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TB ALERT

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ICMR-National Institute for Research in Tuberculosis

150 YEARS OF CELEBRATING THE MAHATMA

1. Corrigendum: Exhaled human breath analysis in active pulmonary tuberculosis diagnostics by comprehensive gas chromatography-mass spectrometry and chemometric techniques (2019J. Breath Res.13016005). *J Breath Res*. 2022;16(2). https://www.ncbi.nlm.nih.gov/pubmed/35023853.

2. Abdelouahab MS, Arama A, Lozi R. Bifurcation analysis of a model of tuberculosis epidemic with treatment of wider population suggesting a possible role in the seasonality of this disease. *Chaos*. 2021;31(12):123125. https://www.ncbi.nlm.nih.gov/pubmed/34972319.

3. Agarwal P, Gordon S, Martinez FO. Foam Cell Macrophages in Tuberculosis. *Front Immunol*. 2021;12:775326. https://www.ncbi.nlm.nih.gov/pubmed/34975863.

4. Aggarwal AN, Agarwal R, Dhooria S, Prasad KT, Sehgal IS, Muthu V. Impact of COVID-19 pandemic on tuberculosis notifications in India. *Lung India*. 2022;39(1):89-91. https://www.ncbi.nlm.nih.gov/pubmed/34975064.

5. Al-Mashdali AF, Al Samawi MS. Disseminated tuberculosis complicated by hemophagocytic lymphohistiocytosis in an immunocompetent adult with favorable outcomes: A case report. *IDCases*. 2022;27:e01370. https://www.ncbi.nlm.nih.gov/pubmed/35004176.

6. Almazloum A, Elgazzar T, Alkhayat M, Alansari LA, Almustanyir S. A Case Report of Renal Tuberculosis With Associated Unusual Pulmonary Findings. *Cureus*. 2021;13(11):e19972. https://www.ncbi.nlm.nih.gov/pubmed/34984132.

7. Alvarez-Eraso KLF, Munoz-Martinez LM, Alzate JF, Barrera LF, Baena A. Modulatory Impact of the sRNA Mcr11 in Two Clinical Isolates of Mycobacterium tuberculosis. *Curr Microbiol*. 2022;79(2):39. https://www.ncbi.nlm.nih.gov/pubmed/34982251.

8. Anand S, Singla R, Kumar V, Dewan S, Faye A, Gupta A. A new role of extracorporeal membrane oxygenation in the management of tuberculosis with acute respiratory distress syndrome: A case report and review of literature. *Lung India*. 2022;39(1):77-9. https://www.ncbi.nlm.nih.gov/pubmed/34975058.

9. Andrade LS, Silva DR, Santos AP, Mello FCQ. Molecular diagnosis of pulmonary tuberculosis using different respiratory specimens: The spotlight of induced sputum. *Pulmonology*. 2021. https://www.ncbi.nlm.nih.gov/pubmed/34973960.

10. Ashraf M, Goh WA, Tan EMX, Nadarajah R. Corrigendum to "Co-existent abdominoperitoneal tuberculosis with endometrial cancer: A diagnostic and surgical challenge" [Gynecol. Oncol. Rep. 37 (2021) 100848]. *Gynecol Oncol Rep*. 2021;38:100861. https://www.ncbi.nlm.nih.gov/pubmed/34977315.

11. Auguste M, McGuire-Wolfe C, Alonso A, Okobi OE. Analysis of Some Risk Factors of Active Tuberculosis in Three South Florida Counties. *Cureus*. 2021;13(11):e19852. https://www.ncbi.nlm.nih.gov/pubmed/34976484.

12. Bala K, Kumari S, Monga R, Sagar P, Thakar A, Sharma SC, et al. Spectrum of mycobacterial pathogens responsible for head and neck tuberculosis-like presentation. *Access Microbiol*. 2021;3(12):000304. https://www.ncbi.nlm.nih.gov/pubmed/35024562.

13. Baluku JB, Mayinja E, Mugabe P, Ntabadde K, Olum R, Bongomin F. Prevalence of anaemia and associated factors among people with pulmonary tuberculosis in Uganda. *Epidemiol Infect.* 2022:1-19. https://www.ncbi.nlm.nih.gov/pubmed/35022106.

14. Basham CA, Karim ME. An E-value analysis of potential unmeasured or residual confounding in systematic reviews of post-tuberculosis mortality, respiratory disease, and cardiovascular disease. *Ann Epidemiol.* 2021. https://www.ncbi.nlm.nih.gov/pubmed/34973421.

15. Borges KCM, da Costa AC, de Souza Barbosa LC, Ribeiro KM, Dos Anjos LRB, Kipnis A, et al. Tuberculosis, BCG Vaccination and COVID-19: Are They Connected? *Mini Rev Med Chem.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/34983348.

16. Borges M, Rocha AP, Veiga de Macedo C, Milheiro Silva T, Gouveia C, Candeias F, et al. [Pediatric Tuberculosis: 12 Years of Experience in a Tertiary Referral Center in Portugal]. *Acta Med Port.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/34989667.

17. Borkowska-Tatar D, Krasinska M, Augustynowicz-Kopec E. QuantiFERON-TB Gold Plus Test in Diagnostics of Latent Tuberculosis Infection in Children Aged 1-14 in a Country with a Low Tuberculosis Incidence. *Pol J Microbiol.* 2021;70(4):461-8. https://www.ncbi.nlm.nih.gov/pubmed/35003277.

