

NCBI Bookshelf. A service of the National Library of Medicine, National Institutes of Health.

Heemskerk D, Caws M, Marais B, et al. *Tuberculosis in Adults and Children*. London: Springer; 2015.

References

- Abdool Karim SS, Naidoo K, Grobler A, Padayatchi N, Baxter C, Gray A, et al. Timing of initiation of antiretroviral drugs during tuberculosis therapy. *New England Journal of Medicine*. 2010;362(8):697–706. [PubMed: 20181971]
- Abdool Karim SS, Naidoo K, Grobler A, Padayatchi N, Baxter C, Gray AL, et al. Integration of antiretroviral therapy with tuberculosis treatment. *New England Journal of Medicine*. 2013;365(16):1492–1501.
- Abdurrahman ST, Emenyonu N, Obasanya OJ, Lawson L, Dacombe R, Muhammad M, et al. The hidden costs of installing xpert machines in a tuberculosis high-burden country: Experiences from Nigeria. *The Pan African Medical Journal*. 2014;18:277. [PubMed: 25489371]
- Anderson LF, Tamne S, Brown T, Watson JP, Mullarkey C, Zenner D, Abubakar I. Transmission of multidrug-resistant tuberculosis in the UK: A cross-sectional molecular and epidemiological study of clustering and contact tracing. *The Lancet Infectious Diseases*. 2014;14(5):406–415. [PubMed: 24602842]
- Aranow C. Vitamin D and the immune system. *Journal of Investigative Medicine*. 2011;59(6):881–886. [PubMed: 21527855]
- Bamrah S, Brostrom R, Dorina F, Setik L, Song R, Kawamura LM, et al. Treatment for LTBI in contacts of MDR-TB patients, Federated States of Micronesia, 2009–2012. *The International Journal of Tuberculosis and Lung Disease*. 2014;18(8):912–918. [PubMed: 25199004]
- Barry PM, Gardner TJ, Funk E, Oren E, Field K, Shaw T, Langer AJ. Multistate outbreak of MDR TB identified by genotype cluster investigation. *Emerging Infectious Diseases*. 2012;18(1):113–116. [PubMed: 22260877]
- Benwill JL, Sarria JC. Laryngeal tuberculosis in the United States of America: A forgotten disease. *Scandinavian Journal of Infectious Diseases*. 2014;46(4):241–249. [PubMed: 24628484]
- Blanc FX, Sok T, Laureillard D, Borand L, Rekacewicz C, Nerrienet E, et al. Earlier versus later start of antiretroviral therapy in HIV-infected adults with tuberculosis. *New England Journal of Medicine*. 2011;365(16):1471–1481. [PubMed: 22010913]
- Bonnet M, Bhatt N, Baudin E, Silva C, Michon C, Taburet AM, et al. Nevirapine versus efavirenz for patients co-infected with HIV and tuberculosis: A randomised non-inferiority trial. *The Lancet Infectious Diseases*. 2013;13(4):303–312. [PubMed: 23433590]
- Bonnet M, Ramsay A, Gagnidze L, Githui W, Guerin PJ, Varaine F. Reducing the number of sputum samples examined and thresholds for positivity: An opportunity to optimise smear microscopy. *The International Journal of Tuberculosis and Lung Disease*. 2007;11(9):953–958. [PubMed: 17705971]
- Borrell S, Gagneux S. Infectiousness, reproductive fitness and evolution of drug-resistant *Mycobacterium tuberculosis*. *The International Journal of Tuberculosis and Lung Disease*. 2009;13(12):1456–1466. [PubMed: 19919762]
- Borrell S, Teo Y, Giardina F, Streicher EM, Klopper M, Feldmann J, et al. Epistasis between antibiotic resistance mutations drives the evolution of extensively drug-resistant tuberculosis. *Evolution, Medicine, and Public Health*. 2013;2013(1):65–74.
- Bos KI, Harkins KM, Herbig A, Coscolla M, Weber N, Comas I, et al. Pre-Columbian mycobacterial genomes reveal seals as a source of New World human tuberculosis. *Nature*. 2014
- Cecchini D, Ambrosioni J, Brezzo C, Corti M, Rybko A, Perez M, et al. Tuberculous meningitis in HIV-infected patients: Drug susceptibility and clinical outcome. *AIDS*. 2007;21(3):373–374. [PubMed: 17255747]
- Cegielski P, Nunn P, Kurbatova EV, Weyer K, Dalton TL, Wares DF, et al. Challenges and controversies in defining totally drug-resistant tuberculosis. *Emerging Infectious Diseases*. 2012;18(11):e2.
- Chang KC, Yew WW, Tam CM, Leung CC. WHO group 5 drugs and difficult multidrug-resistant tuberculosis: A systematic review with cohort analysis and meta-analysis. *Antimicrobial Agents and Chemotherapy*. 2013;57(9):4097–4104. [PubMed: 23774431]
- Cheung WY, Luk KD. Clinical and radiological outcomes after conservative treatment of TB spondylitis: Is it the 15 years' follow-up in the MRC study long enough? *European Spine Journal*. 2013;22 Suppl 4:594–602. [PubMed: 22565800]
- Chiang SS, Khan FA, Milstein MB, Tolman AW, Benedetti A, Starke JR, Becerra MC. Treatment outcomes of childhood tuberculous meningitis: A systematic review and meta-analysis. *The Lancet Infectious Diseases*. 2014;14(10):947–957. [PubMed: 25108337]

