

DAFTAR PUSTAKA

- Achmadi, U.F. (2014) *Manajemen Penyakit Berbasis Wilayah*. Jakarta, Rajawali Pers.
- Azam, M., Maeng, S.J., Kim, H.S., Lee, S.W., et al. (2018) Spatial and temporal trend analysis of precipitation and drought in South Korea. *Water (Switzerland)*. [Online] 10 (6). Available from: doi:10.3390/w10060765.
- Barragan, V., Nieto, N., Keim, P. & Pearson, T. (2017) Meta-analysis to estimate the load of *Leptospira* excreted in urine: Beyond rats as important sources of transmission in low-income rural communities. *BMC Research Notes*. [Online] 10 (1), 1–7. Available from: doi:10.1186/s13104-017-2384-4.
- Benacer, D., Lin, K., Choung, N., Bin, K., et al. (2016) Acta Tropica Epidemiology of human leptospirosis in Malaysia , 2004 – 2012. *Acta Tropica*. [Online] 157, 162–168. Available from: doi:10.1016/j.actatropica.2016.01.031.
- BPS Kabupaten Bantul (2018a) *Kabupaten Bantul dalam Angka 2018*.
- BPS Kabupaten Bantul (2018b) *Statistik Daerah Kabupaten Bantul Tahun 2018*.
- Cameron, C.E. (2015) Leptospiral Structure, Physiology, and Metabolism. In: Ben Adler (ed.). *Leptospira and Leptospirosis*. [Online]. Springer-Verlag Berlin Heidelberg. pp. 21–41. Available from: doi:10.1007/978-3-662-45059-8_5.
- Chadsuthi, S., Iamsirithaworn, S., Triampo, W. & Modchang, C. (2012) Modeling Seasonal Influenza Transmission and Its Association with Climate Factors in Thailand Using Time-Series and ARIMAX Analyses. *Computational and Mathematical Methods in Medicine*. [Online] 539–546. Available from: doi:10.1155/2015/436495.
- Cosson, J.F., Picardeau, M., Mielcarek, M., Tatard, C., et al. (2014) Epidemiology of *Leptospira* Transmitted by Rodents in Southeast Asia. *PLoS Neglected Tropical Diseases*. [Online] 8 (6). Available from: doi:10.1371/journal.pntd.0002902.
- Costa, F., Hagan, J.E., Calcagno, J., Kane, M., et al. (2015) Global Morbidity and Mortality of Leptospirosis: A Systematic Review. *PLoS Neglected Tropical Diseases*. [Online] 9 (9), 0–1. Available from: doi:10.1371/journal.pntd.0003898.
- Damos, P. (2016) Using multivariate cross correlations, Granger causality and graphical models to quantify spatiotemporal synchronization and causality between pest populations. *BMC Ecology*. [Online] 16 (1), 1–17. Available from: doi:10.1186/s12898-016-0087-7.

- Davis, R.E., McGregor, G.R. & Enfield, K.B. (2016) Humidity: A review and primer on atmospheric moisture and human health. *Environmental Research*. [Online] 144, 106–116. Available from: doi:10.1016/j.envres.2015.10.014.
- Deshmukh, P., Narang, R., Jain, J., Raj, R.V., et al. (2018) Leptospirosis in Wardha District, Central India—Analysis of hospital based surveillance data. *Clinical Epidemiology and Global Health*. [Online] Available from: doi:10.1016/j.cegh.2018.02.005.
- Dhewantara, P.W., Lau, C.L., Allan, K.J., Hu, W., et al. (2019) Spatial epidemiological approaches to inform leptospirosis surveillance and control: A systematic review and critical appraisal of methods. *Zoonoses and Public Health*. [Online] 66 (2), 185–206. Available from: doi:10.1111/zph.12549.
- Dhewantara, P.W., Mamun, A. Al, Zhang, W.-Y., Yin, W.-W., et al. (2018) Geographical and temporal distribution of the residual clusters of human leptospirosis in China, 2005–2016. *Scientific Reports*. [Online] 8 (1), 16650. Available from: doi:10.1038/s41598-018-35074-3.