18. Brito AC, Oliveira CMM, Unger DA, Bittencourt MJS. Cutaneous tuberculosis: epidemiological, clinical, diagnostic and therapeutic update. *An Bras Dermatol.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/34996655.

19. Burke RM, Nyirenda S, Twabi HH, Nliwasa M, Joekes E, Walker N, et al. Design and protocol for a cluster randomised trial of enhanced diagnostics for tuberculosis screening among people living with HIV in hospital in Malawi (CASTLE study). *PLoS One.* 2022;17(1):e0261877. https://www.ncbi.nlm.nih.gov/pubmed/35007306.

20. Coppola M, Lai RP, Wilkinson RJ, Ottenhoff THM. The In Vivo Transcriptomic Blueprint of Mycobacterium tuberculosis in the Lung. *Front Immunol.* 2021;12:763364. https://www.ncbi.nlm.nih.gov/pubmed/35003075.

21. Damji K, Hashmi AH, Kyi LL, Vincenti-Delmas M, Htun WPP, Ko Ko Aung H, et al. Cross-sectional study of nutritional intake among patients undergoing tuberculosis treatment along the Myanmar-Thailand border. *BMJ Open.* 2022;12(1):e052981. https://www.ncbi.nlm.nih.gov/pubmed/34996791.

22. de Waal AM, Hiemstra PS, Ottenhoff TH, Joosten SA, van der Does AM. Lung epithelial cells interact with immune cells and bacteria to shape the microenvironment in tuberculosis. *Thorax.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/35017314.

23. Deelder W, Napier G, Campino S, Palla L, Phelan J, Clark TG. A modified decision tree approach to improve the prediction and mutation discovery for drug resistance in Mycobacterium tuberculosis. *BMC Genomics.* 2022;23(1):46. https://www.ncbi.nlm.nih.gov/pubmed/35016609.

24. Didkowska A, Orlowska B, Krajewska-Wedzina M, Augustynowicz-Kopec E, Brzezinska S, Zygowska M, et al. Microbiological and molecular monitoring for bovine tuberculosis in the Polish population of European bison (Bison bonasus). *Ann Agric Environ Med*. 2021;28(4):575-8. https://www.ncbi.nlm.nih.gov/pubmed/34969213.

25. Dohal M, Dvorakova V, Sperkova M, Porvaznik I, Cabibbe AM, Trovato A, et al. Anti-tuberculosis drug resistance in Slovakia, 2018-2019: The first whole-genome epidemiological study. *J Clin Tuberc Other Mycobact Dis*. 2022;26:100292. https://www.ncbi.nlm.nih.gov/pubmed/35005254.

26. Drobish I, Ramchandar N, Raabe V, Pong A, Bradley J, Cannavino C. Pediatric Osteoarticular Infections Caused by Mycobacteria Tuberculosis Complex: A 26-year Review of Cases in San Diego, CA. *Pediatr Infect Dis J*. 2021. https://www.ncbi.nlm.nih.gov/pubmed/34974478.

27. Drobniewski F, Keshavjee S. COVID-19 and Tuberculosis-A Global Tale of Hubris and Lessons Unlearned? *Front Med (Lausanne)*. 2021;8:799640. https://www.ncbi.nlm.nih.gov/pubmed/35004775.

28. Fatima S, Kumari A, Dwivedi VP. Advances in adjunct therapy against tuberculosis: Deciphering the emerging role of phytochemicals. *MedComm* (2020). 2021;2(4):494-513. https://www.ncbi.nlm.nih.gov/pubmed/35004775.

29. Fazaludeen Koya S, Lordson J, Khan S, Kumar B, Grace C, Nayar KR, et al. Tuberculosis and Diabetes in India: Stakeholder Perspectives on Health System Challenges and Opportunities for Integrated Care. *J Epidemiol Glob Health*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35006580.

30. Ghazy RM, El Saeh HM, Abdulaziz S, Hammouda EA, Elzorkany AM, Khidr H, et al. A systematic review and meta-analysis of the catastrophic costs incurred by tuberculosis patients. *Sci Rep*. 2022;12(1):558. https://www.ncbi.nlm.nih.gov/pubmed/35017604.

31. Giannelli F, Cozzi D, Cavigli E, Campolmi I, Rinaldi F, Giache S, et al. Lung ultrasound (LUS) in pulmonary tuberculosis: correlation with chest CT and X-ray findings. *J Ultrasound*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35001323.

32. Gibson AJ, Passmore IJ, Faulkner V, Xia D, Nobeli I, Stiens J, et al. Probing Differences in Gene Essentiality Between the Human and Animal Adapted Lineages of the Mycobacterium tuberculosis Complex Using TnSeq. *Front Vet Sci*. 2021;8:760717. https://www.ncbi.nlm.nih.gov/pubmed/35004921.

33. Gilmour B, Xu Z, Bai L, Addis Alene K, Clements ACA. Risk factors associated with unsuccessful tuberculosis treatment outcomes in Hunan Province, China. *Trop Med Int Health*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35014123.