- Churchyard GJ, Fielding KL, Lewis JJ, Coetzee L, Corbett EL, Godfrey-Faussett P, et al. A trial of mass isoniazid preventive therapy for tuberculosis control. *New England Journal of Medicine*. 2014;370(4):301–310. [PubMed: 24450889]
- Ciardo DE, Burger S, Payer M, Lee C, McCallum N. GeneXpert captures unstable methicillin-resistant *Staphylococcus aureus* prone to rapidly losing the *mecA* gene. *Journal of Clinical Microbiology*. 2010;48(8):3030–3032. [PubMed: 20534797]
- Cobelens FG, van Deutekom H, Draayer-Jansen IW, Schepp-Beelen AC, van Gerven PJ, van Kessel RP, Mensen ME. Risk of infection with *Mycobacterium tuberculosis* in travellers to areas of high tuberculosis endemicity. *The Lancet*. 2000;356(9228):461–465.
- Cohen T, Murray M, Abubakar I, Zhang Z, Slutsky A, Arteaga F, et al. Multiple introductions of MDR TB into households, Lima, Peru. *New England Journal of Medicine*. 2011;17(6):969–975.
- Colditz GA, Brewer TF, Berkey CS, Wilson ME, Burdick E, Fineberg HV, Mosteller F. Efficacy of BCG vaccine in the prevention of tuberculosis. Meta-analysis of the published literature. *JAMA*. 1994;271(9):698–702. [PubMed: 8309034]
- Cole ST, Brosch R, Parkhill J, Garnier T, Churcher C, Harris D, et al. Deciphering the biology of *Mycobacterium tuberculosis* from the complete genome sequence. *Nature*. 1998;393(6685):537–544. [PubMed: 9634230]
- Coll F, Preston M, Guerra-Assuncao JA, Hill-Cawthorn G, Harris D, Perdigao J, et al. PolyTB: A genomic variation map for *Mycobacterium tuberculosis*. *Tuberculosis (Edinb)*. 2013;94(3):346–354.
- Collins CH, Yates MD, Grange JM. Tuberculosis bacteriology: Organisation and practice. UK: CRC Press; 1997.
- Comas I, Coscolla M, Luo T, Borrell S, Holt KE, Kato-Maeda M, et al. Out-of-Africa migration and Neolithic coexpansion of *Mycobacterium tuberculosis* with modern humans. *Nature Genetics*. 2013;45(10):1176–1182. [PubMed: 23995134]
- Coussens AK, Martineau AR, Wilkinson RJ. Anti-inflammatory and antimicrobial actions of vitamin D in combating TB/HIV. *Scientifica (Cairo)*. 2014;2014:903680. [PubMed: 25101194]
- Coussens AK, Wilkinson RJ, Hanifa Y, Nikolayevskyy V, Elkington PT, Islam K, et al. Vitamin D accelerates resolution of inflammatory responses during tuberculosis treatment. *Proceedings of the National Academy of Sciences*. 2012;109(38):15449–15454.
- Cronan MR, Tobin DM. Fit for consumption: Zebrafish as a model for tuberculosis. *Disease models & mechanisms*. 2014;7(7):777–784. [PubMed: 24973748]
- Daley CL, Caminero JA. Management of multidrug resistant tuberculosis. *Seminars in Respiratory and Critical Care Medicine*. 2013;34(1):44–59. [PubMed: 23460005]
- Davies PDO, Gordon SB, Davies GR. Clinical tuberculosis. 5th ed. Boca Raton: CRC Press; 2014.
- de Jong BC, Antonio M, Gagneux S. *Mycobacterium africanum*-review of an important cause of human tuberculosis in West Africa. *PLoS Neglect Tropical Diseases*. 2010;4(9):e744.
- Dharmadhikari AS, Mphahlele M, Venter K, Stoltz A, Mathebula R, Masotla T, et al. Rapid impact of effective treatment on transmission of multidrug-resistant tuberculosis. *The International Journal of Tuberculosis and Lung Disease*. 2014;18(9):1019–1025. [PubMed: 25189547]
- Diacon AH, Donald PR, Pym A, Grobusch M, Patientia RF, Mahanyele R, et al. Randomized pilot trial of eight weeks of bedaquiline (TMC207) treatment for multidrug-resistant tuberculosis: Long-term outcome, tolerability, and effect on emergence of drug resistance. *Antimicrobial Agents and Chemotherapy*. 2012;56(6):3271–3276. [PubMed: 22391540]
- Diacon AH, Pym A, Grobusch MP, de los Rios JM, Gotuzzo E, Vasilyeva I, et al. Multidrug-resistant tuberculosis and culture conversion with bedaquiline. *New England Journal of Medicine*. 2014;371(8):723–732. [PubMed: 25140958]
- Diacon AH, von Groote-Bidlingmaier F, Donald PR. From magic mountain to table mountain. *Swiss Medical Weekly*. 2012;142:w13665. [PubMed: 22915310]
- Donald PR, Schaaf HS, Schoeman JF. Tuberculous meningitis and miliary tuberculosis: The rich focus revisited. *Journal of Infection*. 2005;50(3):193–195. [PubMed: 15780412]
- Dye C, Williams BG. The population dynamics and control of tuberculosis. *Science*. 2010;328(5980):856–861. [PubMed: 20466923]
- Escombe AR, Moore DA, Gilman RH, Pan W, Navincopa M, Ticona E, et al. The infectiousness of tuberculosis patients coinfectected with HIV. *PLoS Medical*. 2008;5(9):e188.
- Feng Y, Liu S, Wang Q, Wang L, Tang S, Wang J, Lu W. Rapid diagnosis of drug resistance to fluoroquinolones, amikacin, capreomycin, kanamycin and ethambutol using genotype MTBDRsl assay: A meta-analysis. *PLoS ONE*. 2013;8(2):e55292. [PubMed: 23383320]

