

Reference List

- ACET (Analytical Centre of Excellence on Trafficking). 2019. *Illicit Wildlife Trade in Southeast Asia: Evolution, Trajectory and How to Stop It*. https://conservewildcats.org/wp-content/uploads/sites/5/2020/03/ACET-Report-No.1-Final_English1.pdf (accessed April 3, 2024).
- Achtman, M., and M. Wagner. 2008. “Microbial Diversity and the Genetic Nature of Microbial Species.” *Nature Reviews Microbiology* 6: 431–440. <https://doi.org/10.1038/nrmicro1872>.
- Adalja, A. A., M. Watson, E. S. Toner, A. Cicero, and T. V. Inglesby. 2019. “Characteristics of Microbes Most Likely to Cause Pandemics and Global Catastrophes.” *Current Topics in Microbiology and Immunology* 424: 1–20. https://doi.org/10.1007/82_2019_176.
- Aguirre, A. A., R. Catherina, H. Frye, and L. Shelley. 2020. “Illicit Wildlife Trade, Wet Markets, and Covid-19: Preventing Future Pandemics.” *World Medical & Health Policy* 12(3): 256–265. <https://doi.org/10.1002/wmh3.348>.
- Ahmed, K., P. Phommachanh, P. Vorachith, T. Matsumoto, P. Lamaningao, D. Mori et al. 2015. “Molecular Epidemiology of Rabies Viruses Circulating in Two Rabies Endemic Provinces of Laos, 2011–2012: Regional Diversity in Southeast Asia.” *PLOS Neglected Tropical Diseases* 9(3): 1–15. <https://doi.org/10.1371/journal.pntd.0003645>.
- Alam, A. M. 2022. “Nipah Virus, an Emerging Zoonotic Disease Causing Fatal Encephalitis.” *Clinical Medicine* 22(4): 348–352. <https://doi.org/10.7861/clinmed.2022-0166>.
- Alavi, H. R. 2011. “Supply Chains for Maize in the Asean Region.” In *Trusting Trade and the Private Sector for Food Security in Southeast Asia*, pp. 245–265. Washington, DC: World Bank.
- Alba, S., A. Lenglet, K. Verdonck, J. Roth, R. Patil, W. Mendoza et al. 2020. “Bridging Research Integrity and Global Health Epidemiology (BRIDGE) Guidelines: Explanation and Elaboration.” *BMJ Global Health* 5(10): 1–15. <https://doi.org/10.1136/bmjgh-2020-003237>.
- Alejandria, M. C. P., T. I. M. De Vergara, and K. P. M. Colmenar. 2019. “The Authentic Balut: History, Culture, and Economy of a Philippine Food Icon.” *Journal of Ethnic Foods* 6(1): 1–10. <https://doi.org/10.1186/s42779-019-0020-8>.
- Al-Gheethi, A., N. L. Ma, P. F. Rupani, N. Sultana, M. A. Yaakob, R. M. S. R. Mohamed et al. 2021. “Biowastes of Slaughterhouses and Wet Markets: An Overview of Waste Management for Disease Prevention.” *Environmental Science and Pollution Research* 30(28): 71780–71793. <https://doi.org/10.1007/s11356-021-16629-w>.
- Aliyah, I., B. Setioko, and W. Pradoto. 2016. “The Roles of Traditional Markets as the Main Component of Javanese Culture Urban Space (Case Study: The City of Surakarta, Indonesia).” *IAFOR Journal of Sustainability, Energy & the Environment* 3(1). <https://doi.org/10.22492/ijsec.3.1.06>.
- Alkhovsky, S., S. Lenshin, A. Romashin, T. Vishnevskaya, O. Vyshemirsky, Y. Bulycheva et al. 2022. “SARS-like Coronaviruses in Horseshoe Bats (*Rhinolophus spp.*) in Russia, 2020.” *Viruses* 14(1): 1–17. <https://doi.org/10.3390/v14010113>.
- Allen, T., K. A. Murray, C. Zambrana-Torrel, S. S. Morse, C. Rondinini, M. Di Marco et al. 2017. “Global Hotspots and Correlates of Emerging Zoonotic Diseases.” *Nature Communications* 8(1): 1124. <https://doi.org/10.1038/s41467-017-00923-8>.
- al-Qayrawani, 'A. ibn A. Z. 2018. “Chapter 29: On Sacrifices, the Slaughter of Animals, 'Aqiqa (Animals Sacrificed for the Birth of a Child), Hunting, Circumcision and Forbidden Food and Drinks.” In *The Risala of Ibn Abī Zayd al-Qayrawānī*, A. Bewley, ed., pp. 92-96. Diwan Press Ltd. https://www.diwanpress.com/wp-content/uploads/woocommerce_uploads/2018/12/Risala.Sample.pdf.
- Amonsin, A., C. Choatrakol, J. Lapkuntod, R. Tantilertcharoen, R. Thanawongnuwech, S. Suradhat et al.. 2008. “Influenza Virus (H5N1) in Live Bird Markets and Food Markets, Thailand. *Emerging Infectious Diseases* 14(11): 1739–1742. <https://doi.org/10.3201%2Faid1411.080683>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Anderson, B. D., J. A. Lednicky, M. Torremorell, and G. C. Gray. 2017. "The Use of Bioaerosol Sampling for Airborne Virus Surveillance in Swine Production Facilities: A Mini Review." *Frontiers in Veterinary Science* 4: 121. <https://doi.org/10.3389/fvets.2017.00121>.
- Angawi, K., and M. Albugmi. 2022. "The Impact of Social Media on Risk Perceptions During Covid-19 in Saudi Arabia." *Frontiers in Public Health* 10: 898041. <https://doi.org/10.3389/fpubh.2022.898041>.
- Angelos, J. A., A. L. Arens, H. A. Johnson, J. L. Cadriel, and B. I. Osburn. 2017. "One Health in Food Safety and Security Education: Subject Matter Outline for a Curricular Framework." *One Health* 3: 56–65. <https://doi.org/10.1016/j.onehlt.2017.04.001>.
- Anh, N. T. V., N. T. T. Anh, P. T. T., and T. T. K. Hong. 2021. *Wildlife Management and Conservation in Vietnam*. Working Paper 279. Bogor, Indonesia: Center for International Forestry Research. https://www.cifor.org/publications/pdf_files/WPapers/WP279Pham.pdf (accessed March 14, 2024).
- Archer, L. J., S. T. Turvey, C. M. Apale, D. B. Corona, R. L. Amada, and S. K. Papworth. 2021. "Digging Deeper: Understanding the Illegal Trade and Local Use of Pangolins in Palawan Province, Philippines." *Frontiers in Conservation Science* 2: 746366. <https://doi.org/10.3389/fcsc.2021.746366>.
- Ariffin, M. 2015. "Enforcement Against Wildlife Crimes in West Malaysia: The Challenges." *Journal of Sustainability Science and Management* 10(1): 19–26. <https://jssm.umt.edu.my/wp-content/uploads/2015/06/2.pdf>.
- Arranz, A., and H. Huang. 2020. "China's Wildlife Trade." *South China Morning Post* 4. <https://multimedia.scmp.com/infographics/news/china/article/3064927/wildlife-ban/index.html> (accessed April 25, 2025).
- ASEAN (Association of Southeast Asian Nations). 2021. *Asean Strategy for Exotic, Emerging, Re-Emerging Diseases and Animal Health Emergencies*. <https://asean.org/wp-content/uploads/2021/12/FAFD-35.-ASEAN-Strategy-Exotic-Emerging-Diseases-and-Animal-Health-Emergencies.pdf>.
- ASEAN. 2022. *Asean Strategy for Preventing Transmission of Zoonotic Diseases from Wildlife Trade*. <https://asean.org/wp-content/uploads/2023/01/15.-ASEAN-Strategy-for-Preventing-Zoonotic-Diseases-Transmission-from-Wildlife-Adopted.pdf>.
- ASEANPLUS. 2023. "Illegal Wildlife Trade 'Thriving' in Virtual World; Singapore Monitoring Marketplaces." *The Star*, August 7, 2023. <https://www.thestar.com.my/aseanplus/aseanplus-news/2023/08/07/illegal-wildlife-trade-thriving-in-virtual-world-singapore-monitoring-marketplaces> (accessed April 3, 2024).
- ASEAN Secretariat. 2021. *Asean Handbook on Legal Cooperation to Combat Illegal Wildlife Trade 2021*. <https://asean.org/book/asean-handbook-on-legal-cooperation-to-combat-illegal-wildlife-trade-2021/>.
- Asil, R. M., M. Ludlow, A. Ballal, S. Alsarraj, W. H. Ali, B. A. Mohamed et al. 2019. "First Detection and Genetic Characterization of Peste des Petits Ruminants Virus from Dorcas Gazelles "Gazella Dorcas" in the Sudan, 2016–2017. *Archives of Virology* 164(10): 2537–2543. <https://doi.org/10.1007/s00705-019-04330-w>.
- Asokan, G. V. 2015. "One Health and Zoonoses: The Evolution of One Health and Incorporation of Zoonoses." *Central Asian Journal of Global Health* 4(1): 139. <https://doi.org/10.5195/cajgh.2015.139>.
- Australian Aid, Australian Government, and Indonesian Ministry of Agriculture. 2015. *Strengthening Indonesia's Veterinary Services*. Australia Indonesia Partnership for Emerging Infectious Diseases, Achievements of the AIP-EID Animal Health Program 2011–2015. <https://www.agriculture.gov.au/sites/default/files/sitecollectiondocuments/animal-plant-health/partnership/aip-eid.pdf>.
- AWI (Animal Welfare Institute). 2024. Animal Fighting Spectator Prohibition Act. <https://awionline.org/legislation/animal-fighting-spectator-prohibition-act> (accessed March 14, 2024).
- Azocar-Aedo, L. 2023. "Basic Aspects and Epidemiological Studies on Leptospirosis Carried Out in Animals in Chile: A Bibliographic Review." *Tropical Medicine and Infectious Disease* 8(2): 1–17. <https://doi.org/10.3390/tropicalmed8020097>.
- Baharudin, H. 2020. "Coronavirus: New Grab Service Dedicated to Taking Healthcare Workers Home." *The Straits Times*, March 5, 2020. <https://www.straitstimes.com/singapore/coronavirus-new-grab-service-dedicated-to-taking-healthcare-workers-home> (accessed April 3, 2024).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Baker, R. E., A. S. Mahmud, I. F. Miller, M. Rajeev, F. Rasambainarivo, B. L. Rice et al.. 2022. “Infectious Disease in an Era of Global Change.” *Nature Reviews Microbiology* 20(4): 193–205. <https://www.nature.com/articles/s41579-021-00639-z>.
- Bali Spirit. n.d. Balinese Public Ceremonies. <https://www.balispirit.com/community/ceremony-public> (accessed March 13, 2024).
- Bardosh, K., R. R. Guinto, S. A. Bukachi, T. M. Hang, M. K. Bongcac, M. Y. M. de Los Santos et al. 2023. “Wet Market Biosecurity Reform: Three Social Narratives Influence Stakeholder Responses in Vietnam, Kenya, and the Philippines.” *PLOS Global Public Health* 3(9): e0001704. <https://doi.org/10.1371/journal.pgph.0001704>.
- Baudel, H., H. De Nys, E. M. Ngole, M. Peeters, and A. Desclaux. 2019. “Understanding Ebola Virus and Other Zoonotic Transmission Risks through Human-Bat Contacts: Exploratory Study on Knowledge, Attitudes and Practices in Southern Cameroon.” *Zoonoses and Public Health* 66(3): 288–295. <https://doi.org/10.1111/zph.12563>.
- Becker, D. J., and A. Banerjee. 2023. “Coupling Field and Laboratory Studies of Immunity and Infection in Zoonotic Hosts.” *Lancet Microbe* 4(5): e285–e287. [https://doi.org/10.1016/S2666-5247\(23\)00032-0](https://doi.org/10.1016/S2666-5247(23)00032-0).
- Beineke, A., W. Baumgartner, and P. Wohlsein. 2015. “Cross-Species Transmission of Canine Distemper Virus – an Update.” *One Health* 1: 49–59. <https://doi.org/10.1016/j.onehlt.2015.09.002>.
- Bellet, C., M. F. Humblet, M. Swanenburg, J. Dhé, S. Vandeputte, A. Thébault et al. 2012. *Specification of Data Collection on Animal Diseases to Increase the Preparedness of the AHAW Panel to Answer Future Mandates – CFP/EFSA/AHAW/2010/01*. Parma, Emilia-Romagna, Italy: European Food Safety Authority. <https://efsa.onlinelibrary.wiley.com/doi/pdf/10.2903/sp.efsa.2012.EN-354>.
- Berezowski, J., K. De Balogh, F. C. Dórea, S. Ruegg, A. Broglia, G. Zancanaro et al. 2023. “Coordinated Surveillance System under the One Health Approach for Cross-Border Pathogens that Threaten the Union – Options for Sustainable Surveillance Strategies for Priority Pathogens.” *EFSA Journal* 21(3): e07882. <https://doi.org/10.2903/j.efsa.2023.7882>.
- Bernstein, A. S., A. W. Ando, T. Loch-Temzelides, M. M. Vale, B. V. Li, H. Li et al. 2022. “The Costs and Benefits of Primary Prevention of Zoonotic Pandemics.” *Science Advances* 8(5): eabl4183. <https://doi.org/10.1126/sciadv.abl4183>.
- Bernstein, J., and J. Dutkiewicz. 2021. “A Public Health Ethics Case for Mitigating Zoonotic Disease Risk in Food Production.” *Food Ethics* 6(2): 9. <https://doi.org/10.1007/s41055-021-00089-6>.
- Bernstein, S. L., J. Weiss, and L. Curry. 2020. “Visualizing Implementation: Contextual and Organizational Support Mapping of Stakeholders (Cosmos).” *Implementation Science Communications* 1: 48. <https://doi.org/10.1186/s43058-020-00030-8>.
- Berthe, F. C. J., T. Bouley, W. B. Karesh, F. G. Le Gall, C. C. Machalaba, C. A. Plante et al. 2018. *Operational Framework for Strengthening Environmental Public Health Systems at Their Interface*. Washington, DC: World Bank. <https://documents.worldbank.org/en/publication/documents-reports/documentdetail/703711517234402168/operational-framework-for->
- Berthe, F. C. J., S. R. Bali, and G. J. Batmanian. 2022. *Putting Pandemics Behind Us: Investing in One Health to Reduce Risks of Emerging Infectious Diseases*. Washington, DC: World Bank. <https://documents.worldbank.org/en/publication/documents-reports/documentdetail/099530010212241754/p17840200ca7ff098091b7014001a08952e> (accessed March 25, 2024).
- Binot, A., R. Duboz, P. Promburom, W. Phimpraphai, J. Cappelle, C. Lajaunie et al. 2015. “A Framework to Promote Collective Action within the One Health Community of Practice: Using Participatory Modelling to Enable Interdisciplinary, Cross-Sectoral and Multi-Level Integration.” *One Health* 1: 44–48. <https://doi.org/10.1016/j.onehlt.2015.09.001>.
- Blacksell, S. D., J. Siengsanant-Lamont, S. Kamolsiripichai, L. J. Gleeson, and P. A. Windsor. 2019. “A History of FMD Research and Control Programmes in Southeast Asia: Lessons from the Past Informing the Future.” *Epidemiology and Infection* 147: e171. <https://doi.org/10.1017/S0950268819000578>.
- Blasdell, K. R., S. Morand, D. Perera, and C. Firth. 2019. “Association of Rodent-Borne *Leptospira* spp. with Urban Environments in Malaysian Borneo.” *PLOS Neglected Tropical Diseases* 13(2): 1–17. <https://doi.org/10.1371/journal.pntd.0007141>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Blasdell, K. R., S. Morand, S. G. W. Laurance, S. L. Doggett, A. Hahs, K. Trinh et al. 2022. “Rats and the City: Implications of Urbanization on Zoonotic Disease Risk in Southeast Asia.” *Proceedings of the National Academy of Sciences of the United States of America* 119(39): e2112341119. <https://doi.org/10.1073/pnas.2112341119>.
- Bloomfield, G., P. Meli, P. Brancalion, E. Terris, M. R. Guariguata, and E. Garen. 2019. “Strategic Insights for Capacity Development on Forest Landscape Restoration: Implications for Addressing Global Commitments.” *Tropical Conservation Science* 12: 1–11. <https://doi.org/10.1177/1940082919887589>.
- Boley, P. A., M. A. Alhamo, G. Lossie, K. K. Yadav, M. Vasquez-Lee, L. J. Saif et al. 2020. “Porcine Deltacoronavirus Infection and Transmission in Poultry, United States.” *Emerging Infectious Diseases* 26(2): 255–265. https://wwwnc.cdc.gov/eid/article/26/2/19-0346_article.
- Boongaling, C. G. K., M. C. E. Devanadera, J. C. L. Eligue, and F. R. C. Paro. 2023. “Gendered Participatory Resource Mapping: Case Studies of Upland and Coastal Indigenous Communities in Mindanao, Philippines.” *GeoJournal* 88(1): 319–339. <https://doi.org/10.1007/s10708-022-10602-x>
- Bordier, M., T. Uea-Anuwong, A. Binot, P. Hendrikx, and F. L. Goutard. 2020. “Characteristics of One Health Surveillance Systems: A Systematic Literature Review.” *Preventive Veterinary Medicine* 181: 104560. <https://doi.org/10.1016/j.prevetmed.2018.10.005>.
- Borkenhagen, L. K., M. D. Salman, M. J. Ma, and G. C. Gray. 2019. “Animal Influenza Virus Infections in Humans: A Commentary.” *International Journal of Infectious Diseases* 88: 113–119. <https://doi.org/10.1016/j.ijid.2019.08.002>.
- Boyle, E., B. Ó. Gallachóir, and G. Mullally. 2022. “Participatory Network Mapping of an Emergent Social Network for a Regional Transition to a Low-Carbon and Just Society on the Dingle Peninsula.” *Local Environment: The International Journal of Justice and Sustainability* 27(12): 1431–1445. <https://doi.org/10.1080/13549839.2021.1936472>
- Boys, I. N., E. Xu, K. B. Mar, P. C. De La Cruz-Rivera, J. L. Eitson, B. Moon et al.. 2020. “RTP4 is a Potent INF-Inducible Anti-Flavivirus Effector Engaged in a Host-Virus Arms Race in Bats and Other Mammals.” *Cell Host & Microbe* 28(5): 1–22. <https://doi.org/10.1016/j.chom.2020.09.014>.
- Breene, K. 2016. *Food Security and Why It Matters*. Cologny, Switzerland: World Economic Forum. <https://www.weforum.org/agenda/2016/01/food-security-and-why-it-matters/> (accessed February 21, 2024).
- Brown, V. R., and S. N. Bevins. 2017. “A Review of Virulent Newcastle Disease Viruses in the United States and the Role of Wild Birds in Viral Persistence and Spread.” *Veterinary Research* 48: 1–15. <https://doi.org/10.1186/s13567-017-0475-9>.
- Buheji, M., K. Cunha, and R. Rocha. 2020. “Ventilators in COVID-19, between Scarcity and Abundance Mindset.” *International Journal of Advanced Research in Engineering and Technology* 11(10). https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3738593
- Bulterys, P. L., M. A. Bulterys, K. Phommasone, M. Luangraj, M. Mayxay, S. Klopogge et al. 2018. “Climatic Drivers of Melioidosis in Laos and Cambodia: A 16-Year Case Series Analysis.” *Lancet Planet Health* 2(8): e334–e343. [https://doi.org/10.1016/S2542-5196\(18\)30172-4](https://doi.org/10.1016/S2542-5196(18)30172-4).
- Burke, N. J., G. Joseph, R. J. Pasick, and J. C. Barker. 2009. “Theorizing Social Context: Rethinking Behavioral Theory.” *Health Education & Behavior* 36(5 Suppl.): 55S–70S. <https://doi.org/10.1177/1090198109335338>.
- Butler, D. 2012. “Death-Rate Row Blurs Mutant Flu Debate.” *Nature* 482(7385): 289. <https://doi.org/10.1038/482289a>.
- Cabinet Secretariat of the Republic of Indonesia. 2019. “Government Issues Regulation to Combat Disease Outbreak.” Office of Assistant to Deputy Cabinet Secretary for State Documents and Translation, July 9, 2019. <https://setkab.go.id/en/govt-issues-regulation-to-combat-disease-outbreak/> (accessed March 19, 2024).
- Calisher, C. H., J. E. Childs, H. E. Field, K. V. Holmes, and T. Schountz. 2006. “Bats: Important Reservoir Hosts of Emerging Viruses.” *Clinical Microbiology Reviews* 19(3): 531–545. <https://doi.org/10.1128/cmr.00017-06>.
- Calub, B. M. 2004. *Participatory Rural Appraisal Guidebook*. Farming Systems and Soil Resources Institute. Los Baños: University of the Philippines Los Baños.
- CAMBOHUN (Cambodia One Health University Network). n.d. *Five Year Strategic Plan 2021–2025 Cambodia One Health University Network (CAMBOHUN)*. <https://www.cambohun.org/about-us> (accessed February 9, 2024).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Campbell, S., A. Timoshyna, G. Sant, D. Biggs, A. Braczkowski, H. Caceres-Escobar et al. 2022. *Review: Options for Managing and Tracing Wild Animal Trade Chains to Reduce Zoonotic Disease Risk*. Cambridge, United Kingdom: TRAFFIC). <https://www.traffic.org/publications/reports/review-options-for-managing-and-tracing-wild-animal-trade-chains-to-reduce-zoonotic-risk/>
- Campbell, S., G. Burgess, S. Watson, and J. Compton. 2021. *Situation Analysis: Social and Behaviour Change Messaging on Wildlife Trade and Zoonotic Disease Risks*. Cambridge, United Kingdom: TRAFFIC. <https://www.traffic.org/publications/reports/situation-analysis-social-and-behaviour-change-messaging-on-wildlife-trade-and-zoonotic-disease-risks/> (accessed January 16, 2024).
- Cappelle, J., T. Hoem, V. Hul, N. Furey, K. Nguon, S. Prigent et al. 2020. “Nipah Virus Circulation at Human-Bat Interfaces, Cambodia.” *Bulletin of the World Health Organization* 98(8): 539–547. <https://doi.org/10.2471%2FBLT.20.254227>.
- Cariappa, M. P., J. Jayaram, R. Bhalwar, A. K. Praharaj, V. K. Mehta, and L. K. Kapur. 2004. “Epidemiological Differentials of Hepatitis B Carrier State in the Army : A Community Based Sero-Epidemiological Study.” *Medical Journal Armed Forces India* 60(3): 251–254. [https://doi.org/10.1016/S0377-1237\(04\)80057-1](https://doi.org/10.1016/S0377-1237(04)80057-1).
- Carlson, C. J., C. M. Zipfel, R. Garnier, and S. Bansal. 2019a. “Global Estimates of Mammalian Viral Diversity Accounting for Host Sharing.” *Nature Ecology and Evolution* 3(7): 1070–1075. <https://doi.org/10.1038/s41559-019-0910-6>.
- Carlson, C. J., I. T. Kracalik, N. Ross, K. A. Alexander, M. E. Hugh-Jones, M. Fegan et al. 2019b. “The Global Distribution of *Bacillus anthracis* and Associated Anthrax Risk to Humans, Livestock and Wildlife.” *Nature Microbiology* 4(8): 1337–1343. <https://doi.org/10.1038/s41564-019-0435-4>.
- Carlson, C. J., G. F. Albery, C. Merow, C. H. Trisos, C. M. Zipfel, E. A. Eskew et al. 2022. “Climate Change Increases Cross-Species Viral Transmission Risk.” *Nature* 607(7919): 555–562. <https://doi.org/10.1038/s41586-022-04788-w>.
- Carroll, D., P. Daszak, N. D. Wolfe, G. F. Gao, C. M. Morel, S. Morzaria et al. 2018. “The Global Virome Project.” *Science* 359(6378): 872–874. <https://doi.org/10.1126/science.aap7463>.
- Casadevall, A. 2017. “The Pathogenic Potential of a Microbe.” *mSphere* 2(1): 1–7. <https://journals.asm.org/doi/10.1128/msphere.00015-17>.
- Caserta, L. C., M. Martins, S. L. Butt, N. A. Hollingshead, L. M. Covaleda, S. Ahmed et al. 2023. “White-Tailed Deer (*Odocoileus virginianus*) May Serve as a Wildlife Reservoir for Nearly Extinct SARS-CoV-2 Variants of Concern.” *Proceedings of the National Academy of Sciences of the United States of America* 120(6): 1–12. <https://www.pnas.org/doi/10.1073/pnas.2215067120>.
- Castelli, G., W. M. Oo, A. di Maggio, L. Fellin, V. Re, and E. Bresci. 2021. “Participatory Analysis of Sustainable Land and Water Management Practices for Integrated Rural Development in Myanmar.” *Journal of Water, Sanitation and Hygiene for Development* 11(1): 26–36. <https://doi.org/10.2166/washdev.2020.166>.
- Catley, A., J. Osman, C. Mawien, B. A. Jones, and T. J. Leyland. 2002. “Participatory Analysis of Seasonal Incidences of Diseases of Cattle, Disease Vectors and Rainfall in Southern Sudan.” *Preventive Veterinary Medicine* 53(4): 275–284. [https://doi.org/10.1016/s0167-5877\(01\)00289-6](https://doi.org/10.1016/s0167-5877(01)00289-6).
- CBD (Convention on Biological Diversity). 2022. “Target 5: Ensure Sustainable, Safe and Legal Harvesting and Trade of Wild Species.” *The Biodiversity Plan for Life on Earth*. <https://www.cbd.int/gbf/targets/5>.
- CDC (Centers for Disease Control and Prevention). 2015. Leptospirosis Infection. Last reviewed: June 9, 2015. <https://www.cdc.gov/leptospirosis/infection/index.html> (accessed April 2, 2024).
- CDC. 2018. Anthrax. Last reviewed: November 27, 2018. <https://www.cdc.gov/niosh/topics/anthrax/default.html#:~:text=Inhalation%20anthrax%20infections%20may%20occur,or%20from%20ingesting%20aerosolized%20spores> (accessed April 8, 2024).
- CDC. 2019a. How is rabies transmitted? Last reviewed: June 11, 2019. <https://www.cdc.gov/rabies/transmission/index.html#:~:text=People%20usually%20get%20rabies%20from,material%20from%20a%20rabid%20animal> (accessed March 20, 2024).
- CDC. 2019b. Q Fever. Last reviewed: January 15, 2019. <https://www.cdc.gov/qfever/index.html#:~:text=burnetii%20bacteria%20are%20found%20in,%2C%20milk%2C%20and%20birth%20products> (accessed March 15, 2024).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- CDC. 2020. *Hepatitis E Questions and Answers for Health Professionals*. Last reviewed: September 15, 2020. <https://www.cdc.gov/hepatitis/hev/hevfaq.htm> (accessed April 10, 2024).
- CDC. 2021. *Field Epidemiology Training Program (FETP)*. Last reviewed: December 17, 2021. <https://www.cdc.gov/globalhealth/healthprotection/fetp/index.htm> (accessed March 9, 2024).
- CDC. 2022a. *Avian Influenza in Birds*. Last reviewed: June 14, 2022. <https://www.cdc.gov/flu/avianflu/avian-in-birds.htm> (accessed April 8, 2024).
- CDC. 2022b. *Considerations for Health Screening at Points of Entry*. Updated: August 26, 2022. <https://www.cdc.gov/immigrantrefugeehealth/considerations-border-health-screening.html> (accessed March 10, 2024).
- CDC. 2022c. *Transmission of Japanese Encephalitis Virus*. Last reviewed: December 7, 2022. [https://www.cdc.gov/japaneseencephalitis/transmission/index.html#:~:text=Japanese%20encephalitis%20\(JE\)%20virus%2C,species%20mosquitoes%2C%20particularly%20Culex%20tritaeniorhynchus](https://www.cdc.gov/japaneseencephalitis/transmission/index.html#:~:text=Japanese%20encephalitis%20(JE)%20virus%2C,species%20mosquitoes%2C%20particularly%20Culex%20tritaeniorhynchus) (accessed March 19, 2024).
- CDC. 2023a. *CDC Museum COVID-19 Timeline*. Last reviewed: March 15, 2023. <https://www.cdc.gov/museum/timeline/covid19.html> (accessed March 12, 2024).
- CDC. 2023b. *H5N1 Update: Two Human H5N1 Cases in Cambodia*. Last reviewed: February 25, 2023. <https://www.cdc.gov/flu/avianflu/human-cases-cambodia.htm> (accessed April 2, 2024).
- CDC. 2023c. *Melioidosis*. Last reviewed: August 30, 2023. <https://www.cdc.gov/melioidosis/index.html> (accessed April 10, 2024).
- CDC. 2024. *First Human Influenza A (H5N1) (Bird Flu) Virus Infections in Cambodia Reported for 2024*. Last reviewed: February 12, 2024. <https://www.cdc.gov/flu/avianflu/spotlights/2023-2024/cambodia-human-reported-2024.htm#:~:text=These%20are%20the%20first%20human,late%20January%20and%20early%20February> (accessed April 3, 2024).
- CDC, USAID, and FAO. 2017. *Workshop Summary: One Health Zoonotic Disease Prioritization for Multisectoral Engagement in Bangladesh*. U.S. Centers for Disease Control and Prevention, U.S. Agency for International Development, and Food and Agriculture Organization of the United Nations. Dhaka, Bangladesh: CDC-USAID-FAO. <https://www.cdc.gov/one-health/media/pdfs/bangladesh-508.pdf>.
- Cecilio, P., A. Cordeiro-da-Silva, and F. Oliveira. 2022. “Sand Flies: Basic Information on the Vectors of Leishmaniasis and Their Interactions with *Leishmania* Parasites.” *Communications Biology* 5(1): 1–12. <https://doi.org/10.1038/s42003-022-03240-z>.
- Celina, S. S., and J. Cerny. 2022. “*Coxiella burnetii* in Ticks, Livestock, Pets and Wildlife: A Mini-Review.” *Frontiers in Veterinary Science* 9: 1–13. <https://doi.org/10.3389/fvets.2022.1068129>.
- Challender, D. W. S., S. R. Harrop, and D. C. MacMillan. 2015. “Towards Informed and Multi-Faceted Wildlife Trade Interventions.” *Global Ecology and Conservation* 3: 129–148. <https://doi.org/10.1016/j.gecco.2014.11.010>.
