

DAFTAR PUSTAKA

- American Thoracic Society, CDC, & Infectious Diseases Society of America., 2003, Treatment of Tuberculosis, *Morbidity and Mortality Weekly Report*, 52, pp. 1-77. DOI: 10.1164/rccm.167.4.603.
- Anton, Howard., 2014, *Elementary Linear Algebra : Applications Version (Eleventh Edition)*, John Wiley and Sons, Inc., New York.
- Berman, A., Plemmons, Robert J., 1994, *Nonnegative Matrices in the Mathematical Sciences*, Academic Press, San Diego.
- Bhadauria, A. S., Dhungana, H. N., Verma, V., Woodcock, S., dan Rai, T., 2023, Studying the efficacy of isolation as a control strategy and elimination of tuberculosis in India: A mathematical model, *Infectious Disease Modelling*, 8, pp. 458–470. <https://doi.org/10.1016/j.idm.2023.03.005>.
- Badan Pusat Statistik., 2023a, *Mortalitas di Indonesia : Hasil Long Form Sensus Penduduk 2020*, Badan Pusat Statistik., Jakarta.
- Brown, J. W., Churchill, R. V., 2014, *Complex Variables and Applications: Ninth Edition*, McGraw-Hill Education., New York.
- Brauer, Fred., Chavez, Carlos Castillo., 2012, *Mathematical Models in Population Biology and Epidemiology: Second Edition*, Springer Science & Business Media., New York.
- Chitnis, N., Hyman, James M., dan Cushing, Jim M., 2008, Determining Important Parameters in the Spread of Malaria Through the Sensitivity Analysis of a Mathematical Model, *Bulletin of Mathematical Biology*, 70, pp. 1272–1296. DOI: 10.1007/s11538-008-9299-0.

- Ginting, E. D. A., Aldila, D., dan Febiriana, I. H., 2024, A deterministic compartment model for analyzing tuberculosis dynamics considering vaccination and reinfection, *Healthcare Analytics*, 5, pp. 1-11. <https://doi.org/10.1016/j.health.2024.100341>.
- Haddad, Wassim M., Chellaboina, VijaySekhar dan Hui, Qing., 2010, *Nonnegative and Compartmental Dynamical Systems*, Princeton University Press., Princeton and Oxford.
- Hethcote, Herbert W., 2000, The Mathematics of Infectious Diseases, *Society for Industrial and Applied Mathematics*, 42(4), pp. 599–653. <https://doi.org/10.1137/S0036144500371907>.
- Kaswandani, N., 2023, BCG Pada Kondisi Khusus, *Proceeding Book Childhood Immunization Update*, pp. 77–83.
- Kementerian Kesehatan RI., 2020a, *Pedoman Nasional Pelayanan Kedokteran: Tata Laksana Tuberkulosis*, Kementerian Kesehatan RI., Jakarta.
- Kementerian Kesehatan RI., 2020b, *Petunjuk Teknis Penatalaksanaan Tuberkulosis Resisten Obat di Indonesia*, Kementerian Kesehatan RI., Jakarta.
- Kementerian Kesehatan RI., 2022, *Strategi Komunikasi Nasional Imunisasi 2022 – 2025*, Kementerian Kesehatan RI., Jakarta.
- Kementerian Kesehatan RI., 2023a, *Petunjuk Teknis Penatalaksanaan Tuberkulosis Anak dan Remaja*, Kementerian Kesehatan RI., Jakarta.
- Kementerian Kesehatan RI., 2023b, *Profil Kesehatan Indonesia 2022*, Kementerian Kesehatan RI., Jakarta.
- Kementerian Kesehatan RI., 2024a, *Profil Kesehatan Indonesia 2023*, Kementerian Kesehatan RI., Jakarta.
- Kementerian Kesehatan RI., 2024b, *Laporan Program Penanggulangan Tuberkulosis Tahun 2023*, Kementerian Kesehatan RI., Jakarta.

Kementerian Kesehatan RI., 2025a. *Aksi Nyata Percepatan Eliminasi Tuberkulosis di Indonesia*. Diakses dari <https://kemkes.go.id/id/id/47510> pada 25 September 2025.

Kementerian Kesehatan RI., 2025b, *Buku Panduan Tenaga Medis dan Tenaga Kesehatan Tuberkulosis : Langkah dalam Pencegahan, Deteksi Dini, dan Pendampingan Pasien TBC di Masyarakat*, Kementerian Kesehatan RI., Jakarta.

Kementerian Kesehatan RI., 2025c, *Profil Kesehatan Indonesia 2024*, Kementerian Kesehatan RI., Jakarta.