- Fitness J, Floyd S, Warndorff DK, Sichali L, Malema S, Crampin AC, et al. Large-scale candidate gene study of tuberculosis susceptibility in the Karonga district of Northern Malawi. *American Journal of Tropical Medicine and Hygiene*. 2004;71(3):341–349. [PubMed: 15381817]
- Flynn JL, Chan J, Triebold KJ, Dalton DK, Stewart TA, Bloom BR. An essential role for interferon gamma in resistance to *Mycobacterium tuberculosis* infection. *Journal of Experimental Medicine*. 1993;178(6):2249–2254. [PubMed: 7504064]
- Ford CB, Shah RR, Maeda MK, Gagneux S, Murray MB, Cohen T, et al. *Mycobacterium tuberculosis* mutation rate estimates from different lineages predict substantial differences in the emergence of drug-resistant tuberculosis. *Nature Genetics*. 2013;45(7):784–790. [PubMed: 23749189]
- Fowler NO. Tuberculous pericarditis. *JAMA*. 1991;266(1):99–103. [PubMed: 2046135]
- Gao L, Tao Y, Zhang L, Jin Q. Vitamin D receptor genetic polymorphisms and tuberculosis: Updated systematic review and meta-analysis. *The International Journal of Tuberculosis and Lung Disease*. 2010;14(1):15–23. [PubMed: 20003690]
- Getahun H, Gunneberg C, Granich R, Nunn P. HIV infection-associated tuberculosis: The epidemiology and the response. *Clinical Infectious Diseases*. 2010;50 Suppl 3:S201–S207. [PubMed: 20397949]
- Gillespie SH, Crook AM, McHugh TD, Mendel CM, Meredith SK, Murray SR, et al. Four-month moxifloxacin-based regimens for drug-sensitive tuberculosis. *New England Journal of Medicine*. 2014;371:1577–1587. [PubMed: 25196020]
- Gler MT, Skripconoka V, Sanchez-Garavito E, Xiao H, Cabrera-Rivero JL, Vargas-Vasquez DE, et al. Delamanid for multidrug-resistant pulmonary tuberculosis. *New England Journal of Medicine*. 2012;366(23):2151–2160. [PubMed: 22670901]
- Gooi HC, Smith JM. Tuberculous pericarditis in Birmingham. *Thorax*. 1978;33(1):94–96. [PubMed: 644546]
- Gopal M, Padayatchi N, Metcalfe JZ, O'Donnell MR. Systematic review of clofazimine for the treatment of drug-resistant tuberculosis. *The International Journal of Tuberculosis and Lung Disease*. 2013;17(8):1001–1007. [PubMed: 23541151]
- Graham SM, Sismanidis C, Menzies HJ, Marais BJ, Detjen AK, Black RE. Importance of tuberculosis control to address child survival. *Lancet*. 2014;383(9928):1605–1607. [PubMed: 24671079]
- Handa U, Mundi I, Mohan S. Nodal tuberculosis revisited: A review. *The Journal of Infection in Developing Countries*. 2012;6(1):6–12. [PubMed: 22240421]
