

VET603 One Health for Biodiversity Conservation

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(1)

King, L. J. Combating the Triple Threat: The Need for a One Health Approach. In *One health: people, animals, and the environment*; Atlas, R. M., Maloy, S. R., Eds.; ASM Press: Washington, DC, 2014; pp 3–14.

(2)

American Society for Microbiology. *One Health and the Lessons Learned from the 1999 West Nile Virus Outbreak (MWV46)*, 23AD.

(3)

One Health: The Theory and Practice of Integrated Health Approaches; Zinsstag, J., Schelling, E., Waltner-Toews, D., Whittaker, M., Tanner, M., Eds.; CABI: Wallingford, Oxfordshire, UK, 2015.

(4)

The World Bank. *People, Pathogens and Our Planet; Volume 1: Towards a One Health Approach for Controlling Zoonotic Diseases*, 2010.

(5)

FAO, OIE, WHO, UNSIC, UNICEF, and the World Bank. *Contributing to One World, One Health: A Strategic Framework for Reducing Risks of Infectious Diseases at the Animal-Human-Ecosystems Interface*, 2008.

(6)

Steven, O.; Richard, K.; Michael, K.; Gladys, K.-Z.; Richard, G.; Tim, L.; William, K. Friends for Life; New Partners in Support of Protected Areas. Chapter 5, 2005.

(7)

Richard, K. Drivers of Disease Emergence and Spread: Is Wildlife to Blame? **2014**.

(8)

Daszak, P. Collaborative Research Approaches to the Role of Wildlife in Zoonotic Disease Emergence. In Wildlife and emerging zoonotic diseases: the biology, circumstances and consequences of cross-species transmission; Springer: Berlin, 2007; Vol. Current topics in microbiology and immunology, pp 463–475.

(9)

Daszak, P. Emerging Infectious Diseases and the Socio-Ecological Dimension. EcoHealth **2005**, 2 (4), 239–240. <https://doi.org/10.1007/s10393-005-8613-7>.

(10)

Steve, M. What Is Biodiversity and Why Is It Important?, 15AD.

(11)

Anantha Kumar Duraiappah. Millenium Ecosystem Assessment. Ecosystems and Human Well-Being: Biodiversity Synthesis.

(12)

Pavan Sukhdev: Put a Value on Nature! | TED Talk | TED.Com.

(13)

Cardinale, B. J.; Duffy, J. E.; Gonzalez, A.; Hooper, D. U.; Perrings, C.; Venail, P.; Narwani, A.; Mace, G. M.; Tilman, D.; Wardle, D. A.; Kinzig, A. P.; Daily, G. C.; Loreau, M.; Grace, J. B.; Larigauderie, A.; Srivastava, D. S.; Naeem, S. Biodiversity Loss and Its Impact on Humanity. Nature **2012**, 486 (7401), 59–67. <https://doi.org/10.1038/nature11148>.

(14)

TEEB. The Economics of Ecosystems and Biodiversity: Mainstreaming the Economics of Nature: A Synthesis of the Approach, Conclusions and Recommendations of TEEB, 2010.

(15)

Richardson, R. B. Ecosystem Services and Food Security: Economic Perspectives on Environmental Sustainability. *Sustainability* **2010**, 2 (11), 3520–3548.
<https://doi.org/10.3390/su2113520>.

(16)

Corvalán, C.; Hales, S.; McMichael, A. J.; Millennium Ecosystem Assessment (Program); World Health Organization. Millenium Ecosystem Assessment. Ecosystems and Human Well-Being: Health Synthesis; World Health Organization: [Geneva, Switzerland], 2005.

(17)

IUCN. Biodiversity and Human Health, 31AD.

(18)

Hough, R. L. Biodiversity and Human Health: Evidence for Causality? *Biodiversity and Conservation* **2014**, 23 (2), 267–288. <https://doi.org/10.1007/s10531-013-0614-1>.

(19)

Fisher, B.; Christopher, T. Poverty and Biodiversity: Measuring the Overlap of Human Poverty and the Biodiversity Hotspots. *Ecological Economics* **2007**, 62 (1), 93–101.
<https://doi.org/10.1016/j.ecolecon.2006.05.020>.