- Chambers, R. 2012. *Participatory Workshops: A Sourcebook of 21 Sets of Ideas and Activities*. United Kingdom: Earthscan, Routledge. <https://www.taylorfrancis.com/books/mono/10.4324/9781849772136/participatory-workshops-robert-chambers>.
- Chan, P. K. S. 2002. “Outbreak of Avian Influenza A(H5N1) Virus Infection in Hong Kong in 1997.” *Clinical Infectious Diseases* 34(Suppl. 2): S58–S64. <https://doi.org/10.1086/338820>.
- Chandler, J. C., S. N. Bevins, J. W. Ellis, T. J. Linder, R. M. Tell, M. Jenkins-Moore et al. 2021. “SARS-CoV-2 Exposure in Wild White-Tailed Deer (*Odocoileus virginianus*).” *Proceedings of the National Academy of Sciences of the United States of America*. 118(47): 1–3. <https://doi.org/10.1073/pnas.2114828118>.
- Charostad, J., M. R. Z. Rukerd, S. Mahmoudvand, D. Bashash, S. M. A. Hashemi, M. Nakhaie et al. 2023. “A Comprehensive Review of Highly Pathogenic Avian Influenza (HPAI) H5N1: An Imminent Threat at Doorstep.” *Travel Medicine and Infectious Disease* 55: 102638. <https://doi.org/10.1016/j.tmaid.2023.102638>.
- Chau, M. L., S. L. Chen, M. Yap, S. H. P. Hartantyo, P. K. T. Chiew, C. J. Fernandez et al. 2017. “Group B *Streptococcus* Infections Caused by Improper Sourcing and Handling of Fish for Raw Consumption, Singapore, 2015–2016.” *Emerging Infectious Diseases* 23(12): 2002–2010. <https://doi.org/10.3201/eid2312.170596>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Chen, S. L. 2019. “Genomic Insights into the Distribution and Evolution of Group B Streptococcus.” *Frontiers in Microbiology* 10: 464508. <https://doi.org/10.3389/fmicb.2019.01447>.
- China CDC (Chinese Center for Disease Control and Prevention). 2022. Overview. Updated: January 5, 2022. <https://en.chinacdc.cn/about/overview/>.
- Ching, F. 2018. “Bird Flu, Sars and Beyond.” In *130 Years of Medicine in Hong Kong: From the College of Medicine for Chinese to the Li Ka Shing Faculty of Medicine*, pp. 381–434. Singapore: Springer. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7120366/>.
- Ching, P. K., V. C. de los Reyes, M. N. Sucaldito, E. Tayag, A. B. Columna-Vingno, F. F. Malbas, Jr. et al. 2015. “Outbreak of Henipavirus Infection, Philippines, 2014.” *Emerging Infectious Diseases* 21(2): 328–331. <https://doi.org/10.3201/eid2102.141433>.
- Chow, B. W. K., Y. D. Lim, R. C. H. Poh, A. Ko, G. H. Hong, S. W. L. Zou et al. 2023. “Use of a Digital Contact Tracing System in Singapore to Mitigate COVID-19 Spread.” *BMC Public Health* 23(1): 1–7. <https://doi.org/10.1186/s12889-023-17150-0>.
- Chowdhury, S., L. Barai, S. R. Afroze, P. K. Ghosh, F. Afroz, H. Rahman et al. 2022. “The Epidemiology of Melioidosis and Its Association with Diabetes Mellitus: A Systematic Review and Meta-Analysis.” *Pathogens* 11(2): 1–15. <https://doi.org/10.3390/pathogens11020149>.
- Chua, K. B., W. J. Bellini, P. A. Rota, B. H. Harcourt, A. Tamin, S. K. Lam et al. 2000. “Nipah Virus: A Recently Emergent Deadly Paramyxovirus.” *Science* 288(5470):1432–1435. <https://doi.org/10.1126/science.288.5470.1432>.
- CITES (Convention on International Trade in Endangered Species of Wild Fauna and Flora). 2014. “300 Science Experts Review Sustainability of CITES Wildlife Trade Cheetahs, Timber Trade, Polar Bears, Snakes, Macaque Monkeys, Chameleons, Seahorses and Euphorbia Plants Feature Strongly in Scientific Meetings of Cites.” Press release, May 9, 2014. <https://cites.org/eng/300-Science-Experts-Review-Sustainability-of-CITES-Wildlife-Trade#:~:text=The%20CITES%20permit%20system%20seeks,D.C.%20on%203%20March%201977>.
- Clark, S. 2022. “Slaughterhouses: How Are Animals Killed in a Slaughterhouse?” The Humane League, November 15, 2022. <https://thehumaneleague.org/article/slaughterhouses> (accessed February 1, 2024).
- Cleaveland, S., D. T. Haydon, and L. Taylor. 2007. “Overviews of Pathogen Emergence: Which Pathogens Emerge, When and Why?” *Current Topics in Microbiology and Immunology* 315: 85–111. https://link.springer.com/chapter/10.1007/978-3-540-70962-6_5.
- Coccia, M. 2022. “Preparedness of Countries to Face COVID-19 Pandemic Crisis: Strategic Positioning and Factors Supporting Effective Strategies of Prevention of Pandemic Threats.” *Environmental Research* 203: 111678. <https://doi.org/10.1016/j.envres.2021.111678>.
- Coker, R. J., B. M. Hunter, J. W. Rudge, M. Liverani, and P. Hanvoravongchai. 2011a. “Emerging Infectious Diseases in Southeast Asia: Regional Challenges to Control.” *Lancet* 377(9765): 599–609. [https://doi.org/10.1016/S0140-6736\(10\)62004-1](https://doi.org/10.1016/S0140-6736(10)62004-1).
- Coker, R., J. Rushton, S. Mounier-Jack, E. Karimuribo, P. Lutumba, D. Kambarage et al. 2011b. “Towards a Conceptual Framework to Support One-Health Research for Policy on Emerging Zoonoses.” *The Lancet Infectious Diseases* 11(4): 326–331. <https://www.sciencedirect.com/science/article/abs/pii/S1473309910703121?via%3Dihub>.
- Coleman, M. 2021. *Mistreatment of Wild Animals in Captivity*. Ballard Brief, April 2021. <https://ballardbrief.byu.edu/issue-briefs/mistreatment-of-wild-animals-in-captivity> (accessed March 10, 2024).
- Collin, E. A., Z. Sheng, Y. Lang, W. Ma, B. M. Hause, and F. Li. 2015. “Cocirculation of Two Distinct Genetic and Antigenic Lineages of Proposed Influenza D Virus in Cattle.” *Journal of Virology* 89(2): 1036–1042. <https://doi.org/10.1128/jvi.02718-14>.
- Common LII. n.d. Emergency (Essential Powers) Act 1979. *Malaysian Legislation*. http://www.commonlii.org/my/legis/consol_act/epa1979292/ (accessed March 12, 2024).
- Concepcion, G. P., and E. A. Padlan. 2003. “Are Humans Getting ‘Mad-Cow Disease’ from Eating Beef, or Something Else?” *Medical Hypotheses* 60(5): 699–701. [https://doi.org/10.1016/S0306-9877\(03\)00025-2](https://doi.org/10.1016/S0306-9877(03)00025-2).
- Cox, D. 2021. “The Threat Nobody Is Talking About? Covid Spillover.” *WIRED*, June 22, 2021. <https://www.wired.com/story/covid-19-spillover-animals/> (accessed April 10, 2024).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Cox, N. J., S. C. Trock, and S. A. Burke. 2014. “Pandemic Preparedness and the Influenza Risk Assessment Tool (IRAT).” In *Influenza Pathogenesis and Control – Volume I. Current Topics in Microbiology and Immunology*, R. W. Compans and M. B. A. Oldstone, eds., vol. 385, pp. 119–136. Switzerland: Springer International Publishing. https://doi.org/10.1007/82_2014_419.
- Crellen, T., P. Sithithaworn, O. Pitaksakulrat, N. Khuntikeo, G. F. Medley, and T. D. Hollingsworth. 2021. “Towards Evidence-Based Control of *Opisthorchis viverrini*.” *Trends in Parasitology* 37(5): 370–380. <https://doi.org/10.1016/j.pt.2020.12.007>.
- Crits-Christoph, A., J. I. Levy, J. E. Pekar, S. A. Goldstein, R. Singh, Z. Hensel et al. 2023. “Genetic Tracing of Market Wildlife and Viruses at the Epicenter of the COVID-19 pandemic.” *bioRxiv*: 1–37. <https://doi.org/10.5281/zenodo.7754299>.
- Dane, P. 2021. “More Than 1,700 Wild Birds Died of Bird Flu in Prey Veng”. *Cambodianess*, April 6, 2021. <https://cambodianess.com/article/more-than-1700-wild-birds-died-of-bird-flu-in-prey-veng>.
- Daszak, P., A. A. Cunningham, and A. D. Hyatt. 2000. “Emerging Infectious Diseases of Wildlife-Threats to Biodiversity and Human Health.” *Science* 287(5452): 443–449. <https://doi.org/10.1126/science.287.5452.443>.
- Daszak, P., C. Zambrana-Torrel, T. L. Bogich, M. Fernandez, J. H. Epstein, K. A. Murray et al. 2013. “Interdisciplinary Approaches to Understanding Disease Emergence: The Past, Present, and Future Drivers of Nipah Virus Emergence.” *Proceedings of the National Academy of Sciences of the United States of America* 110(Suppl. 1): 3681–3688. <https://www.pnas.org/doi/full/10.1073/pnas.1201243109/>.
- Davis, M. F., L. B. Price, C. M.-H. Liu, and E. K. Silbergeld. 2011. “An Ecological Perspective on U.S. Industrial Poultry Production: The Role of Anthropogenic Ecosystems on the Emergence of Drug-Resistant Bacteria from Agricultural Environments.” *Current Opinion in Microbiology* 14(3): 244–250. <https://doi.org/10.1016/j.mib.2011.04.003>.
- Dawe, D. 2015. *Agricultural Transformation of Middle-Income Asian Economies: Diversification, Farm Size and Mechanization*. ESA Working Paper No. 15-04. Rome: Food and Agriculture Organization of the United Nations. <https://www.fao.org/agrifood-economics/publications/detail/en/c/343817/>.
- de Castañeda, R. R., J. Villers, C. A. F. Guzman, T. Eslanloo, N. de Paula, C. Machalaba, et al. 2023. “One Health and Planetary Health Research: Leveraging Differences to Grow Together.” *Lancet Planet Health* 7(2): e109–e111. [https://doi.org/10.1016/S2542-5196\(23\)00002-5](https://doi.org/10.1016/S2542-5196(23)00002-5).
- de la Rocque, S. K. M. M. Errecaborde, G. Belot, T. Brand, S. Shadomy, S.v. Dobschuetz, et al. 2023. “One Health Systems Strengthening in Countries: Tripartite Tools and Approaches at the Human-Animal-Environment Interface.” *BMJ Global Health* 8(1): 1–7. <https://doi.org/10.1136/bmjgh-2022-011236>.
- Debnath, N., S. Morand, and Members of the One Health High Level Expert Panel (OHHLEP). 2013. “Preventing Zoonoses at Source – Towards Enhancing Capacity for Prevention, Rapid Detection, Awareness, Control, and Research on Zoonoses.” Presented at the 33rd Conference of the Regional Commission for Asia and the Pacific, 2013, New Delhi. https://rr-asia.woah.org/app/uploads/2023/11/technical_item_1_preventing-zoonoses-at-source.pdf.
- Degeling, C., J. Johnson, I. Kerridge, A. Wilson, M. Ward, C. Stewart, et al. 2015. “Implementing a One Health Approach to Emerging Infectious Disease: Reflections on the Socio-Political, Ethical and Legal Dimensions.” *BMC Public Health* 15: 1–11. <https://doi.org/10.1186/s12889-015-2617-1>.
- Delaune, D., V. Hul, E. A. Karlsson, A. Hassanin, T. P. Ou, A. Baidaliuk, et al. 2021. “A Novel SARS-CoV-2 Related Coronavirus in Bats from Cambodia.” *Nature Communications* 12(1): 1–7. <https://www.nature.com/articles/s41467-021-26809-4>.
- Delesalle, L., M. L. Sadoine, S. Mediouni, J. Denis-Robichaud, K. Zinszer, C. Zarowsky, et al. 2022. “How Are Large-Scale One Health Initiatives Targeting Infectious Diseases and Antimicrobial Resistance Evaluated? A Scoping Review.” *One Health* 14: 1–10. <https://www.sciencedirect.com/science/article/pii/S235277142200012X?via%3Dihub>.
- Demetria, C., I. Smith, T. Tan, D. Villarico, E. M. Simon, R. Centeno, et al. 2018. “Reemergence of Reston *Ebolavirus* in *Cynomolgus* Monkeys, The Philippines, 2015.” *Emerging Infectious Diseases* 24(7): 1285–1291. <https://doi.org/10.3201%2Fid2407.171234>.
- Denstedt, E., A. Porco, J. Hwang, N. T. T. Nga, P. T. B. Ngoc, S. Chea, et al. 2021. “Detection of African Swine Fever Virus in Free-Ranging Wild Boar in Southeast Asia.” *Transboundary and Emerging Diseases* 68(5): 2669–2675. <https://doi.org/10.1111/tbed.13964>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Dickx, V., T. Geens, T. Deschuyffeleer, L. Tyberghien, T. Harkinezhad, D. S. Beeckman, et al. 2010. “*Chlamydomphila psittaci* Zoonotic Risk Assessment in a Chicken and Turkey Slaughterhouse.” *Journal of Clinical Microbiology* 48(9): 3244–3250. <https://doi.org/10.1128/JCM.00698-10>.
- Dimitrov, K. 2023. “Other Avian Paramyxovirus Infections.” In *Merck Veterinary Manual*. <https://www.merckvetmanual.com/poultry/newcastle-disease-and-other-paramyxovirusinfections/other-avian-paramyxovirus-infections> (accessed April 2, 2024).
- Docherty, L., and P. L. Foley. 2021. “Survey of One Health Programs in US Medical Schools and Development of a Novel One Health Elective for Medical Students.” *One Health* 12: 1–8. <https://www.sciencedirect.com/science/article/pii/S2352771421000215?via%3Dihub>.
- dos S. Ribeiro, C., L. H. M. van de Burgwal, and B. J. Regeer. 2019. “Overcoming Challenges for Designing and Implementing the One Health Approach: A Systematic Review of the Literature.” *One Health* 7(June): 100085. <https://doi.org/10.1016/j.onehlt.2019.100085>.
- Douchet, L., C. Goarant, M. Mangeas, C. Menkes, S. Hinjoy, and V. Herbreteau. 2022. “Unraveling the Invisible Leptospirosis in Mainland Southeast Asia and Its Fate under Climate Change.” *Science of the Total Environment* 832: 1–12. <https://doi.org/10.1016/j.scitotenv.2022.155018>.
- Doung-ngern, P., T. Chuxnum, D. Pangjai, P. Opaschaitat, N. Kittiwat, P. Rodtian, et al. 2017. “Seroprevalence of *Coxiella burnetii* Antibodies among Ruminants and Occupationally Exposed People in Thailand, 2012–2013.” *The American Journal of Tropical Medicine and Hygiene* 96(4): 786–790. <https://doi.org/10.4269/ajtmh.16-0336>.
- Drake, J. M., T. S. Brett, S. Chen, B. I. Epureanu, M. J. Ferrari, E. Marty, et al. 2019. “The Statistics of Epidemic Transitions.” *PLOS Computational Biology* 15(5): e1006917. <https://doi.org/10.1371/journal.pcbi.1006917>.
- Dreier, L., D. Nabarro, and J. Nelson. 2019. *Systems Leadership for Sustainable Development: Strategies for Achieving Systemic Change*. Corporate Responsibility Initiative. Cambridge, MA: Harvard Kennedy School. <https://www.hks.harvard.edu/sites/default/files/centers/mrcbg/files/Systems%20Leadership.pdf>.
- Dubey, A., N. S. Ghosh, A. Gupta, and S. Singh. 2023. “A Review on Current Epidemiology and Molecular Studies of Lumpy Skin Disease Virus – an Emerging Worldwide Threat to Domestic Animals.” *Journal of Medical Pharmaceutical and Allied Sciences* 12: 5635–5643. <http://dx.doi.org/10.55522/jmpas.V12I1.4583>.
- Dunlap, P. V. 2001. “Microbial Diversity.” In *Encyclopedia of Biodiversity*, S. A. Levin, ed., pp. 280–291. Waltham, MA: Academic Press. <https://www.sciencedirect.com/topics/biochemistry-genetics-and-molecular-biology/microbial-diversity>
- Duque-Valencia, J., N. Sarute, X. A. Olarte-Castillo, and J. Ruiz-Saenz. 2019. “Evolution and Interspecies Transmission of Canine Distemper Virus: An Outlook of the Diverse Evolutionary Landscapes of a Multi-Host Virus.” *Viruses* 11(7): 1–23. <https://doi.org/10.3390/v11070582>.
- Eaton, B. T., C. C. Broder, D. Middleton, and L. F. Wang. 2006. “Hendra and Nipah Viruses: Different and Dangerous.” *Nature Reviews Microbiology* 4(1): 23–35. <https://www.nature.com/articles/nrmicro1323>.
- Eby, P., A. J. Peel, A. Hoegh, W. Madden, J. R. Giles, P. J. Hudson et al. 2023. “Pathogen Spillover Driven by Rapid Changes in Bat Ecology.” *Nature* 613(7943): 340–344. <https://doi.org/10.1038/s41586-022-05506-2>.
- ECDC (European Centre for Disease Prevention and Control). n.d. Facts about Hantavirus. <https://www.ecdc.europa.eu/en/hantavirus-infection/facts#:~:text=Transmission%20mode,is%20known%20for%20European%20hantaviruses> (accessed March 18, 2024).
- Edwards, C. E., B. L. Yount, R. L. Graham, S. R. Leist, Y. J. Hou, K. H. Dinno III, et al. 2020. “Swine Acute Diarrhea Syndrome Coronavirus Replication in Primary Human Cells Reveals Potential Susceptibility to Infection.” *Proceedings of the National Academy of Sciences of the United States of America* 117(43): 26915–26925. <https://www.pnas.org/doi/full/10.1073/pnas.2001046117>.
- EFSA (European Food Safety Authority, ECDC (European Centre for Disease Prevention and Control), EURL (European Union Reference Laboratory for Avian Influenza), C. Adlhoch, A. Fusaro, J. L. Gonzales, et al. “Avian Influenza Overview June–September 2023.” *EFSA Journal* 21(10): e08328. <https://doi.org/10.2903/j.efsa.2023.8328>.
- Egawa, K., M. Shimojima, S. Taniguchi, N. Nagata, H. Tani, T. Yoshikawa, et al. 2017. “Virulence, Pathology, and Pathogenesis of *Pteropine orthoreovirus* (PRV) in BALB/c Mice: Development of an Animal Infection Model for PRV. *PLOS Neglected Tropical Diseases* 11(12): 1–20. <https://doi.org/10.1371/journal.pntd.0006076>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Eggers, B., and R. Mackenzie. 2000. "The Cartagena Protocol on Biosafety." *Journal of International Economic Law* 3(3): 525–543. <https://academic.oup.com/jiel/article-abstract/3/3/525/829419?redirectedFrom=fulltext>.
- Elliot, A. J., S. E. Harcourt, H. E. Hughes, P. Loveridge, R. A. Morbey, S. Smith, et al. 2020. "The COVID-19 Pandemic: A New Challenge for Syndromic Surveillance." *Epidemiology & Infection* 148: e122. <https://doi.org/10.1017/S0950268820001314>.
- Ellwanger, J. H., and J. A. B. Chies. 2021. "Zoonotic Spillover: Understanding Basic Aspects for Better Prevention." *Genetics and Molecular Biology* 44(1 Suppl. 1): 1–18. <https://doi.org/10.1590/1678-4685-GMB-2020-0355>.
- El-Zoghby, E. F., M. M. Aly, S. A. Nasef, M. K. Hassan, A. S. Arafa, A. A. Selim, et al. 2013. "Surveillance on a/H5n1 Virus in Domestic Poultry and Wild Birds in Egypt." *Virology Journal* 10(1): 203. <https://doi.org/10.1186/1743-422X-10-203>.
- EMPHNET (Eastern Mediterranean Public Health Network). 2023. *Policy Brief: Sustaining Meaningful Multisectoral Collaboration for One Health: Conditions for Success*. Amman, Jordan: EMPHNET. <https://emphnet.net/media/i5ellifb/one-health-policy-brief-webinar-32.pdf>.
- Engel, K., and S. Ziegler. 2020. *Pandora's Box: A Report on the Human Zoonotic Disease Risk in Southeast Asia with a Focus on Wildlife Markets*. Berlin: WWF Deutschland. <https://www.wwf.de/fileadmin/fm-wwf/Publikationen-PDF/WWF-Report-Human-Zoonotic-Disease-Risk-in-Southeast-Asia-with-a-Focus-on-Wildlife-Markets.pdf>.
- Epstein, J. H., and H. E. Field. 2015. "Anthropogenic Epidemics: The Ecology of Bat-Borne Viruses and Our Role in Their Emergence." In *Bats and Viruses: A New Frontier of Emerging Infectious Diseases*, L.-F. Wang and C. Cowled, eds., pp. 249–279. <https://doi.org/10.1002/9781118818824.ch10>.
- Espinosa, R., D. Tago, and N. Treich. 2020. "Infectious Diseases and Meat Production." *Environmental and Resource Economics* 76(4): 1019–1044. <https://doi.org/10.1007/s10640-020-00484-3>.
- Esposito, M. M., S. Turku, L. Lehrfield, and A. Shoman. 2023. "The Impact of Human Activities on Zoonotic Infection Transmissions." *Animals (Basel)* 13(10): 1646. <https://doi.org/10.3390/ani13101646>.
- EuroMeatNews*. 2024. "Bird Flu in Vietnam, Cambodia Bans Poultry Imports." February 20, 2024. <https://euromeatnews.com/Article-Bird-flu-in-Vietnam%2C-Cambodia-bans-poultry-imports/3624>.
- Ezanno, P., S. Picault, G. Beaunee, X. Bailly, F. Munoz, R. Duboz, et al. 2021. "Research Perspectives on Animal Health in the Era of Artificial Intelligence." *Veterinary Research* 52(1): 40. <https://doi.org/10.1186/s13567-021-00902-4>.
- Fadel, L., and N. Aizenman. 2023. "WHO Says COVID-19 Is No Longer a Global Health Emergency." *NPR Morning Edition*, May 5, 2023, 2:53. <https://www.npr.org/2023/05/05/1174275727/who-says-covid-19-is-no-longer-a-global-health-emergency> (accessed March 18, 2024).
- Fallin, D. 2021. "Time to Confront Southeast Asia's Online Wildlife Trafficking." Center for Strategic and International Studies, December 7, 2021. <https://www.csis.org/blogs/new-perspectives-asia/time-confront-southeast-asias-online-wildlife-trafficking> (accessed March 24, 2024).
- Fan, S., and C. Rue. 2020. "The Role of Smallholder Farms in a Changing World." In *The Role of Smallholder Farms in Food and Nutrition Security*, S. Gomez y Paloma, L. Riesgo, K. Louhichi, eds., pp. 13–28. Spain: Springer, Cham. https://doi.org/10.1007/978-3-030-42148-9_2.
- FAO (Food and Agriculture Organization of the United Nations). n.d.-a. Partnering and Investing in One Health. <https://www.fao.org/one-health/partners/en> (accessed March 30, 2024).
- FAO. n.d.-b. What Is One Health? <https://www.fao.org/one-health/overview/one-health-overview/en> (accessed April 10, 2024).
- FAO. n.d.-c. FAO's Role in One Health. <https://www.fao.org/one-health/background/fao's-role/en> (accessed March 5, 2024).
- FAO. n.d.-d. Early Warning and Disease Intelligence. [https://www.fao.org/animal-health/areas-of-work/early-warning-and-disease-intelligence/en#:~:text=FAO%20has%20a%20long%2Dstanding,\(with%20WOAH%20and%20WHO\)](https://www.fao.org/animal-health/areas-of-work/early-warning-and-disease-intelligence/en#:~:text=FAO%20has%20a%20long%2Dstanding,(with%20WOAH%20and%20WHO)) (accessed March 15, 2024).
- FAO. n.d.-e. Emergency Centre for Transboundary Animal Diseases (ECTAD). Asia and the Pacific Region. Bangkok, Thailand. <https://openknowledge.fao.org/items/dbe9f9a4-f3dd-41c2-9cdd-3dac62a70fd8> (accessed March 12, 2024).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- FAO. 2011. “A Value Chain Approach to Animal Diseases Risk Management – Technical Foundations and Practical Framework Forfield Application.” *Animal Production and Health Guidelines. No. 4*. Rome, Italy. <https://openknowledge.fao.org/server/api/core/bitstreams/85e3fa96-e1dd-48cc-b86c-a02b384d4bfb/content> (accessed March 11, 2024).
- FAO. 2019. “Taking a Multisectoral One Health Approach: A Tripartite Guide to Addressing Zoonotic Diseases in Countries.” <https://www.fao.org/one-health/resources/publications/guide-to-addressing-zoonotic-diseases-in-countries/en/> (accessed April 1, 2024).
- FAO. 2022. “One Health Event Highlights Scientific and Technical Innovations and FAO’s Key Role in Their Practical Application for More Resilient Agrifood Systems.” February 11, 2022. <https://www.fao.org/antimicrobial-resistance/news-and-events/news/news-details/en/c/1613510/> (accessed April 3, 2024).
- FAO. 2023. “Protecting Eastern Indonesia from new disease outbreaks.” July 26, 2023. <https://www.fao.org/indonesia/news/detail-events/en/c/1646251/> (accessed January 13, 2024).
- FAO China. 2017. “CFETPV and CFETP Planned for Future Joint Collaborations to Promote One Health Application.” FAO in China, May 1, 2017. <https://www.fao.org/china/news/detail-events/fr/c/462521/> (accessed April 9, 2024).
- FAO Indonesia. 2017. “Legal Instruments Needed to Strengthen PELVI Implementation.” FAO in Indonesia, December 13, 2017. <https://www.fao.org/indonesia/news/detail-events/zh/c/1072646/> (accessed April 14, 2024).
- FAO, IUCN, and OIE (International Union for Conservation of Nature, World Organisation for Animal Health). 2021. “Joint Statement on the Conservation Impacts of African Swine Fever in the Asia-Pacific Region.” Bangkok, Thailand. <https://www.fao.org/documents/card/en/c/cb5805en>.
- FAO, OIE, and WHO (World Health Organization). 2022. Strengthening Laboratory Capacity in Response to Emerging Pandemic Threats: FAO, OIE, and WHO Working Together. Washington, DC: USAID https://www.usaid.gov/sites/default/files/2022-05/identify_leaflet.pdf.
- FAO, OIE, and WHO. 2008. *Contributing to One World, One Health: A Strategic Framework for Reducing Risks of Infectious Diseases at the Animal–Human–Ecosystems Interface*. <https://openknowledge.fao.org/items/79747e58-fb0e-4c38-86fa-9c28613f750f>
- FAO, UNEP, WHO, and WOA (World Organisation for Animal Health). 2022. *One Health Joint Plan of Action (2022–2026). Working Together for the Health of Humans, Animals, Plants and the Environment*. Rome: World Health Organization. <https://www.fao.org/documents/card/en/c/cc2289en>.
- FAO, WOA, and WHO. 2019. *Taking a Multisectoral, One Health Approach: A Tripartite Guide to Addressing Zoonotic Diseases in Countries*. Geneva: Food and Agriculture Organization of the United Nations, World Organization for Animal Health, and World Health Organization. <https://www.who.int/initiatives/tripartite-zoonosis-guide>.
- Farmer, P. 1996. “Social Inequalities and Emerging Infectious Diseases.” *Emerging Infectious Diseases* 2(4 Oct.–Dec.): 259–269. <https://doi.org/10.3201/eid0204.960402>.
- Felbab-Brown, V. 2011. “The Disappearing Act: The Illicit Trade in Wildlife in Asia.” Brookings, June 28, 2011. <https://www.brookings.edu/articles/the-disappearing-act-the-illicit-trade-in-wildlife-in-asia/#:~:text=In%20Southeast%20Asia%20alone%2C%20where,and%20driving%20species%20to%20extinction.>
- Ferasin, L., M. Fritz, H. Ferasin, P. Becquart, S. Corbet, M. Ar Gouilh et al. 2021. “Infection with SARS-CoV-2 Variant B.1.1.7 Detected in a Group of Dogs and Cats with Suspected Myocarditis.” *Vet Record* 189(9): 1–9. <https://doi.org/10.1002/vetr.944>.
- Field, H., G. Crameri, N. Y. Kung, and L. F. Wang. 2012. “Ecological Aspects of Hendra Virus.” *Current Topics in Microbiology and Immunology* 359: 11–23. https://doi.org/10.1007/82_2012_214.
- Fischer, C. P., and L. M. Romero. 2019. “Chronic Captivity Stress in Wild Animals Is Highly Species-Specific.” *Conservation Physiology* 7(1): coz093. <https://doi.org/10.1093/conphys/coz093>.
- Fischhoff, I. R., A. A. Castellanos, J. P. G. L. Rodrigues, A. Varsani, and B. A. Han. 2021. “Predicting the Zoonotic Capacity of Mammals to Transmit SARS-CoV-2.” *Proceedings of the Royal Society B: Biological Sciences* 288: 1–11. <https://royalsocietypublishing.org/doi/10.1098/rspb.2021.1651>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Foley, J. E., P. Foley, and N. C. Pedersen. 1999. "The Persistence of a SIS Disease in a Metapopulation." *Journal of Applied Ecology* 36(4): 555–563.
- Fornace, K. M., H. M. Topazian, I. Routledge, S. Asyraf, J. Jelip, K. A. Lindblade et al. 2023. "No Evidence of Sustained Nonzoonotic *Plasmodium knowlesi* Transmission in Malaysia from Modelling Malaria Case Data." *Nature Communications* 14(1): 1–9. <https://doi.org/10.1038/s41467-023-38476-8>.
- FOUR PAWS. 2020. *The Dog and Cat Meat Trade in Southeast Asia: A Threat to Animals and People*. Vienna, Austria: FOUR PAWS International. https://media.4paws.org/8/0/0/3/80039a8956751c7b9bf934c35993858592182db3/FOURPAWS_Big_DCMT_Report_GB.pdf (accessed January 24, 2024).
