

## DAFTAR PUSTAKA

- Agusto, F. B., Bewick, S., dan Fagan, W. F., 2017, Mathematical model for zika virus dynamics with sexual transmission route, *Ecological Complexity*, vol. 29 : 61–81.
- Aldila, D., dan Agustin, M.R., 2018, A mathematical model of dengue-chikungunya co-infection in a closed population a mathematical model of dengue-chikungunya co-infection in a closed population, *Journal of Physics: Conference Series*, vol. 974 : 1–12.
- Alshammari, S. A., Alamri, Y. S., Rabhan, F. S., Alabdullah, A. A., Alsanie, N. A., Almarshad, F. A., dan Alhaqbani, A. N., 2018, Overview of dengue and zika virus similarity , what can we learn from the saudi experience with dengue fever ?, *International Journal of Health Science*, vol. 12(1) : 77–82., Riyadh.
- Anton, H., dan Rorres, C., 2014, *Elementary Linear Algebra*, 11<sup>th</sup> Edition, Wiley, New York.
- Aranda, D. F., Gonzalez-Parra, G. C., dan Benincasa, T., 2019, Mathematical modeling and numerical simulations of zika in Colombia considering mutation, *Mathematics and Computers in Simulation*, vol. 163 : 1–18.
- Aureliano, S., Stella, C., dan Iraziet, S., 2019, Mathematical modeling of dengue epidemic : control methods and vaccination strategies, *Theory in Biosciences*, vol. 138(2): 223–239.
- Bacani, F., Dimas, S., dan Leite, I., 2018, Mathematical modelling for the transmission of dengue : symmetry and travelling wave analysis, *Nonlinear Analysis: Real World Applications*, vol. 41 : 269–287.
- Bijaksana, P.A., Windarto, dan Fatmawati., 2018, Pendekatan numerik pada model penyebaran sars dengan method of lines, *Limits*, vol. 15(1) : 55–69.
- Bonyah, E., Okosun, K. O., Gómez -Aguilar, J. F., dan Khan, M. A., 2019, On the co-infection of dengue fever and zika virus, *Optimal Control Application Method*, vol. 40 : 394–421.

- Brauer, F., dan Castillo-Chavez, C., 2012, *Mathematical Models in Population Biology and Epidemiology*, Second Edition, Springer, New York.
- Bronson, R., dan Costa, G. B., 2006, *Differential Equations*, Third Edition, Schaum's Outline Series, New Jersey.
- Carrillo-hernández, M. Y., Ruiz-saenz, J., Villamizar, L. J., Gómez-rangel, S. Y., dan Martínez-gutierrez, M., 2018, Co-circulation and simultaneous co-infection of dengue , chikungunya , and zika viruses in patients with febrile syndrome at the colombian-venezuelan border, *BMC Infectious Disease*, vol. 18(1) : 1–12.
- CDC., 2013, Flaviviridae, <https://www.cdc.gov/vhf/virus-families/flaviviridae.html>, 29 September 2019.
- CDC., 2019a, Dengue, <https://www.cdc.gov/dengue/index.html>, 29 September 2019.
- CDC., 2019b, Dengue Vaccine, <https://www.cdc.gov/dengue/prevention/dengue-vaccine.html>, 29 September 2019.
- CDC., 2019c, Health Effects and Risks, <https://www.cdc.gov/zika/healtheffects/index.html>, 29 September 2019.
- CDC., 2019d, Zika and Guillain-Barré Syndrome, <https://www.cdc.gov/zika/healtheffects/gbs-qa.html>, 13 Maret 2019.
- CDC., 2019e, Zika Transmission, <https://www.cdc.gov/zika/prevention/transmission-methods.html>, 30 September 2019.
- Chitnis, N., Hyman, J.M., dan Chusing, J.M., 2008, Determining Important Parameters in the Spread of Malaria through the Sensitivity Analysis of A Mathematical Model, *Bulletin of Mathematical Biology*, **70**: 1272-1296.
- Depkes RI., 2016a, Kemenkes Akan Keluarkan Travel Advisory Terkait Zika, <http://www.depkes.go.id/article/view/16090100002/kemenkes-akan->

keluarkan-travel-advisory-terkait-zika.html., 13 Maret 2019.