34. Gulati HK, Mawlong M, Agarwal A, Ranee KR. Comparative Evaluation of Clinical, Cytological and Microbiological Profile in Abdominal vs. Cervical Lymph Nodal Tuberculosis with Special Emphasis on Utility of Auramine-O Staining. *J Cytol*. 2021;38(4):191-7. https://www.ncbi.nlm.nih.gov/pubmed/35002111.

35. Hatakeyama S, Ohyama C. Editorial Comment to A case of miliary tuberculosis following transurethral surgery and prostate biopsy after intravesical bacillus Calmette-Guerin immunotherapy. *IJU Case Rep*. 2022;5(1):47-8. https://www.ncbi.nlm.nih.gov/pubmed/35005472.

36. Hayward SE, Deal A, Rustage K, Nellums LB, Sweetland AC, Boccia D, et al. The relationship between mental health and risk of active tuberculosis: a systematic review. *BMJ Open*. 2022;12(1):e048945. https://www.ncbi.nlm.nih.gov/pubmed/34992103.

37. Jeyanathan M, Fritz DK, Afkhami S, Aguirre E, Howie KJ, Zganiacz A, et al. Aerosol delivery, but not intramuscular injection, of adenovirus-vectored tuberculosis vaccine induces respiratory-mucosal immunity in humans. *JCI Insight*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/34990408.

38. Ji H, Xu J, Wu R, Chen X, Lv X, Liu H, et al. Cut-off Points of Treatment Delay to Predict Poor Outcomes Among New Pulmonary Tuberculosis Cases in Dalian, China: A Cohort Study. *Infect Drug Resist*. 2021;14:5521-30. https://www.ncbi.nlm.nih.gov/pubmed/34984007.

39. Jiao WW, Wang GR, Sun L, Xiao J, Li JQ, Wang YC, et al. Multiple Cross Displacement Amplification Combined With Real-Time Polymerase Chain Reaction Platform: A Rapid, Sensitive Method to Detect Mycobacterium tuberculosis. *Front Microbiol*. 2021;12:812690. https://www.ncbi.nlm.nih.gov/pubmed/35003045.

40. Kaaba C, Ruperez M, Kosloff B, Ndunda N, Shanaube K, Ayles H. Assessing usability of QIAreach QuantiFERON-TB platform in a high tuberculosis prevalence, low-resource setting. *ERJ Open Res*. 2021;7(4). https://www.ncbi.nlm.nih.gov/pubmed/34988218.

41. Kafle G, Garg B, Mehta N, Sharma R, Singh U, Kandasamy D, et al. Diagnostic yield of image-guided biopsy in patients with suspected infectious spondylodiscitis : a prospective study from a tuberculosis-endemic country. *Bone Joint J*. 2022;104-B(1):120-6. https://www.ncbi.nlm.nih.gov/pubmed/34969288.

42. Kanaparthi KJ, Afroz S, Minhas G, Moitra A, Khan RA, Medikonda J, et al. Immunogenic profiling of Mycobacterium tuberculosis DosR protein Rv0569 reveals its ability to switch on Th1 based immunity. *Immunol Lett*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35007662.

43. Khalil MO, Al-Tikrity MA, Saffo HA, Yassin MA. Severe Hypokalemia as a Rare Presentation of Disseminated Tuberculosis. *Oman Med J*. 2021;36(6):e328. https://www.ncbi.nlm.nih.gov/pubmed/35024175.

44. Kikuchi T, Nakamura M, Hachisu Y, Hirai S, Yokoyama E. Molecular epidemiological analysis of Mycobacterium tuberculosis modern Beijing genotype strains isolated in Chiba Prefecture over 10 years. *J Infect Chemother*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35016826.

45. Koele SE, van Beek SW, Maartens G, Brust JCM, Svensson EM. Optimized loading dose strategies for bedaquiline when restarting interrupted drug-resistant tuberculosis treatment. *Antimicrob Agents Chemother*. 2022:AAC0174921. https://www.ncbi.nlm.nih.gov/pubmed/35007141.

46. Kunin M, Timlin M, Lemoh C, Sheffield DA, Russo A, Hazara S, et al. Improving screening and management of latent tuberculosis infection: development and evaluation of latent tuberculosis infection primary care model. *BMC Infect Dis.* 2022;22(1):49. https://www.ncbi.nlm.nih.gov/pubmed/35022023.

47. Kurokawa Y, Kawai T, Miyakawa J, Makise N, Akiyama Y, Yamada Y, et al. A case of miliary tuberculosis following transurethral surgery and prostate biopsy after intravesical Bacillus Calmette-Guerin immunotherapy. *IJU Case Rep.* 2022;5(1):45-7. https://www.ncbi.nlm.nih.gov/pubmed/35005471.

48. Laborada J, Cohen PR. Tuberculosis-Associated Erythema Nodosum. *Cureus.* 2021;13(12):e20184. https://www.ncbi.nlm.nih.gov/pubmed/35004007.

49. Le X, Guo X, Sun J, Liu L, Shen Y, Wang J, et al. Pharmacokinetic features of dolutegravir with rifampicin and rifabutin among patients coinfected with human immunodeficiency virus and tuberculosis/mycobacterium avium complex. *Int J Infect Dis.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/34999246.