(20)

McMichael, A. J. Health and Disease : An Ecological Perspective. Chapter 11. In *Human frontiers, environments and disease: past patterns, uncertain futures*; Cambridge University Press: Cambridge, 2001; pp 318–340.

(21)

Does Poverty Rise as Biodiversity Falls? - Pavan Sukhdev, 7AD.

(22)

Suich, H.; Howe, C.; Mace, G. Ecosystem Services and Poverty Alleviation: A Review of the Empirical Links. *Ecosystem Services* **2015**, 12, 137–147.
<https://doi.org/10.1016/j.ecoser.2015.02.005>.

(23)

Baker, S.; Paddock, J.; Smith, A. M.; Unsworth, R. K. F.; Cullen-Unsworth, L. C.; Hertler, H. An Ecosystems Perspective for Food Security in the Caribbean: Seagrass Meadows in the Turks and Caicos Islands. *Ecosystem Services* **2015**, 11, 12–21.
<https://doi.org/10.1016/j.ecoser.2014.07.011>.

(24)

Murray, K. A.; Daszak, P. Human Ecology in Pathogenic Landscapes: Two Hypotheses on How Land Use Change Drives Viral Emergence. *Current Opinion in Virology* **2013**, 3 (1), 79–83. <https://doi.org/10.1016/j.coviro.2013.01.006>.

(25)

Patz, J. A.; Daszak, P.; Tabor, G. M.; Aguirre, A. A.; Pearl, M.; Epstein, J.; Wolfe, N. D.; Kilpatrick, A. M.; Foufopoulos, J.; Molyneux, D.; Bradley, D. J.; Emergence, D. Unhealthy Landscapes: Policy Recommendations on Land Use Change and Infectious Disease Emergence. *Environmental Health Perspectives* **2004**, 112 (10), 1092–1098.
<https://doi.org/10.1289/ehp.6877>.

(26)

Gottdenker, N. L.; Streicker, D. G.; Faust, C. L.; Carroll, C. R. Anthropogenic Land Use Change and Infectious Diseases: A Review of the Evidence. *EcoHealth* **2014**, 11 (4), 619–632. <https://doi.org/10.1007/s10393-014-0941-z>.

(27)

Forests and emerging infectious diseases of humans.

<http://www.fao.org/tempref/docrep/fao/009/a0789e/a0789e03.pdf>.

(28)

FAO. Forestry and malaria control in Italy. <http://www.fao.org/3/a0789e/a0789e04.htm>.

(29)

Bradley, C. A.; Altizer, S. Urbanization and the Ecology of Wildlife Diseases. *Trends in Ecology & Evolution* **2007**, 22 (2), 95–102. <https://doi.org/10.1016/j.tree.2006.11.001>.

(30)

Kilpatrick, A. M. Globalization, Land Use, and the Invasion of West Nile Virus. *Science* **2011**, 334 (6054), 323–327. <https://doi.org/10.1126/science.1201010>.

(31)

Altizer, S.; Ostfeld, R. S.; Johnson, P. T. J.; Kutz, S.; Harvell, C. D. Climate Change and Infectious Diseases: From Evidence to a Predictive Framework. *Science* **2013**, 341 (6145), 514–519. <https://doi.org/10.1126/science.1239401>.

(32)

60 Minutes Tasmanian Devils.

(33)

Aguirre, A. A.; Tabor, G. M. Global Factors Driving Emerging Infectious Diseases. *Annals of the New York Academy of Sciences* **2008**, 1149 (1), 1–3. <https://doi.org/10.1196/annals.1428.052>.

(34)

Lafferty, K. D.; Gerber, L. R. Good Medicine for Conservation Biology: The Intersection of Epidemiology and Conservation Theory. *Conservation Biology* **2002**, 16 (3), 593–604. <https://doi.org/10.1046/j.1523-1739.2002.00446.x>.

(35)

McCallum, H. Tasmanian Devil Facial Tumour Disease: Lessons for Conservation Biology. *Trends in Ecology & Evolution* **2008**, 23 (11), 631–637.
<https://doi.org/10.1016/j.tree.2008.07.001>.

