gupta P, Singh H, Sharma V. Oesophageal Tuberculosis: A Systematic Review Focusing on Clinical Management. *Dysphagia*. 2021; <https://www.ncbi.nlm.nih.gov/pubmed/34482490>.
30. Brenner EP, Hadi SA, Harris B, Robbe-Austerman S, Sreevatsan S. Genome Sequences of Mycobacterium Strains Recovered from Captive Elephants with Tuberculosis. *Microbiol Resour Announc*. 2021;10(36):e0067121. <https://www.ncbi.nlm.nih.gov/pubmed/34498929>.
31. Campbell C, Andersson MI, Ansari MA, Moswela O, Misbah SA, Klenerman P, et al. Risk of Reactivation of Hepatitis B Virus (HBV) and Tuberculosis (TB) and Complications of Hepatitis C Virus (HCV) Following Tocilizumab Therapy: A Systematic Review to Inform Risk Assessment in the COVID-19 Era. *Front Med (Lausanne)*. 2021;8:706482. <https://www.ncbi.nlm.nih.gov/pubmed/34490299>.
32. Cao J, Liu S, Huang J. Risk factor for 31-day unplanned readmission to hospital in patients with pulmonary tuberculosis in China. *Saudi Med J*. 2021;42(9):1017-23. <https://www.ncbi.nlm.nih.gov/pubmed/34470841>.
33. Cao X, Xin H, Zhang H, Liu J, Pan S, Du Y, et al. The Association Between Mycobacteria-Specific Antigen-Induced Cytokines and Host Response to Latent Tuberculosis Infection Treatment in a Chinese Population. *Front Microbiol*. 2021;12:716900. <https://www.ncbi.nlm.nih.gov/pubmed/34484159>.

34. Chang SH, Choe J, Ghandehari S, Chaux GE, Chung AP, Ramzy D, et al. Rapidly Growing Mycobacterium tuberculosis in the Form of Empyema Necessitans: A Case Report. *J Intensive Care Med.* 2021;8850666211044100. <https://www.ncbi.nlm.nih.gov/pubmed/34515566>.
35. Charlie L, Abay SM, Tesfaye A, Mlera RN, Mwango S, Goretti M. Safety and efficacy of high-dose rifampicin in the management of tuberculosis meningitis: Systematic review and meta-analysis. *Int J Mycobacteriol.* 2021;10(3):312-9. <https://www.ncbi.nlm.nih.gov/pubmed/34494572>.
36. Charlie L, Saidi B, Getachew E, Wanjiru CL, Abebe M, Tesfahunei HA, et al. Programmatic challenges in managing multidrug-resistant tuberculosis in Malawi. *Int J Mycobacteriol.* 2021;10(3):255-9. <https://www.ncbi.nlm.nih.gov/pubmed/34494563>.
37. Chatzitaki AT, Mystiridou E, Bouropoulos N, Ritzoulis C, Karavasili C, Fatouros DG. Semi-solid extrusion 3D printing of starch-based soft dosage forms for the treatment of paediatric latent tuberculosis infection. *J Pharm Pharmacol.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34468746>.
38. Chawla R, Venkatesh P, Kumar V, Azad S. Re: Agrawal et al.: Collaborative Ocular Tuberculosis Study Consensus Guidelines on the Management of Tubercular Uveitis-Report 1 (Ophthalmology. 2021;128:266-276). *Ophthalmology.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34503846>.
39. Chemello D, Londero Chemello RM, Jahnke GT. Tuberculosis with multiarticular involvement diagnosed by positive acid-fast staining in synovial fluid: An unusual case report. *Int J Mycobacteriol.* 2021;10(3):338-40. <https://www.ncbi.nlm.nih.gov/pubmed/34494578>.
40. Chen H, Chen Z, Bai N, Yan R, Xu M, Wu W, et al. Construction of a eukaryotic expression system with stable and secretory expression of mycobacterium tuberculosis 38 kDa protein. *World J Microbiol Biotechnol.* 2021;37(10):175. <https://www.ncbi.nlm.nih.gov/pubmed/34519879>.
41. Chen L, Fu X, Tian P, Li Q, Lei D, Peng Z, et al. Upward trends in new, rifampicin-resistant and concurrent extrapulmonary tuberculosis cases in northern Guizhou Province of China. *Sci Rep.* 2021;11(1):18023. <https://www.ncbi.nlm.nih.gov/pubmed/34504296>.
42. Chen Y, Ji L, Liu Q, Li J, Hong C, Jiang Q, et al. Lesion Heterogeneity and Long-Term Heteroresistance in Multidrug-Resistant Tuberculosis. *J Infect Dis.* 2021;224(5):889-93. <https://www.ncbi.nlm.nih.gov/pubmed/34467983>.
43. Chesov E, Chesov D, Maurer FP, Andres S, Utpatel C, Barilar I, et al. Emergence of bedaquiline-resistance in a high-burden country of tuberculosis. *Eur Respir J.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34503982>.
44. Chin KL, Sarmiento ME, Mustapha ZA, Jani J, Jamal NB, Stanis CS, et al. Corrigendum to 'Identification of a mycobacterium tuberculosis-specific gene marker for diagnosis of tuberculosis using semi-nested melt-MAMA qPCR (lprM-MAMA)' [Tuberculosis 125 (2020) 102003]. *Tuberculosis (Edinb).* 2021;130:102121. <https://www.ncbi.nlm.nih.gov/pubmed/34474263>.

45. Chisompola NK, Streicher EM, Dippenaar A, Whitfield MG, Tembo M, Mwanza S, et al. Drug resistant tuberculosis cases from the Copperbelt province and Northern regions of Zambia: Genetic diversity, demographic and clinical characteristics. *Tuberculosis (Edinb)*. 2021;130:102122. <https://www.ncbi.nlm.nih.gov/pubmed/34517268>.
46. Choi H. Nosocomial exposure to tuberculosis: a snapshot of South Korea. *Korean J Intern Med*. 2021;36(5):1061-2. <https://www.ncbi.nlm.nih.gov/pubmed/34503318>.
47. Consalvi S, Venditti G, Zhu J, Boshoff HI, Arora K, De Logu A, et al. 6-Fluorophenylbenzohydrazides inhibit Mycobacterium tuberculosis growth through alteration of tryptophan biosynthesis. *Eur J Med Chem*. 2021;226:113843. <https://www.ncbi.nlm.nih.gov/pubmed/34520959>.
48. Correa-Macedo W, Fava VM, Orlova M, Cassart P, Olivenstein R, Sanz J, et al. Alveolar macrophages from persons living with HIV show impaired epigenetic response to Mycobacterium tuberculosis. *J Clin Invest*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34473646>.
49. Cox H, Furin J. The incalculable costs of tuberculosis. *Lancet Glob Health*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34487684>.
50. Cui Z, Liu J, Chang Y, Lin D, Luo D, Ou J, et al. Interaction analysis of Mycobacterium tuberculosis between the host environment and highly mutated genes from population genetic structure comparison. *Medicine (Baltimore)*. 2021;100(35):e27125. <https://www.ncbi.nlm.nih.gov/pubmed/34477155>.
51. de Vargas KR, Freitas AA, Azeredo ACV, Silva DR. Smoking prevalence and effects on treatment outcomes in patients with tuberculosis. *Rev Assoc Med Bras (1992)*. 2021;67(3):406-10. <https://www.ncbi.nlm.nih.gov/pubmed/34468606>.
52. Deng Y, Duan YF, Gao SP, Wang JM. Comparison of LAMP, GeneXpert, Mycobacterial Culture, Smear Microscopy, TSPOT.TB, TBAg/PHA Ratio for Diagnosis of Pulmonary Tuberculosis. *Curr Med Sci*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34476662>.
53. Devalraju KP, Neela VSK, Krovvidi SS, Vankayalapati R, Valluri VL. Defective expansion and function of memory like natural killer cells in HIV+ individuals with latent tuberculosis infection. *PLoS One*. 2021;16(9):e0257185. <https://www.ncbi.nlm.nih.gov/pubmed/34516566>.
54. Divita KM, Khatik GL. Current perspective of ATP synthase inhibitors in the management of the tuberculosis. *Curr Top Med Chem*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34517802>.
55. Dorjravdan M, Kouda K, Boldoo T, Dambaa N, Sovd T, Nakama C, et al. Correction to: Association between household solid fuel use and tuberculosis: cross-sectional data from the Mongolian National Tuberculosis Prevalence Survey. *Environ Health Prev Med*. 2021;26(1):87. <https://www.ncbi.nlm.nih.gov/pubmed/34493203>.
56. Febi AR, Manu MK, Mohapatra AK, Praharaj SK, Guddattu V. Psychological stress and health-related quality of life among tuberculosis patients: a prospective cohort study. *ERJ Open Res*. 2021;7(3). <https://www.ncbi.nlm.nih.gov/pubmed/34476253>.