50. Lee D, Lee E, Jang S, Kim K, Cho E, Mun SJ, et al. Discovery of Mycobacterium tuberculosis Rv3364c-Derived Small Molecules as Potential Therapeutic Agents to Target SNX9 for Sepsis. *J Med Chem.* 2022;65(1):386-408. https://www.ncbi.nlm.nih.gov/pubmed/34982557.

51. Lee JJ, Chang JM, Yang LJ, Hsu CC, Lin MH, Lin MY. Trends of treated hepatitis B, hepatitis C, and tuberculosis infection in long-term hemodialysis patients in Taiwan: A nationwide survey in 2010-2018. *J Formos Med Assoc.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/34996670.

52. Li Q, Jiang L. Diffuse Tracheobronchial Tuberculosis With Left Pulmonary Tuberculosis Displayed on 18F-FDG PET/CT. *Clin Nucl Med.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/35020654.

53. Li T, Wang L, Guo C, Zhang H, Xu P, Liu S, et al. Polymorphisms of SLC11A1(NRAMP1) rs17235409 associated with and susceptibility to spinal tuberculosis in a southern Han Chinese population. *Infect Genet Evol.* 2022;98:105202. https://www.ncbi.nlm.nih.gov/pubmed/34990850.

54. Liang J, Fu L, Li M, Chen Y, Wang Y, Lin Y, et al. Allogeneic Vgamma9Vdelta2 T-Cell Therapy Promotes Pulmonary Lesion Repair: An Open-Label, Single-Arm Pilot Study in Patients With Multidrug-Resistant Tuberculosis. *Front Immunol.* 2021;12:756495. https://www.ncbi.nlm.nih.gov/pubmed/34975844.

55. Liu L, Li X. Comment on "Smoking prevalence and effects on treatment outcomes in patients with tuberculosis". *Rev Assoc Med Bras* (1992). 2021;67(10):1519. https://www.ncbi.nlm.nih.gov/pubmed/35018989.

56. Lopez-Constantino S, Barragan EA, Alfonseca-Silva E. Reduced levels of serum 25(OH)D3 are associated with tuberculosis positive cattle under conditions of high natural exposure to Mycobacterium bovis. *Comp Immunol Microbiol Infect Dis.* 2022;81:101746. https://www.ncbi.nlm.nih.gov/pubmed/35030535.

57. Lorente-Leal V, Farrell D, Romero B, Alvarez J, de Juan L, Gordon SV. Performance and Agreement Between WGS Variant Calling Pipelines Used for Bovine Tuberculosis Control: Toward International Standardization. *Front Vet Sci*. 2021;8:780018. https://www.ncbi.nlm.nih.gov/pubmed/34970617.

58. Lungu P, Njelesani E, Sukwa T, Ngalamika O, Munsaka S, Kilembe W, et al. Immune correlates of Mycobacterium Tuberculosis patients in Zambia stratified by HIV serostatus and level of immunity-a cross-sectional analytical laboratory based study. *PLoS One*. 2022;17(1):e0262454. https://www.ncbi.nlm.nih.gov/pubmed/35025927.

59. Luo Y, Xue Y, Song H, Tang G, Liu W, Bai H, et al. Machine learning based on routine laboratory indicators promoting the discrimination between active tuberculosis and latent tuberculosis infection. *J Infect*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/34995637.

60. Lyu XL, Lin TT, Gao JT, Jia HY, Zhu CZ, Li ZH, et al. The Activities and Secretion of Cytokines Caused by Delamanid on Macrophages Infected by Multidrug-Resistant Mycobacterium tuberculosis Strains. *Front Immunol*. 2021;12:796677. https://www.ncbi.nlm.nih.gov/pubmed/35003120.

61. Ma J, Jiang G, Ma Q, Du M, Wang H, Wu J, et al. Portable immunosensor directly and rapidly detects Mycobacterium tuberculosis in sputum. *Anal Methods*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35022623.

62. Ma S, Zhou Z, Wan Z, Duan P, Huang S, Xu J, et al. Osteotomized debridement versus curetted debridement in posterior approach in treating thoracolumbar tuberculosis: a comparative study. *Eur Spine J*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/34981259.

63. Madan K, Sryma PB, Pattnaik B, Mittal S, Tiwari P, Hadda V, et al. Clinical Profile of 327 patients with Sarcoidosis in India: An Ambispective Cohort Study in a Tuberculosis (TB) Endemic Population. *Lung India*. 2022;39(1):51-7. https://www.ncbi.nlm.nih.gov/pubmed/34975053.

64. Marin M, Vargas R, Harris M, Jeffrey B, Epperson LE, Durbin D, et al. Benchmarking the empirical accuracy of short-read sequencing across the M. tuberculosis genome. *Bioinformatics*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35020793.

65. Masood M, Wasserman R, Nagesh V, Sifuentes H. P040 Latent Tuberculosis Infection In A Patient With A Negative Interferon Gamma Release Assay Prior to Biologic Initiation for Crohn's Disease. *Am J Gastroenterol*. 2021;116(Suppl 1):S10. https://www.ncbi.nlm.nih.gov/pubmed/35006167.

66. Maulahela H, Fauzi A. Peripancreatic Tuberculosis Lymphadenopathy: The Role of Endoscopic Ultrasound for Diagnosis. *Acta Med Indones*. 2021;53(4):457-9. https://www.ncbi.nlm.nih.gov/pubmed/35027493.

