

## DAFTAR PUSTAKA

- A, M., Islam, M., Adnan, M., & Oh, C., Dog Rabies in Dhaka, Bangladesh, and Implications for Control, *Processes*, 8, 1513, 2020, <https://doi.org/10.3390/pr8111513>.
- Arizona, P., & Fuad, Y. (2014). Analisis Stabilitas Model Sel Imun-Tumor dengan Tundaan Waktu. *MATHunesa: Jurnal Ilmiah Matematika*, 3(2)
- Brown, C., Conti, L., Ettestad, P., Leslie, M., Sorhage, F., & Sun, B., Compendium of animal rabies prevention and control, 2011, *Journal of the American Veterinary Medical Association*, 239(5), 609–617, 2011, <https://doi.org/10.2460/javma.239.5.609>.
- Changalucha, J., Hampson, K., Jaswant, G., Lankester, F., & Yoder, J., Human rabies: prospects for elimination, *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources*, 16, 2021, <https://doi.org/10.1079/PAVSNR202116039>.
- Dacheux, L., Delmas, O., & Bourhy, H., Human rabies encephalitis prevention and treatment: progress since Pasteur's discovery, *Infectious Disorders Drug Targets*, 11(3), 251–299, 2011, <https://doi.org/10.2174/187152611795768079>.
- Dejene, D., & Koya, P. R. (2016). Population dynamics of dogs subjected to rabies disease. *IOSR Journal of Mathematics (IOSR-JM)*, 12(3), 2319-2765
- Diekmann, O., Heesterbeek, J. A. P., & Metz, J. A. J. (1990). On the definition and the computation of the basic reproduction ratio  $R_0$  in models for infectious diseases in heterogeneous populations. *Journal of Mathematical Biology*, 28(4), 365–382. <https://doi.org/10.1007/BF00178324>
- Driessche, P., & Watmough, J. 2002. Reproduction Numbers and Sub-threshold Endemic Equilibria for Compartmental Models of Disease Transmission. *Mathematical biosciences*. 180: 29-48
- Ega, T., Luboobi, L., & Kuznetsov, D. (2015). Modeling the Dynamics of Rabies Transmission with Vaccination and Stability Analysis. *Applied and Computational Mathematics*, 4, 409. <https://doi.org/10.11648/J.ACM.20150406.13>.
- Eze O. C., Mbah G. E., Nnaji D.U. & Onyiaji N. E. (2020). Mathematical Modelling of Transmission Dynamic of Rabies Virus. *International Journal of Mathrmatics Trends and Technology(IJMTT)*,6(1):41-64. <https://ijmtjournal.org/archive/ijmtt-v66i7p506>
- Hailemichael, D. D., Edessa, G.K., & Koya, P. R. (2022). Effect of vaccination and culling on the dynamics of rabies transmission from stray dogs to domestic dogs. *Journal of Applied Mathematics*, 2022.

- Hailemichael, D. ., Edessa, G.K., & Koya, P. R. (2023). Mathematical Modeling of Dog Rabies Transmission Dynamics Using Optimal Control Analysis. *Cotemporary Mathematics*, 296-319.
- Huang, Y., & Li, M., Application of a Mathematical Model in Determining the Spread of the Rabies Virus: Simulation Study, *JMIR Medical Informatics*, 8, 2020, <https://doi.org/10.2196/18627>.
- Jaswant, G., Bautista, C. T., Ogoti, B., Changalucha, J., Oyugi, J. O., Campbell, K., Mutunga, M., Thumbi, S. M., Hampson, K., & Brunker, K., Viral sequencing to inform the global elimination of dog-mediated rabies - a systematic review, *One Health Implement Res*, 4, 15-37, 2024, <http://dx.doi.org/10.20517/ohir.2023.61>.
- Jao, Y. (2019). *Analisis Kestabilan Model Waktu Tunda Respon Patogen terhadap Penambahan Protein Terapeutik Pada Sistem Imun Inang* [Bachelor Thesis]. Makassar: Universitas Hasanuddin.
- John, C., Carabin, H., Montano, S., Bangirana, P., Zunt, J., & Peterson, P., Global research priorities for infections that affect the nervous system, *Nature*, 527, S178–S186, 2015, <https://doi.org/10.1038/nature16033>.
- Kemkes.go.id. (2023). *Mengenal Penyakit Rabies*. Kemkes.Go.Id. [https://yankes.kemkes.go.id/view\\_artikel/2531/mengenal-penyakit-rabies](https://yankes.kemkes.go.id/view_artikel/2531/mengenal-penyakit-rabies)
- Kuang, Y. (1993). *Delay Differential Equation Aplication in Population Dynamics*. London: Academic Press: Inc.
- Kunkel, A., Jeon, S., Joseph, H. C., Dilius, P., Crowdis, K., Meltzer, M. I., & Wallace, R., The urgency of resuming disrupted dog rabies vaccination campaigns: a modeling and cost-effectiveness analysis, *Scientific Reports*, 11(1), 12476, 2021, <https://doi.org/10.1038/s41598-021-92067-5>.
- Lakshmanan, M., & Senthilkumar, D.V. (2011). *Dynamics of nonlinear time-delay systems*. Springer Science & Business Media.
- Laothamatas, J., Wacharapluesadee, S., Lumlertdacha, B., Ampawong, S., Tepsumethanon, V., Shuangshoti, S., Phumesin, P., Asavaphatiboon, S., Woraprukjaru, L., Avihingsanon, Y., Israsena, N., Lafon, M., Wilde, H., & Hemachudha, T., Furious and paralytic rabies of canine origin: Neuroimaging with virological and cytokine studies, *Journal of NeuroVirology*, 14, 119–129, 2011, <https://doi.org/10.1080/13550280701883857>.
- Layan, M., Dellicour, S., Baele, G., Cauchemez, S., & Bourhy, H., Mathematical modelling and phylodynamics for the study of dog rabies dynamics and control: A scoping