57. Feng G, Han W, Shi J, Xia R, Xu J. Analysis of the application of a gene chip method for detecting *Mycobacterium tuberculosis* drug resistance in clinical specimens: a retrospective study. *Sci Rep.* 2021;11(1):17951. <https://www.ncbi.nlm.nih.gov/pubmed/34504243>.
58. Ferjani HL, Ammar LB, Maatallah K, Sallem S, Bellaaj A, Kaffel D, et al. A rare condition of chest wall swelling: the sternoclavicular tuberculosis. *Clin Rheumatol.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34505965>.
59. Fernandez Zamora Y, Peixoto Finamor L, LM PS, Rodrigues DS, Casaroli-Marano RP, Muccioli C. Clinical features and management of presumed ocular tuberculosis: A long-term follow-up cohort study in a tertiary referral center in Brazil. *Eur J Ophthalmol.* 2021;11206721211044624. <https://www.ncbi.nlm.nih.gov/pubmed/34482752>.
60. Fung WW, Chow KM, Li PK, Szeto CC. Clinical course of peritoneal dialysis-related peritonitis due to non-tuberculosis mycobacterium - A single centre experience spanning 20 years. *Perit Dial Int.* 2021;8968608211042434. <https://www.ncbi.nlm.nih.gov/pubmed/34477027>.
61. Gai X, Chi H, Cao W, Zeng L, Chen L, Zhang W, et al. Acute miliary tuberculosis in pregnancy after in vitro fertilization and embryo transfer: a report of seven cases. *BMC Infect Dis.* 2021;21(1):913. <https://www.ncbi.nlm.nih.gov/pubmed/34488670>.
62. Gaida R, Truter I, Peters CA. Adverse effects of bedaquiline in patients with extensively drug-resistant tuberculosis. *S Afr J Infect Dis.* 2020;35(1):23. <https://www.ncbi.nlm.nih.gov/pubmed/34485463>.
63. Gallucci G, Santucci N, Diaz A, Bongiovanni B, Bertola D, Gardenez W, et al. Increased levels of circulating LPS during Tuberculosis prevails in patients with advanced pulmonary involvement. *PLoS One.* 2021;16(9):e0257214. <https://www.ncbi.nlm.nih.gov/pubmed/34506568>.
64. Garg B, Mehta N, Mukherjee RN, Swamy AM, Siamwala BS, Malik G. Epidemiological Insights from 1,652 Patients with Spinal Tuberculosis Managed at a Single Center: A Retrospective Review of 5-Year Data. *Asian Spine J.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34461687>.
65. Gautam R, Shrestha G, Phuyal P. Childhood Tuberculosis: An Under Prioritized Disease in Nepal. *JNMA J Nepal Med Assoc.* 2021;59(234):217-9. <https://www.ncbi.nlm.nih.gov/pubmed/34506467>.
66. Gengiah S, Barker PM, Yende-Zuma N, Mbatha M, Naidoo S, Taylor M, et al. A cluster-randomized controlled trial to improve the quality of integrated HIV-tuberculosis services in primary healthcareclinics in South Africa. *J Int AIDS Soc.* 2021;24(9):e25803. <https://www.ncbi.nlm.nih.gov/pubmed/34498370>.
67. Getie B, Ayalew G, Amsalu A, Ferede G, Yismaw G, Tessema B. Seroprevalence and Associated Factors of Hepatitis B and C Virus Among Pulmonary Tuberculosis Patients Attending Health Facilities in Gondar Town, Northwest Ethiopia. *Infect Drug Resist.* 2021;14:3599-608. <https://www.ncbi.nlm.nih.gov/pubmed/34511951>.

68. Goosen WJ, Kleynhans L, Kerr TJ, van Helden PD, Buss P, Warren RM, et al. Improved detection of *Mycobacterium tuberculosis* and *M. bovis* in African wildlife samples using cationic peptide decontamination and mycobacterial culture supplementation. *J Vet Diagn Invest.* 2021;10406387211044192. <https://www.ncbi.nlm.nih.gov/pubmed/34510986>.
69. Goyal N, Ahuja K, Yadav G, Gupta T, Iftekhar S, Kandwal P. PEEK vs Titanium Cage for Anterior Column Reconstruction in Active Spinal Tuberculosis: A Comparative Study. *Neurol India.* 2021;69(4):966-72. <https://www.ncbi.nlm.nih.gov/pubmed/34507423>.
70. Gronningen E, Nanyaro M, Sviland L, Ngadaya E, Muller W, Torres L, et al. MPT64 antigen detection test improves diagnosis of pediatric extrapulmonary tuberculosis in Mbeya, Tanzania. *Sci Rep.* 2021;11(1):17540. <https://www.ncbi.nlm.nih.gov/pubmed/34475471>.
71. Groschel MI, Owens M, Freschi L, Vargas R, Jr., Marin MG, Phelan J, et al. GenTB: A user-friendly genome-based predictor for tuberculosis resistance powered by machine learning. *Genome Med.* 2021;13(1):138. <https://www.ncbi.nlm.nih.gov/pubmed/34461978>.
72. Habib SS, Asad Zaidi SM, Jamal WZ, Azeemi KS, Khan S, Khowaja S, et al. Gender-based differences in community-wide screening for pulmonary tuberculosis in Karachi, Pakistan: an observational study of 311 732 individuals undergoing screening. *Thorax.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34510015>.
73. Han J, Yuan L, Li J, Liang C, Zhang D, Mei Z. Transbronchial tuberculosis cavity plugging therapy for pulmonary tuberculosis. *J Int Med Res.* 2021;49(8):3000605211035889. <https://www.ncbi.nlm.nih.gov/pubmed/34463564>.
74. Haseeb S, Bilal MI, Bokhari SA, Mirza RT, Riyaz S. Pancreatic Tuberculosis: A Diagnostic Dilemma. *Cureus.* 2021;13(7):e16734. <https://www.ncbi.nlm.nih.gov/pubmed/34471581>.
75. Hayford FEA, Dolman RC, Ozturk M, Nienaber A, Ricci C, Loots DT, et al. Adjunct n-3 Long-Chain Polyunsaturated Fatty Acid Treatment in Tuberculosis Reduces Inflammation and Improves Anemia of Infection More in C3HeB/FeJ Mice With Low n-3 Fatty Acid Status Than Sufficient n-3 Fatty Acid Status. *Front Nutr.* 2021;8:695452. <https://www.ncbi.nlm.nih.gov/pubmed/34504860>.
76. Heffernan C, Rowe BH, Long R. Engaging frontline providers: an important key to eliminating tuberculosis in Canada, and other high-income countries. *Can J Public Health.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34515944>.
77. Herawati F, Fahmi EY, Pratiwi NA, Ramdani D, Jaelani AK, Yulia R, et al. Oral anti-tuberculosis drugs: An urgent medication reconciliation at hospitals in Indonesia. *J Public Health Res.* 2021;10(3). <https://www.ncbi.nlm.nih.gov/pubmed/34463088>.
78. Ho CS, Feng PI, Narita M, Stout JE, Chen M, Pasopella L, et al. Comparison of three tests for latent tuberculosis infection in high-risk people in the USA: an observational cohort study. *Lancet Infect Dis.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34499863>.