(36)

Schloegel, L. M.; Hero, J.-M.; Berger, L.; Speare, R.; McDonald, K.; Daszak, P. The Decline of the Sharp-Snouted Day Frog (*Taudactylus Acutirostris*): The First Documented Case of Extinction by Infection in a Free-Ranging Wildlife Species? *EcoHealth* **2006**, 3 (1), 35–40.
<https://doi.org/10.1007/s10393-005-0012-6>.

(37)

Daszak, P.; Cunningham, A. A. Extinction by Infection. *Trends in Ecology & Evolution* **1999**, 14 (7). [https://doi.org/10.1016/S0169-5347\(99\)01665-1](https://doi.org/10.1016/S0169-5347(99)01665-1).

(38)

Skerratt, L. F.; Berger, L.; Speare, R.; Cashins, S.; McDonald, K. R.; Phillott, A. D.; Hines, H. B.; Kenyon, N. Spread of Chytridiomycosis Has Caused the Rapid Global Decline and Extinction of Frogs. *EcoHealth* **2007**, 4 (2), 125–134.
<https://doi.org/10.1007/s10393-007-0093-5>.

(39)

Tompkins, D. M.; Carver, S.; Jones, M. E.; Krkošek, M.; Skerratt, L. F. Emerging Infectious Diseases of Wildlife: A Critical Perspective. *Trends in Parasitology* **2015**, 31 (4), 149–159.
<https://doi.org/10.1016/j.pt.2015.01.007>.

(40)

MacPhee, R. D. E.; Greenwood, A. D. Infectious Disease, Endangerment, and Extinction. *International Journal of Evolutionary Biology* **2013**, 2013, 1–9.
<https://doi.org/10.1155/2013/571939>.

(41)

Frequently Asked Questions | White-Nose Syndrome.
<https://www.whitenosesyndrome.org/faqs>.

(42)

ProMED-mail post - The importance of collaboration for White Nose Syndrome research.
<http://www.promedmail.org/direct.php?id=20130730.1853096>.

(43)

ProMED-mail post - Distemper in Tigers.
<http://www.promedmail.org/direct.php?id=20141106.2935060>.

(44)

Kate E. Jones, Nikkita G. Patel, Marc A. Levy, Adam Storeygard, Deborah Balk, John L. Gittleman. Global Trends in Emerging Infectious Diseases. *Nature*.

(45)

Monkey Malaria: It's Long Been Thought That There Are 4 Only Species of Malaria Parasites That Can Be Hosted by Humans, but Now It's Been Discovered in Malaysian Borneo That There's a Fifth, and It Jumps the Species Barrier, Spreading from Monkeys to Humans.

(46)

R, B.; R, K.; J, F. Infectious Animal Diseases: The Wildlife/Livestock Interface. *OIE Revue Scientifique et Technique* **2002**, 21 (1).

(47)

Miller, M.; Olea-Popelka, F. One Health in the Shrinking World: Experiences with Tuberculosis at the Human-Livestock-Wildlife Interface. *Comparative Immunology, Microbiology and Infectious Diseases* **2013**, 36 (3), 263-268.
<https://doi.org/10.1016/j.cimid.2012.07.005>.

(48)

Plowright, R. K.; Eby, P.; Hudson, P. J.; Smith, I. L.; Westcott, D.; Bryden, W. L.; Middleton, D.; Reid, P. A.; McFarlane, R. A.; Martin, G.; Tabor, G. M.; Skerratt, L. F.; Anderson, D. L.; Cramer, G.; Quammen, D.; Jordan, D.; Freeman, P.; Wang, L.-F.; Epstein, J. H.; Marsh, G. A.; Kung, N. Y.; McCallum, H. Ecological Dynamics of Emerging Bat Virus Spillover. *Proceedings of the Royal Society B: Biological Sciences* **2014**, 282 (1798), 20142124–20142124. <https://doi.org/10.1098/rspb.2014.2124>.

(49)

Wiethoelter, A. K.; Beltrán-Alcrudo, D.; Kock, R.; Mor, S. M. Global Trends in Infectious Diseases at the Wildlife–Livestock Interface. *Proceedings of the National Academy of Sciences* **2015**, 112 (31), 9662–9667. <https://doi.org/10.1073/pnas.1422741112>.