67. Mave V, Chen L, Ranganathan UD, Kadam D, Vishwanathan V, Lokhande R, et al. Whole Genome Sequencing Assessing Impact of Diabetes Mellitus on Tuberculosis Mutations and Type of Recurrence in India. *Clin Infect Dis*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/34984435.

68. Mesic A. Drug resistant tuberculosis in Afghanistan: We must continue to put people at the centre of treatment. *BMJ*. 2022;376:o46. https://www.ncbi.nlm.nih.gov/pubmed/35012958.

69. Mesic A, Ishaq S, Khan WH, Mureed A, Thet Mar H, Ei Khaing E, et al. Person-centred care and short oral treatment for rifampicin-resistant tuberculosis improve retention in care in Kandahar, Afghanistan. *Trop Med Int Health*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/34978748.

70. Mesquita AL, Coutinho J, Filho LAF, Marques SM, Borges M. Cranial Base Pachymeningitis in Children: Beyond Tuberculosis. *Pediatr Infect Dis J*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35027513.

71. Momeny M, Neshat AA, Gholizadeh A, Jafarnezhad A, Rahmanzadeh E, Marhamati M, et al. Greedy Autoaugment for classification of mycobacterium tuberculosis image via generalized deep CNN using mixed pooling based on minimum square rough entropy. *Comput Biol Med*. 2021;141:105175. https://www.ncbi.nlm.nih.gov/pubmed/34971977.

72. Mulder C, Rupert S, Setiawan E, Mambetova E, Edo P, Sugiharto J, et al. Budgetary impact of using BPaL for treating extensively drug-resistant tuberculosis. *BMJ Glob Health*. 2022;7(1). https://www.ncbi.nlm.nih.gov/pubmed/34992077.

73. Musisi E, Sessolo A, Kaswabuli S, Zawedde J, Byanyima P, Kasinga S, et al. High Mycobacterium tuberculosis Bacillary Loads Detected by Tuberculosis Molecular Bacterial Load Assay in Patient Stool: a Potential Alternative for Nonsputum Diagnosis and Treatment Response Monitoring of Tuberculosis. *Microbiol Spectr*. 2022:e0210021. https://www.ncbi.nlm.nih.gov/pubmed/35019686.

74. Mustapha ZA, Jani J, Stanis CS, Abdull Majid DSN, Ling CK, Teo R, et al. Whole-Genome Sequencing of Streptomycin-Resistant Mycobacterium tuberculosis Strain SBH145 from Sabah, Malaysia. *Microbiol Resour Announc*. 2022:e0104021. https://www.ncbi.nlm.nih.gov/pubmed/34989616.

75. Nanda A, Nasker SS, Kushwaha AK, Ojha DK, Dearden AK, Nayak SK, et al. Gold Nanoparticles Augment N-Terminal Cleavage and Splicing Reactions in Mycobacterium tuberculosis SufB. *Front Bioeng Biotechnol*. 2021;9:773303. https://www.ncbi.nlm.nih.gov/pubmed/35004641.

76. Niranjan N, George R. Gastrointestinal tuberculosis presenting as a diagnostic dilemma with unusual sequalae of Posterior Reversible Encephalopathy Syndrome. *ANZ J Surg*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35005828.

77. Nyirenda JLZ, Wagner D, Ngwira B, Lange B. Bidirectional screening and treatment outcomes of diabetes mellitus (DM) and Tuberculosis (TB) patients in hospitals with measures to integrate care of DM and TB and those without integration measures in Malawi. *BMC Infect Dis*. 2022;22(1):28. https://www.ncbi.nlm.nih.gov/pubmed/34983434.

78. Omar SV, Ismail F, Ndjeka N, Kaniga K, Ismail NA. Bedaquiline-Resistant Tuberculosis Associated with Rv0678 Mutations. *N Engl J Med*. 2022;386(1):93-4. https://www.ncbi.nlm.nih.gov/pubmed/34986292.

79. Ozlu C, Turkucar S, Asrak HK, Dundar HA, Unsal SE, Belet N. Tuberculosis risk in the biologic era: tuberculin skin test conversion rates in children with rheumatologic diseases. *Turk J Pediatr.* 2021;63(6):978-85. https://www.ncbi.nlm.nih.gov/pubmed/35023647.

80. Pai M, Kasaeva T, Swaminathan S. Covid-19's Devastating Effect on Tuberculosis Care - A Path to Recovery. *N Engl J Med.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/34986295.

81. Palmer M, Gunasekera KS, van der Zalm MM, Morrison J, Schaaf HS, Goussard P, et al. The diagnostic accuracy of chest radiographic features for pediatric intrathoracic tuberculosis. *Clin Infect Dis.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/35015857.

82. Parsaei M, Spotin A, Matini M, Mahjub H, Aghazadeh M, Ghahremani G, et al. Prevalence of toxoplasmosis in patients infected with tuberculosis; a sero-molecular case-control study in northwest Iran. *Comp Immunol Microbiol Infect Dis.* 2021;81:101720. https://www.ncbi.nlm.nih.gov/pubmed/34990934.

83. Patidar A, Malhotra H, Chaudhary S, Kumar M, Dilawari R, Chaubey GK, et al. Host glyceraldehyde-3-phosphate dehydrogenase-mediated iron acquisition is hijacked by intraphagosomal Mycobacterium tuberculosis. *Cell Mol Life Sci.* 2022;79(1):62. https://www.ncbi.nlm.nih.gov/pubmed/35001155.