79. Hoel IM, Ali IAM, Ishtiaq S, Sviland L, Wiker H, Mustafa T. Immunochemistry-Based Diagnosis of Extrapulmonary Tuberculosis: A Strategy for Large-Scale Production of MPT64-Antibodies for Use in the MPT64 Antigen Detection Test. *Antibodies (Basel)*. 2021;10(3). <https://www.ncbi.nlm.nih.gov/pubmed/34462410>.
80. Hussien B, Ameni G. A Cross-sectional Study on the Magnitude of undernutrition in Tuberculosis Patients in the Oromia Region of Ethiopia. *J Multidiscip Healthc*. 2021;14:2421-8. <https://www.ncbi.nlm.nih.gov/pubmed/34511925>.
81. Ihsan Muttaqin M, Stephanie F, Saragih M, Friend Tambunan US. Epitope-Based Vaccine Design for Tuberculosis HIV Infection Through in silico Approach. *Pak J Biol Sci*. 2021;24(7):765-72. <https://www.ncbi.nlm.nih.gov/pubmed/34486295>.
82. Isralls S, Baisley K, Ngam E, Grant AD, Millard J. QT Interval Prolongation in People Treated With Bedaquiline for Drug-Resistant Tuberculosis Under Programmatic Conditions: A Retrospective Cohort Study. *Open Forum Infect Dis*. 2021;8(8):ofab413. <https://www.ncbi.nlm.nih.gov/pubmed/34466629>.
83. Jacob AG, Koshy JM, Deodhar D, John M. Peripheral Gangrene Associated with Disseminated Tuberculosis - a Rare Manifestation. *J Assoc Physicians India*. 2021;69(8):11-2. <https://www.ncbi.nlm.nih.gov/pubmed/34472816>.
84. Jamani NA, Mohd Nor FH, Yatim Y. It is tuberculosis or melioidosis? A clinical diagnostic dilemma. *Med J Malaysia*. 2021;76(5):734-6. <https://www.ncbi.nlm.nih.gov/pubmed/34508384>.
85. Jana N, Arora N, Tripathi SK. Re: Multidrug-resistant tuberculosis during pregnancy and adverse birth outcomes: a systematic review and meta-analysis: Practice-embedded research to address knowledge gaps in multidrug-resistant tuberculosis in pregnancy. *BJOG*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34490969>.
86. Jia D, Li H, Xu Y. Awareness and Mental Health of Male Drug Addicts With Tuberculosis During the COVID-19 Pandemic. *Front Psychiatry*. 2021;12:697508. <https://www.ncbi.nlm.nih.gov/pubmed/34483992>.
87. Jia J, Chen D, Liu L, Siddiqui MJ, Yang F, Zhu Y, et al. Prevalence of Latent Tuberculosis Infection Among Healthy Young Children and Adolescents and a Two-step Approach for the Diagnosis of Tuberculosis Infection in Chengdu, China. *Pediatr Infect Dis J*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34508026>.
88. Jo Y, Kaguje M, Johnson K, Dowdy D, Hangoma P, Chiliukutu L, et al. Costs and cost-effectiveness of a comprehensive tuberculosis case finding strategy in Zambia. *PLoS One*. 2021;16(9):e0256531. <https://www.ncbi.nlm.nih.gov/pubmed/34499668>.
89. Kaisinova A, Gerbekova D, Gusova B, Morozova T. [Assessment of Efficacy of New Methods of Sanatorium-Spa Treatment in Patients with Focal Pulmonary Tuberculosis against the Dynamics of Quality of Life Indicators]. *Georgian Med News*. 2021(316-317):124-8. <https://www.ncbi.nlm.nih.gov/pubmed/34511458>.

90. Kakalou C, Polychronidou E, Drosou V, Dimitriadis VK, Dermaris T, Kordonias R, et al. RiskRadar: development and pilot results of a technical intervention targeting combination prevention regarding HIV, viral hepatitis, sexually transmitted infections and tuberculosis. *BMC Infect Dis.* 2021;21(Suppl 2):866. <https://www.ncbi.nlm.nih.gov/pubmed/34517826>.
91. Kaneshamoorthy K, Dissanayake MB. Prediction of treatment failure of tuberculosis using support vector machine with genetic algorithm. *Int J Mycobacteriol.* 2021;10(3):279-84. <https://www.ncbi.nlm.nih.gov/pubmed/34494567>.
92. Kang Y, Mok J. Treatment Outcomes of Patients with Multidrug-resistant Tuberculosis: Concern to Bedaquiline - Authors' reply. *Tuberc Respir Dis (Seoul).* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34510868>.
93. Kaur B, Kaur D, Gupta M, Agrawal N, Lehl SS. Concomitant disseminated tuberculosis and lepromatous leprosy in a previously healthy male. *Int J Mycobacteriol.* 2021;10(3):330-4. <https://www.ncbi.nlm.nih.gov/pubmed/34494576>.
94. Kaur H, Singh D, Pandhi N. Co-existence of pulmonary tuberculosis with sarcoidosis. *Int J Mycobacteriol.* 2021;10(3):341-3. <https://www.ncbi.nlm.nih.gov/pubmed/34494579>.
95. Keikha M, Majidzadeh M. Beijing genotype of *Mycobacterium tuberculosis* is associated with extensively drug-resistant tuberculosis: A global analysis. *New Microbes New Infect.* 2021;43:100921. <https://www.ncbi.nlm.nih.gov/pubmed/34466269>.
96. Kerkhoff AD, Kaguje M, Nyangu S, Mateyo K, Sanjase N, Chilukutu L, et al. Pathways to care and preferences for improving tuberculosis services among tuberculosis patients in Zambia: A discrete choice experiment. *PLoS One.* 2021;16(8):e0252095. <https://www.ncbi.nlm.nih.gov/pubmed/34464392>.
97. Khairnar DR, Markad S. Socio-psychological Effects on Tuberculosis Patients from Maharashtra, India. *J Assoc Physicians India.* 2021;69(8):11-2. <https://www.ncbi.nlm.nih.gov/pubmed/34472801>.
98. Khan A, Sayedahmed EE, Singh VK, Mishra A, Dorta-Estremera S, Nookala S, et al. A recombinant bovine adenoviral mucosal vaccine expressing mycobacterial antigen-85B generates robust protection against tuberculosis in mice. *Cell Rep Med.* 2021;2(8):100372. <https://www.ncbi.nlm.nih.gov/pubmed/34467249>.
99. Khezami K, Bennour MA, Bassalah E, Lahssini W, Brahim NB, Annabi H. Primary patella tuberculosis mimicking pre-patellar bursitis: A case report and review of the literature. *Int J Surg Case Rep.* 2021;86:106367. <https://www.ncbi.nlm.nih.gov/pubmed/34507199>.
100. Kholtobin DP, Shevchenko SY, Kulchavanya EV. [Surgical treatment of patients with renal tuberculosis, complicated by ureteral tuberculosis]. *Urologiiia.* 2021(4):93-6. <https://www.ncbi.nlm.nih.gov/pubmed/34486281>.
101. Kigozi G. Confirmatory factor analysis of the Patient Health Questionnaire-9: A study amongst tuberculosis patients in the Free State province. *S Afr J Infect Dis.* 2020;35(1):242. <https://www.ncbi.nlm.nih.gov/pubmed/34485486>.

102. Kim HW, Min J, Choi JY, Shin AY, Myong JP, Lee Y, et al. Latent Tuberculosis Infection Screening and Treatment in Congregate Settings (TB FREE COREA): Demographic Profiles of Interferon-Gamma Release Assay Cohort. *J Korean Med Sci*. 2021;36(36):e246. <https://www.ncbi.nlm.nih.gov/pubmed/34519187>.
103. Konbaz FM, Alassiri SS, Al Eissa SI, Abaalkhail MS, Khiday HN, Albuijan AK. Surgical management of spinal tuberculosis with a two-stage posterior instrumentation with bridging: a case report. *J Surg Case Rep*. 2021;2021(9):rjab406. <https://www.ncbi.nlm.nih.gov/pubmed/34512950>.
104. Kotze LA, Leukes VN, Fang Z, Lutz MB, Fitzgerald BL, Belisle J, et al. Evaluation of autophagy mediators in myeloid-derived suppressor cells during human tuberculosis. *Cell Immunol*. 2021;369:104426. <https://www.ncbi.nlm.nih.gov/pubmed/34469846>.
105. Kraef C, Bentzon A, Skrahina A, Mocroft A, Peters L, Lundgren JD, et al. Improving healthcare for patients with HIV, tuberculosis and hepatitis C in eastern Europe: a review of current challenges and important next steps. *HIV Med*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34468073>.
106. Kuehn BM. Severe Tuberculosis Surged After Shelter-in-Place Lifted. *JAMA*. 2021;326(10):902. <https://www.ncbi.nlm.nih.gov/pubmed/34519794>.
107. Kumar T, Singh M, Jangir BL, Arora D, Srinivasan S, Bidhan D, et al. A Defined Antigen Skin Test for Diagnosis of Bovine Tuberculosis in Domestic Water Buffaloes (*Bubalus bubalis*). *Front Vet Sci*. 2021;8:669898. <https://www.ncbi.nlm.nih.gov/pubmed/34490387>.
108. Kwon DE, Han SH, Han KD, La Y, Lee KH. Incidence rate of active tuberculosis in solid organ transplant recipients: Data from a nationwide population cohort in a high-endemic country. *Transpl Infect Dis*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34505751>.
109. Labarre C, Dautin N, Grzegorzewicz A, Jackson M, McNeil M, Mohiman N, et al. S16 and T18 mannosylation sites of LppX are not essential for its activity in phthiocerol dimycocerosates localization at the surface of *Mycobacterium tuberculosis*. *Res Microbiol*. 2021;103874. <https://www.ncbi.nlm.nih.gov/pubmed/34492336>.
110. Lai EC, Liang HY, Huang YC, Huang WI, Chao PH, Chen WW, et al. Association between 9-month isoniazid prophylaxis of latent tuberculosis and severe hepatitis in patients treated with TNF inhibitors. *Sci Rep*. 2021;11(1):18013. <https://www.ncbi.nlm.nih.gov/pubmed/34504225>.
111. Larkins-Ford J, Greenstein T, Van N, Degefu YN, Olson MC, Sokolov A, et al. Systematic measurement of combination-drug landscapes to predict in vivo treatment outcomes for tuberculosis. *Cell Syst*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34469743>.
112. Levano KS, Jaramillo-Valverde L, Tarazona DD, Sanchez C, Capristano S, Vasquez-Loarte T, et al. Allelic and genotypic frequencies of NAT2, CYP2E1, and AADAC genes in a cohort of Peruvian tuberculosis patients. *Mol Genet Genomic Med*. 2021:e1764. <https://www.ncbi.nlm.nih.gov/pubmed/34510815>.