- Jenkins HE, Tolman AW, Yuen CM, Parr JB, Keshavjee S, Perez-Velez CM, et al. Incidence of multidrug-resistant tuberculosis disease in children: Systematic review and global estimates. *Lancet*. 2014;383(9928):1572–1579. [PubMed: 24671080]
- Jindani A, et al. A multicentre randomized clinical trial to evaluate high-dose rifapentine with a quinolone for treatment of pulmonary TB: The RIFAQUIN trial. Program and Abstracts of the Twentieth Conference on Retroviruses and Opportunistic Infections; Atlanta, USA. 2013.
- Jung NY, Jee WH, Ha KY, Park CK, Byun JY. Discrimination of tuberculous spondylitis from pyogenic spondylitis on MRI. *AJR. American Journal of Roentgenology*. 2004;182(6):1405–1410. [PubMed: 15149983]
- Kaufmann SH, Lange C, Rao M, Balaji KN, Lotze M, Schito M, et al. Progress in tuberculosis vaccine development and host-directed therapies-a state of the art review. *Lancet Respiratory Medicine*. 2014;2(4):301–320. [PubMed: 24717627]
- Kleinnijenhuis J, Joosten LA, van de Veerdonk FL, Savage N, van Crevel R, Kullberg BJ, et al. Transcriptional and inflammasome-mediated pathways for the induction of IL-1 β production by *Mycobacterium tuberculosis*. *European Journal of Immunology*. 2009;39(7):1914–1922. [PubMed: 19544485]
- Kwara A, Ramachandran G, Swaminathan S. Dose adjustment of the non-nucleoside reverse transcriptase inhibitors during concurrent rifampicin-containing tuberculosis therapy: One size does not fit all. *Expert Opinion on Drug Metabolic Toxicology*. 2010;6(1):55–68.
- Lai RP, Nakiwala JK, Meintjes G, Wilkinson RJ. The immunopathogenesis of the HIV tuberculosis immune reconstitution inflammatory syndrome. *European Journal of Immunology*. 2013;43(8):1995–2002. [PubMed: 23928963]
- Lawn SD, Meintjes G, McIlleron H, Harries AD, Wood R. Management of HIV-associated tuberculosis in resource-limited settings: A state-of-the-art review. *BMC Medical*. 2013;11:253.
- Liang QL, Shi HZ, Wang K, Qin SM, Qin XJ. Diagnostic accuracy of adenosine deaminase in tuberculous pleurisy: A meta-analysis. *Respiratory Medicine*. 2008;102(5):744–754. [PubMed: 18222681]
- Light RW. Update on tuberculous pleural effusion. *Respirology*. 2010;15(3):451–458. [PubMed: 20345583]
- Lin PL, Flynn JL. Understanding latent tuberculosis: A moving target. *Journal of Immunology*. 2010;185(1):15–22.