84. Pepi MJ, Chacko S, Marqus GM, Singh V, Wang Z, Planck K, et al. A d-Phenylalanine-Benzoxazole Derivative Reveals the Role of the Essential Enzyme Rv3603c in the Pantothenate Biosynthetic Pathway of Mycobacterium tuberculosis. *ACS Infect Dis.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/35015509.

85. Perveen S, Kumari D, Singh K, Sharma R. Tuberculosis drug discovery: Progression and future interventions in the wake of emerging resistance. *Eur J Med Chem.* 2021;229:114066. https://www.ncbi.nlm.nih.gov/pubmed/34973508.

86. Perveen S, Sharma R. Screening approaches and therapeutic targets: The two driving wheels of tuberculosis drug discovery. *Biochem Pharmacol.* 2022;197:114906. https://www.ncbi.nlm.nih.gov/pubmed/34990594.

87. Pietersen E, Anderson K, van der Heijden YF. Public health and hospital-based nursing intersection: Case study of drug-resistant tuberculosis patients. *Public Health Nurs.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/34990027.

88. Qiao W, Fan J, Shang X, Wang L, Tuohetaerbaike B, Li Y, et al. Bioinformation Analysis Reveals IFIT1 as Potential Biomarkers in Central Nervous System Tuberculosis. *Infect Drug Resist.* 2022;15:35-45. https://www.ncbi.nlm.nih.gov/pubmed/35027832.

89. Quinonez CG, Lee JJ, Lim J, Odell M, Lawson CP, Anyogu A, et al. The Role of Fatty Acid Metabolism in Drug Tolerance of Mycobacterium tuberculosis. *mBio.* 2022:e0355921. https://www.ncbi.nlm.nih.gov/pubmed/35012349.

90. Rajput A, Mandlik S, Pokharkar V. Nanocarrier-Based Approaches for the Efficient Delivery of Anti-Tubercular Drugs and Vaccines for Management of Tuberculosis. *Front Pharmacol.* 2021;12:749945. https://www.ncbi.nlm.nih.gov/pubmed/34992530.

91. Ramakrishnan RK, Barma SD, Shetty AP, Viswanathan VK, Kanna RM, Rajasekaran S. Posterior-only stabilization versus global reconstruction in thoracic and thoracolumbar spinal tuberculosis; a prospective randomized study. *Int Orthop*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35020025.

92. Ramon-Luing LA, Carranza C, Tellez-Navarrete NA, Medina-Quero K, Gonzalez Y, Torres M, et al. Mycobacterium tuberculosis H37Rv Strain Increases the Frequency of CD3(+)TCR(+) Macrophages and Affects Their Phenotype, but Not Their Migration Ability. *Int J Mol Sci*. 2021;23(1). https://www.ncbi.nlm.nih.gov/pubmed/35008755.

93. Ranaivomanana P, Ratovoson R, Razafimahatratra C, Razafimahefa A, Hoffmann J, Herindrainy P, et al. Longitudinal Variations of M. tuberculosis-Induced IFN-gamma Responses in HIV-Negative Pregnant Women Exposed to Tuberculosis. *Front Immunol*. 2021;12:805157. https://www.ncbi.nlm.nih.gov/pubmed/35003135.

94. Sahile Z, Perimal-Lewis L, Arbon P, Maeder AJ. Protocol of a parallel group Randomized Control Trial (RCT) for Mobile-assisted Medication Adherence Support (Ma-MAS) intervention among Tuberculosis patients. *PLoS One*. 2021;16(12):e0261758. https://www.ncbi.nlm.nih.gov/pubmed/34972128.

95. Salh AM, Kakamad FH, Hassan SH, Abdullah AM, Hassan MA, Abdulla BA. Hobnail variant of papillary thyroid carcinoma with anaplastic dedifferentiation co-existent with tuberculosis lymphadenitis. *Int J Surg Case Rep*. 2022;90:106690. https://www.ncbi.nlm.nih.gov/pubmed/34973627.

96. Saxena D, Duncan RA, Faust RR, Campagna A. Abdominal cyst of unclear aetiology: gastrointestinal stromal tumour or reactivation of abdominal tuberculosis. *BMJ Case Rep*. 2022;15(1). https://www.ncbi.nlm.nih.gov/pubmed/34992056.

97. Sebastiao CS, Samulengo J, Sacomboio E, Francisco NM, Teixeira C, Antonio S, et al. Epidemiological Characteristics and Risk Factors Related to Drug-resistant Tuberculosis in Luanda, Angola. *Am J Trop Med Hyg*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35008058.

98. Seyyedi SR, Tabarsi P, Sadr M, Aloosh O, Keshmiri MS, Abedini A, et al. Bronchial Angioembolization for Management of Hemoptysis Due to Pulmonary Tuberculosis. *Tanaffos*. 2021;20(2):134-9. https://www.ncbi.nlm.nih.gov/pubmed/34976084.

99. Shah PM, Deshmukh V, Poncha F, Dhakre V. New Onset Refractory Status Epilepticus as a Manifestation of Tuberculosis of the Central Nervous System. *Neurol India*. 2021;69(6):1802-4. https://www.ncbi.nlm.nih.gov/pubmed/34979693.