113. Li CH, Chen HJ, Chen WC, Tu CY, Hsia TC, Hsu WH, et al. The Risk of Tuberculosis Infection in Non-dialysis Chronic Kidney Disease Patients. *Front Med (Lausanne)*. 2021;8:715010. <https://www.ncbi.nlm.nih.gov/pubmed/34485344>.
114. Li R, Wilson WW, Schwartz NG, Hernandez-Romieu AC, Glowicz J, Hanlin E, et al. Notes from the Field: Tuberculosis Outbreak Linked to a Contaminated Bone Graft Product Used in Spinal Surgery - Delaware, March-June 2021. *MMWR Morb Mortal Wkly Rep*. 2021;70(36):1261-3. <https://www.ncbi.nlm.nih.gov/pubmed/34499629>.
115. Li Y, Fu Y, Sun J, Shen J, Liu F, Ning B, et al. Tanshinone IIA alleviates NLRP3 inflammasome-mediated pyroptosis in Mycobacterium tuberculosis-(H37Ra-) infected macrophages by inhibiting endoplasmic reticulum stress. *J Ethnopharmacol*. 2021;114595. <https://www.ncbi.nlm.nih.gov/pubmed/34517060>.
116. Li Y, Li L, Sha X, Zhang K, Li G, Ma Y, et al. Instant hydrogelation encapsulates drugs onto implants intraoperatively against osteoarticular tuberculosis. *J Mater Chem B*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34491255>.
117. Librianto D, Aprilya D. Cantilever method for severe kyphotic deformity correction in spondylitis tuberculosis: A technical note and literature review. *Ann Med Surg (Lond)*. 2021;69:102764. <https://www.ncbi.nlm.nih.gov/pubmed/34484731>.
118. Lim RK, Talavlikar R, Chiaozor O, Bietz J, Gardiner H, Fisher D. Fewer losses in the cascade of care for latent tuberculosis with solo interferon-gamma release assay screening compared to sequential screening. *BMC Infect Dis*. 2021;21(1):936. <https://www.ncbi.nlm.nih.gov/pubmed/34503458>.
119. Liu CF, Song YM, He P, Liu DX, He WC, Li YM, et al. Evaluation of Multidrug Resistant Loop-mediated Isothermal Amplification Assay for Detecting the Drug Resistance of Mycobacterium tuberculosis. *Biomed Environ Sci*. 2021;34(8):616-22. <https://www.ncbi.nlm.nih.gov/pubmed/34474721>.
120. Liu F, Dong Z, Lin Y, Yang H, Wang P, Zhang Y. MicroRNA5023p promotes Mycobacterium tuberculosis survival in macrophages by modulating the inflammatory response by targeting ROCK1. *Mol Med Rep*. 2021;24(5). <https://www.ncbi.nlm.nih.gov/pubmed/34476503>.
121. Liu M, Zhan CE, Shi L, Zhao L, Jiang X, Zhang ZL, et al. Six-month versus nine-month therapy for intestinal tuberculosis: a protocol for a randomized controlled study. *Ann Palliat Med*. 2021;10(8):9223-8. <https://www.ncbi.nlm.nih.gov/pubmed/34488408>.
122. Liu WD, Wang JT, Hung CC, Chang SC. Accelerated progression of pulmonary tuberculosis in a COVID-19 patient after corticosteroid treatment. *J Microbiol Immunol Infect*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34462222>.
123. Luan H, Deng Q, Sheng W, Mamat M, Guo H, Li H. Analysis of the Therapeutic Effects of Staged Posterior-Anterior Combined Surgery for Cervicothoracic Segmental Tuberculosis with Kyphosis in Pediatric Patients. *Int J Gen Med*. 2021;14:4847-55. <https://www.ncbi.nlm.nih.gov/pubmed/34471378>.

124. Luo Y, Xue Y, Mao L, Lin Q, Tang G, Song H, et al. Activation Phenotype of Mycobacterium tuberculosis-Specific CD4(+) T Cells Promoting the Discrimination Between Active Tuberculosis and Latent Tuberculosis Infection. *Front Immunol.* 2021;12:721013. <https://www.ncbi.nlm.nih.gov/pubmed/34512645>.
125. Lwevola P, Izudi J, Kimuli D, Komuhangi A, Okoboi S. Low level of tuberculosis preventive therapy incompleteness among people living with Human Immunodeficiency Virus in eastern Uganda: A retrospective data review. *J Clin Tuberc Other Mycobact Dis.* 2021;25:100269. <https://www.ncbi.nlm.nih.gov/pubmed/34504952>.
126. Lyashchenko KP, Sikar-Gang A, Sridhara AA, Johnathan-Lee A, Elahi R, Lambotte P, et al. Novel polyprotein antigens designed for improved serodiagnosis of bovine tuberculosis. *Vet Immunol Immunopathol.* 2021;240:110320. <https://www.ncbi.nlm.nih.gov/pubmed/34479106>.
127. Ma J, Du M, Wang C, Xie X, Wang H, Li T, et al. Rapid and Sensitive Detection of Mycobacterium tuberculosis by an Enhanced Nanobiosensor. *ACS Sens.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34470206>.
128. Ma Y, Zhang Y, Li R, Wang X, Wang A. Cutaneous tuberculosis in a patient with a STAT1 mutation. *J Dtsh Dermatol Ges.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34516046>.
129. MacPherson P, Webb EL, Kamchedzera W, Joekes E, Mjoli G, Laloo DG, et al. Computer-aided X-ray screening for tuberculosis and HIV testing among adults with cough in Malawi (the PROSPECT study): A randomised trial and cost-effectiveness analysis. *PLoS Med.* 2021;18(9):e1003752. <https://www.ncbi.nlm.nih.gov/pubmed/3449965>.
130. Madugula SS, Nagamani S, Jamir E, Priyadarsinee L, Sastry GN. Drug repositioning for anti-tuberculosis drugs: an in silico polypharmacology approach. *Mol Divers.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34468898>.
131. Majeed FA, Ali A, Zafar U, Ahmed Taimure SZ, Mahmood U. Outcome Analysis Of Primary Chest Wall Tuberculosis: A Series Of 32 Cases. *J Ayub Med Coll Abbottabad.* 2021;33(3):357-62. <https://www.ncbi.nlm.nih.gov/pubmed/34487638>.
132. Merker M, Egbe NF, Ngangue YR, Vuchas C, Kohl TA, Dreyer V, et al. Transmission patterns of rifampicin resistant Mycobacterium tuberculosis complex strains in Cameroon: a genomic epidemiological study. *BMC Infect Dis.* 2021;21(1):891. <https://www.ncbi.nlm.nih.gov/pubmed/34465301>.
133. Meundi AD, Erasmus V, Nagaraja SB, Richardus JH. Voices of Those Who Bear the Brunt - Experiences of Programme Personnel Concerning Private Sector Tuberculosis Notifications in Bengaluru City, India. *Soc Work Public Health.* 2021;1:1-11. <https://www.ncbi.nlm.nih.gov/pubmed/34478354>.
134. Mills G. TBAS expansion 'big step' towards controlling tuberculosis. *Vet Rec.* 2021;189(5):182. <https://www.ncbi.nlm.nih.gov/pubmed/34505664>.