- Ma Z, Lienhardt C, McIlleron H, Nunn AJ, Wang X. Global tuberculosis drug development pipeline: The need and the reality. *Lancet*. 2010;375(9731):2100–2109. [PubMed: 20488518]
- Mak KC, Cheung KM. Surgical treatment of acute TB spondylitis: Indications and outcomes. *European Spine Journal*. 2013;22(4):603–611. [PubMed: 22895736]
- Marais BJ, Schaaf HS, Graham SM. Child health and tuberculosis. *Lancet Respiratory Medicine*. 2014;2(4):254–256. [PubMed: 24717618]
- Mase SR, Ramsay A, Ng V, Henry M, Hopewell PC, Cunningham J, et al. Yield of serial sputum specimen examinations in the diagnosis of pulmonary tuberculosis: A systematic review. *The International Journal of Tuberculosis and Lung Disease*. 2007;11(5):485–495. [PubMed: 17439669]
- Mase S, et al. Provisional CDC guidelines for the use and safety monitoring of bedaquiline fumarate (Sirturo) for the treatment of multidrug-resistant tuberculosis. *MMWR Recomm Rep*. 2013;62(09):1–12.
- Mayosi BM, Burgess LJ, Doubell AF. Tuberculous pericarditis. *Circulation*. 2005;112(23):3608–3616. [PubMed: 16330703]
- Merchant S, Bharati A, Merchant N. Tuberculosis of the genitourinary system-urinary tract tuberculosis: Renal tuberculosis-part I. *Indian Journal of Radiological Imaging*. 2013;23(1):46–63.
- Merchant S, Bharati A, Merchant N. Tuberculosis of the genitourinary system-Urinary tract tuberculosis: Renal tuberculosis-Part II. *Indian Journal of Radiological Imaging*. 2013;23(1):64–77.
- Merle CS, Fielding K, Sow OB, Gningafon M, Lo MB, Mthiyane T, et al. A four-month gatifloxacin-containing regimen for treating tuberculosis. *New England Journal of Medicine*. 2014;371(17):1588–1598. [PubMed: 25337748]
- Michael RC, Michael JS. Tuberculosis in otorhinolaryngology: Clinical presentation and diagnostic challenges. *International Journal of Otolaryngology*. 2011;2011:686894. [PubMed: 22121369]
- Miller EA, Ernst JD. Illuminating the black box of TNF action in tuberculous granulomas. *Immunity*. 2008;29(2):175–177. [PubMed: 18701080]
- Murdaca G, Spano F, Contatore M, Guastalla A, Penza E, Magnani O, Puppo F. Infection risk associated with anti-TNF-alpha agents: A review. *Expert Opinion on Drug Safety*. 2015;14:1–12. [PubMed: 25431005]
- Nagi B, Kochhar R, Bhasin DK, Singh K. Colorectal tuberculosis. *European Radiology*. 2003;13(8):1907–1912. [PubMed: 12942293]
- Nagi B, Lal A, Kochhar R, Bhasin DK, Thapa BR, Singh K. Perforations and fistulae in gastrointestinal tuberculosis. *Acta Radiology*. 2002;43(5):501–506.
- Nhu NT, Heemskerk D, Thudo DA, Chau TT, Mai NT, Nghia HD, et al. Evaluation of GeneXpert MTB/RIF for diagnosis of tuberculous meningitis. *Journal of Clinical Microbiology*. 2013;52(1):226–233. [PubMed: 24197880]
- Nnoaham KE, Clarke A. Low serum vitamin D levels and tuberculosis: A systematic review and meta-analysis. *International Journal of Epidemiology*. 2008;37(1):113–119. [PubMed: 18245055]
- Nunn AJ, Cook SV, Burgos M, Rigouts L, Yorke-Edwards V, Anyo G, et al. Results at 30 months of a randomised trial of FDCs and separate drugs for the treatment of tuberculosis. *The International Journal of Tuberculosis and Lung Disease*. 2014;18(10):1252–1254. [PubMed: 25216842]
- Nunn A, Phillips PP, Abubakar I. Treatment of pulmonary tuberculosis. *Current Opinion in Pulmonary Medicine*. 2013;19(3):273–279. [PubMed: 23528955]
- Nuttall JJ, Eley BS. BCG vaccination in HIV-infected children. *Tuberculosis Research and Treatment*. 2011;2011:712736. [PubMed: 22567268]
- O'Garra A, Redford PS, McNab FW, Bloom CI, Wilkinson RJ, Berry MP. The immune response in tuberculosis. *Annual Reviews in Immunology*. 2013;31:475–527.
- Paulson T. Epidemiology: A mortal foe. *Nature*. 2013;502(7470):S2–S3. [PubMed: 24108078]
- Perez-Velez CM, Marais BJ. Tuberculosis in children. *New England Journal of Medicine*. 2012;367(4):348–361. [PubMed: 22830465]
- Peto HM, Pratt RH, Harrington TA, LoBue PA, Armstrong LR. Epidemiology of extrapulmonary tuberculosis in the United States, 1993–2006. *Clinical Infectious Diseases*. 2009;49(9):1350–1357. [PubMed: 19793000]
- Prasad K, Singh MB. Corticosteroids for managing tuberculous meningitis. *Cochrane Database System Review*. 2008;1(1):CD002244.
- Qingliang X, Jianxin W. Investigation of endobronchial tuberculosis diagnoses in 22 cases. *European Journal of Medicinal Research*. 2010;15:309–313.
- Ralph AP, Lucas RM, Norval M. Vitamin D and solar ultraviolet radiation in the risk and treatment of tuberculosis. *Lancet Infectious Disease*. 2013;13(1):77–88.