- Dirjen PPI (2016) *Perubahan Iklim, Perjanjian Paris dan Nationally Determined Contribution*. Jakarta, Direktorat Jenderal Pengendalian Perubahan Iklim Kementerian Lingkungan Hidup dan Kehutanan.
- Ehelepola, N.D.B., Ariyaratne, K. & Dissanayake, W.P. (2019) The correlation between local weather and leptospirosis incidence in Kandy district, Sri Lanka from 2006 to 2015. *Global Health Action*. [Online] 12 (1). Available from: doi:10.1080/16549716.2018.1553283.
- Filho, J.G., Nazário, N.O., Freitas, P.F., Pinto, G. de A., et al. (2018) Temporal analysis of the relationship between leptospirosis, rainfall levels and seasonality, Santa Catarina, Brazil, 2005–2015. *Revista do Instituto de Medicina Tropical de Sao Paulo*. [Online] 60 (June), 1–9. Available from: doi:10.1590/S1678-9946201860039.
- Goarant, C. (2016) Leptospirosis: risk factors and management challenges in developing countries. *Research and Reports in Tropical Medicine*. [Online] Volume 7, 49–62. Available from: doi:10.2147/rrtm.s102543.
- Guernier, V., Goarant, C., Benschop, J. & Lau, C.L. (2018) A systematic review of human and animal leptospirosis in the Pacific Islands reveals pathogen and reservoir diversity. *PLoS Neglected Tropical Diseases*. [Online] 12 (5), 1–32. Available from: doi:10.1371/journal.pntd.0006503.
- Gutiérrez, J.D. & Martínez-Vega, R.A. (2018) Spatiotemporal dynamics of human leptospirosis and its relationship with rainfall anomalies in Colombia. *Transactions of the Royal Society of Tropical Medicine and Hygiene*. [Online] 112 (3), 115–123. Available from: doi:10.1093/trstmh/try032.

- Haake, D.A. & Levett, P.N. (2015) Leptospirosis in Humans. In: Ben Adler (ed.). *Leptospira and Leptospirosis*. [Online]. Springer-Verlag Berlin Heidelberg. pp. 65–97. Available from: doi:10.1007/978-3-662-45059-8_5.
- Hurd, J., Berke, O., Poljak, Z. & Runge, M. (2017) Spatial analysis of *Leptospira* infection in muskrats in Lower Saxony, Germany, and the association with human leptospirosis. *Research in Veterinary Science*. [Online] 114 (June), 351–354. Available from: doi:10.1016/j.rvsc.2017.06.015.
- IPCC (2014) *Climate Change 2014: Synthesis Report. Contribution of Working Groups I, II and III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*. Geneva, IPCC.
- Joshi, Y.P., Kim, E.H. & Cheong, H.K. (2017) The influence of climatic factors on the development of hemorrhagic fever with renal syndrome and leptospirosis during the peak season in Korea: An ecologic study. *BMC Infectious Diseases*. [Online] 17 (1), 1–11. Available from: doi:10.1186/s12879-017-2506-6.
- Kazemi-Moghaddam, V., Dehghani, R., Hadei, M., Dehqan, S., et al. (2018) Rodent-borne and rodent-related diseases in Iran. *Comparative Clinical Pathology*. [Online] 1–13. Available from: doi:10.1007/s00580-018-2690-9.
- Kemendes RI (2017) *Petunjuk Teknis Pengendalian Leptospirosis*. 3rd edition. Jakarta.
- Kulldorff, M. (2018) *SaTScan User Guide for version 9.6*. [Online]. 2018. Available from: <http://www.satscan.org/> [Accessed: 16 October 2018].
- Kulldorff, M., Heffernan, R., Hartman, J., Assunção, R., et al. (2005) A space-time permutation scan statistic for disease outbreak detection. *PLoS Medicine*. [Online] 2 (3), 0216–0224. Available from: doi:10.1371/journal.pmed.0020059.
- Lai, P.C., So, F.M. & Chan, K.W. (2009) *Spatial Epidemiological Approaches in Disease Mapping and Analysis*. Boca Raton, CRC Press.