135. Minnies S, Reeve BWP, Rockman L, Nyawo G, Naidoo CC, Kitchin N, et al. Xpert MTB/RIF Ultra is highly sensitive for the diagnosis of tuberculosis lymphadenitis in an HIV-endemic setting. *J Clin Microbiol.* 2021;JCM0131621. <https://www.ncbi.nlm.nih.gov/pubmed/34469182>.
136. Molgo M, Cardenas C, Ramonda P, Salinas MP. [Scrofuloderma, cutaneous and pulmonary tuberculosis associated with COVID-19. Report of one case]. *Rev Med Chil.* 2021;149(4):630-4. <https://www.ncbi.nlm.nih.gov/pubmed/34479352>.
137. Moniz M, Soares P, Leite A, Nunes C. Tuberculosis amongst foreign-born and nationals: different delays, different risk factors. *BMC Infect Dis.* 2021;21(1):934. <https://www.ncbi.nlm.nih.gov/pubmed/34496792>.
138. Monteiro de Castro Fernandes F, Couto Junior AF, Braga JU, Oliveira S, Do Socorro Nantua Evangelista M. Environmental and social effects on the incidence of tuberculosis in three Brazilian municipalities and in Federal District. *J Infect Dev Ctries.* 2021;15(8):1139-46. <https://www.ncbi.nlm.nih.gov/pubmed/34516422>.
139. Moyo M, Lebina L, Milovanovic M, MacPherson P, Michel A, Martinson N. Tuberculosis patients at the human-animal interface: Potential zoonanthropontic and zoonotic transmission. *One Health.* 2021;13:100319. <https://www.ncbi.nlm.nih.gov/pubmed/34504938>.
140. Mukhatayeva A, Mustafa A, Dzissiyuk N, Issanov A, Bayserkin B, Vermund SH, et al. Author Correction: Hepatitis B, Hepatitis C, tuberculosis and sexually-transmitted infections among HIV positive patients in Kazakhstan. *Sci Rep.* 2021;11(1):18123. <https://www.ncbi.nlm.nih.gov/pubmed/34493797>.
141. Mukundan S, Bhatt R, Lucas J, Tereyek M, Chang TL, Subbian S, et al. 3D host cell and pathogen-based bioassay development for testing anti-tuberculosis (TB) drug response and modeling immunodeficiency. *Biomol Concepts.* 2021;12(1):117-28. <https://www.ncbi.nlm.nih.gov/pubmed/34473918>.
142. Mulenga H, Musvosvi M, Mendelsohn SC, Penn-Nicholson A, Kimbung Mbandi S, Gartland AF, et al. Longitudinal Dynamics of a Blood Transcriptomic Signature of Tuberculosis. *Am J Respir Crit Care Med.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34520313>.
143. Musisi E, Dide-Agossou C, Al Mubarak R, Rossmassler K, Ssesolo AW, Kaswabuli S, et al. Reproducibility of the Ribosomal RNA Synthesis Ratio in Sputum and Association with Markers of Mycobacterium tuberculosis Burden. *Microbiol Spectr.* 2021:e0048121. <https://www.ncbi.nlm.nih.gov/pubmed/34494858>.
144. Mvubu NE, Chiliza TE. Exploring the Use of Medicinal Plants and Their Bioactive Derivatives as Alveolar NLRP3 Inflammasome Regulators during Mycobacterium tuberculosis Infection. *Int J Mol Sci.* 2021;22(17). <https://www.ncbi.nlm.nih.gov/pubmed/34502407>.
145. Nabulsi Z, Sellergren A, Jamshy S, Lau C, Santos E, Kiraly AP, et al. Deep learning for distinguishing normal versus abnormal chest radiographs and generalization to two unseen diseases tuberculosis and COVID-19. *Sci Rep.* 2021;11(1):15523. <https://www.ncbi.nlm.nih.gov/pubmed/34471144>.

146. Navarro PD, Haddad JPA, Rabelo JVC, Silva C, Almeida IN, Carvalho WDS, et al. The impact of the stratification by degree of clinical severity and abandonment risk of tuberculosis treatment. *J Bras Pneumol.* 2021;47(4):e20210018.
<https://www.ncbi.nlm.nih.gov/pubmed/34495173>.
147. Nedkov Gamin M, Vella SM, Vella C, Schembri J. Oesophagomediastinal fistula: a rare complication of tuberculosis. *BMJ Case Rep.* 2021;14(9).
<https://www.ncbi.nlm.nih.gov/pubmed/34479881>.
148. Ngoc NB, Vu Dinh H, Thuy NT, Quang DV, Huyen CIT, Hoa NM, et al. Active surveillance for adverse events in patients on longer treatment regimens for multidrug-resistant tuberculosis in Viet Nam. *PLoS One.* 2021;16(9):e0255357.
<https://www.ncbi.nlm.nih.gov/pubmed/34492031>.
149. Njovu IK, Musinguzi B, Mwesigye J, Kassaza K, Turigurwa J, Nuwagira E, et al. Status of pulmonary fungal pathogens among individuals with clinical features of pulmonary tuberculosis at Mbarara University Teaching Hospital in Southwestern Uganda. *Ther Adv Infect Dis.* 2021;8:20499361211042477. <https://www.ncbi.nlm.nih.gov/pubmed/34484738>.
150. O'Connell J, de Barra E, McNally C, McConkey S. A Survey of Latent Tuberculosis Screening and Treatment Practices in a Tertiary Centre. *Ir Med J.* 2021;114(7):406.
<https://www.ncbi.nlm.nih.gov/pubmed/34520641>.
151. Olawoye IB, Uwanibe JN, Kunle-Ope CN, Davies-Bolorunduro OF, Abiodun TA, Audu RA, et al. Whole genome sequencing of clinical samples reveals extensively drug resistant tuberculosis (XDR TB) strains from the Beijing lineage in Nigeria, West Africa. *Sci Rep.* 2021;11(1):17387.
<https://www.ncbi.nlm.nih.gov/pubmed/34462504>.
152. Olomi W, Biraro IA, Kilonzo K, Te Brake L, Kibirige D, Chamba N, et al. Tuberculosis preventive therapy for people with diabetes mellitus. *Clin Infect Dis.* 2021.
<https://www.ncbi.nlm.nih.gov/pubmed/34505132>.
153. Ortega J, Roy A, Alvarez J, Sanchez-Cesteros J, Romero B, Infantes-Lorenzo JA, et al. Effect of the Inoculation Site of Bovine and Avian Purified Protein Derivatives (PPDs) on the Performance of the Intradermal Tuberculin Test in Goats From Tuberculosis-Free and Infected Herds. *Front Vet Sci.* 2021;8:722825. <https://www.ncbi.nlm.nih.gov/pubmed/34513976>.
154. Ortiz-Martinez Y, Fajardo-Rivero JE, Mendoza-Herrera T, Ruiz-Gonzalez CE, Masias-Leon Y, Luna C, et al. Differences in tuberculosis incidence among patients with hematological malignancies and general population, Santander, Colombia, 2015-2019. *Int J Mycobacteriol.* 2021;10(3):346-8. <https://www.ncbi.nlm.nih.gov/pubmed/34494581>.
155. Oxlade O, Rochon H, Campbell JR, Menzies D. Tuberculosis preventive treatment in people living with HIV-Is the glass half empty or half full? *PLoS Med.* 2021;18(9):e1003702.
<https://www.ncbi.nlm.nih.gov/pubmed/34520458>.