(50)

Chapter 4. In *One Health: the theory and practice of integrated health approaches*.

(51)

Peter Daszak at TEDMED 2010, 13AD.

(52)

Beyond Fences - ICCF - January 27, 2010.
http://www.wcs-ahead.org/webcasts/iccf_1_2010.html.

(53)

Black-Footed Ferret Recovery Program - John Hughes, 9AD.

(54)

Wildlife Trade: Threat to Global Health.
http://download.springer.com/static/pdf/139/art%253A10.1007%252Fs10393-004-0081-y.pdf?originUrl=http%3A%2F%2Flink.springer.com%2Farticle%2F10.1007%252Fs10393-004-0081-y&token2=exp=1454135662~acl=%2Fstatic%2Fpdf%2F139%2Fart%25253A10.1007%25252Fs10393-004-0081-y.pdf%3ForiginUrl%3Dhttp%253A%252F%252Flink.springer.com%252Farticle%252F10.1007%252Fs10393-004-0081-y*~hmac=dc9628f710f24bebc9692a7faa017924c0f23f7fc6992570446d307f059e5195.

(55)

Karesh, W. B.; Cook, R. A.; Bennett, E. L.; Newcomb, J. Wildlife Trade and Global Disease Emergence. *Emerging Infectious Diseases* **2005**, 11 (7), 1000–1002.
<https://doi.org/10.3201/eid1107.050194>.

(56)

Smith, K. F.; Behrens, M.; Schloegel, L. M.; Marano, N.; Burgiel, S.; Daszak, P. Reducing the Risks of the Wildlife Trade. *Science* **2009**, 324 (5927), 594–595.
<https://doi.org/10.1126/science.1174460>.

(57)

Walker, S. F.; Bosch, J.; James, T. Y.; Litvintseva, A. P.; Oliver Valls, J. A.; Piña, S.; García, G.; Rosa, G. A.; Cunningham, A. A.; Hole, S.; Griffiths, R.; Fisher, M. C. Invasive Pathogens Threaten Species Recovery Programs. *Current Biology* **2008**, 18 (18), R853–R854.
<https://doi.org/10.1016/j.cub.2008.07.033>.

(58)

Mathews, F.; Moro, D.; Strachan, R.; Gelling, M.; Buller, N. Health Surveillance in Wildlife Reintroductions. *Biological Conservation* **2006**, 131 (2), 338–347.
<https://doi.org/10.1016/j.biocon.2006.04.011>.

(59)

Aiello, C. M.; Nussear, K. E.; Walde, A. D.; Esque, T. C.; Emblidge, P. G.; Sah, P.; Bansal, S.; Hudson, P. J. Disease Dynamics during Wildlife Translocations: Disruptions to the Host Population and Potential Consequences for Transmission in Desert Tortoise Contact Networks. *Animal Conservation* **2014**, 17 (S1), 27–39. <https://doi.org/10.1111/acv.12147>.

(60)

L, S.; et al. Wildlife Trade and the Emergence of Infectious Diseases.
<http://link.springer.com/article/10.1007/s10393-006-0076-y/fulltext.html>.

(61)

One-on-One Interview with Dr. William Karesh, 30AD.

(62)

BBC World Service - Health Check, Eating Bushmeat.
<http://www.bbc.co.uk/programmes/p02871pm>.

(63)

Karesh, W. B.; Noble, E. The Bushmeat Trade: Increased Opportunities for Transmission of Zoonotic Disease. *Mount Sinai Journal of Medicine: A Journal of Translational and Personalized Medicine* **2009**, 76 (5), 429–434. <https://doi.org/10.1002/msj.20139>.

(64)

Threatened: The Controversial Struggle of the Southern Sea Otter, 2012.

(65)

Bossart, G. D. Marine Mammals as Sentinel Species for Oceans and Human Health. *Veterinary Pathology* **2011**, 48 (3), 676–690. <https://doi.org/10.1177/0300985810388525>.

(66)

Harvell, C. D. Emerging Marine Diseases--Climate Links and Anthropogenic Factors. *Science* **1999**, 285 (5433), 1505–1510. <https://doi.org/10.1126/science.285.5433.1505>.