- Ramakrishnan L. Revisiting the role of the granuloma in tuberculosis. *Nature Reviews Immunology*. 2012;12(5):352–366.
- Rangaka MX, Wilkinson RJ, Boulle A, Glynn JR, Fielding K, van Cutsem G, et al. Isoniazid plus antiretroviral therapy to prevent tuberculosis: A randomised double-blind, placebo-controlled trial. *Lancet*. 2014;384(9944):682–690. [PubMed: 24835842]
- Razack R, Louw M, Wright CA. Diagnostic yield of fine needle aspiration biopsy in HIV-infected adults with suspected mycobacterial lymphadenitis. *South African Medical Journal*. 2014;104(1):27–28.
- Reuter H, Burgess LJ, Louw VJ, Doubell AF. The management of tuberculous pericardial effusion: Experience in 233 consecutive patients. *Cardiovascular Journal of South Africa*. 2007;18(1):20–25. [PubMed: 17392991]
- Rieder HL, Snider DE Jr, Cauthen GM. Extrapulmonary tuberculosis in the United States. *The American Review of Respiratory Disease*. 1990;141(2):347–351. [PubMed: 2301852]
- Ruslami R, Ganiem AR, Dian S, Apriani L, Achmad TH, van der Ven AJ, et al. Intensified regimen containing rifampicin and moxifloxacin for tuberculous meningitis: An open-label, randomised controlled phase 2 trial. *Lancet Infectious Diseases*. 2012;13(1):27–35. [PubMed: 23103177]
- Saenz B, Hernandez-Pando R, Fragozo G, Bottasso O, Cardenas G. The dual face of central nervous system tuberculosis: A new Janus Bifrons? *Tuberculosis (Edinb)*. 2013;93(2):130–135. [PubMed: 23305698]
- Salahuddin N, Ali F, Hasan Z, Rao N, Aqeel M, Mahmood F. Vitamin D accelerates clinical recovery from tuberculosis: Results of the SUCCINCT study [Supplementary Cholecalciferol in recovery from tuberculosis]. A randomized, placebo-controlled, clinical trial of vitamin D supplementation in patients with pulmonary tuberculosis. *BMC Infectious Diseases*. 2013;13:22. [PubMed: 23331510]
- Sharma SK, Mohan A, Sharma A, Mitra DK. Miliary tuberculosis: New insights into an old disease. *Lancet Infectious Diseases*. 2005;5(7):415–430. [PubMed: 15978528]
- Shaw JE, Sicree RA, Zimmet PZ. Global estimates of the prevalence of diabetes for 2010 and 2030. *Diabetes Research and Clinical Practice*. 2009;87(1):4–14. [PubMed: 19896746]
- Sinclair D, Abba K, Grobler L, Sudarsanam TD. Nutritional supplements for people being treated for active tuberculosis. *Cochrane Database System Review*. 2011;(11):CD006086.
- Singh JA, Wells GA, Christensen R, Tanjong Ghogomu E, Maxwell L, Macdonald JK, et al. Adverse effects of biologics: A network meta-analysis and Cochrane overview. *Cochrane Database System Review*. 2011;(2):CD008794.
- Singh M, Mynak ML, Kumar L, Mathew JL, Jindal SK. Prevalence and risk factors for transmission of infection among children in household contact with adults having pulmonary tuberculosis. *Archives of Disease in Childhood*. 2005;90(6):624–628. [PubMed: 15908630]
- Souto A, Maneiro JR, Salgado E, Carmona L, Gomez-Reino JJ. Risk of tuberculosis in patients with chronic immune-mediated inflammatory diseases treated with biologics and tofacitinib: A systematic review and meta-analysis of randomized controlled trials and long-term extension studies. *Rheumatology (Oxford)*. 2014;53(10):1872–1885. [PubMed: 24821849]
- Steiner A, Stucki D, Coscolla M, Borrell S, Gagneux S. KvarQ: Targeted and direct variant calling from fastq reads of bacterial genomes. *BMC Genomics*. 2014;15:881. [PubMed: 25297886]
- Steingart KR, Flores LL, Dendukuri N, Schiller I, Laal S, Ramsay A, et al. Commercial serological tests for the diagnosis of active pulmonary and extrapulmonary tuberculosis: An updated systematic review and meta-analysis. *PLoS Medicine*. 2011;8(8):e1001062. [PubMed: 21857806]
- Steingart KR, Schiller I, Horne DJ, Pai M, Boehme CC, Dendukuri N. Xpert(R) MTB/RIF assay for pulmonary tuberculosis and rifampicin resistance in adults. *Cochrane Database System Review*. 2014;1:CD009593.
- Sterling TR, Villarino ME, Borisov AS, Shang N, Gordin F, Bliven-Sizemore E, et al. Three months of rifapentine and isoniazid for latent tuberculosis infection. *New England Journal of Medicine*. 2011;365(23):2155–2166. [PubMed: 22150035]
- Sullivan JT, Young EF, McCann JR, Braunstein M. The *Mycobacterium tuberculosis* SecA2 system subverts phagosome maturation to promote growth in macrophages. *Infection and Immunity*. 2012;80(3):996–1006. [PubMed: 22215736]
- Tameris MD, Hatherill M, Landry BS, Scriba TJ, Snowden MA, Lockhart S, et al. Safety and efficacy of MVA85A, a new tuberculosis vaccine, in infants previously vaccinated with BCG: A randomised, placebo-controlled phase 2b trial. *Lancet*. 2013;381(9871):1021–1028. [PubMed: 23391465]
- Thee S, Seddon JA, Donald PR, Seifert HI, Werely CJ, Hesseling AC, et al. Pharmacokinetics of isoniazid, rifampin, and pyrazinamide in children younger than two years of age with tuberculosis: Evidence for