156. Pakfetrat M, Malekmakan L, Hamidianjahromi A, Moghadami M, Khoramroz SA. Diagnosis and Treatment of Latent Tuberculosis Infection in Kidney and Liver Transplant Recipients in Iranian Candidates for Transplant. *Exp Clin Transplant*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34498552>.
157. Paniagua-Saldarriaga LA, Pelissari DM, Rueda ZV. Factors Associated with Unsuccessful Outcomes of Tuberculosis Treatment in 125 Municipalities in Colombia 2014 to 2016. *Am J Trop Med Hyg*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34491226>.
158. Park HY, Kang D, Shin SH, Choi H, Jang SH, Lee CH, et al. Pulmonary Tuberculosis and the Incidence of Lung Cancer among Patients with Chronic Obstructive Pulmonary Disease. *Ann Am Thorac Soc*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34478360>.
159. Parker VR, Bennet JA, Sanne IM. An incidental finding of chronic lymphocytic leukaemia in a patient with pulmonary tuberculosis. *S Afr J Infect Dis*. 2020;35(1):218. <https://www.ncbi.nlm.nih.gov/pubmed/34485482>.
160. Patel DG, Kurian SJ, Miraj SS, Rashid M, Thomas L, Rodrigues GS, et al. Effect of Vitamin D Supplementation in Type 2 Diabetes Patients with Tuberculosis: A Systematic Review. *Curr Diabetes Rev*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34473618>.
161. Patterson B, Boparai N, Dekoningh J, Anaraki S, White J, Lipman M. Implementing and evaluating standardised tuberculosis incident management for nonhousehold contacts in a large clinical network. *ERJ Open Res*. 2021;7(3). <https://www.ncbi.nlm.nih.gov/pubmed/34513984>.
162. Paudel S, Brenner EP, Hadi SA, Suzuki Y, Nakajima C, Tsubota T, et al. Genome Sequences of Two *Mycobacterium* tuberculosis Isolates from Asian Elephants in Nepal. *Microbiol Resour Announc*. 2021;10(36):e0061421. <https://www.ncbi.nlm.nih.gov/pubmed/34498927>.
163. Pellegrini JM, Martin C, Morelli MP, Schander JA, Tateosian NL, Amiano NO, et al. Author Correction: PGE2 displays immunosuppressive effects during human active tuberculosis. *Sci Rep*. 2021;11(1):18138. <https://www.ncbi.nlm.nih.gov/pubmed/34493800>.
164. Persaud R, Li SC, Chao JD, Forestieri R, Donohue E, Balgi AD, et al. Clionamines stimulate autophagy, inhibit *Mycobacterium* tuberculosis survival in macrophages, and target Pik1. *Cell Chem Biol*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34520745>.
165. Petrella F. The present role of the thoracic surgeon in the diagnostic workup of tuberculosis. *Pol Arch Intern Med*. 2021;131(7-8):615-6. <https://www.ncbi.nlm.nih.gov/pubmed/34463081>.
166. Pillay S, Magula NP. Treatment outcomes of Gene Xpert positive tuberculosis patients in KwaMashu Community Health Centre, KwaZulu-Natal, South Africa: A retrospective review. *S Afr J Infect Dis*. 2021;36(1):217. <https://www.ncbi.nlm.nih.gov/pubmed/34485494>.
167. Ponnusamy N, Arumugam M. Interaction of host pattern recognition receptors (PRRs) with *Mycobacterium* tuberculosis and Ayurvedic management of tuberculosis: a systemic approach. *Infect Disord Drug Targets*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34517809>.

168. Priyanka, Sharma M, Sharma S. Ethnicity based comprehensive evaluation of polymorphism in interferon-gamma gene and its association with pulmonary and extra-pulmonary tuberculosis risk: An updated trial sequential meta-analysis. *Int J Mycobacteriol.* 2021;10(3):243-54. <https://www.ncbi.nlm.nih.gov/pubmed/34494562>.
169. Rahyussalim AJ, Nugroho A, Zufar MLL, Fathurrahman I, Kurniawati T. Integration of Umbilical Cord Mesenchymal Stem Cell Application in Hydroxyapatite-Based Scaffolds in the Treatment of Vertebral Bone Defect due to Spondylitis Tuberculosis: A Translational Study. *Stem Cells Int.* 2021;2021:9928379. <https://www.ncbi.nlm.nih.gov/pubmed/34475959>.
170. Rajpurkar P, O'Connell C, Schechter A, Asnani N, Li J, Kiani A, et al. CheXaid: deep learning assistance for physician diagnosis of tuberculosis using chest x-rays in patients with HIV. *NPJ Digit Med.* 2020;3(1):115. <https://www.ncbi.nlm.nih.gov/pubmed/34497349>.
171. Rana G, Gautam S, Mawari G, Daga MK, Kumar N, Raghu RV. Massive hemoptysis causing mortality in a post COVID-19 infected Asian male patient: Presenting as pulmonary mucormycosis, pulmonary tuberculosis and later sino-nasal mucormycosis. *Respir Med Case Rep.* 2021;34:101511. <https://www.ncbi.nlm.nih.gov/pubmed/34513586>.
172. Rashidi HH, Dang LT, Albahra S, Ravindran R, Khan IH. Automated machine learning for endemic active tuberculosis prediction from multiplex serological data. *Sci Rep.* 2021;11(1):17900. <https://www.ncbi.nlm.nih.gov/pubmed/34504228>.
173. Reul NK, Gray Z, Braid BB, Leland MA. Tuberculosis Screening in Silica-Exposed Workers : Developing a Tool for Health Care Providers. *Public Health Rep.* 2021;333549211041584. <https://www.ncbi.nlm.nih.gov/pubmed/34499541>.
174. Rodriguez D, Zapata A, Molina F, Pemuolo G, Burbano J, Correa L. [Meningeal tuberculosis: cases report years 2005-2017]. *Rev Chilena Infectol.* 2021;38(3):410-6. <https://www.ncbi.nlm.nih.gov/pubmed/34479299>.
175. Rojas-Espinosa O, Rivero-Silva MA, Hernandez-Solis A, Arce-Paredes P, Arce-Mendoza AY, Islas-Trujillo S. Sera from patients with tuberculosis increase the phagocytic-microbicidal activity of human neutrophils, and ESAT-6 is implicated in the phenomenon. *Int J Mycobacteriol.* 2021;10(3):271-8. <https://www.ncbi.nlm.nih.gov/pubmed/34494566>.
176. Saalai KM, Mohanty A. The effect of glycemic control on clinico-radiological manifestations of pulmonary tuberculosis in patients with diabetes mellitus. *Int J Mycobacteriol.* 2021;10(3):268-70. <https://www.ncbi.nlm.nih.gov/pubmed/34494565>.
177. Safarian S, Opel-Reading HK, Wu D, Mehdipour AR, Hards K, Harold LK, et al. The cryo-EM structure of the bd oxidase from *M. tuberculosis* reveals a unique structural framework and enables rational drug design to combat TB. *Nat Commun.* 2021;12(1):5236. <https://www.ncbi.nlm.nih.gov/pubmed/34475399>.
178. Sahoo SS, Tiwari V, Velagada S. A Rare Case of Tuberculosis as a Cause of Lytic Lesion of Talus Without Adjacent Bone Involvement in a Four-Year-Old Child. *Cureus.* 2021;13(8):e16909. <https://www.ncbi.nlm.nih.gov/pubmed/34513482>.

179. Saleemi SA, Alothman B, Alamer M, Alsayari S, Almogbel A, Mohammed S. Tuberculosis presenting as metastatic lung cancer. *Int J Mycobacteriol.* 2021;10(3):327-9.
<https://www.ncbi.nlm.nih.gov/pubmed/34494575>.
180. Santos-Benit F. Expression of the *Mycobacterium tuberculosis* RipA cell-wall hydrolase in *Streptomyces coelicolor* hampers vancomycin resistance. *J Glob Antimicrob Resist.* 2021.
<https://www.ncbi.nlm.nih.gov/pubmed/34492398>.
181. Sarda-Mantel L, Kaoutar J, Alfaiate T, Lopes A, Paycha F, Benali K, et al. [(18) F]FDG Positron Emission Tomography for Initial Staging and Healing Assessment at the End of Therapy in Lymph Nodes and Bone Tuberculosis. *Front Med (Lausanne).* 2021;8:715115.
<https://www.ncbi.nlm.nih.gov/pubmed/34485345>.
182. Sartor P, Denkhaus L, Gerhardt S, Einsle O, Fetzner S. Structural basis of O-methylation of (2-heptyl)-1-hydroxyquinolin-4(1H)-one and related compounds by the heterocyclic toxin methyltransferase Rv0560c of *Mycobacterium tuberculosis*. *J Struct Biol.* 2021;107794.
<https://www.ncbi.nlm.nih.gov/pubmed/34506908>.
183. Sasahara K, Kitahama K, Aiko S, Namkoong H. Anal tuberculosis presenting as refractory perianal abscess. *Clin Case Rep.* 2021;9(9):e04177.
<https://www.ncbi.nlm.nih.gov/pubmed/34484742>.
184. Schulz V. [25th Anniversary of the German Tuberculosis Archive]. *Pneumologie.* 2021.
<https://www.ncbi.nlm.nih.gov/pubmed/34517417>.
185. Selmane S, L'Hadj M. Spatiotemporal analysis and seasonality of tuberculosis in Algeria. *Int J Mycobacteriol.* 2021;10(3):234-42. <https://www.ncbi.nlm.nih.gov/pubmed/34494561>.
186. Shabariah R, Hatta M, Idris I, Santoso A, Patellongi I, Permatasari TAE, et al. Comparison TLR2 and TLR4 serum levels in children with pulmonary and extrapulmonary tuberculosis with and without a Bacillus Calmette-Guerin (BCG) scar. *J Clin Tuberc Other Mycobact Dis.* 2021;25:100272. <https://www.ncbi.nlm.nih.gov/pubmed/34504953>.
187. Shaikh A, Sriraman K, Vaswani S, Oswal V, Rao S, Mistry N. Early phase of effective treatment induces distinct transcriptional changes in *Mycobacterium tuberculosis* expelled by pulmonary tuberculosis patients. *Sci Rep.* 2021;11(1):17812.
<https://www.ncbi.nlm.nih.gov/pubmed/34497280>.
188. Shao Y, Hageman JR, Shulman ST. Congenital and Perinatal Tuberculosis. *Neoreviews.* 2021;22(9):e600-e5. <https://www.ncbi.nlm.nih.gov/pubmed/34470761>.
189. Sharan R, Singh DK, Rengarajan J, Kaushal D. Characterizing Early T Cell Responses in Nonhuman Primate Model of Tuberculosis. *Front Immunol.* 2021;12:706723.
<https://www.ncbi.nlm.nih.gov/pubmed/34484203>.
190. Sharma JB, Sharma E, Sharma S, Dharmendra S. Recent Advances in Diagnosis and Management of Female Genital Tuberculosis. *J Obstet Gynaecol India.* 2021;1-12.
<https://www.ncbi.nlm.nih.gov/pubmed/34483510>.