(67)

Bondad-Reantaso, M. G.; Subasinghe, R. P.; Arthur, J. R.; Ogawa, K.; Chinabut, S.; Adlard, R.; Tan, Z.; Shariff, M. Disease and Health Management in Asian Aquaculture. *Veterinary Parasitology* **2005**, 132 (3–4), 249–272. <https://doi.org/10.1016/j.vetpar.2005.07.005>.

(68)

Shapiro, K.; Conrad, P. A.; Mazet, J. A. K.; Wallender, W. W.; Miller, W. A.; Largier, J. L. Effect

of Estuarine Wetland Degradation on Transport of *Toxoplasma Gondii* Surrogates from Land to Sea. *Applied and Environmental Microbiology* **2010**, 76 (20), 6821–6828.
<https://doi.org/10.1128/AEM.01435-10>.

(69)

Sigler, M. The Effects of Plastic Pollution on Aquatic Wildlife: Current Situations and Future Solutions. *Water, Air, & Soil Pollution* **2014**, 225 (11).
<https://doi.org/10.1007/s11270-014-2184-6>.

(70)

Abalone Virus Raises Concerns about Fish Farming.

(71)

Walker, C. H. Chapter 1. In *Ecotoxicology: effects of pollutants on the natural environment*; CRC Press: Boca Raton, 2014; pp 3–8.

(72)

Arnold, K. E.; Brown, A. R.; Ankley, G. T.; Sumpter, J. P. Medicating the Environment: Assessing Risks of Pharmaceuticals to Wildlife and Ecosystems. *Philosophical Transactions of the Royal Society B: Biological Sciences* **2014**, 369 (1656), 20130569–20130569.
<https://doi.org/10.1098/rstb.2013.0569>.

(73)

Jones, K. C.; de Voogt, P. Persistent Organic Pollutants (POPs): State of the Science. *Environmental Pollution* **1999**, 100 (1–3), 209–221.
[https://doi.org/10.1016/S0269-7491\(99\)00098-6](https://doi.org/10.1016/S0269-7491(99)00098-6).

(74)

UNEP. *Ridding the World of POPs: A Guide to the Stockholm Convention on Persistent Organic Pollutants*, 2010.

(75)

Persistent Organic Pollutants: A Global Issue, A Global Response.

<http://www.epa.gov/international-cooperation/persistent-organic-pollutants-global-issue-global-response#table>.

(76)

Mahapatro, G. K.; Arunkumar, K. The Case for Banning Diclofenac and the Vanishing Vultures. *Biodiversity* **2014**, 15 (4), 265–268.

<https://doi.org/10.1080/14888386.2014.978374>.

(77)

Finkelstein, M. E.; Doak, D. F.; George, D.; Burnett, J.; Brandt, J.; Church, M.; Grantham, J.; Smith, D. R. Lead Poisoning and the Deceptive Recovery of the Critically Endangered California Condor. *Proceedings of the National Academy of Sciences* **2012**, 109 (28), 11449–11454. <https://doi.org/10.1073/pnas.1203141109>.

(78)

Peters, E. C.; Gassman, N. J.; Firman, J. C.; Richmond, R. H.; Power, E. A. Ecotoxicology of Tropical Marine Ecosystems. *Environmental Toxicology and Chemistry* **1997**, 16 (1), 12–40. <https://doi.org/10.1002/etc.5620160103>.

(79)

Sea Week: Picture the World's Biggest Dump and You Probably Don't Picture an Ocean. Behind The News.

(80)

FluCheck - World Health Organisation.

<http://www.who.int/influenza/resources/documents/FluCheck6web.pdf?ua=1>.

(81)

Pedersen, K.; Baroch, J. A.; Nolte, D. L.; Gidlewski, T.; Deliberto, T. J. The Role of the National Wildlife Disease Program in Wildlife Disease Surveillance and Emergency Response. *USDA National Wildlife Research Center - Staff Publications* **2012**, 74–80.

(82)

AUSVETPLAN Manuals and Documents - Animal Health Australia.

<https://www.animalhealthaustralia.com.au/our-publications/ausvetplan-manuals-and-documents/>.