- FOUR PAWS. 2021. "FOUR PAWS Southeast Asia Partnership Program." December 16, 2021. <https://www.fourpawsusa.org/campaigns-topics/topics/help-for-strays/four-paws-southeast-asia-partnership-programs> (accessed April 6, 2024).
- FOUR PAWS. 2022. "Rescue of Stray Animals in Southeast Asia." August 4, 2022. <https://www.fourpawsusa.org/our-stories/rescues/rescue-of-stray-animals-in-southeast-asia> (accessed April 6, 2024).
- Franklinos, L. H. V., K. E. Jones, D. W. Redding, and I. Abubakar. 2019. "The Effect of Global Change on Mosquito-Borne Disease." *Lancet Infectious Diseases* 19(9): e302–e312. [https://doi.org/10.1016/S1473-3099\(19\)30161-6](https://doi.org/10.1016/S1473-3099(19)30161-6).
- Freuling, C. M., A. Breithaupt, T. Muller, J. Sehl, A. Balkema-Buschmann, M. Rissmann et al. 2020. "Susceptibility of Raccoon Dogs for Experimental SARS-CoV-2 Infection." *Emerging Infectious Diseases* 26(12): 2982–2985. <https://doi.org/10.3201/eid2612.203733>.
- Fritz, M. and H. Fromell. 2022. "How to Dampen the Surge of Non-Communicable Diseases in Southeast Asia: Insights from a Systematic Review and Meta-Analysis." *Health Policy and Planning* 37(1): 152–167. <https://doi.org/10.1093/heapol/czab138>.
- Gaiser, T. 2024. "Café Exotique." February 28, 2024. <https://timgaiser.com/blog/kopi-luwak/#:~:text=The%20coffee%20in%20question%20is,through%20the%20cat's%20digestive%20tract> (accessed March 2, 2024).
- Galang, E. I. N., and B. Calub. 2020a. "Social-Ecological Transitions in a Cattle-Based Silvopastoral System in Southern Luzon, Philippines." *Journal of Environmental Science and Management* S1–2: 1–13. https://doi.org/10.47125/jesam/2020_sp2/01.
- Galang, E. I. N., and P. Vaughter. 2020b. "Generational Local Ecological Knowledge on the Benefits of an Agroforestry Landscape in Mindanao, Philippines." *Asian Journal of Agriculture and Development* 17(1): 90–108. <http://dx.doi.org/10.22004/ag.econ.303786>
- Galay, R. L., M. R. Talactac, B. V. Ambita-Salem, D. M. M. Chu, L. M. O. D. Costa, C. M. A. Salangsang, et al. 2020. "Molecular Detection of *Rickettsia* spp. and *Coxiella burnetii* in Cattle, Water Buffalo, and *Rhipicephalus microplus* Ticks in Luzon Island of the Philippines." *Tropical Medicine and Infectious Disease* 5(2): 1–11. <https://doi.org/10.3390/tropicalmed5020054>.
- Galindo-González, J. 2022. "Live Animal Markets: Identifying the Origins of Emerging Infectious Diseases." *Current Opinion in Environmental Science and Health* 25: 100310. <https://doi.org/10.1016/j.coesh.2021.100310>.
- Gallardo, M. C., A. T. Reoyo, J. Fernandez-Pinero, I. Iglesias, M. J. Munoz, and M. L. Arias. 2015. "African Swine Fever: A Global View of the Current Challenge." *Porcine Health Management* 1: 1–14. <https://doi.org/10.1186/s40813-015-0013-y>.
- Gallegos, D., S. Booth, C. M. Pollard, M. Chilton, and S. Kleve. 2023. "Food Security Definition, Measures and Advocacy Priorities in High-Income Countries: A Delphi Consensus Study." *Public Health Nutrition* 26(10): 1986–1996. <https://doi.org/10.1017/S1368980023000915>.
- Gambetta, D., and D. Morisi. 2022. "COVID-19 Infection Induces Higher Trust in Strangers." *Proceedings of the National Academy of Sciences of the United States of America* 119(32): e2116818119. <https://doi.org/10.1073/pnas.2116818119>.
- Gautret, P., K. Harvey, P. Pandey, P. L. Lim, K. Leder, W. Piyaphanee et al. 2015. "Animal-Associated Exposure to Rabies Virus among Travelers, 1997–2012." *Emerging Infectious Diseases* 21(4): 569–577. <https://doi.org/10.3201%2Feid2104.141479>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Ge, X. Y., J. L. Li, X. L. Yang, A. A. Chmura, G. Zhu, J. H. Epstein et al. 2013. “Isolation and Characterization of a Bat SARS-Like Coronavirus That Uses the ACE2 Receptor.” *Nature* 503(7477): 535–538. <https://www.nature.com/articles/nature12711>.
- Ghai, R. R., R. M. Wallace, J. C. Kile, T. R. Shoemaker, A. R. Vieira, M. E. Negron et al. 2022. “A Generalizable One Health Framework for the Control of Zoonotic Diseases.” *Scientific Reports* 12(1): 8588. <https://doi.org/10.1038/s41598-022-12619-1>.
- Gibb, R., L. H. V. Franklins, D. W. Redding, and K. E. Jones. 2020. “Ecosystem Perspectives Are Needed to Manage Zoonotic Risks in a Changing Climate.” *BMJ* 371: m3389. <https://doi.org/10.1136/bmj.m3389>.
- Gibbons, S. M., and J. A. Gilbert. 2015. “Microbial Diversity – Exploration of Natural Ecosystems and Microbiomes.” *Current Opinion in Genetics and Development* 35: 66–72. <https://doi.org/10.1016/j.gde.2015.10.003>.
- Gilbert, J., D. Grace, F. Unger, M. L. Lapar, R. Assé, K. Tohtubtiang, et al. 2014. *Engaging Stakeholders to Manage Emerging Zoonotic Diseases in Southeast Asia*. ILRI Research Brief 14. Nairobi: International Livestock Research Institute. <https://cgspace.cgiar.org/items/705617bb-ff02-4106-92b4-7cae08912f05>.
- Ginige, K., D. Amaratunga, and R. Haigh. 2018. “Mapping Stakeholders Associated with Societal Challenges: A Methodological Framework.” *Procedia Engineering* 212: 1195–1202. <https://doi.org/10.1016/j.proeng.2018.01.154>.
- Giraldo-Ramirez, S., S. Rendon-Marin, J. A. Jaimes, M. Martinez-Gutierrez, and J. Ruiz-Saenz. 2021. “SARS-CoV-2 Clinical Outcome in Domestic and Wild Cats: A Systematic Review.” *Animals (Basel)* 11(7): 1–16. <https://doi.org/10.3390/ani11072056>.
- Gong, L., J. Li, Q. Zhou, Z. Xu, L. Chen, Y. Zhang, et al. 2017. “A New Bat-HKU2-like Coronavirus in Swine, China, 2017.” *Emerging Infectious Diseases* 23(9): 1607–1609. https://wwwnc.cdc.gov/eid/article/23/9/17-0915_article.
- Gongal, G. 2013. “One Health Approach in the South East Asia Region: Opportunities and Challenges.” In *One Health: The Human-Animal-Environment Interfaces in Emerging Infectious Diseases: Food Safety and Security, and International and National Plans for Implementation of One Health Activities*, J. S. Mackenzie, M. Jeggo, P. Daszak, and J. A. Richt, eds., pp. 113–122. Current Topics in Microbiology and Immunology book series, vol. 366. Berlin, Germany: Springer. <https://link.springer.com/book/10.1007/978-3-642-35846-3>.
- Gongal, G., H. Rahman, K. C. Thakuri, and K. Vijayalakshmy. 2022. “An Overview of Transboundary Animal Diseases of Viral Origin in South Asia: What Needs to Be Done?” *Veterinary Sciences* 9(11). <https://doi.org/10.3390/vetsci9110586>.
- Gordon, C. A., J. Kurscheid, G. M. Williams, A. C. A. Clements, Y. Li, X. N. Zhou, et al. 2019. “Asian Schistosomiasis: Current Status and Prospects for Control Leading to Elimination.” *Tropical Medicine and Infectious Disease* 4(1): 1–29. <https://doi.org/10.3390/tropicalmed4010040>.
- Gortázar, C., P. Barroso, R. Nova, and G. Cáceres. 2022. “The Role of Wildlife in the Epidemiology and Control of Foot-and-Mouth-Disease and Similar Transboundary (FAST) Animal Diseases: A Review.” *Transboundary and Emerging Diseases* 69(5): 2462–2473. <https://doi.org/10.1111/tbed.14235>.
- Grace, D. 2014. “The Business Case for One Health: Proceedings.” *Onderstepoort Journal of Veterinary Research* 81(2): 1–6. DOI: [10.4102/ojvr.v81i2.725](https://doi.org/10.4102/ojvr.v81i2.725).
- Grasselli, G., A. Pesenti, and M. Cecconi. 2020. “Critical Care Utilization for the COVID-19 Outbreak in Lombardy, Italy: Early Experience and Forecast During an Emergency Response.” *JAMA* 323(16): 1545–1546. <https://doi.org/10.1001/jama.2020.4031>.
- Gray, G. C., E. R. Robie, C. J. Studstill, and C. L. Nunn. 2021. “Mitigating Future Respiratory Virus Pandemics: New Threats and Approaches to Consider.” *Viruses* 13(4): 1–20. <https://doi.org/10.3390/v13040637>.
- Greator, Z. F., S. H. Olson, S. Singhalath, S. Silthammavong, K. Khamvavong, A. E. Fine, et al. 2016. “Wildlife Trade and Human Health in Lao Pdr: An Assessment of the Zoonotic Disease Risk in Markets.” *PLOS ONE* 11(3): e0150666. <https://doi.org/10.1371/journal.pone.0150666>.
- Grein, G. n.d. “The Fight to Stop Pangolin Extinction: The Coalition to End Wildlife Trafficking Online Is Looking out for This Elusive Mammal.” World Wildlife Fund, February 2020. [https://www.worldwildlife.org/stories/the-fight-to-stop-pangolin-extinction#:~:text=More%20than%201%20million%20pangolins,et.al%20\(2020\)](https://www.worldwildlife.org/stories/the-fight-to-stop-pangolin-extinction#:~:text=More%20than%201%20million%20pangolins,et.al%20(2020).).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Grimm, D. 2022. “Indictment of Monkey Importers Could Disrupt U.S. Drug and Vaccine Research.” *Science Insider* 378(6623). <https://www.science.org/content/article/indictment-monkey-importers-could-disrupt-u-s-drug-and-vaccine-research>.
- Gronvall, G. K., S. B. Rao, S. Van Meter, A. Borden, and T. Inglesby. 2023. “Proposal for a National Diagnostics Action Plan for the United States.” *Health Policy Open* 5: 1–7. <https://doi.org/10.1016/j.hpopen.2023.100099>.
- Groseclose, S. L., and D. L. Buckneridge. 2017. “Public Health Surveillance Systems: Recent Advances in Their Use and Evaluation.” *Annual Review of Public Health* 38: 57–79. <https://doi.org/10.1146/annurev-publhealth-031816-044348>.
- Gupta, N., and V. K. Verma. 2019. “Next-Generation Sequencing and Its Application: Empowering in Public Health Beyond Reality.” In *Microbial Technology for the Welfare of Society, Microorganisms for Sustainability*, vol. 17, P. Arora, ed., pp. 313–341. https://doi.org/10.1007/978-981-13-8844-6_15.
- Gupta, S. K., R. Minocha, P. J. Thapa, M. Srivastava, and T. Dandekar. 2022. “Role of the Pangolin in Origin of SARS-CoV-2: An Evolutionary Perspective.” *International Journal of Molecular Sciences* 23(16): 9115. <https://doi.org/10.3390/ijms23169115>.
- Guth, S., N. Mollentze, K. Renault, D. G. Streicker, E. Visher, M. Boots, et al. 2022. “Bats Host the Most Virulent-but Not the Most Dangerous-Zoonotic Viruses.” *Proceedings of the National Academy of Sciences of the United States of America* 119(14): e2113628119. <https://doi.org/10.1073/pnas.2113628119>.
- Gutiérrez, R. A., M. J. Naughtin, S. V. Horm, S. San, and P. Buchy. 2009. “A(H5N1) Virus Evolution in South East Asia.” *Viruses* 1(3): 335–361. <https://doi.org/10.3390/v1030335>.
- Hale, V. L., P. M. Dennis, D. S. McBride, J. M. Nolting, C. Madden, D. Huey, et al. 2022. “SARS-CoV-2 Infection in Free-Ranging White-Tailed Deer.” *Nature* 602(7897): 481–486. <https://www.nature.com/articles/s41586-021-04353-x>.
- Hall, D. C., and Q. B. Le. 2015. “Monitoring and Evaluation of One Health Projects; Lessons from Southeast Asia.” *Procedia – Social and Behavioral Sciences* 186: 681–683. <https://doi.org/10.1016/j.sbspro.2015.04.070>.
- Hall, J. 2019. “Traditional Chinese Medicine and Wildlife.” *National Geographic*, February 27, 2019. <https://www.nationalgeographic.com/animals/article/traditional-chinese-medicine#:~:text=Sun%20bears%20and%20Asiatic%20black,liver%20conditions%20and%20other%20ailments>.
- Hamdan, N. E., Y. L. Ng, W. B. Lee, C. S. Tan, F. A. Khan, and Y. L. Chong. 2017. “Rodent Species Distribution and Hantavirus Seroprevalence in Residential and Forested areas of Sarawak, Malaysia.” *Tropical Life Sciences Research* 28(1): 151–159. <https://doi.org/10.21315/tlsr2017.28.1.11>.
- Hanlon, C. A., and S. A. Nadin-Davis. 2013. “Laboratory Diagnosis of Rabies.” In *Rabies*, 3rd ed., A. C. Jackson, ed., pp. 409–459. Cambridge, MA: Academic Press. <https://doi.org/10.1016/B978-0-12-396547-9.00011-0>.
- Hansen, M. F., M. Gill, E. F. Briefer, D. R. K. Nielsen, and V. Nijman. 2022. “Monetary Value of Live Trade in a Commonly Traded Primate, the Long-Tailed Macaque, Based on Global Trade Statistics.” *Frontiers in Conservation Science* 3. <https://www.frontiersin.org/articles/10.3389/fcosc.2022.839131>.
- Harrison, J. D., A. D. Auerbach, W. Anderson, M. Fagan, M. Carnie, C. Hanson, et al. 2019. “Patient Stakeholder Engagement in Research: A Narrative Review to Describe Foundational Principles and Best Practice Activities.” *Health Expectations* 22(3): 307–316. <https://doi.org/10.1111/hex.12873>.
- Hassan, L. 2014. “Emerging Zoonoses in Domesticated Livestock of Southeast Asia.” In *Encyclopedia of Agriculture and Food Systems*, N. K. Van Alfen, ed., pp. 68–81. Academic Press. DOI: [10.1016/B978-0-444-52512-3.00216-3](https://doi.org/10.1016/B978-0-444-52512-3.00216-3).
- Hatab, A. A., M. Rigo, E. Cavinato, A. Lindemer, and C. J. Lagerkvist. 2019. “Urban Sprawl, Food Security and Agricultural Systems in Developing Countries: A Systematic Review of the Literature.” *Cities* 94: 129–142. <https://doi.org/10.1016/j.cities.2019.06.001>.
- Haxton, E., A. Lindberg, K. Troell, and K. J. Redican. 2015. “One Health Education Meets Science.” *Infection Ecology & Epidemiology* 5(1): 30264. <https://doi.org/10.3402/iee.v5.30264>.
- Hayami, Y. 2001. “Ecology, History, and Development: A Perspective from Rural Southeast Asia.” *World Bank Research Observer* 16(2): 169–198. <https://doi.org/10.1093/wbro/16.2.169>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Hedman, C., R. Bolea, B. Marín, F. Cobrière, H. Filali, F. Vazquez, et al. 2016. “Transmission of Sheep-Bovine Spongiform Encephalopathy to Pigs.” *Veterinary Research* 47: 1–15. <https://doi.org/10.1186/s13567-015-0295-8>.
- Heidt, B., W. F. Siqueira, K. Eersels, H. Diliën, B. van Grinsven, R. T. Fujiwara, et al. 2020. “Point of Care Diagnostics in Resource-Limited Settings: A Review of the Present and Future of PoC in Its Most Needed Environment.” *Biosensors-Basel* 10(10): 133. <https://doi.org/10.3390/bios10100133>.
- Hemida, M. G., R. Perera, D. K. W. Chu, A. A. Alnaeem, and M. Peiris. 2019. “Evidence of Equine Influenza a (H3N8) Activity in Horses from Eastern and Central Saudi Arabia: 2013–2015.” *Equine Veterinary Journal* 51(2): 218–221. <https://doi.org/10.1111/evj.13001>.
- Henning, K. J. 2004. “Overview of Syndromic Surveillance. What Is Syndromic Surveillance.” *Morbidity and Mortality Weekly Report* 53(Suppl.): 5–11. U.S. Centers for Disease Control and Prevention. <https://www.cdc.gov/mmwr/preview/mmwrhtml/su5301a3.htm>. (accessed February 16, 2024).
- HHS (U.S. Department of Health and Human Services). 2021. *Confronting Health Misinformation: The U.S. Surgeon General’s Advisory on Building a Healthy Information Environment*. Washington, D.C: U.S. Public Health Service. <https://www.hhs.gov/sites/default/files/surgeon-general-misinformation-advisory.pdf>.
- Hidano, A., G. Enticott, R. M. Christley, and M. C. Gates. 2018. “Modeling Dynamic Human Behavioral Changes in Animal Disease Models: Challenges and Opportunities for Addressing Bias.” *Frontiers in Veterinary Science* 5: 137. <https://doi.org/10.3389/fvets.2018.00137>.
- Hilderink, M. H., and I. I. de Winter de. 2021. “No Need to Beat around the Bushmeat – The Role of Wildlife Trade and Conservation Initiatives in the Emergence of Zoonotic Diseases.” *Heliyon* 7(7): e07692. <https://doi.org/10.1016/j.heliyon.2021.e07692>.
- Hilliard, J. 2011. “Monkey B Virus.” In *Human Herpesviruses: Biology, Therapy, and Immunoprophylaxis*, A. Arvin, G. Campadelli-Fiume, E. Mocarski, et al., eds, ch. 57. Cambridge: Cambridge University Press. https://europepmc.org/article/NBK/nbk47426#_NBK47426_dtls__.
- Hing, S., K. L. Jones, C. Rafferty, R. C. A. Thompson, E. J. Narayan, and S. S. Godfrey. 2017. “Wildlife in the Line of Fire: Evaluating the Stress Physiology of a Critically Endangered Australian Marsupial after Bushfire.” *Australian Journal of Zoology* 64(6): 385–389. <https://researchdirect.westernsydney.edu.au/islandora/object/uws:44530>.
- Hinjoy, S., V. Hantrakun, S. Kongyu, J. Kaewrakmuk, T. Wangrangsimakul, S. Jitsuronk, et al. 2018. “Meliodosis in Thailand: Present and Future.” *Tropical Medicine and Infectious Disease* 3(2): 1–16. <https://doi.org/10.3390/tropicalmed3020038>.
- Hiscott, J., M. Alexandridi, M. Muscolini, E. Tassone, E. Palermo, M. Soultsioti, et al. 2020. “The Global Impact of the Coronavirus Pandemic.” *Cytokine & Growth Factor Reviews* 53: 1–9. <https://doi.org/10.1016/j.cytogfr.2020.05.010>.
- Ho, C. W. L. 2022. “Operationalizing ‘One Health’ as ‘One Digital Health’ through a Global Framework That Emphasizes Fair and Equitable Sharing of Benefits from the Use of Artificial Intelligence and Related Digital Technologies.” *Frontiers in Public Health* 10: 768977. <https://doi.org/10.3389/fpubh.2022.768977>.
- Hochberg, N. S., and N. Bhadelia. 2015. “Infections Associated with Exotic Cuisine: The Dangers of Delicacies.” *Microbiology Spectrum* 3(5). <https://doi.org/10.1128/microbiolspec.IOL5-0010-2015>.
- Hoff, R., A. L. Quake, Z. Reed, R. Rao, Y. L. Kong, S. S. Lee, et al. 2011. “Regional Emerging Diseases Intervention (REDI) Centre.” *BMC Proceedings* 5(Suppl. 1): P111. London: BioMed Central. <https://doi.org/10.1186/1753-6561-5-S1-P111>.
- Horwood, P. F., S. V. Horm, S. Yann, S. Tok, M. Chan, A. Suttie, et al. 2023. “Aerosol Exposure of Live Bird Market Workers to Viable Influenza A/H5N1 and A/H9N2 Viruses, Cambodia.” *Zoonoses and Public Health* 70(2): 171–175. <https://doi.org/10.1111/zph.13009>.
- Huang, X. Y., Q. Chen, M. X. Sun, H. Y. Zhou, Q. Ye, W. Chen, et al. 2023. “A Pangolin-Origin SARS-CoV-2-Related Coronavirus: Infectivity, Pathogenicity, and Cross-Protection by Preexisting Immunity.” *Cell Discovery* 9(1): 1–13. <https://www.nature.com/articles/s41421-023-00557-9>.
- Huang, Y. 2004. “The SARS Epidemic and its Aftermath in China: A political perspective.” In *Learning from SARS: Preparing for the Next Disease Outbreak*, S. Knobler, A. Mahmoud, S. Lemon, A. Mack, L. Sivitz, and K. Oberholtzer, eds., pp. 116–136. Washington, DC: The National Academies Press. <https://www.ncbi.nlm.nih.gov/books/NBK92479/>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Hueston, W., J. Appert, T. Denny, L. King, J. Ueber, and L. Valeri. 2013. "Assessing Global Adoption of One Health Approaches." *Ecohealth* 10(3): 228–233. <https://link.springer.com/article/10.1007/s10393-013-0851-5>.
- Hughes, A. C. 2017. "Even as More New Species Are Found, Southeast Asia Is in the Grip of a Biodiversity Crisis." *The Conversation*, January 5, 2017. <https://theconversation.com/even-as-more-new-species-are-found-southeast-asia-is-in-the-grip-of-a-biodiversity-crisis-67700#:~:text=Southeast%20Asia's%20biodiversity%20is%20under,forgotten%20by%20the%20global%20media>.
- Hulse-Post, D. J., K. M. Sturm-Ramirez, J. Humberd, P. Seiler, E. A. Govorkova, S. Krauss, et al. 2005. "Role of Domestic Ducks in the Propagation and Biological Evolution of Highly Pathogenic H5N1 Influenza Viruses in Asia." *Proceedings of the National Academy of Sciences of the United States of America* 102(30): 10682–10687. <https://doi.org/10.1073/pnas.0504662102>.
- Huong, N. Q., N. T. T. Nga, N. V. Long, B. D. Luu, A. Latinne, M. Pruvot, et al. 2020. "Coronavirus Testing Indicates Transmission Risk Increases Along Wildlife Supply Chains for Human Consumption in Viet Nam, 2013–2014." *PLOS ONE* 15(8): e0237129. <https://doi.org/10.1371/journal.pone.0237129>.
- Hurtubise, K., and R. Joslin. 2023. "Participant-Generated Timelines: A Participatory Tool to Explore Young People with Chronic Pain and Parents' Narratives of Their Healthcare Experiences." *Qualitative Health Research* 33(11): 931–944. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10494482/pdf/10.1177_10497323231189388.pdf.
- Iamsirithaworn, S., K. Chanachai, and D. Castellan. 2014. "Field Epidemiology and One Health: Thailand's Experience." *Confronting Emerging Zoonoses* July 19: 191–212. https://link.springer.com/chapter/10.1007/978-4-431-55120-1_9.
- ICCWC (International Consortium on Combating Wildlife Crime). 2022. *ICCWC Wildlife and Forest Crime Analytic Toolkit – Second Edition*. United Nations Office on Drugs and Crime (UNODC), Secretariat of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), the International Criminal Police Organization (INTERPOL), World Bank, and World Customs Organization (WCO). https://www.unodc.org/documents/Wildlife/Toolkit_e.pdf. (accessed March 16, 2024).
- ILRI (International Livestock Research Institute). n.d. Where We Work. East and Southeast Asia. <https://www.ilri.org/where-we-work/east-and-southeast-asia> (accessed March 20, 2024).
- INDOHUN (Indonesia One Health University Network). n.d. Less Me More We. <https://indohun.org>. (accessed March 10, 2024).
- Indrawan, D., A. Christy, and H. Hogeveen. 2021. "Improving Poultry Meat and Sales Channels to Address Food Safety Concerns: Consumers' Preferences on Poultry Meat Attributes." *British Food Journal* 123(13): 529–546. <https://doi.org/10.1108/Bfj-04-2021-0362>.
- Indrawan, D., K. M. Rich, P. van Horne, A. Daryanto, and H. Hogeveen. 2018. "Linking Supply Chain Governance and Biosecurity in the Context of Hpa1 Control in Western Java: A Value Chain Perspective." *Frontiers in Veterinary Science* 5: 94. <https://doi.org/10.3389/fvets.2018.00094>.
- Iowa State University College of Veterinary Medicine. n.d. Foot-and-Mouth Disease (FMD). <https://vetmed.iastate.edu/vdpam/FSVD/swine/index-diseases/foot-mouth-disease#:~:text=Infected%20swine%20are%20exceptional%20disseminators,amplifier%20hosts%E2%80%9D%20for%20FMD%20virus> (accessed April 12, 2024).
- IPBES (Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services). 2019. *Global Assessment Report on Biodiversity and Ecosystem Services of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services*, S. Díaz, J. Settele, E. S. Brondizio, and H. T. Ngo, eds. Bonn, Germany: IPBES Secretariat, . [https://www.ipbes.net/system/files/2021-06/2020%20IPBES%20GLOBAL%20REPORT\(FIRST%20PART\)_V3_SINGLE.pdf](https://www.ipbes.net/system/files/2021-06/2020%20IPBES%20GLOBAL%20REPORT(FIRST%20PART)_V3_SINGLE.pdf).
- Islam, A., D. L. Cannon, M. Z. Rahman, S. U. Khan, J. H. Epstein, P. Daszak, et al. 2023. "Nipah Virus Exposure in Domestic and Peridomestic Animals Living in Human Outbreak Sites, Bangladesh, 2013–2015." *Emerging Infectious Diseases* 29(2): 393–396. https://wwwnc.cdc.gov/eid/article/29/2/22-1379_article.
- Islam, M. S., H. M. S. Sazzad, S. M. Satter, S. Sultana, M. J. Hossain, M. Hasan, et al. 2016. "Nipah Virus Transmission from Bats to Humans Associated with Drinking Traditional Liquor Made from Date Palm Sap, Bangladesh, 2011–2014." *Emerging Infectious Diseases* 22(4): 664–670. <https://doi.org/10.3201/eid2204.151747>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- ITA (International Trade Administration). 2024. *Malaysia – Country Commercial Guide: Agricultural Sector Overview*. U.S. Department of Commerce. <https://www.trade.gov/country-commercial-guides/malaysia-agricultural-sector> (accessed April 3, 2024).
- IUCN (International Union for Conservation of Nature). 2024. “Panorama Launches Revamped Web Platform to Amplify Solutions for a Healthier Planet.” March 19, 2024. <https://www.iucn.org/news/202403/panorama-launches-revamped-web-platform-amplify-solutions-healthier-planet> (accessed March 19, 2024).
- Iwagami, M., M. Nakatsu, P. Khattignavong, P. Soundala, L. Lorphachan, S. Keomalaphet, et al. 2018. “First Case of Human Infection with *Plasmodium knowlesi* in Laos.” *PLOS Neglected Tropical Diseases* 12(3): e0006244. <https://doi.org/10.1371/journal.pntd.0006244>.
- Jaffee, S., P. Siegel, and C. Andrews. 2010. *Rapid Agricultural Supply Chain Risk Assessment: A Conceptual Framework*. Agriculture and Rural Development Discussion Paper, vol. 47. Washington DC: The World Bank. <https://www.marketlinks.org/sites/default/files/media/file/2020-10/Test.pdf>.
- Jahis, R., N. Shamsudin., R. A. A. Samad., S. A. Bugis., A. S. Abd Manaf., L. Hassan. 2021. *Module Simulation Exercise: For Management of Highly Pathogenic Avian Influenza*. Malaysia One Health University Network (MyOHUN). https://play.google.com/store/books/details/Dr_Rohani_binti_Jahis_Module_Simulation_Exercise?id=qn83EAAAQBAJ (accessed March 18, 2024).
- Jajosky, R. A., and S. L. Groseclose. 2004. “Evaluation of Reporting Timeliness of Public Health Surveillance Systems for Infectious Diseases.” *BMC Public Health* 4: 29. <https://doi.org/10.1186/1471-2458-4-29>.
- Jakobsen, J., and A. Hansen. 2020. “Geographies of Meatification: An Emerging Asian Meat Complex.” *Globalizations* 17(1): 93–109. <https://doi.org/10.1080/14747731.2019.1614723>.
- Jenkins, W. I. 1978. *Policy Analysis: A Political and Organisational Perspective*. London: M. Robertson. <https://cir.nii.ac.jp/crid/1130282271401411712>.
- Jeyaprakasam, N. K., J. W. K. Liew, V. L. Low, W. Y. Wan-Sulaiman, and I. Vythilingam. 2020. “*Plasmodium knowlesi* Infecting Humans in Southeast Asia: What’s Next?” *PLoS Neglected Tropical Diseases* 14(12): 1–16. <https://doi.org/10.1371/journal.pntd.0008900>.
- Ji, L., N. Wang, J. Ma, Y. Cheng, H. Wang, J. Sun, et al. 2020. “Porcine Deltacoronavirus Nucleocapsid Protein Species-Specifically Suppressed IRF7-Induced Type I Interferon Production Via Ubiquitin-Proteasomal Degradation Pathway.” *Veterinary Microbiology* 250: 1–13. <https://doi.org/10.1016/j.vetmic.2020.108853>.
- Jiang, X. W., and R. Q. Wang. 2022. “Wildlife Trade Is Likely the Source of SARS-CoV-2.” 2022. *Science* 377(6609): 925–926. <https://doi.org/10.1126/science.add8384>.
- Jiao, Y. B., P. Yeophantong, and T. M. Lee. 2021. “Strengthening International Legal Cooperation to Combat the Illegal Wildlife Trade between Southeast Asia and China.” *Frontiers in Ecology and Evolution* 9: 645427. <https://doi.org/10.3389/fevo.2021.645427>.
