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DAFTAR PUSTAKA

Atkinson, W., Hamborsky, J., dan Wolfe, C., 2011, *Epidemiology and Prevention of Vaccine-Preventable Diseases*, Edisi ke-12, Public Health Foundation, Washington, DC, 301–323.

Ayoola, T. A., Popoola, A. O., Olayiwola, M. O., dan Alaje, A. I., 2024, ”Mathematical modeling of chickenpox transmission using the Laplace Adomian Decomposition Method”, *Results in Control and Optimization*, *15*, 100436, *https://doi.org/10.1016/j.rico.2024.100436*.

Beritajatim.com, 2023, ”Banyak Siswa di DIY Terserang Cacar Air”, *https://beritajatim.com/banyak-siswa-di-diy-terserang-cacar-air*, diakses tanggal 7 November 2025.

Borkowska, A., Marosz, S., Marosz, K., Chilimoniuk, Z., Sobstyl, A., Dudziński, D., Chałupnik, A., Krupska, K. dan Piecewicz-Szczesna, H., 2023, ”Raising awareness about the importance of chickenpox vaccination in children”, *Journal of Education, Health and Sport*, *19*(1), 119–128.

Brauer, F. dan Castillo-Chavez, C., 2012, *Mathematical Models in Population Biology and Epidemiology*, Edisi ke-2, Springer, New York.

Boyce, W. E., DiPrima, R. C., dan Meade, D. B., 2017, *Elementary Differential Equations and Boundary Value Problems*, Edisi ke-11, John Wiley & Sons, Hoboken.

Centers for Disease Control and Prevention (CDC), 2011, ”Chickenpox (Varicella)”, *https://www.cdc.gov/chickenpox/about/index.html*, diakses tanggal 29 Agustus 2025.

Garnett, G. P. dan Grenfell, B. T., 1992, ”The epidemiology of Varicella-zoster virus infections: A mathematical model”, *Epidemiology and Infection*, *108*, 495–511.

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Haddad, W. M., Chellaboina V., dan Hui Q., 2010, *Nonnegative and Compartmental Dynamical Systems*, Princeton University Press, Princeton.

Hadinegoro, S. R., 1999, ”Varicella antibody in healthy children”, *Paediatrica Indonesiana*, *39*(1-2), 1-7.

Holling, C. S., 1959, Some characteristics of simple types of predation and parasitism, *Can. Ent.*, 7, 91, 385–398.

Ishaq, N. M. P., Waspodo, N. N., Kadir, A., Abdi, D. A., dan Lestari, N. A., 2024, ”Prevalensi dan Karakteristik Varisela Anak di Rumah Sakit Ibnu Sina dan Jejaringnya Tahun 2017-2021”, *Fakumi Medical Journal: Jurnal Mahasiswa Kedokteran*, *3*(10), 772-777.

Keeling, M. J. dan Rohani, P., 2008, *Modeling Infectious Diseases in Humans and Animals*, Princeton University Press.

Kermack, W. O. dan McKendrick, A. G., 1927, ”A Contribution to the Mathematical Theory of Epidemics”, *Proceedings of the Royal Society of London. Series A, Containing Papers of a Mathematical and Physical Character*, *115*(772), 700–721.

Khalil, H. K., 2002, *Nonlinear Systems*, Edisi ke-3, Prentice Hall, Upper Saddle River.

Martcheva, M., 2015, *An Introduction to Mathematical Epidemiology*, Springer, New York.

Ndii, M. Z., 2018, *Pemodelan Matematika Dinamika Populasi dan Penyebaran Penyakit: Teori, Aplikasi, dan Numerik*, Deepublish, Yogyakarta, ISBN 978-623-7022-81-7.

Nicholson, W. K., 2019, *Linear Algebra with Applications*, Open Edition, Lyryx Learning, Calgary.

Nigeria Center for Disease Control (NCDC). (2020). *Weekly Epidemiological Report*. https://ncdc.gov.ng/reports/weekly. Diakses pada 21 September 2025.

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Olsder, G. J. dan van der Woude, J. W., 2005, *Mathematical Systems Theory*, Edisi ke-3, VSSD, Delft.

Radio Republik Indonesia (RRI), 2024, ”Dinkes Catat Empat Ribu Lebih Kasus Cacar Air”, *https://rri.co.id/bandung/kesehatan/1114757/dinkes-catat-empat-ribu-lebih-kasus-cacar-air*, diakses tanggal 7 November 2025.

Ross, S. L., 1984, *Differential Equations*, Edisi ke-3, John Wiley & Sons, Inc., New York.

Strogatz, S. H., 2015, *Nonlinear Dynamics and Chaos: With Applications to Physics, Biology, Chemistry, and Engineering*, Edisi ke-2, CRC Press, Boca Raton.

Wiggins, S., 2003, *Introduction to Applied Nonlinear Dynamical Systems and Chaos*, Edisi ke-2, Springer, New York.

Zhang, J., Jia, J., dan Song, X., 2014, ”Analysis of an SEIR epidemic model with saturated incidence and saturated treatment function”, *The Scientific World Journal*, *2014*, 910421, *https://doi.org/10.1155/2014/910421*.