- Lau, C.L., Smythe, L.D., Craig, S.B. & Weinstein, P. (2010) Climate change, flooding, urbanisation and leptospirosis: Fuelling the fire? *Transactions of the Royal Society of Tropical Medicine and Hygiene*. [Online] 104 (10), 631–638. Available from: doi:10.1016/j.trstmh.2010.07.002.
- Lau, C.L., Watson, C.H., Lowry, J.H., David, M.C., et al. (2016) Human Leptospirosis Infection in Fiji: An Eco-epidemiological Approach to Identifying Risk Factors and Environmental Drivers for Transmission. *PLoS Neglected Tropical Diseases*. [Online] 10 (1), 1–25. Available from: doi:10.1371/journal.pntd.0004405.

- Lie, K.C., Aziz, M.H., Kosasih, H., Neal, A., et al. (2018) Case report: two confirmed cases of human Seoul virus infections in Indonesia. *BMC infectious diseases*. [Online] 18 (1), 578. Available from: doi:10.1186/s12879-018-3482-1.
- Londe, L. de R., da Conceição, R.S., Bernardes, T. & Dias, M.C. de A. (2016) Flood-related leptospirosis outbreaks in Brazil: perspectives for a joint monitoring by health services and disaster monitoring centers. *Natural Hazards*. [Online] 84 (2), 1419–1435. Available from: doi:10.1007/s11069-016-2493-8.
- Malizia, N. (2013) Inaccuracy, Uncertainty and the Space-Time Permutation Scan Statistic. *PLoS ONE*. [Online] 8 (2). Available from: doi:10.1371/journal.pone.0052034.
- Matsushita, N., Ng, C.F.S., Kim, Y., Suzuki, M., et al. (2018) The non-linear and lagged short-term relationship between rainfall and leptospirosis and the intermediate role of floods in the Philippines. *PLOS Neglected Tropical Diseases*. [Online] 12 (4), e0006331. Available from: doi:10.1371/journal.pntd.0006331.
- Mayfield, H.J., Lowry, J.H., Watson, C.H., Kama, M., et al. (2018) Use of geographically weighted logistic regression to quantify spatial variation in the environmental and sociodemographic drivers of leptospirosis in Fiji: a modelling study. *The Lancet Planetary Health*. [Online] 2 (5), e223–e232. Available from: doi:10.1016/S2542-5196(18)30066-4.
- McIver, L., Hashizume, M., Kim, H., Honda, Y., et al. (2015) Assessment of Climate-sensitive Infectious Diseases in the Federated States of Micronesia. *Tropical Medicine and Health*. [Online] 43 (1), 29–40. Available from: doi:10.2149/tmh.2014-17.
- Meade, M.S. & Emch, M. (2010) *Medical Geography*. Third. London, The Guilford Press.
- Millán, J., Cevidanes, A., Chirife, A.D., Candela, M.G., et al. (2018) Risk factors of *Leptospira* infection in Mediterranean periurban micromammals. *Zoonoses and Public Health*. [Online] 65 (1), e79–e85. Available from: doi:10.1111/zph.12411.
- Mohd Radi, M.F., Hashim, J.H., Jaafar, M.H., Hod, R., et al. (2018) Leptospirosis outbreak after the 2014 major flooding event in Kelantan, Malaysia: A spatial-temporal analysis. *American Journal of Tropical Medicine and Hygiene*. [Online] 98 (5), 1281–1295. Available from: doi:10.4269/ajtmh.16-0922.

- Morand, S., Bordes, F., Blasdell, K., Pilosof, S., et al. (2015) Assessing the distribution of disease-bearing rodents in human-modified tropical landscapes. *Journal of Applied Ecology*. [Online] 52 (3), 784–794. Available from: doi:10.1111/1365-2664.12414.
- Murti, B. (2013) *Desain dan Ukuran Sampel untuk Penelitian Kuantitatif dan Kualitatif di Bidang Kesehatan*. Yogyakarta, Gadjah Mada University Press.