- Jin, J. H., J. J. Wang, Y. C. Ren, S. Liu, J. P. Li, G. Y. Hou, et al. “A Set of RT-PCR Assays for Detection of All Known Avian Paramyxoviruses and Application in Surveillance of Avian Paramyxoviruses in China.” *PeerJ* 9 (2021): e10748. <https://doi.org/10.7717/peerj.10748>.
- Jones, K. E., N. G. Patel, M. A. Levy, A. Storeygard, D. Balk, J. L. Gittleman, et al. 2008. “Global Trends in Emerging Infectious Diseases.” *Nature* 451(7181): 990–993. <https://doi.org/10.1038/nature06536>.
- Jones, R. M., S. C. Bleasdale, D. Maita, L. M. Brosseau, and C. D. C. Prevention Epicenters Program. 2020. “A Systematic Risk-Based Strategy to Select Personal Protective Equipment for Infectious Diseases.” *American Journal of Infection Control* 48(1): 46–51. <https://doi.org/10.1016/j.ajic.2019.06.023>.
- Jongwutiwes, S., C. Putaporntip, T. Iwasaki, T. Sata, and H. Kanbara. 2004. “Naturally Acquired *Plasmodium knowlesi* Malaria in Human, Thailand.” *Emerging Infectious Diseases* 10(12): 2211–2213. <https://doi.org/10.3201/eid1012.040293>.
- Jori, F., M. Hernandez-Jover, I. Magouras, S. Dürr, and V. J. Brookes. 2021. “Wildlife–Livestock Interactions in Animal Production Systems: What Are the Biosecurity and Health Implications?”. *Animal Frontiers* 11(5): 8–19. <https://doi.org/10.1093/af/vfab045>.
- Jung, K., Q. Wang, K. A. Scheuer, Z. Lu, Y. Zhang, and L. J. Saif. 2014. “Pathology of US Porcine Epidemic Diarrhea Virus Strain PC21A in Gnotobiotic Pigs.” *Emerging Infectious Diseases* 20(4): 662–665. https://wwwnc.cdc.gov/eid/article/20/4/13-1685_article.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Kaczensky, P. 2023. *Status and Conservation of the Asiatic Wild Ass across Its Range*. Report presented at the Technical Workshop for the Asiatic Wild Ass (Khulan), Convention on the Conservation of Migratory Species of Wild Animals, June 26–July 1, 2023, Vilm, Germany. https://www.cms.int/sites/default/files/document/cms-bfn_AWA%20TW_overview_report_rev1_en_final.pdf.
- Kalimuddin, S., S. L. Chen, C. T. K. Lim, T. H. Koh, T. Y. Tan, M. Kam, et al. 2017. “2015 Epidemic of Severe *Streptococcus agalactiae* Sequence Type 283 Infections in Singapore Associated with the Consumption of Raw Freshwater Fish: A Detailed Analysis of Clinical, Epidemiological, and Bacterial Sequencing Data.” *Clinical Infectious Diseases* 64(suppl_2): S145–S152. <https://doi.org/10.1093/cid/cix021>.
- Kan, B. 2022. “Performing Laboratory Network Surveillance to Monitor the Emergence and Spread of Infectious Diseases.” *China CDC Weekly* 4(12): 233–234. <https://doi.org/10.46234/ccdcw2022.057>.
- Kaner, S. 2014. *Facilitator's Guide to Participatory Decision-Making*. 3rd ed. John Wiley & Sons. <https://www.wiley.com/en-us/Facilitator's+Guide+to+Participatory+Decision+Making,+3rd+Edition-p-9781118404959>.
- Kapil, S., and T. J. Yearly. 2011. “Canine Distemper Spillover in Domestic Dogs from Urban Wildlife.” *Veterinary Clinics of North America: Small Animal Practice* 41(6): 1069–1086. <https://doi.org/10.1016/j.cvsm.2011.08.005>.
- Karesh, W. B., A. Dobson, J. O. Lloyd-Smith, J. Lubroth, M. A. Dixon, M. Bennett, et al. 2012. “Ecology of Zoonoses: Natural and Unnatural Histories.” *Lancet* 380(9857): 1936–1945. [https://doi.org/10.1016/S0140-6736\(12\)61678-X](https://doi.org/10.1016/S0140-6736(12)61678-X).
- Karo-Karo, D., Diyantoro, E. S. Pribadi, F. X. Sudirman, S. W. Kurniasih, Sukirman, et al. 2019. “Highly Pathogenic Avian Influenza A(H5N1) Outbreaks in West Java Indonesia 2015–2016: Clinical Manifestation and Associated Risk Factors.” *Microorganisms* 7(9): 327. <https://doi.org/10.3390/microorganisms7090327>.
- Keawcharoen, J., K. Oraveerakul, T. Kuiken, R. A. Fouchier, A. Amonsin, S. Payungporn, et al. 2004. “Avian Influenza H5N1 in Tigers and Leopards.” *Emerging Infectious Diseases* 10(12): 2189–2191. <https://doi.org/10.3201%2Fid1012.040759>.
- Keeling, T. 2023. “The UK Is Failing Long-Tailed Macaques.” Earth Journalism Network, November 27, 2023. <https://earthjournalism.net/stories/the-uk-is-failing-long-tailed-macaques#:~:text=The%20U.S.%20is%20the%20biggest,%2C%20mostly%20long%20tailed%20macaques>.
- Keesing, F., L. K. Belden, P. Daszak, A. Dobson, C. D. Harvell, R. D. Holt, et al. 2010. “Impacts of Biodiversity on the Emergence and Transmission of Infectious Diseases.” *Nature* 468(7324): 647–652. <https://doi.org/10.1038/nature09575>.
- Kelly, T. R., P. S. Pandit, N. Carion, D. F. Dombrowski, K. H. Rogers, S. C. McMillin, et al. 2021. “Early Detection of Wildlife Morbidity and Mortality through an Event-Based Surveillance System.” *Proceedings of the Royal Society B: Biological Sciences* 288(1954): 20210974. <https://doi.org/10.1098/rspb.2021.0974>.
- Kelser, E. A. 2016. “Meloidosis: A Greater Threat than Previously Suspected?” *Microbes and Infection* 18(11): 1–8. <https://doi.org/10.1016/j.micinf.2016.07.001>.
- Kerdsin, A., M. Segura, N. Fittipaldi, and M. Gottschalk. 2022. “Sociocultural Factors Influencing Human *Streptococcus suis* Disease in Southeast Asia.” *Foods* 11(9): 1–13. <https://doi.org/10.3390/foods11091190>.
- Kerdsin, A., N. Bamphensin, K. Sittichottumrong, R. Ungcharoen, P. Boueroy, P. Chopjitt, et al. 2023. “Evaluation of pathotype marker genes in *Streptococcus suis* Isolated from Human and Clinically Healthy Swine in Thailand.” *BMC Microbiology* 23(1): 1–9. <https://doi.org/10.1186/s12866-023-02888-9>.
- Kerstetter, L. J., S. Buckley, C. M. Bliss, and L. Coughlan. 2020. “Adenoviral Vectors as Vaccines for Emerging Avian Influenza Viruses.” *Frontiers in Immunology* 11: 1–27. <https://doi.org/10.3389/fimmu.2020.607333>.
- Keskin, B. B., E. C. Griffin, J. O. Prell, B. Dilkina, A. Ferber, J. MacDonald, et al. 2023. “Quantitative Investigation of Wildlife Trafficking Supply Chains: A Review.” *Omega* 115: 102780. <https://doi.org/10.1016/j.omega.2022.102780>.
- Kessler, R. n.d. “Spreading One Health through Public Health.” EcoHealth Alliance. <https://www.ecohealthalliance.org/2018/04/public-health-is-one-health> (accessed February 3, 2024).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Keusch, G. T., J. H. Amuasi, D. E. Anderson, P. Daszak, I. Eckerle, H. Field, et al. 2022. “Pandemic Origins and A One Health Approach to Preparedness and Prevention: Solutions Based on SARS-CoV-2 and Other RNA Viruses.” *Proceedings of the National Academy of Sciences of the United States of America* 119(42): 1–11. <https://www.pnas.org/doi/10.1073/pnas.2202871119>.
- Khazanah Research Institute. 2022. *The Paddy and Rice Industry of Sabah and Sarawak: Status and Potential*. Kuala Lumpur, Malaysia: Khazanah Research Institute. https://krinstitute.org/assets/contentMS/img/template/editor/EM Rice Report_website's copy_v5.pdf.
- Kim, S., Y. Goh, and J. H. B. Kang. 2022. “Moving Toward a Common Goal Via Cross-Sector Collaboration: Lessons Learned from SARS to COVID-19 in Singapore.” *Globalization and Health* 18(1): 1–18. <https://doi.org/10.1186/s12992-022-00873-x>.
- Kingsley, P. V., M. Leader, N. S. Nagodawithana, M. Tipre, and N. Sathiakumar. 2016. “Meliodosis in Malaysia: A Review of Case Reports.” *PLOS Neglected Tropical Diseases* 10(12): 1–18. <https://doi.org/10.1371/journal.pntd.0005182>.
- Klous, G., A. Huss, D. J. J. Heederik, and R. A. Coutinho. 2016. “Human–Livestock Contacts and Their Relationship to Transmission of Zoonotic Pathogens, a Systematic Review of Literature.” *One Health* 2: 65–76. <https://doi.org/10.1016/j.onehlt.2016.03.001>.
- Koçer, Z. A., Y. Fan, R. Huether, J. Obenauer, R. J. Webby, J. Zhang, et al. 2014. “Survival Analysis of Infected Mice Reveals Pathogenic Variations in the Genome of Avian H1N1 Viruses.” *Scientific Reports* 4(1): 7455. <https://doi.org/10.1038/srep07455>.
- Koehler, J. W., A. T. Hall, P. A. Rolfe, A. N. Honko, G. F. Palacios, J. N. Fair, et al. 2014. “Development and Evaluation of a Panel of Filovirus Sequence Capture Probes for Pathogen Detection by Next-Generation Sequencing.” *PLOS ONE* 9(9): e107007. <https://doi.org/10.1371/journal.pone.0107007>.
- Koh, L. P., Y. Li, and J. Ser Huay Lee. 2021. “The Value of China’s Ban on Wildlife Trade and Consumption.” *Nature Sustainability* 4(1): 2–4. <https://doi.org/10.1038/s41893-020-00677-0>.
- Konda, M., B. Dodda, V. M. Konala, S. Naramala, and S. Adapa. 2020. “Potential Zoonotic Origins of SARS-CoV-2 and Insights for Preventing Future Pandemics through One Health Approach.” *Cureus* 12(6): 1–9. <https://www.cureus.com/articles/35783-potential-zoonotic-origins-of-sars-cov-2-and-insights-for-preventing-future-pandemics-through-one-health-approach#!/>.
- Korath, A. D. J., J. Janda, E. Untersmayr, M. Sokolowska, W. Feleszko, I. Agache, et al. 2022. “One Health: EAACI Position Paper on Coronaviruses at the Human-Animal Interface, with a Specific Focus on Comparative and Zoonotic Aspects of SARS-CoV-2.” *Allergy* 77(1): 55–71. <https://doi.org/10.1111/all.14991>.
- Koshy, E. 2020. “Malaysia and Southeast Asia at the Heart of Massive Wildlife Trade.” *New Straits Times* (Malaysia), March 1, 2020. <https://www.nst.com.my/lifestyle/sunday-vibes/2020/03/570621/malaysia-and-southeast-asia-heart-massive-wildlife-trade> (accessed April 17, 2024).
- Kostkova, P., F. Saigi-Rubio, H. Eguia, D. Borbolla, M. Verschuuren, C. Hamilton, et al. 2021. “Data and Digital Solutions to Support Surveillance Strategies in the Context of the COVID-19 Pandemic.” *Frontiers in Digital Health* 3: 707902. <https://doi.org/10.3389/fgth.2021.707902>.
- Krammer, F., G. J. D. Smith, R. A. M. Fouchier, M. Peiris, K. Kedzierska, P. C. Doherty, et al. 2018. “Influenza.” *Nature Review Disease Primers* 4(1): 1–21. <https://www.nature.com/articles/s41572-018-0002-y>.
- Krayter, L., L. F. Schnur, and G. Schönian. 2015. “The Genetic Relationship between *Leishmania aethiopica* and *Leishmania tropica* Revealed by Comparing Microsatellite Profiles.” *PLOS ONE* 10(7): 1–16. <https://doi.org/10.1371/journal.pone.0131227>.
- Krishnasamy, K. and M. Zavagli. 2020. *Southeast Asia: At the Heart of Wildlife Trade*. Petaling Jaya, Malaysia: TRAFFIC, Southeast Asia Regional Office. <https://www.traffic.org/site/assets/files/12648/sea-traps-february-2020.pdf>
- Kuchipudi, S. V., M. Surendran-Nair, R. M. Ruden, M. Yon, R. H. Nissly, K. J. Vandegrift, et al. 2022. “Multiple Spillovers from Humans and Onward Transmission of SARS-CoV-2 in White-Tailed Deer.” *Proceedings of the National Academy of Sciences of the United States of America* 119(6): 1–8. <https://www.pnas.org/doi/full/10.1073/pnas.2121644119>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Kuchipudi, S. V., C. Tan, L. van Dorp, M. Lichtveld, B. Pickering, J. Bowman, et al. 2023. “Coordinated Surveillance Is Essential to Monitor and Mitigate the Evolutionary Impacts of SARS-CoV-2 Spillover and Circulation in Animal Hosts.” *Nature Ecology & Evolution* 7(7): 956–959. <https://doi.org/10.1038/s41559-023-02082-0>.
- Kuhn, K., D. Campbell-Lendrum, A. Haines, J. Cox, C. Corvalán, and M. Anker. 2005. *Using Climate to Predict Infectious Disease Epidemics*. Geneva: World Health Organization. <https://www.who.int/publications/i/item/9241593865>.
- Kumagai, S., T. Daikai, and T. Onodera. 2019. “Bovine Spongiform Encephalopathy: A Review from the Perspective of Food Safety.” *Official Journal of Food Safety Commission (Tokyo)* 7(2): 21–47. <https://doi.org/10.14252%2Ffoodsafetyfscj.2018009>.
- Kuwata, R., S. Torii, H. Shimoda, S. Supriyono, T. Phichitraslip, N. Prasertsincharoen, et al. 2020. “Distribution of Japanese Encephalitis Virus, Japan and Southeast Asia, 2016–2018.” *Emerging Infectious Diseases* 26(1): 125–128. <https://doi.org/10.3201%2Faid2601.190235>.
- LACANET (One Health Surveillance and Laboratory Network).n.d. “LACANET 2016 Training Programme.” One Health Network South East Asia. <https://www.onehealthsea.org/lacenet/> (accessed April 10, 2024).
- Lam, T. T., N. Jia, Y. W. Zhang, M. H. Shum, J. F. Jiang, H. C. Zhu, et al. 2020. “Identifying SARS-CoV-2-Related Coronaviruses in Malayan Pangolins.” *Nature* 583(7815): 282–85. <https://doi.org/10.1038/s41586-020-2169-0>.
- Lam, W. K., N. S. Zhong, and W. C. Tan. 2003. “Overview on SARS in Asia and the World.” *Official Journal of the Asian Pacific Society of Respiriology* 8(Suppl. 1): S2–S5. <https://doi.org/10.1046/j.1440-1843.2003.00516.x>.
- Lawler, O. K., H. L. Allan, P. W. J. Baxter, R. Castagnino, M. C. Tor, L. E. Dann, et al. 2021. “The COVID-19 Pandemic Is Intricately Linked to Biodiversity Loss and Ecosystem Health.” *Lancet Planetary Health* 5(11): E840–E850. [https://doi.org/10.1016/S2542-5196\(21\)00258-8](https://doi.org/10.1016/S2542-5196(21)00258-8).
- Le Gall, F., C. Plante, F. Berthe, T. A. Bouley, R. Seifman, W.B. Karesh, et al. 2018. *Operational Framework for Strengthening Human, Animal and Environmental Public Health Systems at Their Interface*. Washington, DC: World Bank Group. <https://documents.worldbank.org/en/publication/documents-reports/documentdetail/703711517234402168/operational-framework-for-strengthening-human-animal-and-environmental-public-health-systems-at-their-interface>.
- Lebonah, D. E., A. Dileep, K. Chandrasekhar, S. Sreevani, B. Sreedevi, and J. Pramoda Kumari. 2014. “DNA Barcoding on Bacteria: A Review.” *Advances in Biology* (vol. 2014, article ID 541787). <https://doi.org/10.1155/2014/541787>.
- Lednický, J. A., M. S. Tagliamonte, S. K. White, M. A. Elbadry, M. M. Alam, C. J. Stephenson, et al. 2021. “Independent Infections of Porcine Deltacoronavirus among Haitian Children.” *Nature* 600(7887): 1–10. <https://www.nature.com/articles/s41586-021-04111-z>.
- Lee, J. G. H., S. C. L. Chng, and J. A. Eaton, eds. 2016. *Conservation Strategy for Southeast Asian Songbirds in Trade. Recommendations from the First Asian Songbird Trade Crisis Summit 2015*. Jurong Bird Park, Singapore, September 27–29, 2015. Wildlife Reserves Singapore/TRAFFIC. https://cites.org/sites/default/files/common/docs/meeting_info/songbirds/Conservation-strategy-for-Southeast-Asian-songbirds-in-trade.pdf.
- Lee, K. 2023. *The Global Governance of Emerging Zoonotic Diseases: Challenges and Proposed Reforms*. Workshop Policy Paper. Council on Foreign Relations Global Health Program, February 13, 2023. <https://www.cfr.org/report/global-governance-emerging-zoonotic-diseases> (accessed April 1, 2024).
- Lee, M. 2020. “Masks, Mats and More.” *The Straits Times*, October 26, 2020. <https://www.straitstimes.com/singapore/masks-mats-and-more> (accessed March 18, 2024).
- Lee, T., and J. Hansen. 2019. “Southeast Asia’s Growing Meat Demand and Its Implications for Feedstuffs Imports.” *Amber Waves: The Economics of Food, Farming, Natural Resources, and Rural America*, 2019(3). <https://www.ers.usda.gov/amber-waves/2019/april/southeast-asia-s-growing-meat-demand-and-its-implications-for-feedstuffs-imports/>.
- Lefrançois, T., D. Malvy, L. Atlani-Duault, D. Benamouzig, P. -L. Druais, Y. Yazdanpanah, et al. 2023. “After 2 Years of the COVID-19 Pandemic, Translating One Health into Action Is Urgent.” *Lancet* 401(10378): 789–794. [https://doi.org/10.1016/S0140-6736\(22\)01840-2](https://doi.org/10.1016/S0140-6736(22)01840-2).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Leibler, J. H., A. Abdelgadir, J. Seidel, R. F. White, W. E. Johnson, S. J. Reynolds, et al. 2023. “Influenza D Virus Exposure Among US Cattle Workers: A Call for Surveillance.” *Zoonoses Public Health* 70(2): 166–170. <https://doi.org/10.1111/zph.13008>.
- Lele, D. V. 2018. “Occupational Health Surveillance.” *Indian Journal of Occupational and Environmental Medicine* 22(3): 117–120. https://doi.org/10.4103/ijoem.IJOEM_251_18.
- Lerner, H. and C. Berg. 2017. “A Comparison of Three Holistic Approaches to Health: One Health, Ecohealth, and Planetary Health.” *Frontiers in Veterinary Science* 4(163). <https://doi.org/10.3389/fvets.2017.00163>.
- Leuenberger, A., M. S. Winkler, I. Lyatuu, H. Cossa, H. R. Zabré, D. Dietler, et al. 2022. “Incorporating Community Perspectives in Health Impact Assessment: A Toolbox.” *Environmental Impact Assessment Review* 95(2022): 1–8. . <https://doi.org/10.1016/j.eiar.2022.106788>.
- Leung, Y. H., E. H. Lau, L. J. Zhang, Y. Guan, B. J. Cowling, and J. S. Peiris. 2012. “Avian Influenza and Ban on Overnight Poultry Storage in Live Poultry Markets, Hong Kong.” *Emerging Infectious Diseases* 18(8): 1339–1341. <https://doi.org/10.3201/eid1808.111879>.
- Leung, Y. H., L. J. Zhang, C. K. Chow, C. L. Tsang, C. F. Ng, C. K. Wong, et al. 2007. “Poultry Drinking Water Used for Avian Influenza Surveillance.” *Emerging Infectious Diseases* 13(9): 1380–1382. <https://doi.org/10.3201%2Feid1309.070517>.
- Li, C., H. Lu, C. Geng, K. Yang, W. Liu, Z. Liu, et al. 2022. “Epidemic and Evolutionary Characteristics of Swine Enteric Viruses in South-Central China from 2018 to 2021.” *Viruses* 14(7): 1–16. <https://doi.org/10.3390/v14071420>.
- Lian, L. P., L. Y. Nuo, J. Wong, S. Octavia, S. Arivalan, D. Chee, et al. 2019. *One Health Report on Antimicrobial Utilisation and Resistance, 2019*. Singapore: One Health Antimicrobial Resistance Working Group. <https://www.ncid.sg/Health-Professionals/Documents/One%20Health%20Report%20on%20Antimicrobial%20Utilisation%20and%20Resistance%202019.pdf>.
- Lin, B., M. L. Dietrich, R. A. Senior, and D. S. Wilcove. 2021. “A Better Classification of Wet Markets Is Key to Safeguarding Human Health and Biodiversity.” *Lancet Planetary Health* 5(6): e386–e394. [https://doi.org/10.1016/S2542-5196\(21\)00112-1](https://doi.org/10.1016/S2542-5196(21)00112-1).
- Lippi, G., J. Cadamuro, E. Danese, E. J. Favalaro, J. Favresse, B. M. Henry, et al. 2023. “Disruption of Laboratory Activities During the COVID-19 Pandemic: Results of an EFLM Task Force Preparation of Labs for Emergencies (TF-PLE) Survey.” *The electronic Journal of the International Federation of Clinical Chemistry and Laboratory Medicine* 34(3): 213–219. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10588075/>.
- Liu, H. 2022. “Official Social Media and Its Impact on Public Behavior During the First Wave of COVID-19 in China.” *BMC Public Health* 22(1): 428. <https://doi.org/10.1186/s12889-022-12803-y>.
- Liu, J. X., M. J. Wang, L. Yang, S. Rahman, and S. Sriboonchitta. 2020. “Agricultural Productivity Growth and Its Determinants in South and Southeast Asian Countries.” *Sustainability* 12(12): 4981. <https://doi.org/10.3390/su12124981>.
- Liu, W. J., P. Liu, W. Lei, Z. Jia, X. He, W. Shi, et al. 2023. “Surveillance of SARS-CoV-2 at the Huanan Seafood Market.” *Nature*. <https://doi.org/10.1038/s41586-023-06043-2>.
- Liverani, M., S. Teng, M. S. Le, and R. Coker. 2018. “Sharing Public Health Data and Information across Borders: Lessons from Southeast Asia.” *Global Health* 14(1): 1–12. <https://doi.org/10.1186/s12992-018-0415-0>.
- Lloren, K. K. S., T. Lee, J. J. Kwon, and M. S. Song. 2017. “Molecular Markers for Interspecies Transmission of Avian Influenza Viruses in Mammalian Hosts.” *International Journal of Molecular Sciences* 18(12): 1–22. <https://doi.org/10.3390/ijms18122706>.
- Lo, M. K., and P. A. Rota. 2008. “The Emergence of Nipah Virus, a Highly Pathogenic Paramyxovirus.” *Journal of Clinical Virology* 43(4): 396–400. <https://doi.org/10.1016/j.jcv.2008.08.007>.
- Lo, M. Y., Ngan, W. Y., Tsun, S. M., Hsing, H. L., Lau, K. T., Hung, H. P., et al. 2019. “A Field Study into Hong Kong’s Wet Markets: Raised Questions into the Hygienic Maintenance of Meat Contact Surfaces and the Dissemination of Microorganisms Associated with Nosocomial Infections.” *Frontiers in Microbiology* 10: 2618. doi: [10.3389/fmicb.2019.02618](https://doi.org/10.3389/fmicb.2019.02618).
- Looi, L. M., and K. B. Chua. 2007. “Lessons from the Nipah Virus Outbreak in Malaysia.” *Malaysian Journal of Pathology* 29(2): 63–67. <https://www.ncbi.nlm.nih.gov/pubmed/19108397>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Luby, S. P., M. J. Hossain, E. S. Gurley, B. Ahmed, S. Banu, S. U. Khan, et al. 2009. “Recurrent Zoonotic Transmission of Nipah Virus into Humans, Bangladesh, 2001–2007.” *Emerging Infectious Diseases* 15(8): 1229–1235 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2815955/pdf/08-1237_finalR.pdf.
- Ludher, E., and T. Kumar. 2018. *Food and the City: Overcoming Challenges for Food Security*. Singapore: Centre for Liveable Cities (CLC). <https://www.clc.gov.sg/docs/default-source/urban-systems-studies/food-and-the-city-overcoming-challenges-for-food-security.pdf>.
- Luis, A. D., D. T. Hayman, T. J. O’Shea, P. M. Cryan, A. T. Gilbert, J. R. Pulliam, et al. 2013. “A Comparison of Bats and Rodents as Reservoirs of Zoonotic Viruses: Are Bats Special?” *Proceedings of the Royal Society B: Biological Sciences* 280(1756): 20122753. <https://doi.org/10.1098/rspb.2012.2753>.
- Lukman, N., H. Kosasih, I. N. Ibrahim, A. A. Pradana, A. Neal, and M. Karyana. 2019. “A Review of Hantavirus Research in Indonesia: Prevalence in Humans and Rodents, and the Discovery of Serang Virus.” *Viruses* 11(8): 1–11. <https://doi.org/10.3390/v11080698>.
- Lum, A., Y. L. Goh, K. S. Wong, J. Seah, G. Teo, J. Q. Ng, et al. 2021. “Impact of COVID-19 on the Mental Health of Singaporean GPs: A Cross-Sectional Study.” *BJGP Open* 5(4). <https://doi.org/10.3399/BJGPO.2021.0072>.
- Luong, H. T. 2022. “Understanding the Illegal Wildlife Trade in Vietnam: A Systematic Literature Review.” *Laws* 11(4): 64. <https://www.mdpi.com/2075-471X/11/4/64>.
- Luskin, M. S., E. Meijaard, S. Surya, Sheherazade, C. Walzer, and M. Linkie. 2021. “African Swine Fever Threatens Southeast Asia’s 11 Endemic Wild Pig Species.” *Conservation Letters* 14(3): e12784. <https://conbio.onlinelibrary.wiley.com/doi/10.1111/conl.12784>.
- Lynggaard, C., M. F. Bertelsen, C. V. Jensen, M. S. Johnson, T. G. Froslev, M. T. Olsen, et al. 2022. “Airborne Environmental DNA for Terrestrial Vertebrate Community Monitoring.” *Current Biology* 32(3): 701–707 e5. <https://doi.org/10.1016/j.cub.2021.12.014>.
- Machalaba, C., M. Uhart, M. P. Ryser-Degiorgis, and W. B. Karesh. 2021. “Gaps in Health Security Related to Wildlife and Environment Affecting Pandemic Prevention and Preparedness, 2007–2020.” *Bulletin of the World Health Organization* 99(5): 342–50B. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8061663/>.
- Mackenzie, J. S., and M. Jeggo. 2019. “The One Health Approach—Why Is It So Important?” *Tropical Medicine and Infectious Disease* 4(2): 1–4. DOI: 10.3390/tropicalmed4020088.
- Madhav, N., B. Oppenheim, M. Gallivan, P. Mulembakani, E. Rubin, and N. Wolfe. 2017. “Pandemics: Risks, Impacts, and Mitigation.” In *Disease Control Priorities: Improving Health and Reducing Poverty*, D. T. Jamison, H. Gelband, S. Horton, P. Jha, R. Laxminarayan, C. N. Mock, and R. Nugent, eds., pp. 315–345. Washington, DC: International Bank for Reconstruction and Development/World Bank.
- Magouras, I., V. J. Brookes, F. Jori, A. Martin, D. U. Pfeiffer, and S. Dürr. 2020. “Emerging Zoonotic Diseases: Should We Rethink the Animal-Human Interface?” *Frontiers in Veterinary Science* 7: 582743. <https://doi.org/10.3389/fvets.2020.582743>.
- Mahapatra, M., K. Sayalel, M. Muniraju, E. Eblate, R. Fyumagwa, L. Shilinde, et al. 2015. “Spillover of Peste des Petits Ruminants Virus from Domestic to Wild Ruminants in the Serengeti Ecosystem, Tanzania.” *Emerging Infectious Diseases* 21(12): 2230–2234. <https://doi.org/10.3201/eid2112.150223>.
- Markotter, W., T. C. Mettenleiter, W. B. Adisasmito, S. Almuhairi, C. B. Behravesh, P. Bilivogui, et al. 2023. “Prevention of Zoonotic Spillover: From Relying on Response to Reducing the Risk at Source.” *PLOS Pathogens* 19(10): e1011504. <https://doi.org/10.1371/journal.ppat.1011504>.
- Malaysia Ministry of Health. 2021. *Action Plan Towards the Elimination of Cervical Cancer in Malaysia 2021–2030*. Putrajaya: Ministry of Health Malaysia. [https://www.moh.gov.my/moh/modules_resources/bookshelf/Action_Plan_Towards_The_Elimination_of_Cervical_Cancer_in_Malaysia_2021-2030_\(ISBN\)_comp/Action_Plan_Towards_The_Elimination_of_Cervical_Cancer_in_Malaysia_2021-2030_\(ISBN\)_comp.pdf](https://www.moh.gov.my/moh/modules_resources/bookshelf/Action_Plan_Towards_The_Elimination_of_Cervical_Cancer_in_Malaysia_2021-2030_(ISBN)_comp/Action_Plan_Towards_The_Elimination_of_Cervical_Cancer_in_Malaysia_2021-2030_(ISBN)_comp.pdf) (accessed March 18, 2024).
- Malik, Y. S., S. Sircar, S. Bhat, M. I. Ansari, T. Pande, P. Kumar, et al. 2021. “How Artificial Intelligence May Help the Covid-19 Pandemic: Pitfalls and Lessons for the Future.” *Reviews in Medical Virology* 31(5): 1–11. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7883226/pdf/RMV-31-1.pdf>.