- review, PLOS Neglected Tropical Diseases, 15, 2021, <https://doi.org/10.1371/journal.pntd.0009449>.
- Li, H. dkk., (2022). Three-dimensional topology optimization of a fluid-structure system using body-fitted mesh adaption based on the level-set method. *Applied Mathematical modeling*, 101, 276-308.
- Lippi, G., & Cervellin, G., Updates on Rabies virus disease: is evolution toward “Zombie virus” a tangible threat?, *Acta Bio Medica: Atenei Parmensis*, 92, 2021, <https://doi.org/10.23750/abm.v92i1.9153>.
- Li, Y. (2022). Mathematical modeling Methods and Their Application in the Analysis of Complex Signal Systems. *Asvances in Mathematical Physics, 2022*
- LV, M. M., Sun, X. D., Jin, Z., Wu, H. R., Li, M. T., Sun, G. Q., ... & Zhang, J. (2023). Dynamic analysis of rabies transmission and elimination in mainland China. *one Health*, 17, 100615.
- Martcheva, M. (2015). *An introduction to mathematical epidemiology*. New York: Springer, 2015.
- Minghui R., Stone M., Semedo M., Nel L. New global strategic plan to eliminate dog-mediated rabies by 2030. *The Lancet Global Health*. 2018;6(8):e828-e829.
- Neilan, R., & Lenhart, S., Optimal vaccine distribution in a spatiotemporal epidemic model with an application to rabies and raccoons, *Journal of Mathematical Analysis and Applications*, 378, 603-619, 2011, <https://doi.org/10.1016/J.JMAA.2010.12.035>.
- Nurdiansyah, M. R. A., Kasbawati, & Toaha, S. (2024). Stability analysis and numerical simulation of rabies spread model with delay effects. *AIMS Mathematics*, 9(2), 3399-3425.
- Older, G. J. (1998). *Mathematical System Theory, Second Edition*. Delft: Delft University Press.
- Overduin, L., Van Dongen, J., & Visser, L. (2019). The Cellular Immune Response to Rabies Vaccination: A Systematic Review. *Vaccines*, 7. <https://doi.org/10.3390/vaccines7030110>.
- Perko, L. (2001). *Differential Equation and Dynamical System*, Springer-Verlag Berlin heidelberg:New York
- Rustad, J., Cho, T., Chemali, Z., Rost, N., & Stern, T., The recognition and treatment of rabies: a case report and discussion, *Psychosomatics*, 56(2), 196–201, 2015, <https://doi.org/10.1016/j.psym.2014.09.007>.
- Rysava, K., & Tildesley, M., Identification of dynamical changes of rabies transmission

- under quarantine: Community-based measures towards rabies elimination, *PLOS Computational Biology*, 19, 2023, <https://doi.org/10.1101/2023.05.17.541072>.
- Susilawathi NM, Darwinata AE, Dwija I, Budayanti NS, Wirasandhi GAK, Subrata K, et al. Epidemiological and clinical features of human rabies cases in Bali 2008-2010. *BMC Infect Dis* 2012;12. <https://doi.org/10.1186/1471-2334-12-81>
- Somma, S. A., Balogun R. T., Eguada F. Y., Abdurrahman N. O., Adama P. W., & Yisa E. M. (2022). *Dutse Journal of Pure and Applied Sciences(DUJOPAS)*, 8(1a):36-44. <https://www.ajol.info/index.php/dujopas/article/view/224745>
- Stringer C. Post-exposure rabies vaccination. *Nurs Stand* 2003;17:41-2
- Thongtha, A., & Modnak, C., A mathematical modeling of rabies with vaccination and culling, *International Journal of Biomathematics*, 2150039, 2021, <https://doi.org/10.1142/S179352452150039X>.
- WHO. (2023). "Rabies", <https://www.who.int/news-room/fact-sheets/detail/rabies>, diakses pada tanggal 22 januari 2024 pukul 13:35
- WHO, OIE, FAO, GARC, Zero by 30: the global strategic plan to end human deaths from dog-mediated rabies by 2030, Geneva: World Health Organization, 2018.
- Wiggins, S. (2003). *Introduction to Applied Nonlinear Dynamical Systems and Chaos, Second Edition*. New York: Springer-Verlag.
- Zhang, S., Liu, Y., Fooks, A., Zhang, F., & Hu, R. (2008). Oral vaccination of dogs (*Canis familiaris*) with baits containing the recombinant rabies-canine adenovirus type-2 vaccine confers long-lasting immunity against rabies.. *Vaccine*, 26 3, 345-50 . <https://doi.org/10.1016/J.VACCINE.2007.11.029>.
- Zill, D. G., Cullen, M. R. 2009. *Differential Equations with Boundary-Value Problems, Seventh Edition*. Belmont: Brooks/Cole Cengage Learning.