Mirsaeidi, M., 2013, After 40 years, new medicine for combating TB, *International Journal of Mycobacteriology*, 2(1), pp. 1-2. DOI:10.1016/j.ijmyco.2013.01.004.

Mishra, B. K., Srivastava, J, 2014, Mathematical model on pulmonary and multidrug-resistant tuberculosis patients with vaccination, *Journal of the Egyptian Mathematical Society*, 22, pp. 311–316. <https://doi.org/10.1016/j.joems.2013.07.006>.

Melisa, M., & Widodo, W., 2015, Analisis Kestabilan pada Model Dinamika Penularan Tuberkulosis Satu Strain dan Dua Strain, *UJMC (Uinda Journal of Mathematics and Computer Science)*, 1(01), pp. 29-38. <https://doi.org/10.52166/ujmc.v1i01.433>.

Muhafzan, Zulakmal, Narwen, Bagi, A. I., Lestari, A. G., Oktaviani, M., 2023, A Fractional SITR Model for Dynamic of Tuberculosis Spread, *Commun. Math. Biol. Neurosci*, 14, pp. 1-9. <https://doi.org/10.28919/cmbn/7864>.

Mumbu, A. R., Mlay, G., Shaban, N., 2025, Modeling the transmission dynamics of Two-strain TB with drug-sensitive and drug-resistant in Tanzania: A fractional order approach, *Scientific African*, 28, pp. e02731. <https://doi.org/10.1016/j.sciaf.2025.e02731>.

NSW Ministry of Health, 2023, *Vaksinasi Bacille Calmette-Guérin (BCG) untuk penyakit Tuberkulosis (TB): Informasi untuk pasien dan keluarga*, New South Wales. Diakses dari <https://www.health.nsw.gov.au/Infectious>

/tuberculosis/Documents/Language/bcg-information-ind.pdf pada 8 September 2025.

Olsder, G. J., van der Woude, J. W., Maks, J. G., Jeltsema, D., 2011, *Mathematical Systems Theory: fourth edition*, VSSD., Netherland.

Perko, L., 2001, *Differential Equations and Dynamical Systems: Third Edition*, Springer-Verlag New York, Inc., New York.

Qu, Zhihua., 2009, *Cooperative Control of Dynamical Systems: Applications to Autonomous Vehicles*, Springer-Verlag London., London.

Ross, Shepley L., 1984, *Differential Equation: Third Edition*, John Wiley and Sons, Inc., New York.

Royden, Halsey L., dan Fitzpatrick, Patrick M., 2010, *Real Analysis: Fourth Edition*, Pearson., Boston.

Sulayman, F., Abdullah, F. A., Mohd, M. H., 2021, An sveire model of tuberculosis to assess the effect of an imperfect vaccine and other exogenous factors, *Mathematics*, 9, pp. 327. <https://doi.org/10.3390/math9040327>.

Taylor, A. E., & Mann, W. R., 1983, *Advance Calculus (Third Edition)*, John Wiley and Sons, Inc., Canada.

Ucakan, Y., Gulen, S., dan Koklu, K., 2021, Analysing of Tuberculosis in Turkey through SIR, SEIR and BSEIR Mathematical Models, *Mathematical and Computer Modelling of Dynamical Systems*, 27, pp. 179–202. <https://doi.org/10.1080/13873954.2021.1881560>.

World Health Organization., 2021, *Meeting report of the WHO expert consultation on drug-resistant tuberculosis treatment outcome definitions: 17-19 November 2020*, World Health Organization.

World Health Organization., 2024a, *Global tuberculosis report 2024*, World Health Organization.

World Health Organization., 2024b. *Tuberculosis: Multidrug-resistant (MDR-TB) or rifampicin-resistant TB (RR-TB)*. Diakses dari [https://www.who.int/news-room/questions-and-answers/item/tuberculosis-multi-drug-resistant-tuberculosis-\(mdr-tb\)](https://www.who.int/news-room/questions-and-answers/item/tuberculosis-multi-drug-resistant-tuberculosis-(mdr-tb)) pada 8 September 2025.

Wiggins, S., 1990, *Introduction to Applied Nonlinear Dynamical Systems and Chaos*, Springer-Verlag New York, Inc., New York.

Yang, Y., Li, J., Ma, Z., dan Liu, L., 2010, Global stability of two models with incomplete treatment for tuberculosis, *Chaos, Solitons and Fractals*, 43, pp. 79–85. <https://doi.org/10.1016/j.chaos.2010.09.002>.

Yu, Y., Shi, Y., dan Yao, W., 2018, Dynamic model of tuberculosis considering multi-drug resistance and their applications, *Infectious Disease Modelling*, 3, pp. 362–372. <https://doi.org/10.1016/j.idm.2018.11.001>.