- Mallapaty, S. 2023. “COVID-Origins Study Links Raccoon Dogs to Wuhan Market: What Scientists Think.” *Nature* 615: 771–772. <https://doi.org/10.1038/d41586-023-00827-2>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Mantip, S. E., D. Shamaki, and S. Farougou. 2019. “Peste des Petits Ruminants in Africa: Meta-Analysis of the Virus Isolation in Molecular Epidemiology Studies.” *Onderstepoort Journal of Veterinary Research* 86(1): e1–e15. <https://doi.org/10.4102%2Fojvr.v86i1.1677>.
- Manzoni, G., R. Try, J. O. Guintran, C. Christiansen-Jucht, E. Jacoby, S. Sovannaroth, et al. 2024. “Progress towards Malaria Elimination in the Greater Mekong Subregion: Perspectives from the World Health Organization.” *Malaria Journal* 23(1): 64. <https://doi.org/10.1186/s12936-024-04851-z>.
- Marin, B., A. Otero, S. Lugan, J. C. Espinosa, A. Marin-Moreno, E. Vidal, et al. 2021. “Classical BSE Prions Emerge from Asymptomatic Pigs Challenged with Atypical/Nor98 Scrapie.” *Scientific Reports* 11(1): 1–8. <https://doi.org/10.1038/s41598-021-96818-2>.
- Mariner, J. C., S. Hendrickx, D. U. Pfeiffer, S. Costard, L. Knopf, S. Okuthe, et al. 2011. “Integration of Participatory Approaches into Surveillance Systems.” *Revue Scientifique et Technique d’OIE* 30(3): 653–659. <https://doi.org/10.20506/rst.30.3.2065>.
- Markotter, W., T. C. Mettenleiter, W. B. Adisasmito, S. Almuhairi, C. B. Behravesh, P. Bilivogui, et al. 2023. *Prevention of Zoonotic Spillover: From Relying on Response to Reducing the Risk at Source*. One Health High-Level Expert Panel (OHHLEP) whitepaper/opinion piece. World Health Organization. <https://www.who.int/publications/m/item/prevention-of-zoonotic-spillover>.
- Marks, D., A. Sirithet, A. Rakyuttitham, S. Wulandari, and S. Chomchan. 2015. *Land Grabbing and Impacts to Small Scale Farmers in Southeast Asia Sub-Region*. Local Act Thailand. https://www.iss.nl/sites/corporate/files/CMCP_60-Samranjit.pdf (accessed April 12, 2024).
- Marshall, H., N. J. Collar, A. C. Lees, A. Moss, P. Yuda, and S. J. Marsden. 2020. “Characterizing Bird-Keeping User-Groups on Java Reveals Distinct Behaviours, Profiles and Potential for Change.” *People and Nature* 2(4): 877–888. <https://doi.org/10.1002/pan3.10132>.
- Martin, G., C. Yanez-Arenas, R. K. Plowright, C. Chen, B. Roberts, and L. F. Skerratt. 2018. “Hendra Virus Spillover Is a Bimodal System Driven by Climatic Factors.” *EcoHealth* 15(3): 526–542. <https://doi.org/10.1007/s10393-017-1309-y>.
- Mason-D’Croz, D., J. Palmer, M. van Wijk, and M. Herrero. 2022. *Smallholder Livestock Futures in Southeast Asia – Final Report*. Canberra: Australian Centre for International Agricultural Research. <https://www.aciar.gov.au/publication/technical-publications/LS-2018-107-final-report>.
- Matsumoto, N., J. Siengsanant-Lamont, T. Halasa, J. R. Young, M. P. Ward, B. Douangneun, et al. 2021. “The Impact of African Swine Fever Virus on Smallholder Village Pig Production: An Outbreak Investigation in Lao PDR.” *Transboundary and Emerging Diseases* 68(5): 2897–2908. <https://doi.org/10.1111/tbed.14193>.
- Maxmen, A. 2022. “Wuhan Market Was Epicentre of Pandemic’s Start, Studies Suggest.” *Nature* 603(7899): 15–16. <https://www.nature.com/articles/d41586-022-00584-8>.
- McDowell, I. 2013. *Population Health: Health Determinants, Prevention, and Health Promotion, 2013*. <https://fdocuments.net/document/population-health-health-determinants-prevention-health-promotion-2013.html?page=5>. (accessed March 25, 2024).
- McEwen, B. S., and J. C. Wingfield. 2003. “The Concept of Allostasis in Biology and Biomedicine.” *Hormones and Behavior* 43(1): 2–15. [https://doi.org/10.1016/s0018-506x\(02\)00024-7](https://doi.org/10.1016/s0018-506x(02)00024-7).
- McKee, C. D., A. Islam, S. P. Luby, H. Salje, P. J. Hudson, R. K. Plowright, et al. 2021. “The Ecology of Nipah Virus in Bangladesh: A Nexus of Land-Use Change and Opportunistic Feeding Behavior in Bats.” *Viruses* 13(2): 1–23. <https://doi.org/10.3390/v13020169>.
- Mena, I., M. I. Nelson, F. Quezada-Monroy, J. Dutta, R. Cortes-Fernandez, J. H. Lara-Puente, et al. 2016. “Origins of the 2009 H1N1 Influenza Pandemic in Swine in Mexico.” *Elife* 5: 1–21. <https://doi.org/10.7554/eLife.16777>.
- Microbiology Society. n.d. *Microbes and Disease*. <https://microbiologysociety.org/why-microbiology-matters/what-is-microbiology/microbes-and-the-human-body/microbes-and-disease.html> (accessed April 5, 2024).
- Mighell, E., and M. P. Ward. 2021. “African Swine Fever Spread across Asia, 2018–2019.” *Transboundary and Emerging Diseases* 68(5): 2722–2732. <https://doi.org/10.1111/tbed.14039>.
- Millett, P. 2010. “The Biological Weapons Convention: Securing Biology in the Twenty-First Century.” *Journal of Conflict & Security Law* 15(1): 25–43. <https://www.jstor.org/stable/26294678>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Milner-Gulland, E. J., O. M. Bukreeva, T. Coulson, A. A. Lushchekina, M. V. Kholodova, A. B. Bekenov, et al. 2003. “Conservation: Reproductive Collapse in Saiga Antelope Harems.” *Nature* 422(6928): 135. <https://doi.org/10.1038/422135a>.
- Ministry of Agriculture and Food Security Malaysia. 2024. *National Food Security Policy Action Plan 2021–2025*. Last updated: March 17, 2024. https://www.kpkm.gov.my/en_US/pelan-tindakan-dasar-sekuriti-makanan-2021-2025 (accessed March 17, 2024).
- Ministry of Health Malaysia (home page). n.d. <https://www.moh.gov.my/> (accessed March 30, 2024).
- Miranda, M. E., and N. L. Miranda. 2011. “Reston Ebolavirus in Humans and Animals in the Philippines: A Review.” *Journal of Infectious Diseases* 204(Suppl 3): S757–S760. <https://doi.org/10.1093/infdis/jir296>.
- Mishra, B., S. Rath, M. Mohanty, and P. R. Mohapatra. 2023. “The Threat of Impending Pandemics: A Proactive Approach.” *Cureus* 15(3): 1–7 <https://doi.org/10.7759/cureus.36723>.
- Mohd Nor, M. N., A. J. Abu Mustapa, M. A. Abu Hassan, and K. W. Chang. 2003. “The Organisation of the Department of Veterinary Services in Malaysia.” *Revue Scientifique et Technique (International Office of Epizootics)* 22(2): 485–497. <https://pubmed.ncbi.nlm.nih.gov/15884584/>.
- Montgomery, J. M., M. J. Hossain, E. Gurley, G. D. Carroll, A. Croisier, E. Bertherat, et al. 2008. “Risk Factors for Nipah Virus Encephalitis in Bangladesh.” *Emerging Infectious Diseases* 14(10): 1526–1532. <https://doi.org/10.3201/eid1410.060507>.
- Morand, S. 2022. “The Role of Agriculture in Human Infectious Disease Outbreaks.” *CABI Reviews*. Review Article, December 21, 2022.
- Morse, S. S., J. A. Mazet, M. Woolhouse, C. R. Parrish, D. Carroll, W. B. Karesh, et al. 2012. “Prediction and Prevention of the Next Pandemic Zoonosis.” *Lancet* 380(9857): 1956–1965. [https://doi.org/10.1016/S0140-6736\(12\)61684-5](https://doi.org/10.1016/S0140-6736(12)61684-5).
- Mota-Rojas, D., C. Mariti, M. Marcet-Rius, K. Lezama-Garcia, A. Gazzano, I. Hernandez-Avalos, et al. 2022. “The Welfare of Fighting Dogs: Wounds, Neurobiology of Pain, Legal Aspects and the Potential Role of the Veterinary Profession.” *Animals (Basel)* 12(17): 2257. <https://doi.org/10.3390/ani12172257>.
- MPC (Malaysia Productivity Corporation). 2020. *Potential Application of Circular Economy Concept in Livestock Production*. [https://www.dvs.gov.my/dvs/resources/user_1/2022/BPSPV/SPPU/Potential_Application_of_Circular_Economy_\(CE\)_Concept_in_Livestock_Production_2020_MPC_DVS.pdf](https://www.dvs.gov.my/dvs/resources/user_1/2022/BPSPV/SPPU/Potential_Application_of_Circular_Economy_(CE)_Concept_in_Livestock_Production_2020_MPC_DVS.pdf) (accessed March 12, 2024).
- Muflihanah, F. Hendrawati, F. Zakaria, T. F. Djatmikowati, W. Dariani, F. Amaliah, et al. 2017. “Survey Triangulasi pada Hewan Domestik di Pulau Sulawesi: Hasil Pengujian Round 1 Sulawesi Utara dan Gorontalo Tahun 2016.” In *Diagnosa Veteriner: Buletin Informasi Kesehatan Hewan dan Kesehatan Masyarakat*, vol. 16, no. 1, pp. 22–28 <https://repository.pertanian.go.id/server/api/core/bitstreams/a1075b38-c5a2-4dbb-a199-4b876e287f9a/content> (accessed March 11, 2024).
- Muflihanah, ST N. M. Muhiddin, S. H. Said, T. Firdaus, and Iryadi. 2021. *Surveilans Triangulasi sebagai Deteksi Dini Emerging Infectious Disease (EID) di Sulawesi Selatan dan Sulawesi Barat [Triangulation Surveillance as Early Detection of Emerging Infectious Disease (EID) in South Sulawesi and West Sulawesi]*. Perpustakaan Balai Besar Veteriner Maros. <https://repository.pertanian.go.id/items/56bbc6f2-44a2-4fcf-8e82-866d835a81d4>.
- Mulvey, P., V. Duong, S. Boyer, G. Burgess, D. T. Williams, P. Dussart, et al. 2021. “The Ecology and Evolution of Japanese Encephalitis Virus.” *Pathogens* 10(12): 1–17. <https://doi.org/10.3390/pathogens10121534>.
- Munnink, O. B. B., R. S. Sikkema, D. F. Nieuwenhuijse, R. J. Molenaar, E. Munger, R. Molenkamp, et al. 2021. “Transmission of SARS-CoV-2 on Mink Farms between Humans and Mink and Back to Humans.” *Science* 371(6525): 172–177. <https://www.science.org/doi/10.1126/science.abe5901>.
- Munyua, P. M., M. K. Njenga, E. M. Osoro, C. O. Onyango, A. O. Bitek, A. Mwatondo, et al. 2019. “Successes and Challenges of the One Health Approach in Kenya over the Last Decade.” *BMC Public Health* 19(Suppl. 3): 1–9. <https://doi.org/10.1186/s12889-019-6772-7>.
- Murdad, R., M. Muhiddin, W. H. Osman, N. E. Tajidin, Z. Haida, A. Awang, et al. 2022. “Ensuring Urban Food Security in Malaysia during the COVID-19 Pandemic—Is Urban Farming the Answer? A Review.” *Sustainability* 14(7): 4155. <https://doi.org/10.3390/su14074155>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Murphy, F. A. 2008. “Epidemiology of Human and Animal Viral Diseases.” In *Encyclopedia of Virology (Third Edition)*, B. W. J. Mahy and M. H. V. Van Regenmortel, eds., pp.140–148. Academic Press. <https://doi.org/10.1016/B978-012374410-4.00390-3>.
- Murphy, G. 2023. “Clash of Cockfights: Comparing Online Sabong and Traditional Sabong.” *Medium*, June 27, 2023. <https://medium.com/@georgiajmurphym/clash-of-cockfights-comparing-online-sabong-and-traditional-sabong-9b709df95247#:~:text=Sabong%2C%20also%20known%20as%20cockfighting,taking%20place%20on%20virtual%20platforms> (accessed March 11, 2024).
- Murray, J., and A. L. Cohen. 2017. “Infectious Disease Surveillance.” In *International Encyclopedia of Public Health (Second Edition)*, Stella R. Quah, ed., pp. 222–229. Academic Press. <https://doi.org/10.1016/B978-0-12-803678-5.00517-8>.
- Murray, K. A., N. Preston, T. Allen, C. Zambrana-Torrel, P. R. Hosseini, and P. Daszak. 2015. “Global Biogeography of Human Infectious Diseases.” *Proceedings of the National Academy of Sciences of the United States of America* 112(41): 12746–12751. <https://doi.org/10.1073/pnas.1507442112>.
- Muthanna, A., M. N. M. Desa, W. Alsalemi, N. A. Liyana Abd Aziz, N. D. Dzaraly, N. H. Z. Baharin, et al. 2023. “Phenotypic and Genotypic Comparison of Pathogenic Group B *Streptococcus* Isolated from Human and Cultured Tilapia (*Oreochromis* Species) in Malaysia.” *Comparative Immunology, Microbiology and Infectious Diseases* 97: 101993. <https://doi.org/10.1016/j.cimid.2023.101993>.
- MyOHUN (Malaysian One Health University Network). n.d.-a. About Us. <https://myohun.com/about-us/> (accessed March 10, 2024).
- MyOHUN. n.d.-b. Malaysia One Health University Network (home page). <https://myohun.com/> (accessed April 18, 2024).
- Nabil, N. M., A. M. Erfan, M. M. Tawakol, N. M. Haggag, M. M. Naguib, and A. Samy. 2020. “Wild Birds in Live Birds Markets: Potential Reservoirs of Enzootic Avian Influenza Viruses and Antimicrobial Resistant Enterobacteriaceae in Northern Egypt.” *Pathogens* 9(3): 1–15. <https://doi.org/10.3390/pathogens9030196>.
- Naguib, M. M., R. Li, J. Ling, D. Grace, H. Nguyen-Viet, and J. F. Lindahl. 2021. “Live and Wet Markets: Food Access Versus the Risk of Disease Emergence.” *Trends in Microbiology* 29(7): 573–581. <https://doi.org/10.1016/j.tim.2021.02.007>.
- Nahar, N., U. K. Mondal, R. Sultana, M. J. Hossain, M. S. Khan, E. S. Gurley, et al. 2013. “Piloting the Use of Indigenous Methods to Prevent Nipah Virus Infection by Interrupting Bats’ Access to Date Palm Sap in Bangladesh.” *Health Promotion International* 28(3): 378–386. <https://doi.org/10.1093/heapro/das020>.
- Nanni, V., S. Mammola, N. Macías-Hernández, A. Castrogiovanni, A. L. Salgado, E. Lunghi, et al. 2022. “Global Response of Conservationists across Mass Media Likely Constrained Bat Persecution Due to COVID-19.” *Biological Conservation* 272: 1–11. <https://www.sciencedirect.com/science/article/pii/S0006320722001446?via%3Dihub>.
- Nantima, N., M. Ocaido, E. Ouma, J. Davies, M. Dione, E. Okoth, et al. 2015. “Risk Factors Associated with Occurrence of African Swine Fever Outbreaks in Smallholder Pig Farms in Four Districts Along the Uganda-Kenya Border.” *Tropical Animal Health and Production* 47(3): 589–595. <https://doi.org/10.1007/s11250-015-0768-9>.
- Narayanasamy, N. 2009. *Participatory Rural Appraisal: Principles, Methods and Application*. Delhi, New Delhi: SAGE Publications. https://books.google.com/books/about/Participatory_Rural_Appraisal.html?id=pLmnLjAr6V4C.
- Nawtaisong, P., M. T. Robinson, K. Khamavong, P. Milavong, A. Rachlin, S. Dittrich, et al. 2022. “Zoonotic Pathogens in Wildlife Traded in Markets for Human Consumption, Laos.” *Emerging Infectious Diseases* 28(4): 860–864. <https://doi.org/10.3201/eid2804.210249>.
- NCID (National Centre for Infectious Diseases). 2024. About NCID. Last updated: May 6, 2024. <https://www.ncid.sg/About-NCID/Pages/default.aspx> (accessed March 2, 2024).
- Ndolo, V. A., D. W. Redding, I. Lekolool, D. M. Mwangangi, D. O. Odhiambo, M. A. Deka, et al. 2022. “Drivers and Potential Distribution of Anthrax Occurrence and Incidence at National and Sub-County Levels across Kenya from 2006 to 2020 Using INLA.” *Scientific Reports* 12(1): 20083. <https://doi.org/10.1038/s41598-022-24589-5>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Neo, P. 2018. “Expert Analysis: Meat and Seafood Consumption in Asia Will Rise 78% by 2050.” *Food Navigator – Asia*, December 3, 2018. <https://www.foodnavigator-asia.com/Article/2018/12/03/Expert-analysis-Meat-and-seafood-consumption-in-Asia-will-rise-78-by-2050> (accessed April 11, 2023).
- Nga, N. T. T., A. Latinne, H. B. Thuy, N. V. Long, P. T. B. Ngoc, N. T. L. Anh, et al. 2022. “Evidence of SARS-CoV-2 Related Coronaviruses Circulating in Sunda pangolins (*Manis javanica*) Confiscated From the Illegal Wildlife Trade in Viet Nam.” *Frontiers in Public Health* 10: 826116. <https://doi.org/10.3389/fpubh.2022.826116>.
- Ngor, P. B., K. Heng, S. Thor, and D. Thomson. 2010. *Pilot Participatory Policy Impact Assessment Fisheries Policy Related to Community Fisheries Development Stung Treng, Kampot/Kep, Koh Kong and Siem Reap Provinces*. Phnom Penh: Cambodia Fisheries Administration. https://www.researchgate.net/profile/Peng-Bun-Ngor/publication/310671201_PILOT_PARTICIPATORY_POLICY_IMPACT_ASSESSMENT_FISHERIES_POLICY_RELATED_TO_COMMUNITY_FISHERIES_DEVELOPMENT/links/583501fa08ae138f1c0d852e/PILOT-PARTICIPATORY-POLICY-IMPACT-ASSESSMENT-FISHERIES-POLICY-RELATED-TO-COMMUNITY-FISHERIES-DEVELOPMENT.pdf.
- Nguyen, T. T., T. N. Mai, S. Dang-Xuan, H. Nguyen-Viet, F. Unger, and H. S. Lee. 2024. “Emerging Zoonotic Diseases in Southeast Asia in the Period 2011–2022: A Systematic Literature Review.” *Veterinary Quarterly* 44(1): 1–15. <https://doi.org/10.1080/01652176.2023.2300965>.
- Nguyen-Viet, H., P. Ratanakorn, W. Adisasmito, B. B. Omar, S. Fenwick, and A. G. Mukti. 2012. *South East Asia One Health University Network (SEAOHUN): A Regional Network for One Health Capacity Building*. Presented at the EcoHealth 2012 Conference, Kunming, China, October 15–18, 2012. Vietnam: South East Asia One Health University Network. <https://cgspace.cgiar.org/items/f7d21d5a-7b51-4154-981f-5158b17f68b2>.
- Nguyen-Viet, H., S. Lam, H. Nguyen-Mai, D. T. Trang, V. T. Phuong, N. D. A. Tuan, et al. 2022. “Decades of Emerging Infectious Disease, Food Safety, and Antimicrobial Resistance Response in Vietnam: The Role of One Health.” *One Health* 14: 100361. <https://doi.org/10.1016/j.onehlt.2021.100361>.
- Nicholson, A., C. M. Shah, and V. A. Ogawa. 2019. *Exploring Lessons Learned from a Century of Outbreaks: Readiness for 2030: Proceedings of a Workshop*. Washington, DC: The National Academies Press. <https://nap.nationalacademies.org/catalog/25391/exploring-lessons-learned-from-a-century-of-outbreaks-readiness-for>.
- Niederwerder, M. C. 2021. “Risk and Mitigation of African Swine Fever Virus in Feed.” *Animals (Basel)* 11(3): 792. <https://doi.org/10.3390/ani11030792>.
- NIH (National Institutes of Health). 2022. *Origins of Coronaviruses*. March 16, 2022. <https://www.niaid.nih.gov/diseases-conditions/origins-coronaviruses> (accessed October 6, 2023).
- Nijman, V. 2010. “An Overview of International Wildlife Trade from Southeast Asia.” *Biodiversity and Conservation* 19(4): 1101–1114. <https://doi.org/10.1007/s10531-009-9758-4>.
- Nizamuddin, Q., and S. A. Rahman. 2019. “Animal Welfare in Asia: Specific Flaws and Strengths, Future Trends and Objectives.” In *Animal Welfare: From Science to Law*, S. Hild and L. Schweitzer, eds., pp. 109–118. Paris: La Fondation Droit Animal, Éthique et Sciences. <https://www.fondation-droit-animal.org/documents/AnimalWelfare2019.v1.pdf>.
- National Parks Board Singapore. n.d. Who We Are. <https://www.nparks.gov.sg/avs/who-we-are/about-avs/who-we-are> (accessed April 2, 2024).
- NRC (National Research Council). 2007. *The New Science of Metagenomics: Revealing the Secrets of Our Microbial Planet*. Washington, DC: The National Academies Press. <https://nap.nationalacademies.org/catalog/11902/the-new-science-of-metagenomics-revealing-the-secrets-of-our>.
- NRC. 2009. *Science and Decisions: Advancing Risk Assessment*. Washington, DC: The National Academies Press. <https://doi.org/10.17226/12209>.
- Nsubuga, P., M. E. White, S. B. Thacker, M. A. Anderson, S. B. Blount, C. V. Broome, et al. 2006. “Public Health Surveillance: A Tool for Targeting and Monitoring Interventions.” In *Disease Control Priorities in Developing Countries*, 2nd edition, D. T. Jamison, J. G. Breman, A. R. Measham, G. Alleyne, M. Claeson, D. B. Evans, et al., eds., ch. 53. Washington, DC: International Bank for Reconstruction and Development/World Bank. Copublished by Oxford University Press, New York. <https://www.ncbi.nlm.nih.gov/books/NBK11770/>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- NSW (New South Wales) Government. 2022. *NSW Koala Strategy – Towards Doubling the Number of Koalas in New South Wales by 2050*. Parramatta, New South Wales: Environment and Heritage Group Department of Planning and Environment, on behalf of NSW Government. <https://www.environment.nsw.gov.au/-/media/OEH/Corporate-Site/Documents/Animals-and-plants/Threatened-species/koala-strategy-2022-220075.pdf>.
- Nzietchueng, S., A. Kitua, T. Nyatanyi, and I. B. Rwego. 2023. “Facilitating Implementation of the One Health Approach: A Definition of a One Health Intervention.” *One Health* 16: 1–4. <https://doi.org/10.1016/j.onehlt.2023.100491>.
- Oberin, M., A. Hillman, M. P. Ward, C. Holley, S. Firestone, and B. Cowled. 2022. “The Potential Role of Wild Suids in African Swine Fever Spread in Asia and the Pacific Region.” *Viruses* 15(1): 61. <https://doi.org/10.3390/v15010061>.
- OECD/FAO (Organisation for Economic Cooperation and Development/Food and Agricultural Organization of the United Nations). 2017. *OECD-FAO Agricultural Outlook 2017–2026*. Paris: OECD Publishing. https://doi.org/10.1787/agr_outlook-2017-en.
- OECD/FAO. 2022. *OECD-FAO Agricultural Outlook 2022–2031*. Paris: OECD Publishing. <https://doi.org/10.1787/flb0b29c-en>.
- Offeddu, V., B. J. Cowling, and J. S. Malik Peiris. 2016. “Interventions in Live Poultry Markets for the Control of Avian Influenza: A Systematic Review.” *One Health* 2: 55–64. <https://doi.org/10.1016/j.onehlt.2016.03.002>.
- OHHLEP (One Health High Level Expert Panel): Dar, O., C. Machalaba, W. B. Adisasmito, S. Almuhaire, C. B. Behravesh, P. Bilivogui, et al. 2022a. *One Health Theory of Change*. <https://www.who.int/publications/m/item/one-health-theory-of-change> (accessed January 20, 2024).
- OHHLEP: Adisasmito, W. B., S. Almuhaire, C. B. Behravesh, P. Bilivogui, S. A. Bukachi, N. Casas, et al. 2022b. “One Health: A New Definition for a Sustainable and Healthy Future.” *PLOS Pathogens* 18(6): e1010537. <https://doi.org/10.1371/journal.ppat.1010537>.
- OHHLEP: Markotter, W., T. C. Mettenleiter, W. B. Adisasmito, S. Almuhaire, C. B. Behravesh, P. Bilivogui, et al. 2023. “Prevention of Zoonotic Spillover: From Relying on Response to Reducing the Risk at Source.” *PLOS Pathogens* 19(10): e1011504. <https://doi.org/10.1371/journal.ppat.1011504>.
- Olival, K. J., and D. T. Hayman. 2014. “Filoviruses in Bats: Current Knowledge and Future Directions.” *Viruses* 6(4): 1759–1788. <https://doi.org/10.3390/v6041759>.
- One Health Commission. 2018. *A Guide for Developing One Health Lessons for K–12*. https://www.onehealthcommission.org/documents/filelibrary/resources/Guide_to_Developing_K12_One_Health_AE95AD314CD45.pdf (accessed January 16, 2024).
- Openshaw, J. J., S. Hegde, H. M. S. Sazzad, S. U. Khan, M. J. Hossain, J. H. Epstein, et al. 2017. “Bat Hunting and Bat-Human Interactions in Bangladeshi Villages: Implications for Zoonotic Disease Transmission and Bat Conservation.” *Transboundary and Emerging Diseases* 64(4): 1287–1293. <https://doi.org/10.1111/tbed.12505>.
- Ortega, A. D. S., M. A. Mujitaba, S. Xayalath, W. Gutierrez, A. C. Soriano, and C. Szabó. 2021. “Perspectives of the Livestock Sector in the Philippines: A Review.” *Acta Agraria Debreceniensis* 1: 175–188. <https://doi.org/10.34101/actaagrar/1/9101>.
- Osbyer, K., S. Boqvist, S. Sokerya, C. Kannarath, S. San, H. Davun, et al. 2015. “Household Practices Related to Disease Transmission between Animals and Humans in Rural Cambodia.” *BMC Public Health* 15(1): 476. <https://doi.org/10.1186/s12889-015-1811-5>.
- Osofsky, S. A., S. Lieberman, C. Walzer, H. L. Lee, and L. A. Neme. 2023. “An Immediate Way to Lower Pandemic Risk: (Not) Seizing the Low-Hanging Fruit (Bat).” *Lancet Planetary Health* 7(6): e518–e526. [https://doi.org/10.1016/S2542-5196\(23\)00077-3](https://doi.org/10.1016/S2542-5196(23)00077-3).
- Oura, C. A., P. P. Powell, E. Anderson, and R. M. Parkhouse. 1998. “The Pathogenesis of African Swine Fever in the Resistant Bushpig.” *Journal of General Virology* 79(6): 1439–1443. <https://doi.org/10.1099/0022-1317-79-6-1439>.
- Oyas, H., L. Holmstrom, N. P. Kemunto, M. Muturi, A. Mwatondo, E. Osoro, et al. 2018. “Enhanced Surveillance for Rift Valley Fever in Livestock During El Niño Rains and Threat of RVF Outbreak, Kenya, 2015–2016.” *PLOS Neglected Tropical Diseases* 12(4): 1–15. <https://doi.org/10.1371/journal.pntd.0006353>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Palmer, J., and D. Duclos. 2023. *Key Considerations: Community-Based Surveillance in Public Health*. Social Science in Humanitarian Action (SSHAP). <https://www.socialscienceinaction.org/resources/key-considerations-community-based-surveillance-in-public-health/> (accessed March 12, 2024).
- Palmer, M. V., M. Martins, S. Falkenberg, A. Buckley, L. C. Caserta, P. K. Mitchell, et al. 2021. “Susceptibility of White-Tailed Deer (*Odocoileus virginianus*) to SARS-CoV-2.” *Journal of Virology* 95(11). <https://doi.org/10.1128/JVI.00083-21>.
- Pan, Y., X. Tian, P. Qin, B. Wang, P. Zhao, Y. L. Yang, et al. 2017. “Discovery of a Novel Swine Enteric Alphacoronavirus (SeACoV) in Southern China.” *Veterinary Microbiology* 211: 15–21. <https://doi.org/10.1016/j.vetmic.2017.09.020>.
- Panorama. n.d. Technology. <https://panorama.solutions/en/building-block/technology>. (accessed March 2, 2024).
- Pao, H. N., E. Jackson, T. S. Yang, J. S. Tsai, W. H. T. Sung, and D. U. Pfeiffer. 2022. “Determinants of Farmers’ Biosecurity Mindset: A Social-Ecological Model Using Systems Thinking.” *Frontiers in Veterinary Science* 9: 959934. <https://doi.org/10.3389/fvets.2022.959934>.
- Parkes, M. W., L. Bienen, J. Breilh, L. Hsu, M. McDonald, J. A. Patz, et al. 2005. “All Hands on Deck: Transdisciplinary Approaches to Emerging Infectious Disease.” *EcoHealth* 2: 258–272. <https://doi.org/10.1007/s10393-005-8387-y>.
- Parveen, S., M. S. Islam, M. Begum, M. Alam, H. M. S. Sazzad, R. Sultana, et al. 2016. “It’s Not Only What You Say, It’s Also How You Say It: Communicating Nipah Virus Prevention Messages During an Outbreak in Bangladesh.” *BMC Public Health* 16: 1–11. <https://doi.org/10.1186/s12889-016-3416-z>.
- Paton, N. I., Y. S. Leo, S. R. Zaki, A. P. Auchus, K. E. Lee, A. E. Ling, et al. 1999. “Outbreak of Nipah-Virus Infection among Abattoir Workers in Singapore.” *Lancet* 354(9186): 1253–1256. [https://doi.org/10.1016/S0140-6736\(99\)04379-2](https://doi.org/10.1016/S0140-6736(99)04379-2).