100. Shah Y, Paudel S, Pandey K, Gupta GP, Solo ES, Joshi J, et al. Insights into transmission dynamics of Mycobacterium tuberculosis complex in Nepal. *Trop Med Health*. 2022;50(1):8. https://www.ncbi.nlm.nih.gov/pubmed/35012673.

101. Shariq M, Quadir N, Alam A, Zarin S, Sheikh JA, Sharma N, et al. The exploitation of host autophagy and ubiquitin machinery by Mycobacterium tuberculosis in shaping immune responses and host defense during infection. *Autophagy*. 2022:1-22. https://www.ncbi.nlm.nih.gov/pubmed/35000542.

102. Sharma T, Alam A, Ehtram A, Rani A, Grover S, Ehtesham NZ, et al. The Mycobacterium tuberculosis PE_PGRS Protein Family Acts as an Immunological Decoy to Subvert Host Immune Response. *Int J Mol Sci*. 2022;23(1). https://www.ncbi.nlm.nih.gov/pubmed/35008950.

103. Sheikh BA, Bhat BA, Alshehri B, Mir RA, Mir WR, Parry ZA, et al. Nano-Drug Delivery Systems: Possible End to the Rising Threats of Tuberculosis. *J Biomed Nanotechnol*. 2021;17(12):2298-318. https://www.ncbi.nlm.nih.gov/pubmed/34974855.

104. Sheikhpour M, Shokrgozar MA, Biglari A, Pornour M, Abdolrahimi F, Poorazar Dizaji S, et al. Gene Expression and In Vitro Pharmacogenetic Studies of Dopamine and Serotonin Gene Receptors in Tuberculosis. *Tanaffos*. 2021;20(2):126-33. https://www.ncbi.nlm.nih.gov/pubmed/34976083.

105. Shen Y, Qi X, Wu J, Gao Y, Shao L, Zhang W, et al. Effect of adjusted cut-offs of interferon-gamma release assays on diagnosis of tuberculosis in patients with fever of unknown origin. *J Clin Tuberc Other Mycobact Dis*. 2022;26:100290. https://www.ncbi.nlm.nih.gov/pubmed/35005253.

106. Skowronski M, Michalski W, Zozulinska-Ziolkiewicz D, Halicka A, Barinow-Wojewodzki A. More cavities and a higher body mass index in diabetic patients with tuberculosis compared with nondiabetic subjects: an observational study. *Pol Arch Intern Med*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/34985234.

107. Soedarsono S, Jayanti RP, Mertaniasih NM, Kusmiati T, Permatasari A, Indrawanto DW, et al. Development of Population Pharmacokinetics Model of Isoniazid in Indonesian Tuberculosis Patients. *Int J Infect Dis*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35017103.

108. Srinivas V, Ruiz RA, Pan M, Immanuel SRC, Peterson EJR, Baliga NS. Transcriptome signature of cell viability predicts drug response and drug interaction in Mycobacterium tuberculosis. *Cell Rep Methods*. 2021;1(8):None. https://www.ncbi.nlm.nih.gov/pubmed/34977849.

109. Stuck L, van Haaster AC, Kapata-Chanda P, Klinkenberg E, Kapata N, Cobelens F. How 'subclinical' is subclinical tuberculosis? An analysis of national prevalence survey data from Zambia. *Clin Infect Dis*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/34984431.

110. Tembe N, Machaba KE, Ndagi U, Kumalo HM, Mhlongo NN. Ursolic acid as a potential inhibitor of Mycobacterium tuberculosis cytochrome bc1 oxidase-a molecular modelling perspective. *J Mol Model*. 2022;28(2):35. https://www.ncbi.nlm.nih.gov/pubmed/35022913.

111. Tesfaye S, Zerfu B, Desta K. Magnitude and associated factors of Intestinal Parasitosis and Tuberculosis among Tuberculosis suspected patients attending Kuyu General Hospital, North Shewa, Oromia, Ethiopia. *PLoS Negl Trop Dis*. 2022;16(1):e0010120. https://www.ncbi.nlm.nih.gov/pubmed/35007304.

112. Valjarevic S, Radaljac D, Miladinovic N. Life-Threatening Stridor due to Laryngeal Tuberculosis in the COVID-19 Era: Report of a Case. *Ear Nose Throat J*. 2022:1455613211070896. https://www.ncbi.nlm.nih.gov/pubmed/34974770.

113. van Wyk SS, Medley N, Young T, Oliver S. Repairing boundaries along pathways to tuberculosis case detection: a qualitative synthesis of intervention designs. *Health Res Policy Syst.* 2022;20(1):7. https://www.ncbi.nlm.nih.gov/pubmed/35012561.

114. Viney K, Itogo N, Yamanaka T, Jebeniani R, Hazarika A, Morishita F, et al. Correction to: Economic evaluation of patient costs associated with tuberculosis diagnosis and care in Solomon Islands. *BMC Public Health.* 2021;21(1):2333. https://www.ncbi.nlm.nih.gov/pubmed/34969390.

115. Wang JL, Zhou M, Zhang YA, Wang MS. Loculations and Associated Risk Factors of Childhood Pleural Tuberculosis. *Front Pediatr.* 2021;9:781042. https://www.ncbi.nlm.nih.gov/pubmed/34976895.