Depkes RI., 2016b, Pertanyaan Seputar Penyakit Virus Zika,  
[http://www.depkes.go.id/resources/download/info-terkini/PERTANYAAN\\_SEPUTAR PENYAKIT VIRUS ZIKA.pdf](http://www.depkes.go.id/resources/download/info-terkini/PERTANYAAN_SEPUTAR PENYAKIT VIRUS ZIKA.pdf)., 13 Maret 2019.

Depkes RI., 2017, Demam Berdarah Dengue (DBD),  
<http://www.depkes.go.id/development/site/depkes/index.php?cid=1-17042500004&id=demam-berdarah-dengue-dbd-.html>., 27 September 2019.

Depkes RI., 2019, Nyamuk DBD Mudah Menyerang,  
<http://www.depkes.go.id/article/view/19011400002/nyamuk-dbd-mudah-menyerang.html>., 27 September 2019.

Dinkes Kendal., 2019, Wapada Virus ZIKA,  
[https://dinkes.kendalkab.go.id/promkes/id/20181031007/wapada\\_virus\\_zika](https://dinkes.kendalkab.go.id/promkes/id/20181031007/wapada_virus_zika)., 27 September 2019.

Dinkes Lamongan., 2016, Virus Zika, <https://lamongankab.go.id/dinkes/virus-zika/>., 27 September 2019.

Dontwi, I. K., Amoah-mensah, J., dan Bonyah, E., 2018, Stability analysis of zika – malaria co-infection model for malaria endemic region, *Journal of Advances in Mathematics and Computer Science*, vol. 26(1) : 1–22.

Dupont-Rouzeyrol, M., Connor, O. O., Calvez, E., Daures, M., John, M., Grangeon, J., dan Gourinat, A., 2015, Co-infection with zika and dengue viruses in 2 patients , New Caledonia , 2014, *Emerging Infectious Disease*, vol. 21(2) : 381–382.

Edupuganti, S., Natrajan, M. S., Roush, N., Lai, L., Xu, Y., Feldhamer, M., Hill, C., Patel, S. M., Johnson, S. J., Bower, M., Gorchakov, R., Berry, R., Murray, K. O., dan Mulligan, M. J., 2017, Biphasic zika illness with rash and joint pain, *Infectious Disease Society of America*, vol. 4(3) : 3–6.

Estofolete, C. F., Terzian, A. C. B., Colombo, T. E., Guimarães, G. D. F., Junior,

- H. C. F., Silvia, R. A. D., Greque, G. V., dan Nogueira, M. L., 2018, Co-infection between zika and different dengue serotypes during, *Journal of Infection and Public Health*, vol. 12(2) : 178–181.
- Fraser, C., Donnelly, C. A., Cauchemez, S., Hanage, W. P., Van Kerkhove, M. D., Hollingsworth, T. D., Griffin, J., Baggaley, R. F., Jenkins, H. E., Lyons, E.J., Jombart, T., Hinsley, W.R., Grassly, N. C., Balloux, F., Ghani, A. C., Ferguson, N. M., Rambaut, A., Pybus, O. G., Lopez-Gatell, H., Alpuche-Aranda, C. M., Chapela, L.B., Zavala, L. P., Guevara, D. M. E., Checchi, F., Garcia, E., Hugonnet, S., dan Roth, C., 2009, Pandemic potential of a strain of influenza a (h1n1): early findings, *Science*, vol. 324(5934) : 1557–1561.
- Hasan, B., Singh, M., Richards, D., dan Blicblau, A., 2019, Mathematical modeling of zika virus as a mosquito-borne and sexually transmitted disease with diffusion effects, *Mathematics and Computers in Simulation*, vol. 166 : 56 – 75.
- Isea, R., dan Lonngren, K. E., 2016, A preliminary mathematical model for the dynamic transmission of dengue , chikungunya and zika, *American Journal of Modern Physics and Application*, vol.3(2) : 11–15.
- Loeb, J. C., Celli, E., Ciccozzi, M., Salemi, M., dan Glenn, J., 2016, Co-infection with zika and dengue-2 viruses in a traveler returning from Haiti, 2016: clinical presentation and genetic analysis, *The Infectious Diseases Society of America*, vol. 64(1) : 72–75.
- Merkin, D. R., 1996, *Introduction to The Theory of Stability*, First Edition, Springer, New York.
- Morrison, T. E., dan Diamond, M. S., 2017, Animal models of zika virus infection, pathogenesis, and immunity, *Journal of Virology*, vol. 91(8) : 1–15.
- Musso, D., Rodri, A. J., Villamil-go, W. E., Gonza, E., Mari, A., 2016, Zika , dengue , and chikungunya co-infection in a pregnant woman from Colombia, *International journal of infectious diseases*, vol. 51 : 135–138.