191. Sharma T, Singh J, Grover S, P M, Firdos F, Alam A, et al. PGRS Domain of Rv0297 of *Mycobacterium tuberculosis* Functions in A Calcium Dependent Manner. *Int J Mol Sci.* 2021;22(17). <https://www.ncbi.nlm.nih.gov/pubmed/34502303>.
192. Shi W, Hu Y, Ning Z, Xia F, Wu M, Hu YOO, et al. Alterations of gut microbiota in patients with active pulmonary tuberculosis in China: A pilot study. *Int J Infect Dis.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34481968>.
193. Shugaeva SN, Savilov ED. Prognostic Model for Progradient Tuberculosis Course in HIV-Infected Children. *Sovrem Tekhnologii Med.* 2020;12(2):74-8. <https://www.ncbi.nlm.nih.gov/pubmed/34513056>.
194. Silva MSD, Arcosende MAM, Andrade RLP, Zilly A, Villa TCS, Silva-Sobrinho RA. Information system on tuberculosis: data completeness spatial analysis in the state of Paraná, Brazil. *Rev Esc Enferm USP.* 2021;55:e20200538. <https://www.ncbi.nlm.nih.gov/pubmed/34464433>.
195. Silva S, Arinaminpathy N, Atun R, Goosby E, Reid M. Economic impact of tuberculosis mortality in 120 countries and the cost of not achieving the Sustainable Development Goals tuberculosis targets: a full-income analysis. *Lancet Glob Health.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34487685>.
196. Singh N, Chauhan A, Kumar R, Singh SK. Biochemical and functional characterization of *Mycobacterium tuberculosis* ketol-acid reductoisomerase. *Microbiology (Reading).* 2021;167(9). <https://www.ncbi.nlm.nih.gov/pubmed/34515631>.
197. Singh UB, Verma Y, Jain R, Mukherjee A, Gautam H, Lodha R, et al. Childhood Intra-Thoracic Tuberculosis Clinical Presentation Determines Yield of Laboratory Diagnostic Assays. *Front Pediatr.* 2021;9:667726. <https://www.ncbi.nlm.nih.gov/pubmed/34513756>.
198. Singha SK, Kashyap B, Avasthi R, Hyanki P, Singh NP, Khanna A. Socio-clinico-radiological profile of smear-positive pulmonary tuberculosis patients in association with sputum conversion and baseline hsCRP levels. *Trop Doct.* 2021;49:4755211042127. <https://www.ncbi.nlm.nih.gov/pubmed/34482785>.
199. Snyman Y, Whitelaw AC, Maloba MRB, Hesseling AC, Newton-Foot M. Carriage of colistin-resistant Gram-negative bacteria in children from communities in Cape Town (Tuberculosis child multidrug-resistant preventive therapy trial sub-study). *S Afr J Infect Dis.* 2021;36(1):241. <https://www.ncbi.nlm.nih.gov/pubmed/34485500>.
200. So PNH, Villanueva ART. Serologic and urinary characteristics of laboratory-confirmed genitourinary tuberculosis at a tertiary hospital in the Philippines. *BMC Urol.* 2021;21(1):125. <https://www.ncbi.nlm.nih.gov/pubmed/34503465>.
201. Song WM, Li YF, Liu YX, Liu Y, Yu CB, Liu JY, et al. Drug-Resistant Tuberculosis Among Children: A Systematic Review and Meta-Analysis. *Front Public Health.* 2021;9:721817. <https://www.ncbi.nlm.nih.gov/pubmed/34490197>.

202. Song WM, Zhao JY, Zhang QY, Liu SQ, Zhu XH, An QQ, et al. COVID-19 and Tuberculosis Coinfection: An Overview of Case Reports/Case Series and Meta-Analysis. *Front Med (Lausanne)*. 2021;8:657006. <https://www.ncbi.nlm.nih.gov/pubmed/34504847>.
203. Souza AB, Arriaga MB, Amorim G, Araujo-Pereira M, Nogueira BMF, Queiroz ATL, et al. Determinants of losses in the latent tuberculosis infection cascade of care in Brazil. *BMJ Glob Health*. 2021;6(9). <https://www.ncbi.nlm.nih.gov/pubmed/34518204>.
204. Sekamatte P, Nakibuule M, Nabatanzi R, Egesa M, Musubika C, Bbuye M, et al. Type 2 Diabetes Mellitus and Latent Tuberculosis Infection Moderately Influence Innate Lymphoid Cell Immune Responses in Uganda. *Front Immunol*. 2021;12:716819. <https://www.ncbi.nlm.nih.gov/pubmed/34512639>.
205. Stringer B, Lowton K, James N, Nyang'wa BT. Capturing patient-reported and quality of life outcomes with use of shorter regimens for drug-resistant tuberculosis: mixed-methods substudy protocol, TB PRACTECAL-PRO. *BMJ Open*. 2021;11(9):e043954. <https://www.ncbi.nlm.nih.gov/pubmed/34489263>.
206. Sun Y, Zhang Q, Zhang Q, Liu C, Zhang H, Fu Y, et al. Diagnostic Efficacy of Xpert MTB/RIF Assay in Bronchoalveolar Lavage Fluid for Tracheobronchial Tuberculosis: A Retrospective Analysis. *Front Med (Lausanne)*. 2021;8:682107. <https://www.ncbi.nlm.nih.gov/pubmed/34485328>.
207. Szturmowicz M, Broniarek-Samson B, Demkow U. Prevalence and risk factors for latent tuberculosis in polish healthcare workers: the comparison of tuberculin skin test and interferon-gamma release assay (IGRA) performance. *J Occup Med Toxicol*. 2021;16(1):38. <https://www.ncbi.nlm.nih.gov/pubmed/34470622>.
208. Tabone O, Verma R, Singhania A, Chakravarty P, Branchett WJ, Graham CM, et al. Blood transcriptomics reveal the evolution and resolution of the immune response in tuberculosis. *J Exp Med*. 2021;218(10). <https://www.ncbi.nlm.nih.gov/pubmed/34491266>.
209. Taherpour S, Bazzaz MM, Naderi H, Samarghandian S, Amirabadizadeh A, Farkhondeh T, et al. A systematic and meta-analysis study on the prevalence of tuberculosis and relative risk factors for prisoners in Iran. *Infect Disord Drug Targets*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34517810>.
210. Takizawa N, Mizutani T, Fujita Y. Pericostal tuberculosis in a patient with systemic sclerosis: The relationship of two rare diseases. *Clin Case Rep*. 2021;9(9):e04563. <https://www.ncbi.nlm.nih.gov/pubmed/34484747>.
211. Thapa Magar M, Kafle S, Poudel A, Patel P, Cancarevic I. Takayasu's Arteritis and Its Association With Mycobacterium Tuberculosis: A Systematic Review. *Cureus*. 2021;13(8):e16927. <https://www.ncbi.nlm.nih.gov/pubmed/34513498>.
212. Thapa P, Jayasuriya R, Hall JJ, Beek K, Mukherjee P, Gudi N, et al. Role of informal healthcare providers in tuberculosis care in low- and middle-income countries: A systematic scoping review. *PLoS One*. 2021;16(9):e0256795. <https://www.ncbi.nlm.nih.gov/pubmed/34473752>.