- Mwachui, M.A., Crump, L., Hartskeerl, R., Zinsstag, J., et al. (2015) Environmental and Behavioural Determinants of Leptospirosis Transmission: A Systematic Review. *PLoS Neglected Tropical Diseases*. [Online] 9 (9), 1–15. Available from: doi:10.1371/journal.pntd.0003843.
- National Research Council (2001) *Under the Weather : Climate, Ecosystems, and Infectious Disease*. Washington, D.C., National Academy Press.
- Nurbeti, M., Kusnanto, H. & Nugroho, W.S. (2016) Kasus-kasus Leptospirosis di Perbatasan Kabupaten Bantul, Sleman, dan Kulon Progo: Analisis Spasial. *Kesmas: National Public Health Journal*. 10 (1), 1–14.
- Peraturan Daerah Kabupaten Bantul Nomor 4 Tahun 2010 tentang Rencana Tata Ruang Wilayah (RTRW) Kabupaten Bantul Tahun 2010-2030
- Pfeiffer, D., Robinson, T.P., Stevenson, M., Stevens, K.B., et al. (2008) *Spatial Analysis in Epidemiology*. Oxford, Oxford University Press.
- Picardeau, M. (2017) Virulence of the zoonotic agent of leptospirosis: Still terra incognita? *Nature Reviews Microbiology*. [Online] 15 (5), 297–307. Available from: doi:10.1038/nrmicro.2017.5.
- Pujiyanti, A. & Trapsilowati, W. (2014) Efek Pendidikan Kesehatan dalam Upaya Penanggulangan Kejadian Luar Biasa (KLB) Leptospirosis di Kabupaten Bantul Tahun 2011. *Balaba*. 10 (02), 65–70.
- Rajala, E.L., Sattorov, N., Boqvist, S. & Magnusson, U. (2017) Bovine leptospirosis in urban and peri-urban dairy farming in low-income countries: A ‘One Health’ issue? *Acta Veterinaria Scandinavica*. [Online] 59 (1), 352–355. Available from: doi:10.1186/s13028-017-0352-6.
- Ristiyanto, Wibawa, T., Budiharta, S. & Supargiono (2015) Prevalensi Tikus Terinfeksi *Leptospira interrogans* di Kota Semarang, Jawa Tengah. *Vektora*. 7 (2), 85–92.
- Della Rossa, P., Tantrakarnapa, K., Sutdan, D., Kasetinsombat, K., et al. (2016) Environmental factors and public health policy associated with human and rodent infection by leptospirosis: A land cover-based study in Nan province, Thailand. *Epidemiology and Infection*. [Online] 144 (7), 1550–1562. Available from: doi:10.1017/S0950268815002903.

- Sakundarno, M., Bertolatti, D., Maycock, B., Spickett, J., et al. (2014) Risk Factors for Leptospirosis Infection in Humans and Implications for Public Health Intervention in Indonesia and the Asia-Pacific Region. *Asia Pacific Journal of Public Health*. [Online] 26 (1), 15–32. Available from: doi:10.1177/1010539513498768.
- Saulnier, D.D., Brolin Ribacke, K. & Von Schreeb, J. (2017) No Calm after the Storm: A Systematic Review of Human Health Following Flood and Storm Disasters. *Prehospital and Disaster Medicine*. [Online] 32 (5), 568–579. Available from: doi:10.1017/S1049023X17006574.
- Sherman, R.L., Henry, K.A., Tannenbaum, S.L., Feaster, D.J., et al. (2014) Applying Spatial Analysis Tools in Public Health: An Example Using SaTScan to Detect Geographic Targets for Colorectal Cancer Screening Interventions. *Preventing Chronic Disease*. [Online] 11 (2), 10–18. Available from: doi:10.5888/pcd11.130264.
- Sholichah, Z. & Rahmawati (2017) Sebaran Infeksi Leptospira Patogenik pada Tikus dan Cecurut di Daerah Pasca Banjir Kabupaten Pati dan Endemis Boyolali. *Balaba*. [Online] 13 (2), 173–182. Available from: doi:/doi.org/10.22435/blb.V13i2.7945.173-182.