- Peng, M. S., J. B. Li, Z. F. Cai, H. Liu, X. Tang, R. Ying, et al. 2021. “The High Diversity of SARS-CoV-2-Related Coronaviruses in Pangolins Alerts Potential Ecological Risks.” *Zoological Research* 42(6): 834–844. <https://doi.org/10.24272/j.issn.2095-8137.2021.334>.
- People Not Poaching. 2022. *Engaging Communities to Tackle Illegal Wildlife Trade – Lessons from Southeast Asia, South America and sub-Saharan Africa*. London: International Institute for Environment and Development, International Union of Conservation of Nature Sustainable Use and Livelihoods Specialist Group. <https://www.iied.org/21021g>.
- Pepin, K. M., S. Lass, J. R. Pulliam, A. F. Read, and J. O. Lloyd-Smith. 2010. “Identifying Genetic Markers of Adaptation for Surveillance of Viral Host Jumps.” *Nature Reviews Microbiology* 8(11): 802–813. <https://doi.org/10.1038/nrmicro2440>.
- Petersen, E., G. Vesco, S. Villari, and W. Buffolano. 2010. “What Do We Know About Risk Factors for Infection in Humans with *Toxoplasma Gondii* and How Can We Prevent Infections?” *Zoonoses Public Health* 57(1): 8–17. <https://doi.org/10.1111/j.1863-2378.2009.01278.x>.
- Peterson, A. T., J. T. Bauer, and J. N. Mills. 2004. “Ecologic and Geographic Distribution of Filovirus Disease.” *Emerging Infectious Diseases* 10(1): 40–47. <https://doi.org/10.3201/eid1001.030125>.
- Pham, T. T., H. T. K. Tang, N. T. K. Nguyen, P. H. Dang, A. T. V. Nguyen, A. T. T. Nguyen, et al. 2022. “COVID-19 Impacts, Opportunities and Challenges for Wildlife Farms in Binh Duong and Ba Ria Vung Tau, Vietnam.” *Global Ecology and Conservation* 40: e02314. <https://doi.org/10.1016/j.gecco.2022.e02314>.
- PhilOHUN (Philippine One Health University Network). n.d. Who Are We? <https://www.philohun.org/about-us> (accessed March 1, 2024).
- Phommasack, B., C. Jiraphongsa, M. K. Oo, K. C. Bond, N. Phaholyothin, R. Suphanchaimat, et al. 2013. “Mekong Basin Disease Surveillance (MBDS): A Trust-Based Network.” *Emerging Health Threats Journal* 6(1): 1-9. <https://doi.org/10.3402/ehth.v6i0.19944>.
- Phongmany, S., J. M. Rolain, R. Phetsouvanh, S. D. Blacksell, V. Soukkhaseum, B. Rasachack, et al. 2006. “Rickettsial Infections and Fever, Vientiane, Laos.” *Emerging Infectious Diseases* 12(2): 256–262. <https://doi.org/10.3201/eid1202.050900>.
- Pickering, B., O. Lung, F. Maguire, P. Kruczkiewicz, J. D. Kotwa, T. Buchanan, et al. 2022. “Divergent SARS-CoV-2 Variant Emerges in White-Tailed Deer with Deer-to-Human Transmission.” *Nature Microbiology* 7(12): 2011–2024. <https://doi.org/10.1038/s41564-022-01268-9>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Pillai, N., M. Ramkumar, and B. Nanduri. 2022. “Artificial Intelligence Models for Zoonotic Pathogens: A Survey.” *Microorganisms* 10(10): 1911. <https://doi.org/10.3390/microorganisms10101911>.
- Pinto, J., R. B. Dissanayake, N. Dhand, C. Rojo-Gimeno, L. C. Falzon, H. Akwar, et al. 2023. “Development of Core Competencies for Field Veterinary Epidemiology Training Programs.” *Frontiers in Veterinary Sciences* 10: 1143375. <https://doi.org/10.3389/fvets.2023.1143375>.
- Pisanic, N., P. R. Randad, K. Kruczynski, Y. C. Manabe, D. L. Thomas, A. Pekosz, et al. 2020. “COVID-19 Serology at Population Scale: SARS-CoV-2-Specific Antibody Responses in Saliva.” *Journal of Clinical Microbiology* 59:10.1128/jcm.02204-20. <https://doi.org/10.1128/jcm.02204-20>.
- Plowright, R. K., P. Eby, P. J. Hudson, I. L. Smith, D. Westcott, W. L. Bryden, et al. 2015. “Ecological Dynamics of Emerging Bat Virus Spillover.” *Proceedings of the Royal Society Biological Sciences* 282(1798): 1-9. <https://doi.org/10.1098/rspb.2014.2124>.
- Plowright, R. K., C. R. Parrish, H. McCallum, P. J. Hudson, A. I. Ko, A. L. Graham, et al. 2017. “Pathways to Zoonotic Spillover.” *Nature Reviews Microbiology* 15(8): 502–510. <https://doi.org/10.1038/nrmicro.2017.45>.
- Plowright, R. K., D. J. Becker, H. McCallum, and K. R. Manlove. 2019. “Sampling to Elucidate the Dynamics of Infections in Reservoir Hosts.” *Philosophical Transactions of the Royal Society Biological Sciences* 374(1782): 20180336. <https://doi.org/10.1098/rstb.2018.0336>.
- Plowright, R. K., J. K. Reaser, H. Locke, S. J. Woodley, J. A. Patz, D. J. Becker, et al. 2021. “Land Use-Induced Spillover: A Call to Action to Safeguard Environmental, Animal, and Human Health.” *Lancet Planetary Health* 5(4): e237–e245. [https://doi.org/10.1016/S2542-5196\(21\)00031-0](https://doi.org/10.1016/S2542-5196(21)00031-0).
- Plowright, R. K., and P. J. Hudson. 2021. “From Protein to Pandemic: The Transdisciplinary Approach Needed to Prevent Spillover and the Next Pandemic.” *Viruses* 13(7). <https://doi.org/10.3390/v13071298>.
- Plowright, R. K., A. N. Ahmed, T. Coulson, T. W. Crowther, I. Ejotre, C. L. Faust, et al. 2024. “Ecological Countermeasures to Prevent Pathogen Spillover and Subsequent Pandemics.” *Nature Communications* 15(1): 2577. <https://doi.org/10.1038/s41467-024-46151-9>.
- Pongmala, K., A. Pierret, P. Oliva, A. Pando, V. Davong, S. Rattanavong, et al. 2022. “Distribution of *Burkholderia pseudomallei* within a 300-cm Deep Soil Profile: Implications for Environmental Sampling.” *Scientific Reports* 12(1): 8674. <https://doi.org/10.1038/s41598-022-12795-0>.
- Possas, C., E. T. A. Marques, J. B. Risi Jr., and A. Homma. 2021. “COVID-19 and Future Disease X in Circular Economy Transition: Redesigning Pandemic Preparedness to Prevent a Global Disaster.” *Circular Economy and Sustainability* 1(4): 1463–1478. <https://doi.org/10.1007/s43615-021-00060-x>.
- Prabowo, F. S. A., R. A. Rahadi, and D. T. Alamanda. 2017. “Decomposing the Problems of Traditional Markets Business Ecosystem in Indonesia.” *International Journal of Public Sector Performance Management* 3(4): 375–397. <https://doi.org/10.1504/IJPSPM.2017.087657>.
- Praphasiri, P., J. T. Owusu, S. Thammathitiwat, D. Ditsungnoen, P. Boonmongkon, O. Sangwichian, et al. 2015. “*Streptococcus suis* Infection in Hospitalized Patients, Nakhon Phanom Province, Thailand.” *Emerging Infectious Diseases* 21(2): 345–348. <https://doi.org/10.3201/eid2102.140961>.
- PREZODE. 2022. The One Health: A Holistic Approach. Last modified: October 18, 2023. <https://prezode.org/about/the-one-health> (accessed April 10, 2024).
- Prime Minister of Vietnam. 2020. “Directive No. 29/CT-TTg Dated 23 July 2020 of the Prime Minister on a Number of Urgent Solutions for Wildlife Management.” Unofficial translation. <https://faolex.fao.org/docs/pdf/vie207689EN.pdf>.
- Prost, K., H. Kloeze, S. Mukhi, K. Bozek, Z. Poljak, and S. Mubareka. 2019. “Bioaerosol and Surface Sampling for the Surveillance of Influenza a Virus in Swine.” *Transboundary and Emerging Diseases* 66(3): 1210–1217. <https://doi.org/10.1111/tbed.13139>.
- Pruvot, M., E. Denstedt, A. Latinne, A. Porco, D. Montecino-Latorre, K. Khammavong, et al. 2023. “Wildhealthnet: Supporting the Development of Sustainable Wildlife Health Surveillance Networks in Southeast Asia.” *Science of the Total Environment* 863: 160748. <https://doi.org/10.1016/j.scitotenv.2022.160748>.
- Pruvot, M., K. Khammavong, P. Milavong, C. Philavong, D. Reinharz, M. Mayxay, et al. 2019. “Toward a Quantification of Risks at the Nexus of Conservation and Health: The Case of Bushmeat Markets in Lao PDR.” *Science of the Total Environment* 676: 732–745. <https://doi.org/10.1016/j.scitotenv.2019.04.266>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Pulliam, J. R., J. H. Epstein, J. Dushoff, S. A. Rahman, M. Bunning, A. A. Jamaluddin, et al. 2012. “Agricultural Intensification, Priming for Persistence and the Emergence of Nipah Virus: A Lethal Bat-Borne Zoonosis.” *Journal of the Royal Society Interface* 9(66): 89–101. <https://doi.org/10.1098/rsif.2011.0223>.
- Puro, K., and A. Sen. 2022. “Newcastle Disease in Backyard Poultry Rearing in the Northeastern States of India: Challenges and Control Strategies.” *Frontiers in Veterinary Science* 9: 799813. <https://doi.org/10.3389/fvets.2022.799813>.
- Qasmieh, S. A., M. M. Robertson, and D. Nash. 2023. “‘Boosting’ Surveillance for a More Impactful Public Health Response during Protracted and Evolving Infectious Disease Threats: Insights from the COVID-19 Pandemic.” *Health Security* 21(S1): S47–S55. <https://doi.org/10.1089/hs.2023.0046>.
- Qin, D. 2019. “Next-Generation Sequencing and Its Clinical Application.” *Cancer Biology & Medicine* 16(1): 4–10. <https://doi.org/10.20892/j.issn.2095-3941.2018.0055>.
- Quarleri, J., V. Galvan, and M. V. Delpino. 2022. “Henipaviruses: An Expanding Global Public Health Concern?” *GeroScience* 44(5): 2447–2459. <https://doi.org/10.1007/s11357-022-00670-9>.
- Qureshi, R., M. Irfan, T. M. Gondal, S. Khan, J. Wu, M. U. Hadi, et al. 2023. “AI in Drug Discovery and Its Clinical Relevance.” *Heliyon* 9(7): e17575. <https://doi.org/10.1016/j.heliyon.2023.e17575>.
- Rabinowitz, P. M., B. J. Natterson-Horowitz, L. H. Kahn, R. Kock, and M. Pappaioanou. 2017. “Incorporating One Health into Medical Education.” *BMC Medical Education* 17: 1–7. <https://bmcmededuc.biomedcentral.com/articles/10.1186/s12909-017-0883-6>.
- Radin, E., and C. Eleftheriades. 2021. *Financing Pandemic Preparedness and Response: Background Paper 14*. Commissioned by the Independent Panel for Pandemic Preparedness and Response. <https://theindependentpanel.org/wp-content/uploads/2021/05/Background-Paper-14-Financing-Pandemic-Preparedness-and-Response.pdf>.
- Rahman, M. A., M. J. Hossain, S. Sultana, N. Homaira, S. U. Khan, M. Rahman, et al. 2012. “Date Palm Sap Linked to Nipah Virus Outbreak in Bangladesh, 2008.” *Vector Borne Zoonotic Diseases* 12(1): 65–72. <https://doi.org/10.1089/vbz.2011.0656>.
- Rahman, A. U., K. Dhama, Q. Ali, I. Hussain, M. Oneeb, U. Chaudhary, et al. 2020a. “Peste Des Petits Ruminants in Large Ruminants, Camels and Unusual Hosts.” *Veterinary Quarterly* 40(1): 35–42. <https://doi.org/10.1080/01652176.2020.1714096>.
- Rahman, A. U., K. Dhama, Q. Ali, M. A. Raza, U. Chaudhry, and M. Z. Shabbir. 2020b. “Foot and Mouth Disease in a Wide Range of Wild Hosts: A Potential Constraint in Disease Control Efforts Worldwide Particularly in Disease-Endemic Settings.” *Acta Tropica* 210: 105567. <https://doi.org/10.1016/j.actatropica.2020.105567>.
- Rahman, M. T., M. A. Sobur, M. S. Islam, S. Ievy, M. J. Hossain, M. E. El Zowalaty, et al. 2020. “Zoonotic Diseases: Etiology, Impact, and Control.” *Microorganisms* 8(9): 1405. <https://doi.org/10.3390/microorganisms8091405>.
- Rajendram, P., W. Mar Kyaw, Y. S. Leo, H. Ho, W. K. Chen, R. Lin, et al. 2016. “Group B *Streptococcus* Sequence Type 283 Disease Linked to Consumption of Raw Fish, Singapore.” *Emerging Infectious Diseases* 22(11): 1974–1977. <https://doi.org/10.3201/eid2211.160252>.
- Raji, Y. E., O. P. Toung, N. M. Taib, and Z. B. Sekawi. 2022. “Hepatitis E Virus: An Emerging Enigmatic and Underestimated Pathogen.” *Saudi Journal of Biological Sciences* 29(1): 499–512. <https://doi.org/10.1016/j.sjbs.2021.09.003>.
- Ramesh, A., E. S. Bailey, V. Ahyong, C. Langelier, M. Phelps, N. Neff, et al. 2021. “Metagenomic Characterization of Swine Slurry in a North American Swine Farm Operation.” *Scientific Reports* 11(1): 16994. <https://doi.org/10.1038/s41598-021-95804-y>.
- Ramey, A. M., N. J. Hill, T. J. DeLiberto, S. E. J. Gibbs, M. Camille Hopkins, A. S. Lang, et al. 2022. “Highly Pathogenic Avian Influenza Is an Emerging Disease Threat to Wild Birds in North America.” *The Journal of Wildlife Management* 86(2): e22171. <https://doi.org/10.1002/jwmg.22171>.
- Ratyotha, K., S. Prakobwong, and S. Piratae. 2022. “Lumpy Skin Disease: A Newly Emerging Disease in Southeast Asia.” *Veterinary World* 15(12): 2764–2771. <https://doi.org/10.14202/vetworld.2022.2764-2771>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Razavi, A., S. Collins, A. Wilson, and E. Okereke. 2021. "Evaluating Implementation of International Health Regulations Core Capacities: Using the Electronic States Parties Self-Assessment Annual Reporting Tool (e-SPAR) to Monitor Progress with Joint External Evaluation Indicators." *Globalization and Health* 17(1): 2-7. <https://doi.org/10.1186/s12992-021-00720-5>.
- Ready, P. D. 2014. "Epidemiology of Visceral Leishmaniasis." *Clinical Epidemiology* 6: 147–154. <https://doi.org/10.2147/CLEP.S44267>.
- Reaser, J. K., B. E. Hunt, M. Ruiz-Aravena, G. M. Tabor, J. A. Patz, D. Becker, et al. 2022. "Fostering Landscape Immunity to Protect Human Health: A Science-Based Rationale for Shifting Conservation Policy Paradigms." *Conservation Letters* 15(3): e12869. <https://doi.org/ARTN>.
- Rehn, A., P. Braun, M. Knupfer, R. Wolfel, M. H. Antwerpen, and M. C. Walter. 2021. "Catching SARS-CoV-2 by Sequence Hybridization: A Comparative Analysis." *mSystems* 6(4): e0039221. <https://doi.org/10.1128/mSystems.00392-21>.
- Reithinger, R. 2016. "Global Burden of Cutaneous Leishmaniasis." *Lancet Infectious Diseases* 16(9): 1004–1005. [https://doi.org/10.1016/S1473-3099\(16\)30195-5](https://doi.org/10.1016/S1473-3099(16)30195-5).
- Rejeb, A., K. Rejeb, A. Appolloni, H. Treiblmaier, and M. Iranmanesh. 2023. "Circular Economy Research in the COVID-19 Era: A Review and the Road Ahead." *Circular Economy and Sustainability* 3(4): 2127–2157. <https://doi.org/10.1007/s43615-023-00265-2>.
- Ren, X., P. Wu, L. Wang, M. Geng, L. Zeng, J. Zhang, et al. 2017. "Changing Epidemiology of Hepatitis A and Hepatitis E Viruses in China, 1990–2014." *Emerging Infectious Diseases* 23(2): 276–279. <https://doi.org/10.3201/2302.161095>.
- Republic of Singapore. 2021. The Animals and Birds Act (Chap. 7): Veterinary Conditions for the Importation of Zoological Animals and Birds (8/9) in the Order Primates (1/1). https://www.nparks.gov.sg/-/media/avs/migrated-content/animals-and-pets/bringing-animals-into-singapore-and-exporting/import-export-other-animals/veterinary-conditions_zoo-nhp--wef-1-july-2021.ashx.
- Republic of the Philippines, Department of Health, Research Institute for Tropical Medicine. n.d. About Us. <https://ritm.gov.ph/> (accessed April 3, 2024).
- Reuter, G., A. Boros, and P. Pankovics. 2020. "Review of Hepatitis E Virus in Rats: Evident Risk of Species Orthohepevirus C to Human Zoonotic Infection and Disease." *Viruses* 12(10). <https://doi.org/10.3390/v12101148>.
- Riedel, S. 2006. "Crossing the Species Barrier: The Threat of an Avian Influenza Pandemic." *Baylor University Medical Center Proceedings* 19(1): 16–20. <https://doi.org/10.1080/08998280.2006.11928118>.
- Rishan, S. T., R. J. Kline, and M. S. Rahman. 2023. "Applications of Environmental DNA (eDNA) to Detect Subterranean and Aquatic Invasive Species: A Critical Review on the Challenges and Limitations of eDNA Metabarcoding." *Environmental Advances* 12: 100370. <https://doi.org/10.1016/j.envadv.2023.100370>.
- Rivera, S. N., A. Knight, and S. P. McCulloch. 2021. "Surviving the Wildlife Trade in Southeast Asia: Reforming the 'Disposal' of Confiscated Live Animals under CITES." *Animals* 11(2): 439. <https://doi.org/10.3390/ani11020439>.
- Roesel, K., and D. Grace. 2015. *Food Safety and Informal Markets: Animal Products in Sub-Saharan Africa*. New York: Routledge.
- Rohr, J. R., C. B. Barrett, D. J. Civitello, M. E. Craft, B. Delius, G. A. DeLeo, et al. 2019. "Emerging Human Infectious Diseases and the Links to Global Food Production." *Nature Sustainability* 2(6): 445–456. <https://doi.org/10.1038/s41893-019-0293-3>.
- Rose, D. C., W. J. Sutherland, A. P. Barnes, F. Borthwick, C. Ffoulkes, C. Hall, et al. 2019. "Integrated Farm Management for Sustainable Agriculture: Lessons for Knowledge Exchange and Policy." *Land Use Policy* 81: 834–842. <https://doi.org/10.1016/j.landusepol.2018.11.001>.
- Ross, A. G. P., R. M. Olveda, L. Acosta, D. A. Harn, D. Chy, Y. Li, et al. 2013. "Road to the Elimination of Schistosomiasis from Asia: The Journey Is Far from Over." *Microbes and Infection* 15(13): 858–865. <https://doi.org/10.1016/j.micinf.2013.07.010>.
- Rothan, H. A., and S. N. Byrareddy. 2020. "The Epidemiology and Pathogenesis of Coronavirus Disease (COVID-19) Outbreak." *Journal of Autoimmunity* 109: 102433. <https://doi.org/10.1016/j.jaut.2020.102433>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Roux, S., J. Matthijssens, and B. E. Dutilh. 2021. “Metagenomics in Virology.” *Encyclopedia of Virology* 1: 133–140. <https://doi.org/10.1016/B978-0-12-809633-8.20957-6>.
- Ru, Y. T., B. Blankespoor, U. Wood-Sichra, T. S. Thomas, L. Z. You, and E. Kalvelagen. 2023. “Estimating Local Agricultural Gross Domestic Product (AgGDP) across the World.” *Earth System Science Data* 15(3): 1357–1387. <https://doi.org/10.5194/essd-15-1357-2023>.
- Ruegg, S. R., L. R. Nielsen, S. C. Buttigieg, M. Santa, M. Aragrande, M. Canali, et al. 2018. “A Systems Approach to Evaluate One Health Initiatives.” *Frontiers in Veterinary Science* 5: 1–18. <https://doi.org/10.3389/fvets.2018.00023>.
- Ruiz, M., A. Puig, M. Bassols, L. Fraile, and R. Armengol. 2022. “Influenza D Virus: A Review and Update of Its Role in Bovine Respiratory Syndrome.” *Viruses* 14(12). <https://doi.org/10.3390/v14122717>.
- Runstadler, J. A., and W. Puryear. 2020. “A Brief Introduction to Influenza A Virus in Marine Mammals.” In *Animal Influenza Virus: Methods in Molecular Biology*, vol. 2123, E. Spackman, ed., pp. 429–450. New York: Humana. https://doi.org/10.1007/978-1-0716-0346-8_33.
- Rush, E. R., E. Dale, and A. A. Aguirre. 2021. “Illegal Wildlife Trade and Emerging Infectious Diseases: Pervasive Impacts to Species, Ecosystems and Human Health.” *Animals* 11(6): 1821. <https://doi.org/10.3390/ani11061821>.
- Rushton, J. 2011. *A Value Chain Approach to Animal Diseases Risk Management: Technical Foundations and Practical Framework for Field Application*. Animal Production and Health Guidelines, No. 4. Rome: Food and Agriculture Organization of the United Nations. <https://www.fao.org/3/i2198e/i2198e.pdf>.
- Saba Villarroel, P. M., N. Gumpangseth, T. Songhong, S. Yainoy, A. Monteil, P. Leaugwutiwong, et al. 2023. “Emerging and Re-Emerging Zoonotic Viral Diseases in Southeast Asia: One Health Challenge.” *Frontiers in Public Health* 11: 1141483. <https://doi.org/10.3389/fpubh.2023.1141483>.
- Sabah State Government, Universiti Malaysia Sabah, and Japan International Cooperation Agency. n.d. *Sabah Biodiversity Strategy 2012–2022*. <https://sabc.sabah.gov.my/sites/default/files/uploads/attachments/2020-05/Sabah-Biodiversity-Conservation-Strategy.pdf> (accessed April 10, 2024).
- Saif, L. J., Q. Wang, A. N. Vlasova, K. Jung, and S. Xiao. 2019. “Coronaviruses.” In *Diseases of Swine*, J. J. Zimmerman, L. A. Karriker, A. Ramirez, K. J. Schwartz, G. W. Stevenson, and J. Zhang, eds., pp. 488–523. Hoboken, NJ: John Wiley & Sons <https://doi.org/10.1002/9781119350927.ch31>.
- Salerno, J., N. Ross, R. Ghai, M. Mahero, D. A. Travis, T. R. Gillespie, et al. 2017. “Human-Wildlife Interactions Predict Febrile Illness in Park Landscapes of Western Uganda.” *EcoHealth* 14(4): 675–690. <https://doi.org/10.1007/s10393-017-1286-1>.
- Sattabongkot, J., L. Cui, S. Bantuchai, S. Chotirat, J. Kaewkungwal, A. Khamsiriwatchara, et al. 2022. “Malaria Research for Tailored Control and Elimination Strategies in the Greater Mekong Subregion.” *American Journal of Tropical Medicine and Hygiene* 107(4): 152–159. <https://doi.org/10.4269/ajtmh.21-1268>.
- Schar, D., Z. Zhang, J. Pires, B. Vrancken, M. A. Suchard, P. Lemey, et al. 2023. “Dispersal History and Bidirectional Human-Fish Host Switching of Invasive, Hypervirulent *Streptococcus agalactiae* Sequence Type 283.” *PLOS Global Public Health* 3(10): e0002454. <https://doi.org/10.1371/journal.pgph.0002454>.
- Schwarze, K., J. Buchanan, J. M. Fermont, H. Dreau, M. W. Tilley, J. M. Taylor, et al. 2020. “The Complete Costs of Genome Sequencing: A Microcosting Study in Cancer and Rare Diseases from a Single Center in the United Kingdom.” *Genetics in Medicine* 22(1): 85–94. <https://doi.org/10.1038/s41436-019-0618-7>.
- Sealy, J. E., G. Fournie, P. H. Trang, N. H. Dang, J. R. Sadeyen, T. L. Thanh, et al. 2019. “Poultry Trading Behaviours in Vietnamese Live Bird Markets as Risk Factors for Avian Influenza Infection in Chickens.” *Transboundary and Emerging Diseases* 66(6): 2507–2516. <https://doi.org/10.1111/tbed.13308>.
- SEAOHUN (Southeast Asia One Health University Network). n.d. Who We Are (accessed February 25, 2024). <https://www.seaohun.org/who-we-are>.
- SEAOHUN. 2021. “Preparing the Next Generation of One Health Workforce.” *News & Updates*, February 4, 2021. (accessed March 17, 2024). <https://www.seaohun.org/single-post/preparing-the-next-generation-of-one-health-workforce>.
- Seffren, V., S. Lowther, M. Guerra, M. H. Kinzer, R. Turcios-Ruiz, A. Henderson, et al. 2022. “Strengthening the Global One Health Workforce: Veterinarians in CDC-Supported Field Epidemiology Training Programs.” *One Health* 14: 1–7. <https://doi.org/10.1016/j.onehlt.2022.100382>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Segura, M., V. Aragon, S. L. Brockmeier, C. Gebhart, A. de Greeff, A. Kerdsin, et al. 2020. “Update on *Streptococcus suis* Research and Prevention in the Era of Antimicrobial Restriction: 4th International Workshop on *S. suis*.” *Pathogens* 9(5): 374. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7281350/>.
- Seifman, R. 2023. “How Artificial Intelligence Could Help Advance One Health.” *Impakter*, February 25, 2023. <https://impakter.com/artificial-intelligence-tools-chatgpt-help-one-health/> (accessed April 2, 2024).
- Seneviratne, K. 2020. “‘Wet Markets’ a Crucial Part of Asian Economies.” *China Daily Global*. Updated: April 29, 2020. <https://www.chinadaily.com.cn/a/202004/29/WS5ea8d13ca310a8b2411527c7.html> (accessed April 2, 2024).
- Seppa, N. 2009. “Low-Tech Approach Stifles High-Risk Nipah Virus.” *Science News*, November 21, 2009. <https://www.sciencenews.org/article/low-tech-approach-stifles-high-risk-nipah-virus>.
- Sethi, M. S., B. Singh, and M. P. Yadav. 1978. “Experimental Infection of *Coxiella burnetii* in Chicken: Clinical Symptoms, Serologic Response, and Transmission through Egg.” *Avian Diseases* 22(3): 391–395. <https://doi.org/10.2307/1589294>.
- Sethi, Y., N. Kaka, N. Patel, D. Roy, H. Chopra, and T. B. Emran. 2023. “Environmental Correlates of Infectious Diseases in South-East Asia: A Perspective on the Missed Link.” *New Microbes and New Infections* 53: 101118. <https://doi.org/10.1016/j.nmni.2023.101118>.
- Shairp, R., D. Verissimo, I. Fraser, D. Challender, and D. MacMillan. 2016. “Understanding Urban Demand for Wild Meat in Vietnam: Implications for Conservation Actions.” *PLOS ONE* 11(1): e0134787. <https://doi.org/10.1371/journal.pone.0134787>.
- Shantiko, B., N. Liswanti, R. Bourgeois, and Y. Laumonier. 2021. “Land-use Decisions in Complex Commons: Engaging Multiple Stakeholders through Foresight and Scenario Building in Indonesia.” *Environmental Management* 68(5): 642–664. <https://doi.org/10.1007/s00267-021-01470-1>.
- Sharan, M., D. Vijay, J. P. Yadav, J. S. Bedi, and P. Dhaka. 2023. “Surveillance and Response Strategies for Zoonotic Diseases: A Comprehensive Review.” *Science in One Health* 2: 100050. <https://doi.org/10.1016/j.soh.2023.100050>.
- Shearer, F. M., Z. Huang, D. J. Weiss, A. Wiebe, H. S. Gibson, K. E. Battle, et al. 2016. “Estimating Geographical Variation in the Risk of Zoonotic *Plasmodium knowlesi* Infection in Countries Eliminating Malaria.” *PLOS Neglected Tropical Diseases* 10(8): e0004915. <https://doi.org/10.1371/journal.pntd.0004915>.
- Sheikh, P. A., and K. C. O’Regan. 2021. *Wildlife Trade, COVID-19, and Other Zoonotic Diseases*. Congressional Research Service. <https://crsreports.congress.gov/product/pdf/IF/IF11494/6>.
- Shepherd, C. R. 2012. “Observations of Small Carnivores in Jakarta Wildlife Markets, Indonesia, with Notes on Trade in Javan Ferret Badger *Melogale orientalis* and on the Increasing Demand for Common Palm Civet *Paradoxurus hermaphroditus* for Civet Coffee Production.” *Small Carnivore Conservation* 47: 38–41. <https://www.semanticscholar.org/paper/Observations-of-small-carnivores-in-Jakarta-with-on-Shepherd/72530d44669f4de5c5855d9fc5aa4fcd61c4d0d9>.
- Shepherd, C. R., L. Gomez, and V. Nijman. 2020. “Illegal Wildlife Trade, Seizures and Prosecutions: A 7.5-Year Analysis of Trade in Pig-Nosed Turtles *Carettochelys insculpta* in and from Indonesia.” *Global Ecology and Conservation* 24: e01249. <https://mcsociety.org/2020/11/26/illegal-wildlife-trade-seizures-and-prosecutions-a-7-5-year-analysis-of-trade-in-pig-nosed-turtles-carettochelys-insculpta-in-and-from-indonesia/>.
- Shi, W., M. Shi, T. C. Que, X. M. Cui, R. Z. Ye, L. Y. Xia, et al. 2022. “Trafficked Malayan Pangolins Contain Viral Pathogens of Humans.” *Nature Microbiology* 7(8): 1259–1269. <https://doi.org/10.1038/s41564-022-01181-1>.