- implementation of revised World Health Organization recommendations. *Antimicrobial Agents Chemotherapy*. 2011;55(12):5560–5567. [PubMed: 21968358]
- Theodoratou E, Tzoulaki I, Zgaga L, Ioannidis JP. Vitamin D and multiple health outcomes: Umbrella review of systematic reviews and meta-analyses of observational studies and randomised trials. *BMJ*. 2014;348:g2035. [PubMed: 24690624]
- Thwaites GE, Chau TT, Farrar JJ. Improving the bacteriological diagnosis of tuberculous meningitis. *Journal of Clinical Microbiology*. 2004;42(1):378–379. [PubMed: 14715783]
- Thwaites GE, Nguyen DB, Nguyen HD, Hoang TQ, Do TT, Nguyen TC, et al. Dexamethasone for the treatment of tuberculous meningitis in adolescents and adults. *New England Journal of Medicine*. 2004;351(17):1741–1751. [PubMed: 15496623]
- Thwaites GE, Simmons CP, Than Ha Quyen N, Thi Hong Chau T, Phuong Mai P, Thi Dung N, et al. Pathophysiology and prognosis in vietnamese adults with tuberculous meningitis. *Journal of Infectious Diseases*. 2003;188(8):1105–1115. [PubMed: 14551879]
- Thwaites GE, Tran TH. Tuberculous meningitis: Many questions, too few answers. *Lancet Neurology*. 2005;4(3):160–170. [PubMed: 15721826]
- Tiemersma EW, van der Werf MJ, Borgdorff MW, Williams BG, Nagelkerke NJ. Natural history of tuberculosis: Duration and fatality of untreated pulmonary tuberculosis in HIV negative patients: A systematic review. *PLoS ONE*. 2011;6(4):e17601. [PubMed: 21483732]
- Tobin DM, Roca FJ, Oh SF, McFarland R, Vickery TW, Ray JP, et al. Host genotype-specific therapies can optimize the inflammatory response to mycobacterial infections. *Cell*. 2013;148(3):434–446.
- Torok ME, Yen NT, Chau TT, Mai NT, Phu NH, Mai PP, et al. Timing of initiation of antiretroviral therapy in human immunodeficiency virus (HIV)-associated tuberculous meningitis. *Clinical Infectious Diseases*. 2011;52(11):1374–1383. [PubMed: 21596680]
- Tuon FF, Higashino HR, Lopes MI, Litvoc MN, Atomlya AN, Antonangelo L, Leite OM. Adenosine deaminase and tuberculous meningitis-a systematic review with meta-analysis. *Scandinavian Journal of Infectious Diseases*. 2010;42(3):198–207. [PubMed: 20001225]
- Udani PM, Parekh UC, Dastur DK. Neurological and related syndromes in CNS tuberculosis. Clinical features and pathogenesis. *Journal of Neurological Sciences*. 1971;14(3):341–357.
- Ulrich MP, Christensen DR, Coyne SR, Craw PD, Henchal EA, Sakai SH, et al. Evaluation of the Cepheid GeneXpert system for detecting *Bacillus anthracis*. *Journal of Applied Microbiology*. 2006;100(5):1011–1016. [PubMed: 16630001]
- UNITAID. Tuberculosis. Diagnostics technology and market landscape. 3rd edn. Geneva: 2014. (reprinted with permission)
- van Crevel R, Ottenhoff TH, van der Meer JW. Innate immunity to *Mycobacterium tuberculosis*. *Clinical Microbiology Reviews*. 2002;15(2):294–309. [PubMed: 11932234]
- Van Deun A, Maug AK, Cooreman E, Hossain MA, Chambuganj N, Rema V, et al. Bleach sedimentation method for increased sensitivity of sputum smear microscopy: Does it work? *The International Journal of Tuberculosis and Lung Disease*. 2000;4(4):371–376. [PubMed: 10777088]
- Van Deun A, Maug AK, Salim MA, Das PK, Sarker MR, Daru P, Rieder HL. Short, highly effective, and inexpensive standardized treatment of multidrug-resistant tuberculosis. *American Journal of Respiratory and Critical Care Medicine*. 2010;182(5):684–692. [PubMed: 20442432]
- White C, Franco-Paredes C. Leprosy in the 21st century. *Clinical Microbiology Reviews*. 2015;28(1):80–94. [PubMed: 25567223]
- WHO. Tuberculosis and gender. Factsheet. 2002.
- WHO. Implementing the WHO stop TB strategy: A handbook for national tuberculosis control programmes. 2008. p. 67.
- WHO. Tuberculosis and diabetes. Collaborative framework for care and control of tuberculosis and diabetes. 2011.
- WHO. Combating tuberculosis in children. World Health Organisation Factsheet. 2013.
- WHO. World Health Organisation. Global Tuberculosis Report 2014. 2014.
- World Health Organisation. Laboratory service in tuberculosis control: Part II, microscopy. WHO/TB/98.258. 1998. [Accessed March 3, 2010]. Available at <http://www.who.int/tb/publications/1998/en/index2.html>.
- World Health Organisation. Same-day-diagnosis of tuberculosis by microscopy: Policy statement. 2010. [Accessed March 28, 2011]. Available at http://www.thevidence.org/documents/policies/whopolicy_same-day-diagnosis_bymicroscopy_july10.pdf.