- Soetens, L., Hahné, S. & Wallinga, J. (2017) Dot map cartograms for detection of infectious disease outbreaks: An application to Q fever, the Netherlands and Pertussis, Germany. *Eurosurveillance*. [Online] 22 (26), 1–7. Available from: doi:10.2807/1560-7917.ES.2017.22.26.30562.
- Sumanta, H., Wibawa, T., Hadisusanto, S., Nuryati, A., et al. (2015) Spatial Analysis of Leptospira in Rats , Water and Soil in Bantul District Yogyakarta Indonesia. *Open Journal fo Epidemiology*. [Online] 5 (February), 22–31. Available from: doi:doi.org/10.4236/ojepi.2015.51004.
- Sumi, A., Telan, E.F.O., Chagan-Yasutan, H., Hattori, T., et al. (2016) Effect of temperature, relative humidity and rainfall on dengue fever and leptospirosis infections in Manila, the Philippines. *Epidemiology and Infection*. [Online] 145 (01), 78–86. Available from: doi:10.1017/s095026881600203x.
- Sunaryo & Ikawati, B. (2012) Pemetaan Model Kerawanan Leptospirosis Berdasarkan Faktor Risiko Lingkungan dan Trap Success di Bantul, Yogyakarta. *Ekologi Kesehatan*. 11 (3), 220–229.
- Sunaryo & Puspita, N.D. (2014) Distribusi Spasial Leptospirosis Di Kabupaten Gresik, Jawa Timur. *Penelitian. Kesehatan, Vol. 42, No. 3*. [Online] 42 (3), 161–170. Available from: doi:10.1038/nature07954.
- Suwanpakdee, S., Kaewkungwal, J., White, L.J., Day, N.P.J., et al. (2015) Spatio-temporal patterns of leptospirosis in Thailand: is flooding a risk factor? *Epidemiology and Infection*. [Online] 143 (10), 2106–2115. Available from: doi:10.1017/s0950268815000205.

- Thibeaux, R., Geroult, S., Benezech, C., Chabaud, S., et al. (2017) Seeking the environmental source of Leptospirosis reveals durable bacterial viability in river soils. *PLoS Neglected Tropical Diseases*. [Online] 11 (2), 1–14. Available from: doi:10.1371/journal.pntd.0005414.
- Tjasyono HK, B. & Harijono, S.W.B. (2012) *Meteorologi Indonesia II: Awan dan Hujan Monsun*. Jakarta, BMKG.
- Vitale, M., Agnello, S., Chetta, M., Amato, B., et al. (2017) Human Leptospirosis Cases in Palermo Italy. The Role of Rodents and Climate. *Journal of Infection and Public Health*.
- Watts, N., Adger, W.N., Ayeb-Karlsson, S., Bai, Y., et al. (2017) The Lancet Countdown: tracking progress on health and climate change. *The Lancet*. [Online] 389 (10074), 1151–1164. Available from: doi:10.1016/S0140-6736(16)32124-9.
- WHO (2003) *Human Leptospirosis: Guidance for Diagnosis, Surveillance and Control*. Geneva, World Health Organization.
- WHO (2011) *Report of the Second Meeting of the Leptospirosis Burden Epidemiology Reference Group*. Geneva, World Health Organization.
- Wirjohamidjojo, S. & Swarinoto, Y. (2010) *Iklim Kawasan Indonesia*. Jakarta, BMKG.
- WMO (2014) *Guide to Meteorological Instruments and Methods of Observation*. Geneva, World Meteorological Organization (WMO).
- Wu, X., Lu, Y., Zhou, S., Chen, L., et al. (2016) Impact of climate change on human infectious diseases: Empirical evidence and human adaptation. *Environment International*. [Online] 86, 14–23. Available from: doi:10.1016/j.envint.2015.09.007.
- Yang, X., Xie, X., Liu, D.L., Ji, F., et al. (2015) Spatial Interpolation of Daily Rainfall Data for Local Climate Impact Assessment over Greater Sydney Region. *Advances in Meteorology*. [Online] 2015, 1–12. Available from: doi:10.1155/2015/563629.