- SHIC (Swine Health Information Center). 2018. *Japanese Encephalitis Virus*. Updated: July 2021. Ames, IA: SHIC. <https://www.swinehealth.org/wp-content/uploads/2021/07/shic-factsheet-JEV-2021Jul25.pdf>.
- Short, K. R., M. Richard, J. H. Verhagen, D. van Riel, E. J. Schrauwen, J. M. van den Brand, et al. 2015. “One Health, Multiple Challenges: The Inter-Species Transmission of Influenza A Virus.” *One Health* 1: 1–13. <https://doi.org/10.1016/j.onehlt.2015.03.001>.
- Sieber, W. K., L. T. Stayner, R. Malkin, M. R. Petersen, M. J. Mendell, K. M. Wallingford, et al. 1996. “The National Institute for Occupational Safety and Health Indoor Environmental Evaluation Experience. Part Three: Associations between Environmental Factors and Self-Reported Health Conditions.” *Applied Occupational and Environmental Hygiene* 11(12): 1387–1392. <https://www.tandfonline.com/doi/abs/10.1080/1047322X.1996.10389435>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Siegrist, A. A., K. L. Richardson, R. R. Ghai, B. Pope, J. Yeadon, B. Culp, et al. 2023. “Probable Transmission of SARS-CoV-2 from African Lion to Zoo Employees, Indiana, USA, 2021.” *Emerging Infectious Diseases* 29(6): 1102–1108. <https://doi.org/10.3201/eid2906.230150>.
- Sila, T., J. Sunghan, W. Laochareonsuk, S. Surasombatpattana, C. Kongkamol, T. Ingviya, et al. 2022. “Suspected Cat-to-Human Transmission of SARS-CoV-2, Thailand, July–September 2021.” *Emerging Infectious Diseases* 28(7):1485–1488: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9239874/>.
- Simkin, R. D., K. C. Seto, R. I. McDonald, and W. Jetz. 2022. “Biodiversity Impacts and Conservation Implications of Urban Land Expansion Projected to 2050.” *Proceedings of the National Academy of Sciences of the United States of America* 119(12): e2117297119. <https://doi.org/10.1073/pnas.2117297119>.
- Simons, R. R., P. Gale, V. Horigan, E. L. Snary, and A. C. Breed. 2014. “Potential for Introduction of Bat-Borne Zoonotic Viruses into the EU: A Review.” *Viruses* 6(5): 2084–2121. <https://doi.org/10.3390/v6052084>.
- Singapore Food Agency. 2022. GBS and the Consumption of Raw Freshwater Fish. Last updated: May 4, 2022. <https://www.sfa.gov.sg/food-information/risk-at-a-glance/gbs-and-the-consumption-of-raw-fish> (accessed March 18, 2024).
- Singh, S., and D. R. Wassenaar. 2016. “Contextualising the Role of the Gatekeeper in Social Science Research.” *South African Journal of Bioethics and Law* 9(1): 42–46. <http://www.sajbl.org.za/index.php/sajbl/article/view/465>.
- Singh, S., C. McNab, R. M. Olson, N. Bristol, C. Nolan, E. Bergstrom, et al. 2021. “How an Outbreak Became a Pandemic: A Chronological Analysis of Crucial Junctures and International Obligations in the Early Months of the COVID-19 Pandemic.” *Lancet* 398(10316): 2109–2124. [https://doi.org/10.1016/S0140-6736\(21\)01897-3](https://doi.org/10.1016/S0140-6736(21)01897-3).
- Sitawa, R., E. Tenge, K. Chepkorir, M. Nanyingi, S. Okuthe, C. Lockhart, et al. 2023. “Building Subnational Capacities in Animal Health to Deliver Frontline Cross-Sectoral Health Services in Kenya.” *Frontiers in Veterinary Science* 10 (1150557): 1-10. <https://doi.org/10.3389/fvets.2023.1150557>.
- Sithithaworn, P., R. H. Andrews, V. D. Nguyen, T. Wongsaroj, M. Sinuon, P. Odermatt, et al. 2012. “The Current Status of *Opisthorchiasis* and *Clonorchiasis* in the Mekong Basin.” *Parasitology International* 61(1): 1–16. <https://doi.org/10.1016/j.parint.2011.08.014>.
- Skopec, M., H. Issa, J. Reed, and M. Harris. 2020. “The Role of Geographic Bias in Knowledge Diffusion: A Systematic Review and Narrative Synthesis.” *Research Integrity and Peer Review* 5(2): 1–14. <https://doi.org/10.1186/s41073-019-0088-0>.
- Smiley-Evans, T., L. Tutaryebwa, K. V. Gilardi, P. A. Barry, A. Marzi, M. Eberhardt, et al. 2018. “Suspected Exposure to Filoviruses among People Contacting Wildlife in Southwestern Uganda.” *International Journal of Infectious Diseases* 218(Suppl_5): S277–S286. <https://doi.org/10.1093/infdis/jiy251>.
- Smith, K. F., M. Behrens, L. M. Schloegel, N. Marano, S. Burgiel, and P. Daszak. 2009. “Ecology. Reducing the Risks of the Wildlife Trade.” *Science* 324(5927): 594–595. <https://doi.org/10.1126/science.1174460>.
- Snoeck, C. J., M. Marinelli, E. Charpentier, A. Sausy, T. Conzemius, S. Losch, et al. 2013. “Characterization of Newcastle Disease Viruses in Wild and Domestic Birds in Luxembourg from 2006 to 2008.” *Applied and Environmental Microbiology* 79(2): 639–645. <https://doi.org/10.1128/AEM.02437-12>.
- Sokolow, S. H., C. L. Wood, I. J. Jones, S. J. Swartz, M. Lopez, M. H. Hsieh, et al. 2016. “Global Assessment of Schistosomiasis Control over the Past Century Shows Targeting the Snail Intermediate Host Works Best.” *PLOS Neglected Tropical Diseases* 10(7): e0004794. <https://doi.org/10.1371/journal.pntd.0004794>.
- Sokolow, S. H., E. Huttinger, N. Jouanard, M. H. Hsieh, K. D. Lafferty, A. M. Kuris, et al. 2015. “Reduced Transmission of Human Schistosomiasis after Restoration of a Native River Prawn That Preys on the Snail Intermediate Host.” *Proceedings of the National Academy of Sciences of the United States of America* 112(31): 9650–9655. <https://doi.org/10.1073/pnas.1502651112>.
- Sosin, D. M., and J. DeThomasis. 2004. “Evaluation Challenges for Syndromic Surveillance—Making Incremental Progress.” *Morbidity and Mortality Weekly Report Supplement* 53: 125–129. <https://www.cdc.gov/mmwr/preview/mmwrhtml/su5301a25.htm>.
- SowjanyaKumari, S., N. Akshata, and V. Balamurugan. 2021. “Peste Des Petits Ruminants in Atypical Hosts and Wildlife: Systematic Review and Meta-Analysis of the Prevalence between 2001 and 2021.” *Archives of Razi Institute* 76(6): 1589. <https://doi.org/10.22092/ari.2021.356900.1939>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Sparrer, M. N., N. F. Hodges, T. Sherman, S. VandeWoude, A. M. Bosco-Lauth, and C. E. Mayo. 2023. "Role of Spillover and Spillback in SARS-CoV-2 Transmission and the Importance of One Health in Understanding the Dynamics of the COVID-19 Pandemic." *Journal of Clinical Microbiology* 61(7): e0161022. <https://doi.org/10.1128/jcm.01610-22>.
- Sprenger, G. 2005. "The Way of the Buffaloes: Trade and Sacrifice in Northern Laos." *Ethnology* 44(4): 291–312. <https://doi.org/10.2307/3774092>.
- Sprygin, A., Y. Pestova, D. B. Wallace, E. Tuppurainen, and A. V. Kononov. 2019. "Transmission of Lumpy Skin Disease Virus: A Short Review." *Virus Research* 269: 197637. <https://doi.org/10.1016/j.virusres.2019.05.015>.
- Sripa, B., J. M. Bethony, P. Sithithaworn, S. Kaewkes, E. Mairiang, A. Loukas, et al. 2011. "Opisthorchiasis and Opisthorchis-Associated Cholangiocarcinoma in Thailand and Laos." *Acta Tropica* 120(Suppl 1): S158–S168. <https://doi.org/10.1016/j.actatropica.2010.07.006>.
- Sripa, B., S. Kaewkes, P. M. Intapan, W. Maleewong, and P. J. Brindley. 2010. "Food-Borne Trematodiasis in Southeast Asia Epidemiology, Pathology, Clinical Manifestation and Control." *Advances in Parasitology* 72: 305–350. [https://doi.org/10.1016/S0065-308X\(10\)72011-X](https://doi.org/10.1016/S0065-308X(10)72011-X).
- Sripa, B., S. Tangkawattana, T. Laha, S. Kaewkes, F. F. Mallory, J. F. Smith, et al. 2015. "Toward Integrated Opisthorchiasis Control in Northeast Thailand: The Lawa Project." *Acta Tropica* 141: 361–367. <https://pubmed.ncbi.nlm.nih.gov/25102053/>.
- Stark, K. D., G. Regula, J. Hernandez, L. Knopf, K. Fuchs, R. S. Morris, et al. 2006. "Concepts for Risk-Based Surveillance in the Field of Veterinary Medicine and Veterinary Public Health: Review of Current Approaches." *BMC Health Services Research* 6: 20. <https://doi.org/10.1186/1472-6963-6-20>.
- Stephen, C. 2021. *A Rapid Review of Evidence on Managing the Risk of Disease Emergence in the Wildlife Trade*. Paris: World Animal Health Organization. https://www.woah.org/fileadmin/Home/eng/International_Standard_Setting/docs/pdf/WGWildlife/OIE_review_wildlife_trade_March2021.pdf.
- Stull, J. W., A. S. Peregrine, J. M. Sargeant, and J. S. Weese. 2013. "Pet Husbandry and Infection Control Practices Related to Zoonotic Disease Risks in Ontario, Canada." *BMC Public Health* 13: 520. <https://doi.org/10.1186/1471-2458-13-520>.
- Suminda, G. G. D., S. Bhandari, Y. Won, U. Goutam, K. Kanth Pulicherla, Y. O. Son, et al. 2022. "High-Throughput Sequencing Technologies in the Detection of Livestock Pathogens, Diagnosis, and Zoonotic Surveillance." *Computational and Structural Biotechnology Journal* 20: 5378–5392. <https://doi.org/10.1016/j.csbj.2022.09.028>.
- Sun, H., Y. Xiao, J. Liu, D. Wang, F. Li, C. Wang, et al. 2020. "Prevalent Eurasian Avian-Like H1N1 Swine Influenza Virus with 2009 Pandemic Viral Genes Facilitating Human Infection." *Proceedings of the National Academy of Sciences of the United States of America* 117(29): 17204–17210. <https://doi.org/10.1073/pnas.1921186117>.
- Suwarno, A., A. A. Nawir, and J. Kurniawan. 2009. "Participatory Modelling to Improve Partnership Schemes for Future Community-Based Forest Management in Sumbawa District, Indonesia." *Environmental Modelling and Software* 24(12): 1402–1410. <https://doi.org/10.1016/j.envsoft.2009.07.001>.
- Swamy, V., and M. Pinedo-Vasquez. 2014. *Bushmeat Harvest in Tropical Forests: Knowledge Base, Gaps and Research Priorities*. Occasional Paper 114. Bogor Barat, Indonesia: Center for International Forestry Research. <https://www.cifor-icraf.org/knowledge/publication/5098/>.
- Syakbanah, N., and A. Fuad. 2021. "Human Leptospirosis Outbreak: A Year after the 'Cempaka' Tropical Cyclone." *Jurnal Kesehatan Lingkungan* 13(4): 211–218. <https://e-journal.unair.ac.id/JKL/article/view/29554>.
- Tajudeen, Y. A., H. J. Oladipo, I. O. Oladunjoye, M. O. Mustapha, S. T. Mustapha, A. A. Abdullahi, et al. 2022. "Preventing the Next Pandemic through a Planetary Health Approach: A Focus on Key Drivers of Zoonosis." *Challenges* 13(2): 50. <https://doi.org/10.3390/challe13020050>.
- Talukder, B., G. W. van Loon, K. W. Hipel, S. Chiotha, and J. Orbinski. 2021. "Health Impacts of Climate Change on Smallholder Farmers." *One Health* 13: 100258. <https://doi.org/10.1016/j.onehlt.2021.100258>.
- Talukder, B., N. Ganguli, E. Choi, M. Tofighi, and J. Obrinski. 2024. "Exploring the Nexus: Comparing and Aligning Planetary Health, One Health, and Ecohealth." *Global Transitions* 6: 66–75. <https://doi.org/10.1016/j.glt.2023.12.002>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Tan, C. W., K. Wittwer, X. F. Lim, A. Uehara, S. Mani, L. F. Wang, et al. 2019. “Serological Evidence and Experimental Infection of Cynomolgus Macaques with Pteropine Orthoreovirus Reveal Monkeys as Potential Hosts for Transmission to Humans.” *Emerging Microbes & Infections* 8(1): 787–795. <https://doi.org/10.1080/22221751.2019.1621668>.
- Tan, S., Y. Lin, K. Foo, H. F. Koh, C. Tow, Y. Zhang, et al. 2016. “Group B *Streptococcus* Serotype III Sequence Type 283 Bacteremia Associated with Consumption of Raw Fish, Singapore.” *Emerging Infectious Diseases* 22(11): 1970–1973. <https://doi.org/10.3201/eid2211.160210>.
- Tang, J. W., M. Dilcher, P. W. Bird, J. Kok, C. K. Lee, H. Nishimura, et al. 2023. “Practical Problems and Responses for SARS-CoV-2 Laboratory Testing During the COVID-19 Pandemic.” *Clinical Microbiology and Infection* 29(5): 560–562. <https://doi.org/10.1016/j.cmi.2023.02.005>.
- Tangwangvivat, R., K. Boonyo, W. Toanan, S. Muangnoichareon, S. Nan, S. Iamsirithaworn, et al. 2019. “Promoting the One Health Concept: Thai Coordinating Unit for One Health.” *Revue Scientifique et Technique de l’OIE* 38: 271–278. <https://doi.org/10.20506/rst.38.1.2959>.
- Taylor, J. R., P. J. Thompson, J. R. Genzen, J. Hickner, and M. B. Marques. 2017. “Opportunities to Enhance Laboratory Professionals’ Role on the Diagnostic Team.” *Laboratory Medicine* 48(1): 97–103. <https://doi.org/10.1093/labmed/lmw048>.
- Taylor, R. A., R. Condoleo, R. R. L. Simons, P. Gale, L. A. Kelly, and E. L. Snary. 2020. “The Risk of Infection by African Swine Fever Virus in European Swine through Boar Movement and Legal Trade of Pigs and Pig Meat.” *Frontiers in Veterinary Science* 6: 486. <https://doi.org/10.3389/fvets.2019.00486>.
- Tee, K. K., P. Q. Chan, A. M. K. Loh, S. Singh, C. H. Teo, T. Iyadorai, et al. 2023. “Surveillance, Isolation and Genomic Characterization of Probable Bat Origin among Patients with Acute Respiratory Infection in Malaysia.” *Journal of Medical Virology* 95(2): e28520. <https://doi.org/10.1002/jmv.28520>.
- Temmam, S., D. Chretien, T. Bigot, E. Dufour, S. Petres, M. Desquesnes, et al. 2019. “Monitoring Silent Spillovers before Emergence: A Pilot Study at the Tick/Human Interface in Thailand.” *Frontiers in Microbiology* 10: 2315. <https://doi.org/10.3389/fmicb.2019.02315>.
- Temmam, S., K. Vongphayloth, E. Baquero, S. Munier, M. Bonomi, B. Regnault, et al. 2022. “Bat Coronaviruses Related to SARS-CoV-2 and Infectious for Human Cells.” *Nature* 604(7905): 330–336. <https://doi.org/10.1038/s41586-022-04532-4>.
- TEPHINET (Training Programs in Epidemiology and Public Health Interventions Network) and The Task Force for Global Health. n.d. Regional Field Epidemiology Training Program for Veterinarians (Southeast Asia). <https://www.tephinet.org/training-programs/regional-field-epidemiology-training-program-for-veterinarians-southeast-asia> (accessed April 16, 2024).
- Thacker, S. B., and R. L. Berkelman. 1988. “Public Health Surveillance in the United States.” *Epidemiologic Reviews* 10(1): 164–190. <https://doi.org/10.1093/oxfordjournals.epirev.a036021>.
- Thanapongtharm, W., S. Suwanpakdee, A. Chumkaeo, M. Gilbert, and A. Wiratsudakul. 2021. “Current Characteristics of Animal Rabies Cases in Thailand and Relevant Risk Factors Identified by a Spatial Modeling Approach.” *PLOS Neglected Tropical Diseases* 15(12): e0009980. <https://doi.org/10.1371/journal.pntd.0009980>.
- Thapa, G., and R. Gaiha. 2014. “Smallholder Farming in Asia and the Pacific: Challenges and Opportunities.” In *New Directions for Smallholder Agriculture* P. B. R. Hazell and A. Rahman, eds. United Kingdom: Oxford Academic. <https://doi.org/10.1093/acprof:oso/9780199689347.003.0004>.
- Thibault, P. A., R. E. Watkinson, A. Moreira-Soto, J. F. Drexler, and B. Lee. 2017. “Zoonotic Potential of Emerging Paramyxoviruses: Knowns and Unknowns.” *Advances in Virus Research* 98: 1–55. <https://doi.org/10.1016/bs.aivir.2016.12.001>.
- THOHUN (Thailand One Health University Network). n.d. Who We Are. <https://thohun.org/about-us/> (accessed March 10, 2024).
- Thomas, A. C., E. Oliver, H. E. Baum, et al. 2023. “Evaluation and deployment of isotype-specific salivary antibody assays for detecting previous SARS-CoV-2 infection in children and adults.” *Communications Medicine* 3, 37. <https://doi.org/10.1038/s43856-023-00264-2>.
- Todd, E. C. D. 2014. “Foodborne Diseases: Overview of Biological Hazards and Foodborne Diseases.” In *Encyclopedia of Food Safety*, vol. 4, Y. Motarjemi, G. Moy, and E. C. D. Todd, eds., pp. 221–242. DOI: [10.1016/B978-0-12-378612-8.00071-8](https://doi.org/10.1016/B978-0-12-378612-8.00071-8).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Togami, E., C. B. Behraves, T. V. Dutcher, G. R. Hansen, L. J. King, K. M. Pelican, et al. 2023. “Characterizing the One Health Workforce to Promote Interdisciplinary, Multisectoral Approaches in Global Health Problem-Solving.” *PLOS ONE* 18(5): 1-19. . <https://doi.org/10.1371/journal.pone.0285705>.
- Tong, S., S. W. Chern, Y. Li, M. A. Pallansch, and L. J. Anderson. 2008. “Sensitive and Broadly Reactive Reverse Transcription-PCR Assays to Detect Novel Paramyxoviruses.” *Journal of Clinical Microbiology* 46(8): 2652–2658. <https://doi.org/10.1128/JCM.00192-08>.
- Tong, S., X. Zhu, Y. Li, M. Shi, J. Zhang, M. Bourgeois, et al. 2013. “New World Bats Harbor Diverse Influenza A Viruses.” *PLOS Pathogens* 9(10): e1003657. <https://doi.org/10.1371/journal.ppat.1003657>.
- Torti, J. 2012. “Floods in Southeast Asia: A Health Priority.” *Journal of Global Health* 2(2): 020304. <https://doi.org/10.7189/jogh.02.020304>.
- TRAFFIC. 2023. “Vietnamese National Assembly Members to Boost Wildlife Conservation Efforts.” March 24, 2023. <https://www.traffic.org/news/vietnamese-national-assembly-members-to-boost-wildlife-conservation-efforts/>.
- TRAFFIC. n.d. Illegal Wildlife Trade: Enhancing Responses to Wildlife Crime and Illegal Trade. <https://www.traffic.org/about-us/illegal-wildlife-trade/>. (accessed March 1, 2024).
- Trovão, N. S., and M. I. Nelson. 2020. “When Pigs Fly: Pandemic Influenza Enters the 21st Century.” *PLOS Pathogens* 16(3): e1008259. <https://doi.org/10.1371/journal.ppat.1008259>.
- Truong, D. B., H. P. Doan, V. K. D. Tran, V. C. Nguyen, T. K. Bach, C. Rueanghiran, et al. 2019. “Assessment of Drivers of Antimicrobial Usage in Poultry Farms in the Mekong Delta of Vietnam: A Combined Participatory Epidemiology and Q-Sorting Approach.” *Frontiers in Veterinary Science* 6:(84). 1-11. <https://doi.org/10.3389/fvets.2019.00084>.
- Tufts University Consortium. 2022. *STOP Spillover Year 2 Semi-Annual Report: Working with Key Stakeholders to Prioritize and Plan Interventions to Reduce the Risk of Viral Zoonotic Spillover*. https://pdf.usaid.gov/pdf_docs/PA00ZGMW.pdf (accessed March 12, 2024).
- Turcotte, M. M., H. Araki, D. S. Karp, K. Poveda, and S. R. Whitehead. 2017. “The Eco-Evolutionary Impacts of Domestication and Agricultural Practices on Wild Species.” *Philosophical Transactions of the Royal Society B: Biological Sciences* 372(1712): 20160033. <https://doi.org/10.1098/rstb.2016.0033>.
- UNEP and ILRI (United Nations Environment Programme and International Livestock Research Institute). 2020. *Preventing the Next Pandemic: Zoonotic Diseases and How to Break the Chain of Transmission*. Nairobi, Kenya: UNEP-ILRI. <https://unsdg.un.org/sites/default/files/2020-07/UNEP-Preventing-the-next-pandemic.pdf>.
- UNHCR (United Nations High Commissioner for Refugees). n.d. *Technical and Vocational Education and Training*. <https://www.unhcr.org/us/what-we-do/build-better-futures/education/tertiary-education/technical-and-vocational-education-and> (accessed March 18, 2024).
- UNODC (United Nations Office on Drugs and Crime). 2020. *World Wildlife Crime Report 2020: Trafficking in Protected Species*. Vienna: United Nations Office on Drugs and Crime. https://www.unodc.org/documents/data-and-analysis/wildlife/2020/World_Wildlife_Report_2020_9July.pdf.
- UNODC. 2023. *Drivers of Illicit Trafficking in Border Communities in Southeast Asia*. Bangkok: Regional Office for Southeast Asia and the Pacific. https://www.unodc.org/roseap/uploads/documents/Publications/2023/Trafficking_in_Border_Communities_SEA.pdf (accessed February 17, 2024).
- USAID (United States Agency for International Development). n.d-a. Stop Spillover. <https://stopspillover.org/> (accessed January 1, 2024).
- USAID. n.d-b. *USAID Biodiversity Conservation*. <https://www.usaid.gov/vietnam/fact-sheets/usaid-biodiversity-conservation#:~:text=Vietnam%20is%20one%20of%20the,on%20the%20brink%20of%20extinction>. (accessed on March 1, 2024).
- USAID. 2014. *Emerging Pandemic Threats Program – EPT-2: 2014 – 2019*. <https://2012-2017.usaid.gov/sites/default/files/documents/1864/EPT2-Narrative-508.pdf>.
- USAID. 2019. “ASEAN Minister Advance Commitments to Counter Illegal Wildlife Trade.” <https://www.usaidrdw.org/news/all-news/asean-ministers-advance-commitments-to-counter-illegal-wildlife-trade> (accessed February 24, 2024).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- USAID and SEAOHUN. 2021. *Strengthening One Health Workforce in Southeast Asia*. https://www.usaid.gov/sites/default/files/2022-10/FS_SEAOHUN_Dec_2021.pdf.
- USAID. 2022. *USAID Partners with ASEAN to Develop the First Regional Strategy for Preventing Transmission of Zoonotic Diseases from Wildlife Trade*. Jakarta: U.S. Mission to ASEAN, June 22, 2022. <https://asean.usmission.gov/usaaid-partners-with-asean-to-develop-the-first-regional-strategy-for-preventing-transmission-of-zoonotic-diseases-from-wildlife-trade/> (accessed October 10, 2023).
- USAID-Cambodia. 2011. *Tropical Forestry and Biodiversity (118/119) Assessment*. Paper prepared for USAID by Chemonics International. https://pdf.usaid.gov/pdf_docs/pnaea955.pdf (accessed March 12, 2024).
- USDA (United States Department of Agriculture). 2021. *Foot-And-Mouth Disease*. Washington, DC: Animal and Plant Health Inspection Service, USDA. <https://www.aphis.usda.gov/sites/default/files/fs-fmd-general.pdf>.
- Uyeki, T. M., and M. Peiris. 2019. “Novel Avian Influenza a Virus Infections of Humans.” *Infectious Disease Clinics of North America* 33(4): 907–932. <https://doi.org/10.1016/j.idc.2019.07.003>.
- Van Cuong, N., J. Carrique-Mas, H. Vo Be, N. N. An, N. T. Tue, N. L. Anh, et al. 2015. “Rodents and Risk in the Mekong Delta of Vietnam: Seroprevalence of Selected Zoonotic Viruses in Rodents and Humans.” *Vector-Borne and Zoonotic Diseases* 15(1): 65–72. <https://doi.org/10.1089/vbz.2014.1603>.
- Vanar, M. 2019. “Authorities Foil Attempt to Smuggle 220 Crocodiles into Tawau.” *The Star*, May 19, 2019. <https://www.thestar.com.my/news/nation/2019/05/19/authorities-foil-attempt-to-smuggle-220-crocodiles-into-tawau/>.
- Velayudhan, B. T., and H. K. Naikare. 2022. “Point-of-Care Testing in Companion and Food Animal Disease Diagnostics.” *Frontiers in Veterinary Science* 9: 1056440. <https://doi.org/10.3389/fvets.2022.1056440>.
- Velazquez-Meza, M. E., M. Galarde-López, B. Carrillo-Quiróz, and C. M. Alpuche-Aranda. 2022. “Antimicrobial Resistance: One Health Approach.” *Veterinary World*. 15(3): 743–749. <https://pubmed.ncbi.nlm.nih.gov/35497962/>.
- Venkatesh, D., M. J. Poen, T. M. Bestebroer, R. D. Scheuer, O. Vuong, M. Chkhaidze, et al. 2018. “Avian Influenza Viruses in Wild Birds: Virus Evolution in a Multihost Ecosystem.” *Journal of Virology* 92(15): 10.1128/jvi.00433-18. <https://doi.org/10.1128/JVI.00433-18>.
- Verbeek, J. H., B. Rajamaki, S. Ijaz, R. Sauni, E. Toomey, B. Blackwood, et al. 2020. “Personal Protective Equipment for Preventing Highly Infectious Diseases Due to Exposure to Contaminated Body Fluids in Healthcare Staff.” *Cochrane Database of Systemic Reviews* 5): CD011621. <https://doi.org/10.1002/14651858.CD011621.pub5>.
- Verelst, F., L. Willem, and P. Beutels. 2016. “Behavioural Change Models for Infectious Disease Transmission: A Systematic Review (2010–2015).” *Journal of the Royal Society Interface* 13(125): 20160820. <https://doi.org/10.1098/rsif.2016.0820>.
- Verissimo, D., and A. K. Y. Wan. 2019. “Characterizing Efforts to Reduce Consumer Demand for Wildlife Products.” *Conservation Biology* 33(3): 623–633. <https://doi.org/10.1111/cobi.13227>.
- Vietnam OHP (One Health Partnership for Zoonoses). 2022. *Master Plan for the One Health Partnership Framework for Zoonoses, 2021–2025 Period*. Decision No. 1039/QD-BNN-HTQT, March 21, 2022. Ha Noi: Ministry of Agriculture and Rural Development. <https://onehealth.org.vn/upload/2132022%20-%20OHP%20Master%20Plan%20-%20English%20.pdf>.
- Vigilla-Montecillo, K. R., J. C. P. Rivera, A. D. Montecillo, M. K. G. Almonte, M. F. S. Bulao, J. D. P. Ong, et al. 2023. “Awareness, Knowledge, Attitude, and Practices (A-KAP) Assessment of the One Health Approach in Health Sciences Education Webinar Series Participants in Select Universities in the Philippines.” *Journal of Global Health Reports* 7(0): e2023017. <https://www.joghr.org/article/75304-awareness-knowledge-attitude-and-practices-a-kap-assessment-of-the-one-health-approach-in-health-sciences-education-webinar-series-participants-i>.
- Virginia Department of Health. n.d. *Community-Based Participatory Approaches*. <https://www.vdh.virginia.gov/health-equity/community-based-participatory-approaches/> (accessed March 20, 2024).
- Virginia Department of Health. 2018. *Melioidosis*. <https://www.vdh.virginia.gov/epidemiology/epidemiology-fact-sheets/melioidosis/#:~:text=The%20bacteria%20that%20cause%20melioidosis,by%20ingestion%20of%20contaminated%20water> (accessed April 6, 2024).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Vlasova, A. N., A. Diaz, D. Damtie, L. Xiu, T. H. Toh, J. S. Lee, et al. 2022. “Novel Canine Coronavirus Isolated from a Hospitalized Patient with Pneumonia in East Malaysia.” *Clinical Infectious Diseases* 74(3): 446–454. <https://doi.org/10.1093/cid/ciab456>.
- Vlasova, A. N., S. P. Kenney, K. Jung, Q. Wang, and L. J. Saif. 2020. “Deltacoronavirus Evolution and Transmission: Current Scenario and Evolutionary Perspectives.” *Frontiers in Veterinary Science* 7: 626785. <https://doi.org/10.3389/fvets.2020.626785>.
- VNA (Vietnam News Agency). 2023. “ASEAN Bolsters One Health Initiatives to Prevent Future Pandemics.” Vietnamplus, VNA, March 21, 2023. <https://en.vietnamplus.vn/asean-bolsters-one-health-initiatives-to-prevent-future-pandemics/250208.vnp> (accessed April 10, 2024).
- Voigt, C. C., and T. Kingston, eds. 2016. *Bats in the Anthropocene: Conservation of Bats in a Changing World*. Springer Cham. <https://link.springer.com/book/10.1007/978-3-319-25220-9>.
- Vong, S., S. Ly, M. D. Van Kerkhove, J. Achenbach, D. Holl, P. Buchy, et al. 2009. “Risk Factors Associated with Subclinical Human Infection with Avian Influenza a (H5N1) Virus-Cambodia, 2006.” *Journal of Infectious Diseases* 199(12): 1744–1752. <https://doi.org/10.1086/599208>.