213. Thapa S, Bista A, Subedi P, Adhikari A, Pokharel S. Tuberculosis among Patients Admitted to the Department of Medicine of a Tertiary Care Center in Nepal: A Descriptive Cross-sectional Study. *JNMA J Nepal Med Assoc.* 2021;59(238):531-6. <https://www.ncbi.nlm.nih.gov/pubmed/34508414>.
214. Ticlla MR, Hella J, Hiza H, Sasamalo M, Mhimbira F, Rutaihwu LK, et al. The Sputum Microbiome in Pulmonary Tuberculosis and Its Association With Disease Manifestations: A Cross-Sectional Study. *Front Microbiol.* 2021;12:633396. <https://www.ncbi.nlm.nih.gov/pubmed/34489876>.
215. Tolossa T, Tsegaye R, Shiferaw S, Wakuma B, Ayala D, Bekele B, et al. Survival from a Triple Co-Infection of COVID-19, HIV, and Tuberculosis: A Case Report. *Int Med Case Rep J.* 2021;14:611-5. <https://www.ncbi.nlm.nih.gov/pubmed/34512043>.
216. Trubiano JA. New Pathways to Navigate an Old Problem of Tuberculosis Therapy-Associated Adverse Drug Reactions. *J Allergy Clin Immunol Pract.* 2021;9(9):3450-1. <https://www.ncbi.nlm.nih.gov/pubmed/34507712>.
217. Udomsinprasert W, Sakuntasri W, Jittikoon J, Chaikledkaew U, Honsawek S, Chanratita W, et al. Global DNA hypomethylation of Alu and LINE-1 transposable elements as an epigenetic biomarker of anti-tuberculosis drug-induced liver injury. *Emerg Microbes Infect.* 2021;1:1-32. <https://www.ncbi.nlm.nih.gov/pubmed/34467830>.
218. Ugarte-Gil C, Curisinche M, Herrera-Flores E, Hernandez H, Rios J. Situation of the tuberculosis-diabetes comorbidity in adults in Peru: 2016-2018. *Rev Peru Med Exp Salud Publica.* 2021;38(2):254-60. <https://www.ncbi.nlm.nih.gov/pubmed/34468572>.
219. Uppal A, Rahman S, Campbell JR, Oxlade O, Menzies D. Economic and modeling evidence for tuberculosis preventive therapy among people living with HIV: A systematic review and meta-analysis. *PLoS Med.* 2021;18(9):e1003712. <https://www.ncbi.nlm.nih.gov/pubmed/34520463>.
220. van Heerden JK, van Zyl A, Schaaf HS, Frigati LJ, Goussard P, Rabie H. Childhood Cancers Misdiagnosed as Tuberculosis in a High Tuberculosis Burden Setting. *Pediatr Infect Dis J.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34508025>.
221. van Toorn R, Zaharie SD, Seddon JA, van der Kuip M, Marceline van Furth A, Schoeman JF, et al. The use of thalidomide to treat children with tuberculosis meningitis: A review. *Tuberculosis (Edinb).* 2021;130:102125. <https://www.ncbi.nlm.nih.gov/pubmed/34500217>.
222. Vongthilath-Moeung R, Poncet A, Renzi G, Schrenzel J, Janssens JP. Time to Detection of Growth for Mycobacterium tuberculosis in a Low Incidence Area. *Front Cell Infect Microbiol.* 2021;11:704169. <https://www.ncbi.nlm.nih.gov/pubmed/34490143>.
223. Wan S, Du F, Wang J, Bao J, Mi J, Sun X. Primary unilateral and epilepsy adrenal tuberculosis misdiagnosed as adrenal tumor: Two case reports. *Asian J Surg.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34483045>.

224. Waturuocha UW, Krishna MS, Malhotra V, Dixit NM, Saini DK. A Low-Prevalence Single-Nucleotide Polymorphism in the Sensor Kinase PhoR in *Mycobacterium tuberculosis* Suppresses Its Autophosphatase Activity and Reduces Pathogenic Fitness: Implications in Evolutionary Selection. *Front Microbiol.* 2021;12:724482. <https://www.ncbi.nlm.nih.gov/pubmed/34512602>.
225. Wiqayah N, Mertaniasih NM, Artama WT, Matsumoto S. Microbiome in sputum as a potential biomarker of chronicity in pulmonary resistant to rifampicin-tuberculosis and multidrug-resistant-tuberculosis patients. *Int J Mycobacteriol.* 2021;10(3):260-7. <https://www.ncbi.nlm.nih.gov/pubmed/34494564>.
226. Wotale TW, Terefe AN, Fufa JA. Modeling Time to Death of Patients with Multidrug-Resistant Tuberculosis at Saint Peter's Specialized Hospital. *J Res Health Sci.* 2021;21(2):e00513. <https://www.ncbi.nlm.nih.gov/pubmed/34465635>.
227. Wu D, Li Y, Ren Q, Pei S, Wang L, Yang L, et al. TANC1 methylation as a novel biomarker for the diagnosis of patients with anti-tuberculosis drug-induced liver injury. *Sci Rep.* 2021;11(1):17423. <https://www.ncbi.nlm.nih.gov/pubmed/34465797>.
228. Wu X, Che X, Qiu Z, Chao J, Kong Z, Li H. Simultaneous determination of three antituberculosis drugs in the serum of patients with spinal tuberculosis by capillary electrophoresis. *Anal Methods.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34473140>.
229. Xu T, Li M, Wang C, Yuan M, Chang X, Qian Z, et al. Codon optimization, soluble expression and purification of PE_PGRS45 gene from *Mycobacterium tuberculosis* and preparation of its polyclonal antibodies protein. *J Microbiol Biotechnol.* 2021;31(1). <https://www.ncbi.nlm.nih.gov/pubmed/34489370>.
230. Yanes-Lane M, Ortiz-Brizuela E, Campbell JR, Benedetti A, Churchyard G, Oxlade O, et al. Tuberculosis preventive therapy for people living with HIV: A systematic review and network meta-analysis. *PLoS Med.* 2021;18(9):e1003738. <https://www.ncbi.nlm.nih.gov/pubmed/34520459>.
231. Yi F, Hu J, Zhu X, Wang Y, Yu Q, Deng J, et al. Transcriptional Profiling of Human Peripheral Blood Mononuclear Cells Stimulated by *Mycobacterium tuberculosis* PPE57 Identifies Characteristic Genes Associated With Type I Interferon Signaling. *Front Cell Infect Microbiol.* 2021;11:716809. <https://www.ncbi.nlm.nih.gov/pubmed/34490145>.
232. Yi S, Teo AKJ, Sok S, Tuot S, Tieng S, Khun KE, et al. Barriers in access to services and information gaps by genders and key populations in the national Tuberculosis programme in Cambodia. *Glob Public Health.* 2021;1-14. <https://www.ncbi.nlm.nih.gov/pubmed/34488555>.
233. Zenebe Y, Adem Y, Tulu B, Mekonnen D, Derbie A, Mekonnen Z, et al. Tuberculosis Lymphadenitis and Human Immunodeficiency Virus Co-infections among Lymphadenitis Patients in Northwest Ethiopia. *Ethiop J Health Sci.* 2021;31(3):653-62. <https://www.ncbi.nlm.nih.gov/pubmed/34483623>.

234. Zhang S, Tong X, Wang L, Zhang T, Huang J, Wang D, et al. Clinical Characteristics and Prognostic Analysis of Patients With Pulmonary Tuberculosis and Type 2 Diabetes Comorbidity in China: A Retrospective Analysis. *Front Public Health*. 2021;9:710981. <https://www.ncbi.nlm.nih.gov/pubmed/34513785>.
235. Zhao Y, Zhang J, Xue B, Zhang F, Xu Q, Ma H, et al. Serum levels of inhibitory costimulatory molecules and correlations with levels of innate immune cytokines in patients with pulmonary tuberculosis. *J Int Med Res*. 2021;49(8):3000605211036832. <https://www.ncbi.nlm.nih.gov/pubmed/34463584>.
236. Zhu X, Yan Y, Wang Z, Zhang K, Chen Y, Peng Y, et al. An abattoir-based study on the prevalence of bovine tuberculosis from culled adult dairy cows in Wuhan, China. *Prev Vet Med*. 2021;196:105477. <https://www.ncbi.nlm.nih.gov/pubmed/34482152>.
237. Zhu Z, Zhang M, Li Y. Anti-tuberculosis drug-induced acute liver failure requiring transplantation in the second trimester of pregnancy: a case report. *BMC Pregnancy Childbirth*. 2021;21(1):592. <https://www.ncbi.nlm.nih.gov/pubmed/34465292>.



our other publications...



NIRT Library
National Institute for Research in Tuberculosis
(Indian Council of Medical Research)
1, Mayor Sathyamoorthy Road
Chetpet, Chennai 600031
Tel: 91 44 28369637 | Fax: 91 44 28362525
Email: nirtlibrary@nirt.res.in