- Nacif-Pimenta, R., Chaves, B. A., Orfano, A.S., Nogueira, P. M., Rodrigues, N.B., dan Campolina, T. B., 2018, Coinfection with zika and dengue viruses results in preferential zika transmission by vector bite to vertebrate host, *The Infectious Diseases Society of America*, vol. 218(4) : 563–571.
- Ohainle, M., Balmaseda, A., Macalalad, A. R., Tellez, Y., Zody, M. C., Saborío, S., Nuñez, A., Lennon, N.J., Birren, B. W., Gordon, A., Henn, M. R., dan Harris, E., 2011, Dynamics of dengue disease severity determined by the interplay between viral genetics and serotype-specific immunity, *Science Translational Medicine*, vol. 3(114) : 59–64.
- Olsder, G. J., 2003, *Mathematical Systems Theory*, Second Edition, Netherlands: Delft University Press.
- PAHO., 2016, *Development of A Research Agenda for Characterizing The Zika Virus Outbreak and Its Public Health Implications in the Americas PAHO/WHO Regional Research Agenda Related to Zika virus Infection* (Pan American Health Organization PAHO), Washington DC, United States of America.
- Schiesser, W. E., dan Griffiths, G. W., 2009, *A Compendium of Partial Differential Equation Models : Method of Lines Analysis with Matlab*, New York.
- Tantawichien, T., 2012, Dengue fever and dengue haemorrhagic fever in adolescents and adults, *Paediatrics and International Child Health*, vol. 32 : 22–27.
- Van Den Driessche, P., dan Watmough, J., 2002, Reproduction numbers and sub-threshold endemic equilibria for compartmental models of disease transmission, *Mathematical Biosciences*, vol. 180(1–2) : 29–48.
- Waggoner, J. J., Gresh, L., Vargas, M. J., Ballesteros, G., Soda, K. J., Sahoo, M. K., Tellez, Y., Nuñez, A., Balmaseda, A., Harris, E., dan Pinsky, B.A., 2016, Viremia and clinical presentation in nicaraguan patients infected with zika virus, chikungunya virus, and dengue virus, *The Infectious Diseases Society of*

- America*, vol. 63(12) : 1584–1590.
- Wang, L., dan Zhao, H., 2019, Dynamics analysis of a zika-dengue co-infection model with dengue vaccine and antibody-dependent enhancement, *Physica A: Statistical Mechanics and Its Applications*, vol. 522 : 248–273.
- Wang, X., Shen, M., Xiao, Y., dan Rong, L., 2019 Optimal control and cost-effectiveness analysis of a zika virus infection model with comprehensive interventions, *Applied Mathematics and Computation*, vol. 359 : 165–185.
- WHO., 2018a, Immunization, Vaccines and Biologicals, [https://www.who.int/immunization/research/development/dengue\\_q\\_and\\_a/en/](https://www.who.int/immunization/research/development/dengue_q_and_a/en/), 27 September 2019.
- WHO., 2018b, Zika virus, <https://www.who.int/news-room/fact-sheets/detail/zika-virus>, 13 Maret 2019.
- WHO., 2019, Dengue and severe dengue, <https://www.who.int/news-room/fact-sheets/detail/dengue-and-severe-dengue>, 11 September 2019.
- Yuningsih, R., 2016, Mewaspada! ancaman virus zika di Indonesia, *Info Singkat Kesejahteraan Sosial*, vol. 8 (3): 9–12.
- Zill, D. G., & Cullen, M. R., 2009, *Differential Equations with Boundary-Value Problems*, Seventh Edition, Belmont.