- Vora, N. 2022. *Preventing and Preparing for Pandemics With Zoonotic Origins* Neil M. Vora and Jay K. Varma. Council on Foreign Relations. United States of America. <https://policycommons.net/artifacts/3168764/preventing-and-preparing-for-pandemics-with-zoonotic-origins-neil-m/3967194/>
- Vora, N. M., L. Hannah, S. Lieberman, M. M. Vale, R. K. Plowright, and A. S. Bernstein. 2022. “Want to Prevent Pandemics? Stop Spillovers.” *Nature* 605(7910): 419–422. <https://doi.org/10.1038/d41586-022-01312-y>.
- Vora, N. M., L. Hannah, C. Walzer, M. M. Vale, S. Lieberman, A. Emerson, et al. 2023. “Interventions to Reduce Risk for Pathogen Spillover and Early Disease Spread to Prevent Outbreaks, Epidemics, and Pandemics.” *Emerging Infectious Diseases* 29(3): 1–9. <https://doi.org/10.3201/eid2903.221079>.
- Vourc’h, G., F. Moutou, S. Morand, and E. Jourdain. 2022. *Zoonoses: The Ties That Bind Humans to Animals*. éditions Quae. <https://library.oapen.org/handle/20.500.12657/60581>.
- Wan, X. F., L. Dong, Y. Lan, L. P. Long, C. Xu, S. Zou, et al. 2011. “Indications that Live Poultry Markets Are a Major Source of Human H5N1 Influenza Virus Infection in China.” *Journal of Virology* 85(24): 13432–13438. <https://doi.org/10.1128/JVI.05266-11>.
- Wang, S., M. A. Lifson, F. Inci, L. G. Liang, Y. F. Sheng, and U. Demirci. 2016. “Advances in Addressing Technical Challenges of Point-of-Care Diagnostics in Resource-Limited Settings.” *Expert Review of Molecular Diagnostics* 16(4): 449–459. <https://doi.org/10.1586/14737159.2016.1142877>.
- Wang, S., R. Suluku, M. B. Jalloh, A. F. Samba, B. Jiang, Y. Xie, et al. 2024. “Molecular Characterization of an Outbreak-Involved *Bacillus anthracis* Strain Confirms the Spillover of Anthrax from West Africa.” *Infectious Diseases of Poverty* 13(1): 6. <https://doi.org/10.1186/s40249-023-01172-2>.
- Wang, T. T., and P. Palese. 2009. “Unraveling the Mystery of Swine Influenza Virus.” *Cell* 137(6): 983–985. <https://doi.org/10.1016/j.cell.2009.05.032>.
- Wang, W. X., L. L. Yang, T. Wronski, S. Z. Chen, Y. J. Hu, and S. L. Huang. 2019. “Captive Breeding of Wildlife Resources—China’s Revised Supply-Side Approach to Conservation.” *Wildlife Society Bulletin* 43(3): 425–435. <https://doi.org/10.1002/wsb.988>.
- Wang, X., S. Fang, C. Xu, B. C. Cowling, X. Tang, W. Wu, et al. 2014. “Seroprevalence to Avian Influenza A(H7N9) Virus among Poultry Workers and the General Population in Southern China: A Longitudinal Study.” *Clinical Infectious Diseases* 59(6): e76. <https://doi.org/10.1093/cid/ciu399>.
- Wang, Y., J. Lenocho, D. Kohler, T. J. DeLiberto, C. Y. Tang, T. Li, et al. 2023a. “SARS-CoV-2 Exposure in Norway Rats (*Rattus norvegicus*) from New York City.” *mBio* 14(2): e0362122. <https://doi.org/10.1128/mbio.03621-22>.
- Wang, Y., C. Zhao, Y. Qi, and Y. Geng. 2023b. “Hepatitis E Virus.” In *Hepatitis E Virus. Advances in Experimental Medicine and Biology*, vol. 1417, Y. Wang, ed., pp 1–13. Singapore: Springer. https://doi.org/10.1007/978-981-99-1304-6_1.
- Wang, Z., J. Bao, X. Wu, Y. Liu, L. Li, C. Liu, et al. 2009. “Peste des Petits Ruminants Virus in Tibet, China.” *Emerging Infectious Diseases* 15(2): 299–301. <https://doi.org/10.3201/eid1502.080817>.
- Wardeh, M., M. Baylis, and M. S. C. Blagrove. 2021. “Predicting Mammalian Hosts in Which Novel Coronaviruses Can Be Generated.” *Nature Communications* 12(1): 780. <https://doi.org/10.1038/s41467-021-21034-5>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Warren, C. J., and S. L. Sawyer. 2023. “Identifying Animal Viruses in Humans.” *Science* 379(6636): 982–983. <https://doi.org/10.1126/science.ade6985>.
- WCS (Wildlife Conservation Society). n.d.-a. Solutions – International Policy. <https://www.wcs.org/our-work/solutions/international-policy> (accessed March 01, 2024).
- WCS. n.d.-b. Wild Health Net. <https://oneworldonehealth.wcs.org/Initiatives/WildHealthNet.aspx> (accessed March 1, 2024).
- WCS Viet Nam. 2020. “Has Vietnam Banned the Wildlife Trade to Curb the Risk of Future Pandemics?” *WCS Newsroom*, July 27, 2020. <https://newsroom.wcs.org/News-Releases/articleType/ArticleView/articleId/14625/Has-Vietnam-banned-the-wildlife-trade-to-curb-the-risk-of-future-pandemics.aspx>.
- WCS. 2022. “News from Cites Cop19: Wcs Welcomes the Revised EU Action Plan against Wildlife Trafficking.” *WCS Newsroom*, November 15, 2022. <https://newsroom.wcs.org/News-Releases/articleType/ArticleView/articleId/18260/News-from-CoP19-WCS-Welcomes-the-Revised-EU-Action-Plan-Against-Wildlife-Trafficking.aspx> (accessed April 9, 2024).
- WCS Cambodia. 2024. *Wings of Change: How One Rare Nest Reshaped a Family*. <https://cambodia.wcs.org/> (accessed April 5, 2024).
- Webster, R. G., K. F. Shortridge, and Y. Kawaoka. 1997. “Influenza: Interspecies Transmission and Emergence of New Pandemics.” *FEMS Immunology & Medical Microbiology* 18(4): 275–279. <https://doi.org/10.1111/j.1574-695X.1997.tb01056.x>.
- Wegner, G. I., K. A. Murray, M. Springmann, A. Muller, S. H. Sokolow, K. Saylor, et al. 2022. “Averting Wildlife-Borne Infectious Disease Epidemics Requires a Focus on Socio-Ecological Drivers and a Redesign of the Global Food System.” *EClinicalMedicine* 47: 101386. <https://doi.org/10.1016/j.eclinm.2022.101386>.
- Weigler, B. J. 1992. “Biology of B Virus in Macaque and Human Hosts: A Review.” *Clinical Infectious Diseases* 14(2): 555–567. <https://doi.org/10.1093/clinids/14.2.555>.
- Wessing, R. 2006. “Symbolic Animals in the Land between the Waters: Markers of Place and Transition.” *Asian Folklore Studies* 65(2): 205–239. <https://www.proquest.com/scholarly-journals/symbolic-animals-land-between-waters-markers/docview/224528015/se-2?accountid=152665>.
- Westcott, B, and S. Deng. 2020. “China Has Made Eating Wild Animals Illegal after the Coronavirus Outbreak. But Ending the Trade Won’t Be Easy.” *CNN*. Updated: March 5, 2020 <https://www.cnn.com/2020/03/05/asia/china-coronavirus-wildlife-consumption-ban-intl-hnk/index.html>.
- WHO (World Health Organization). n.d.-a. Field Epidemiology Training Programme in Viet Nam. [https://www.who.int/vietnam/health-topics/field-epidemiology-training-program-\(fetsp\)](https://www.who.int/vietnam/health-topics/field-epidemiology-training-program-(fetsp)) (accessed March 18, 2024).
- WHO. n.d.-b. Mekong Malaria Elimination Program. <https://www.who.int/initiatives/mekong-malaria-elimination-programme> (accessed March 1, 2024).
- WHO. n.d.-c. Western Pacific: How We Work. <https://www.who.int/westernpacific/about/how-we-work> (accessed February 14, 2024).
- WHO. 2008. *Anthrax in Humans and Animals*. <https://www.who.int/publications/i/item/9789241547536> (accessed February 15, 2024).
- WHO. 2009. “2009 – Philippines.” *Disease Outbreak News*, February 3, 2009. https://www.who.int/emergencies/disease-outbreak-news/item/2009_02_03-en (accessed March 27, 2024).
- WHO. 2014. “Recommendations.” In *A Guide to Establishing Event-Based Surveillance*, ch. 7. <https://www.who.int/publications/i/item/9789290613213> (accessed March 1, 2024).
- WHO. 2017a. *Communicating Risk in Public Health Emergencies: A Who Guideline for Emergency Risk Communication (ERC) Policy and Practice*. Geneva: World Health Organization. <https://www.ncbi.nlm.nih.gov/books/NBK540733/>.
- WHO. 2017b. “One Health.” *Newsroom*, September 21, 2017. <https://www.who.int/news-room/questions-and-answers/item/one-health> (accessed February 18, 2024).
- WHO. 2018a. “New Global Strategic Plan to Eliminate Dog-Mediated Rabies by 2030.” *Newsroom*, August 28, 2018. <https://www.who.int/news-room/commentaries/detail/new-global-strategic-plan-to-eliminate-dog-mediated-rabies-by-2030> (accessed April 2, 2024).

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- WHO. 2018b. *Zero by 30: The Global Strategic Plan to End Human Deaths from Dog-Mediated Rabies by 2030*. Geneva: World Health Organization, Food and Agriculture Organization of the United Nations, and World Organisation for Animal Health. <https://www.who.int/publications/i/item/9789241513838> (accessed April 2, 2024).
- WHO. 2020a. *Tool for Influenza Pandemic Risk Assessment (TIPRA) 2nd Edition*. Geneva: World Health Organization. [https://www.who.int/publications/i/item/tool-for-influenza-pandemic-risk-assessment-\(tipra\)-2nd-edition](https://www.who.int/publications/i/item/tool-for-influenza-pandemic-risk-assessment-(tipra)-2nd-edition). (accessed March 2, 2024).
- WHO. 2020b. “Zoonoses.” *Newsroom*, July 29, 2020. <https://www.who.int/news-room/fact-sheets/detail/zoonoses#:~:text=They%20represent%20a%20major%20public,for%20food%20and%20other%20uses> (accessed March 25, 2024).
- WHO. 2021. “World Zoonosis Day 6 July: Online Learning Supports Governments to Operationalize a One Health Approach in Countries.” *Departmental News*, July 7, 2021. <https://www.who.int/news/item/07-07-2021-world-zoonosis-day-6-july-online-learning-supports-governments-to-operationalize-a-one-health-approach-in-countries>. (accessed March 26, 2024).
- WHO. 2022a. *Assessment of Risk Associated with Recent Influenza A(H5N1) Clade 2.3.4.4b Viruses*. <https://cdn.who.int/media/docs/default-source/influenza/avian-and-other-zoonotic-influenza/h5-risk-assessment-dec-2022.pdf> (accessed April 12, 2024).
- WHO. 2022b. *Public Health Surveillance for COVID-19: Interim Guidance*. COVID-19: Surveillance, Case Investigation and Epidemiological Protocols, July 22, 2022. <https://www.who.int/publications/i/item/WHO-2019-nCoV-SurveillanceGuidance-2022.2> (accessed March 19, 2024).
- WHO. 2022c. *One Health Joint Plan of Action, 2022–2026: Working Together for the Health of Humans, Animals, Plants and the Environment*. Rome: World Health Organization, Food and Agriculture Organization of the United Nations, World Organisation for Animal Health, and United Nations Environment Programme. <https://www.who.int/publications/i/item/9789240059139>.
- WHO. 2022d. *The Mekong Malaria Elimination Programme: Accelerating Malaria Elimination in the Greater Mekong*. Bulletin 10, March 2022. Geneva: World Health Organization (WHO/UCN/GMP/MME/2022.01). <https://www.who.int/publications/i/item/WHO-UCN-GMP-MME-2022.01>.
- WHO. 2023a. “Leishmaniasis.” *Newsroom*, January 12, 2023. <https://www.who.int/news-room/fact-sheets/detail/leishmaniasis> (accessed April 2, 2024).
- WHO. 2023b. “Ongoing Avian Influenza Outbreaks in Animals Pose Risk to Humans: Situation Analysis and Advice to Countries from FAO, WHO, WOA.” Statement, July 12, 2023, Geneva/Paris/Rome. <https://www.who.int/news/item/12-07-2023-ongoing-avian-influenza-outbreaks-in-animals-pose-risk-to-humans> (accessed April 10, 2024).
- WHO. 2023c. Global Laboratory Leadership Programme. <https://www.who.int/initiatives/global-laboratory-leadership-programme> (accessed March 18, 2024).
- WHO. 2023d. “Strengthening Joint Risk Assessment Using the One Health Approach in South-East Asia.” News release, July 25, 2023, Colombo, Sri Lanka. <https://www.who.int/southeastasia/news/detail/25-07-2023-strengthening-joint-risk-assessment-using-the-one-health-approach-in-south-east-asia> (accessed March 18, 2024).
- WHO. 2023e. *The Fourth Meeting of the Intergovernmental Negotiating Body to Draft and Negotiate a Who Convention, Agreement or Other International Instrument on Pandemic Prevention, Preparedness and Responses. Zero Draft of the Who CA+ for the Consideration of the Intergovernmental Negotiating Body at Its Fourth Meeting*. Provisional agenda item 3, February 1, 2023. https://apps.who.int/gb/inb/pdf_files/inb4/A_INB4_3-en.pdf.
- WHO. 2023f. *WHO COVID-19 Dashboard: Cases*. <https://data.who.int/dashboards/covid19/cases> (accessed April 16, 2024).
- WHO, FAO, and OIE. 2009. *Zoonotic Diseases: A Guide to Establishing Collaboration between Animal and Human Health Sectors at the Country Level*. Geneva: World Health Organization. <https://iris.who.int/bitstream/handle/10665/206190/B4021.pdf?sequence=1&isAllowed=y>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- WHO IHR (International Health Regulations). 2005. *The International Health Regulations (2005)*. Geneva: World Health Organization. [https://www.paho.org/en/topics/international-health-regulations#:~:text=The%20IHR%20\(2005\)%20has%20as,with%20international%20traffic%20and%20trade%22.](https://www.paho.org/en/topics/international-health-regulations#:~:text=The%20IHR%20(2005)%20has%20as,with%20international%20traffic%20and%20trade%22.)
- Wille, M., and E. C. Holmes. 2020. “The Ecology and Evolution of Influenza Viruses.” *Cold Spring Harbor Perspectives in Medicine* 10(7): a038489. <https://doi.org/10.1101/cshperspect.a038489>.
- Wille, M., J. L. Geoghegan, and E. C. Holmes. 2021. “How Accurately Can We Assess Zoonotic Risk?” *PLOS Biology* 19(4): e3001135. <https://doi.org/10.1371/journal.pbio.3001135>.
- Win, T. T. Z., A. Campbell, R. S. Magalhaes, K. N. Oo, and J. Henning. 2023. “Perceptions of Livestock Value Chain Actors (VCAs) on the Risk of Acquiring Zoonotic Diseases from Their Livestock in the Central Dry Zone of Myanmar.” *BMC Public Health* 23(1): 196. <https://doi.org/10.1186/s12889-022-14968-y>.
- Wingard, J. R., and P. Zahler. 2006. *Silent Steppe: The Illegal Wildlife Trade Crisis in Mongolia*. Mongolia Discussion Papers, East Asia and Pacific Environment and Social Development Department. Washington, DC: World Bank. https://www.legal-atlas.com/uploads/2/6/8/4/26849604/silent_steppe-the_illegal_wildlife_trade_crisis_in_mongolia.pdf.
- Wise, J. 2021. “Covid-19: Global Response Was Too Slow and Leadership Absent, Report Finds.” *The BMJ* 373: n1234. <https://doi.org/10.1136/bmj.n1234>.
- Wiseman, E. 2022. “Economists and Traders Have More to Learn About Trade: The Role of Information Frictions in Informal Trade.” World Bank Blogs, November 18, 2022. <https://blogs.worldbank.org/en/impactevaluations/economists-and-traders-have-more-learn-about-trade-role-information-frictions#:~:text=Informal%20trade%20is%20conducted%20by,high%2Dpriced%20markets%20for%20selling.>
- WOAH (World Organisation for Animal Health). n.d.-a. PVS Pathway. https://rr-asia.woah.org/app/uploads/2020/04/pvs_diagram_final_en.pdf accessed January 30, 2024).
- WOAH. n.d.-b. Foot and Mouth Disease. [https://www.woah.org/en/disease/foot-and-mouth-disease/#:~:text=Foot%20and%20mouth%20disease%20\(FMD,and%20other%20cloven%2Dhoofed%20ruminants.](https://www.woah.org/en/disease/foot-and-mouth-disease/#:~:text=Foot%20and%20mouth%20disease%20(FMD,and%20other%20cloven%2Dhoofed%20ruminants.) (accessed March 17, 2024).
- WOAH. n.d.-c. Newcastle Disease. <https://www.woah.org/en/disease/newcastle-disease/>. (accessed April 15, 2024).
- WOAH. 2019. *OIE Tool for the Evaluation of Performance of Veterinary Services*, 7th ed. Paris: World Organisation for Animal Health. <https://www.woah.org/app/uploads/2021/03/2019-pvs-tool-final.pdf> (accessed April 5, 2024).
- WOAH. 2021. *SEACFMD Roadmap 2021-2025*. <https://asean.org/wp-content/uploads/2021/12/FAFD-36-SEACFMD-Roadmap-2021-2025.pdf>. (accessed May 12, 2024).
- WOAH. 2022. *Protecting Wildlife Health by Enhancing Surveillance Systems*. Annual Report. <https://www.woah.org/en/article/protecting-wildlife-health-by-enhancing-surveillance-systems/>. (accessed February 18, 2024).
- WOAH. 2023. *Terrestrial Animal Health Code*. <https://www.woah.org/en/what-we-do/standards/codes-and-manuals/terrestrial-code-online-access/>.
- Woese, C. R., O. Kandler, and M. L. Wheelis. 1990. “Towards a Natural System of Organisms: Proposal for the Domains Archaea, Bacteria, and Eucarya.” *Proceedings of the National Academy of Sciences of the United States of America* 87(12): 4576–4579. <https://doi.org/10.1073/pnas.87.12.4576>.
- Woo, P. C., S. K. Lau, and K. Y. Yuen. 2006. “Infectious Diseases Emerging from Chinese Wet-Markets: Zoonotic Origins of Severe Respiratory Viral Infections.” *Current Opinion in Infectious Diseases* 19(5): 401–407. <https://doi.org/10.1097/01.qco.0000244043.08264.fc>.
- Woo, P. C., S. K. Lau, C. S. Lam, C. C. Lau, A. K. Tsang, J. H. Lau, et al. 2012. “Discovery of Seven Novel Mammalian and Avian Coronaviruses in the Genus Deltacoronavirus Supports Bat Coronaviruses as the Gene Source of Alphacoronavirus and Betacoronavirus and Avian Coronaviruses as the Gene Source of Gammacoronavirus and Deltacoronavirus.” *Journal of Virology* 86(7): 3995–4008. <https://doi.org/10.1128/JVI.06540-11>.
- Woolhouse, M. E. J., K. Adair, and L. Brierley. 2013. “RNA Viruses: A Case Study of the Biology of Emerging Infectious Diseases.” *Microbiology Spectrum* 1(1): 1–16. <https://doi.org/10.1128/microbiolspec.OH-0001-2012>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- World Animal Protection. n.d. Wildlife. Not Pets. <https://www.worldanimalprotection.ca/our-work/animals-wild/wildlife-not-pets> (accessed March 22, 2024).
- World Bank. 2021. *Safeguarding Animal, Human and Ecosystem Health: One Health at the World Bank*. Brief, June 3, 2021. <https://www.worldbank.org/en/topic/agriculture/brief/safeguarding-animal-human-and-ecosystem-health-one-health-at-the-world-bank>.
- World Bank and FAO. 2022. *Reducing Pandemic Risks at Source Wildlife, Environment and One Health Foundations in East and South Asia*. Washington, DC: World Bank Group. <https://elibrary.worldbank.org/doi/abs/10.1596/37327>.
- WWF (World Wildlife Fund). n.d.-a. Threats: Illegal Wildlife Trade. <https://www.worldwildlife.org/threats/illegal-wildlife-trade#:~:text=Illegal%20wildlife%20trade%20is%20driven,the%20rate%20of%20human%20consumption> (accessed March 1, 2024).
- WWF. n.d.-b. Our Work: Reducing Zoonotic Disease Risk from Wildlife Trade. <https://www.worldwildlife.org/initiatives/reducing-zoonotic-disease-risk-from-wildlife-trade#:~:text=Deforestation%2C%20particularly%20for%20new%20roads,the%20risk%20of%20zoonotic%20transmission> (accessed March 1, 2024).
- WWF. 2020. “WWF Welcomes the New Directive from the Prime Minister of Viet Nam on Tightening Control Against the Trade and Consumption of High Risk Wildlife.” July, 24 2020. https://wwf.panda.org/wwf_news/?364711/WWF-welcomes-the-New-Directive-from-the-Prime-Minister-of-Viet-Nam-on-trade-and-consumption-of-high-risk-wildlife.
- Xing, S., T. C. Bonebrake, W. Cheng, M. Zhang, G. Ades, D. Shaw, et al. 2020. “Meat and Medicine: Historic and Contemporary Use in Asia.” In *Biodiversity of World: Conservation from Genes to Landscapes, Pangolins*, D. W. S. Challender, H. C. Nash, and C. Waterman, eds., pp. 227–239. Academic Press. <https://www.sciencedirect.com/science/article/abs/pii/B9780128155073000149>.
- Xiu, L., R. A. Binder, N. A. Alarja, K. Kochev, K. K. Coleman, S. T. Than, et al. 2020. “A RT-PCR Assay for the Detection of Coronaviruses from Four Genera.” *Journal of Clinical Virology* 128: 104391. <https://doi.org/10.1016/j.jcv.2020.104391>.
- Xu, J. 2016. “Fungal DNA Barcoding.” *Genome* 59(11): 913–932. <https://doi.org/10.1139/gen-2016-0046>.
- Yang, L., Z. Wu, X. Ren, F. Yang, J. Zhang, G. He, et al. 2014. “MERS-Related Betacoronavirus in *Vespertilio superans* Bats, China.” *Emerging Infectious Diseases* 20(7): 1260–1262. <https://doi.org/10.3201/eid2007.140318>.
- Yang, M., L. Chen, J. Wang, G. Msigwa, A. I. Osman, S. Fawzy, et al. 2023. “Circular Economy Strategies for Combating Climate Change and Other Environmental Issues.” *Environmental Chemistry Letters* 21(1): 55–80. <https://doi.org/10.1007/s10311-022-01499-6>.
- Yang, P., C. N. Ma, S. J. Cui, D. T. Zhang, W. X. Shi, Y. Pan, et al. 2016. “Avian Influenza A(H7N9) and (H5N1) Infections among Poultry and Swine Workers and the General Population in Beijing, China, 2013–2015.” *Scientific Reports* 6(1): 33877. <https://doi.org/10.1038/srep33877>.
- Yano, T., S. Phornwisetsirikun, P. Susumpow, S. Visrutaratna, K. Chanachai, P. Phetra, et al. 2018. “A Participatory System for Preventing Pandemics of Animal Origins: Pilot Study of the Participatory One Health Disease Detection (PODD) System.” *JMIR Public Health and Surveillance* 4(1): e7375. <https://doi.org/10.2196/publichealth.7375>.
- Yegros-Yegros, A., W. van de Klippe, M. F. Abad-Garcia, and I. Rafols. 2020. “Exploring Why Global Health Needs Are Unmet by Research Efforts: The Potential Influences of Geography, Industry and Publication Incentives.” *Health Research Policy and Systems* 18(1): 1–14. <https://doi.org/10.1186/s12961-020-00560-6>.
- Yen, H. L., T. H. C. Sit, C. J. Brackman, S. S. Y. Chuk, H. Gu, K. W. S. Tam, et al. 2022. “Transmission of SARS-CoV-2 Delta Variant (AY.127) from Pet Hamsters to Humans, Leading to Onward Human-to-Human Transmission: A Case Study.” *Lancet* 399(10329): 1070–1078. [https://doi.org/10.1016/S0140-6736\(22\)00326-9](https://doi.org/10.1016/S0140-6736(22)00326-9).
- Yeo, H. H. T., S. J. W. Ng, J. S. R. Lee, M. C. K. Soh, A. M. S. Wong, A. H. B. Loo, et al. 2024. “A Systematic Survey of the Online Trade in Elephant Ivory in Singapore before and after a Domestic Trade Ban.” *Oryx* 58(1): 48–55. <https://doi.org/10.1017/S0030605323000728>.

GUIDELINES FOR COUNTERING ZOO NOTIC SPILLOVER

- Youssef, D. M., B. Wieland, G. M. Knight, J. Lines, and N. R. Naylor. 2021. “The Effectiveness of Biosecurity Interventions in Reducing the Transmission of Bacteria from Livestock to Humans at the Farm Level: A Systematic Literature Review.” *Zoonoses and Public Health* 68(6): 549–562. <https://doi.org/10.1111/zph.12807>.
- Zalani, A. 2023. “Malaysia at Risk of Short-Term Food Insecurity.” *Malaysian Reserve*, August 22, 2023. <https://themalaysianreserve.com/2023/08/22/malaysia-at-risk-of-short-term-food-insecurity/> (accessed March 18, 2024).
- Zamri, M. A., and B. M. Md-Zain. 2022. “Long-Tailed Macaques of the Batu Caves, Peninsular Malaysia: Population Estimate, Nuisance Behaviors, and Human Perception.” *Journal of Animal and Plant Sciences-Japs* 32(4): 1150–158. <https://doi.org/10.36899/Japs.2022.4.0520>.
- Zana, B., G. Kemenesi, D. Buzás, G. Csorba, T. Görfö, F. A. A. Khan, et al. 2019. “Molecular Identification of a Novel Hantavirus in Malaysian Bronze Tube-Nosed Bats.” *Viruses* 11(10): 887. <https://doi.org/10.3390/v11100887>.
- Zeng, D., Z. Cao, and D. B. Neill. 2021. “Artificial Intelligence-Enabled Public Health Surveillance—from Local Detection to Global Epidemic Monitoring and Control.” In *Artificial Intelligence in Medicine*, L. Xing, M. L. Giger and J. K. Min, eds., pp. 437–453. Academic Press. <https://doi.org/10.1016/B978-0-12-821259-2.00022-3>.
- Zhai, S. L., M. F. Sun, Z. H. Xu, C. L. Li, G. Wang, C. Zheng, et al. 2022. “Two Important Poxviruses That Originated in Africa, Are Spreading Rapidly in Other Continents: Why?” *New Microbes and New Infections* 49–50: 101034. <https://doi.org/10.1016/j.nmni.2022.101034>.
- Zhang, J. 2016. “Porcine Deltacoronavirus: Overview of Infection Dynamics, Diagnostic Methods, Prevalence and Genetic Evolution.” *Virus Research* 226: 71–84. <https://doi.org/10.1016/j.virusres.2016.05.028>.
- Zhang, S., C. Chen, J. Peng, X. Li, D. Zhang, J. Yan, et al. 2017. “Investigation of Underlying Comorbidities as Risk Factors for Symptomatic Human Hepatitis E Virus Infection.” *Alimentary Pharmacology & Therapeutics* 45(5): 701–713. <https://doi.org/10.1111/apt.13938>.
- Zhang, T. P., Z. Zhao, X. L. Sun, M. R. Xie, F. K. Liu, Y. B. Zhang, et al. 2022. “Fatal Progressive Ascending Encephalomyelitis Caused by Herpes B Virus Infection: First Case from China.” *World Journal of Emergency Medicine* 13(4): 330–333. <https://doi.org/10.5847/wjem.j.1920-8642.2022.059>.
- Zhang, Y., K. Leung, R. A. P. M. Perera, C. K. Lee, J. S. M. Peiris, and J. T. Wu. 2020. “Harnessing the Potential of Blood Donation Archives for Influenza Surveillance and Control.” *PLOS ONE* 15(5): e0233605. <https://doi.org/10.1371/journal.pone.0233605>.
- Zhao, J., W. Cui, and B. P. Tian. 2020. “The Potential Intermediate Hosts for SARS-CoV-2.” *Frontiers in Microbiology* 11: 580137. <https://doi.org/10.3389/fmicb.2020.580137>.
- Zhong, S., M. Crang, and G. Zeng. 2020. “Constructing Freshness: The Vitality of Wet Markets in Urban China.” *Agriculture and Human Values* 37(1): 175–185. <https://doi.org/10.1007/s10460-019-09987-2>.
- Zhou, P., H. Fan, T. Lan, X. L. Yang, W. F. Shi, W. Zhang, et al. 2018. “Fatal Swine Acute Diarrhoea Syndrome Caused by an HKU2-Related Coronavirus of Bat Origin.” *Nature* 556(7700): 255–258. <https://doi.org/10.1038/s41586-018-0010-9>.
- Zhou, S., X. Yang, Y. Wang, X. Zheng, and Z. Zhang. 2023. “Affective Agenda Dynamics on Social Media: Interactions of Emotional Content Posted by the Public, Government, and Media During the COVID-19 Pandemic.” *Humanities and Social Sciences Communications* 10(1): 1–10. <https://doi.org/10.1057/s41599-023-02265-x>.
- Zhou, Z., Y. Qiu, and X. Ge. 2021. “The Taxonomy, Host Range and Pathogenicity of Coronaviruses and Other Viruses in the Nidovirales Order.” *Animal Diseases* 1(1): 5. <https://doi.org/10.1186/s44149-021-00005-9>.
- Zinsstag, J., J. Utzinger, N. Probst-Hensch, L. Shan, and X. N. Zhou. 2020. “Towards Integrated Surveillance-Response Systems for the Prevention of Future Pandemics.” *Infectious Diseases of Poverty* 9(1): 140. <https://doi.org/10.1186/s40249-020-00757-5>.



International Network
for Governmental
Science Advice