- World Health Organisation. Guidance for national tuberculosis programmes on the management of tuberculosis in children. 2nd ed. Geneva, Switzerland: 2014. [Accessed September 8, 2014]. http://apps.who.int/iris/bitstream/10665/112360/1/9789241548748_eng.pdf.
- World Health Organization. Automated real-time nucleic acid amplification technology for rapid and simultaneous detection of tuberculosis and rifampicin resistance: Xpert MTB/RIF assay for the diagnosis of pulmonary and extrapulmonary TB in adults and children: Policy update. Geneva, Switzerland: World Health Organization; 2013.
- Xue Q, Wang N, Xue X, Wang J. Endobronchial tuberculosis: An overview. European Journal of Clinical Microbiology and Infectious Diseases. 2011;30(9):1039–1044. [PubMed: 21499709]
- Zar HJ, Madhi SA, Aston SJ, Gordon SB. Pneumonia in low and middle income countries: Progress and challenges. Thorax. 2013;68(11):1052–1056. [PubMed: 23956020]
- Ziganshina LE, Titarenko AF, Davies GR. Fluoroquinolones for treating tuberculosis (presumed drug-sensitive). Cochrane Database System Review. 2013;6:CD004795.

© The Author(s) 2015. The book is published with open access at SpringerLink.com.

All commercial rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, express or implied, with respect to the material contained herein or for any errors or omissions that may have been made.

This book is distributed under the terms of the Creative Commons Attribution Noncommercial License which permits any noncommercial use, distribution, and reproduction in any medium, provided the original author(s) and source are credited. (See <http://creativecommons.org/licenses/by-nc/4.0/>).

Monographs, or book chapters, which are outputs of Wellcome Trust funding have been made freely available as part of the Wellcome Trust's open access policy

Bookshelf ID: NBK344408