(83)

Bisson, I.-A.; Ssebide, B. J.; Marra, P. P. Early Detection of Emerging Zoonotic Diseases with Animal Morbidity and Mortality Monitoring. *EcoHealth* **2015**, 12 (1), 98–103.

<https://doi.org/10.1007/s10393-014-0988-x>.

(84)

One Health: People, Animals, and the Environment; Atlas, R. M., Maloy, S. R., Eds.; ASM Press: Washington, DC, 2014.

(85)

McCloskey, B.; Dar, O.; Zumla, A.; Heymann, D. L. Emerging Infectious Diseases and Pandemic Potential: Status Quo and Reducing Risk of Global Spread. *The Lancet Infectious Diseases* **2014**, 14 (10), 1001–1010. [https://doi.org/10.1016/S1473-3099\(14\)70846-1](https://doi.org/10.1016/S1473-3099(14)70846-1).

(86)

Sands, P.; Mundaca-Shah, C.; Dzau, V. J. The Neglected Dimension of Global Security — A Framework for Countering Infectious-Disease Crises. *New England Journal of Medicine* **2016**, 374 (13), 1281–1287. <https://doi.org/10.1056/NEJMSr1600236>.

(87)

Review on Antimicrobial Resistance. Antimicrobials in Agriculture and the Environment - Reducing Unnecessary Use and Waste.Pdf.

(88)

Carroll, D.; Wang, J.; Fanning, S.; McMahon, B. J. Antimicrobial Resistance in Wildlife: Implications for Public Health. *Zoonoses and Public Health* **2015**, 62 (7), 534–542.

<https://doi.org/10.1111/zph.12182>.

(89)

Bonnedahl, J.; Järhult, J. D. Antibiotic Resistance in Wild Birds. *Upsala Journal of Medical Sciences* **2014**, 119 (2), 113–116. <https://doi.org/10.3109/03009734.2014.905663>.

(90)

Cabello, F. C.; Godfrey, H. P.; Tomova, A.; Ivanova, L.; Dölz, H.; Millanao, A.; Buschmann, A. H. Antimicrobial Use in Aquaculture Re-Examined: Its Relevance to Antimicrobial Resistance and to Animal and Human Health. *Environmental Microbiology* **2013**, 15 (7), 1917–1942. <https://doi.org/10.1111/1462-2920.12134>.

(91)

Hoffman, S. J.; Outterson, K.; Røttingen, J.-A.; Cars, O.; Clift, C.; Rizvi, Z.; Rotberg, F.; Tomson, G.; Zorzet, A. Bulletin of the World Health Organization - An International Legal Framework to Address Antimicrobial Resistance. *Bulletin of the World Health Organization* **2015**, 93 (2), 66–66. <https://doi.org/10.2471/BLT.15.152710>.

(92)

Global Risks 2013 - World Economic Forum - The Dangers of Hubris on Human Health. <http://reports.weforum.org/global-risks-2013/risk-case-1/the-dangers-of-hubris-on-human-health/>.

(93)

Likens, G. E. The Role of Science in Decision Making: Does Evidence-Based Science Drive Environmental Policy? *Frontiers in Ecology and the Environment* **2010**, 8 (6), e1–e9. <https://doi.org/10.1890/090132>.

(94)

Buttke, D. E.; Decker, D. J.; Wild, M. A. THE ROLE OF ONE HEALTH IN WILDLIFE CONSERVATION: A CHALLENGE AND OPPORTUNITY. *Journal of Wildlife Diseases* **2015**, 51 (1), 1–8. <https://doi.org/10.7589/2014-01-004>.

(95)

Bryant, C. Does Australia Need a More Effective Policy of Science Communication? *International Journal for Parasitology* **2003**, 33 (4), 357–361. [https://doi.org/10.1016/S0020-7519\(03\)00004-3](https://doi.org/10.1016/S0020-7519(03)00004-3).

(96)

Fournier, A.; Young, I.; Rajić, A.; Greig, J.; LeJeune, J. Social and Economic Aspects of the Transmission of Pathogenic Bacteria between Wildlife and Food Animals: A Thematic Analysis of Published Research Knowledge. *Zoonoses and Public Health* **2015**, 62 (6), 417–428. <https://doi.org/10.1111/zph.12179>.