116. Wang XQ, Li YQ, Hu CY, Huang K, Ding K, Yang XJ, et al. Short-term effect of ambient air pollutant change on the risk of tuberculosis outpatient visits: a time-series study in Fuyang, China. *Environ Sci Pollut Res Int.* 2022. https://www.ncbi.nlm.nih.gov/pubmed/34993790.

117. Wang Z, Xie J. Phosphoproteomics of Mycobacterium-host interaction and inspirations for novel measures against tuberculosis. *Cell Signal.* 2022;91:110238. https://www.ncbi.nlm.nih.gov/pubmed/34986388.

118. Wen D, Cui J, Li P, Xiong Q, Chen G, Wu C. Syndecan-4 assists Mycobacterium tuberculosis entry into lung epithelial cells by regulating the Cdc42, N-WASP, and Arp2/3 signaling pathways. *Microbes Infect.* 2022:104931. https://www.ncbi.nlm.nih.gov/pubmed/35026388.

119. Wetscherek MTA, Sadler TJ, Lee JYJ, Karia S, Babar JL. Active pulmonary tuberculosis: something old, something new, something borrowed, something blue. *Insights Imaging.* 2022;13(1):3. https://www.ncbi.nlm.nih.gov/pubmed/35001143.

120. Wong YJ, Ng KY, Lee SWH. Digital health use in latent tuberculosis infection care: A systematic review. *Int J Med Inform.* 2022;159:104687. https://www.ncbi.nlm.nih.gov/pubmed/35007924.

121. Yan Q, Wang W, Zhao W, Zuo L, Wang D, Chai X, et al. Differentiating nontuberculous mycobacterium pulmonary disease from pulmonary tuberculosis through the analysis of the cavity features in CT images using radiomics. *BMC Pulm Med.* 2022;22(1):4. https://www.ncbi.nlm.nih.gov/pubmed/34991543.

122. Yang F, Yu H, Kantipudi K, Karki M, Kassim YM, Rosenthal A, et al. Differentiating between drug-sensitive and drug-resistant tuberculosis with machine learning for clinical and radiological features. *Quant Imaging Med Surg.* 2022;12(1):675-87. https://www.ncbi.nlm.nih.gov/pubmed/34993110.

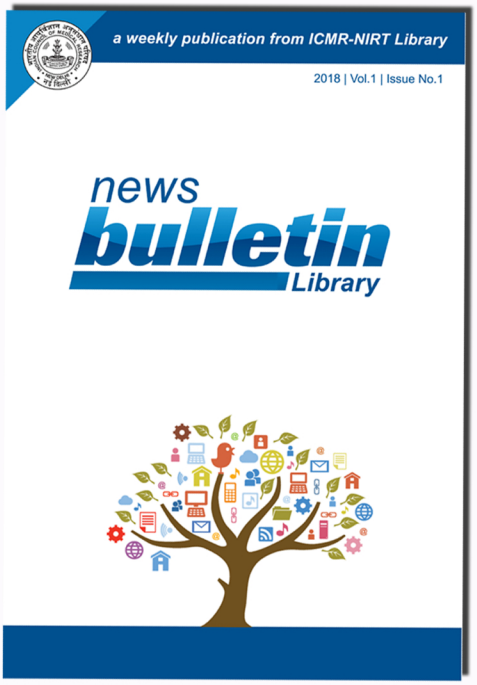
123. Yang G, Wang G, Liu L, Zhai K, Chen X, Chen Y, et al. Protective Effect of Rifampicin Loaded by HPMA-PLA Nanopolymer on Macrophages Infected with Mycobacterium Tuberculosis. *Comput Math Methods Med.* 2022;2022:5784283. https://www.ncbi.nlm.nih.gov/pubmed/35027942.

124. Yanogo PK, Balima C, Meda N. Total, Patient and System Diagnostic Delays for Pulmonary Bacilliferous Tuberculosis in the Six Diagnostic and Treatment Centers in the Five Health Districts of the Central Region, Burkina Faso, 2018. *J Epidemiol Glob Health*. 2022. https://www.ncbi.nlm.nih.gov/pubmed/35027942.

125. Zhan Y, Kang X, Gao W, Zhang X, Kong L, Hao D, et al. Efficacy analysis of one-stage posterior-only surgical treatment for thoracic spinal tuberculosis in the T4-6 segments with minimum 5-year follow-up. *Sci Rep*. 2022;12(1):149. https://www.ncbi.nlm.nih.gov/pubmed/34997091.

126. Zhang X, Chen X, Wang B, Fu L, Huo F, Gao T, et al. Molecular Characteristic of Both Levofloxacin and Moxifloxacin Resistance in Mycobacterium tuberculosis from Individuals Diagnosed with Preextensive Drug-Resistant Tuberculosis. *Microb Drug Resist*. 2021. https://www.ncbi.nlm.nih.gov/pubmed/34981969.

127. Zhou N, Fang K, Arthur VD, Yi R, Xiang F, Wen J, et al. Synovial chondromatosis combine with synovial tuberculosis of knee joint: a case report. *BMC Pediatr*. 2022;22(1):8. https://www.ncbi.nlm.nih.gov/pubmed/34980042.



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