

Part of



Understanding Biodiversity and Health

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Richard Kock, Prof Royal Veterinary College, London (retired)

Chair IUCN SSC WHSG 2008-2022

Vice President Wildlife Disease Association richardakock@icloud.com



Royal Veterinary College
University of London

Whose priorities? Whose health?

Connecting Global Priorities: Biodiversity and Human Health

A State of Knowledge Review



WHO/CBD derived One Health content:
water; food and nutrition; **diseases**;
medicines; physical, mental and cultural
dimensions of health; adaptation to
climate change – Humancentric like the
SDGs?

[untitled \(cbd.int\)](#)



Convention on
Biological Diversity



World Health
Organization

Grand Statements. CBD strategy may be flawed in the context of disease risks and drivers. What is the truth?

“The relationship between biodiversity loss and the emergence and spread of communicable and noncommunicable disease and increasing health inequalities is **well known**, [9][12][13][14] as is the role of conservation and sustainable use of biodiversity in prevention [15], reduction [3], and proactive management [16] of communicable and noncommunicable disease risks;...”

.... based on very limited evidence though?

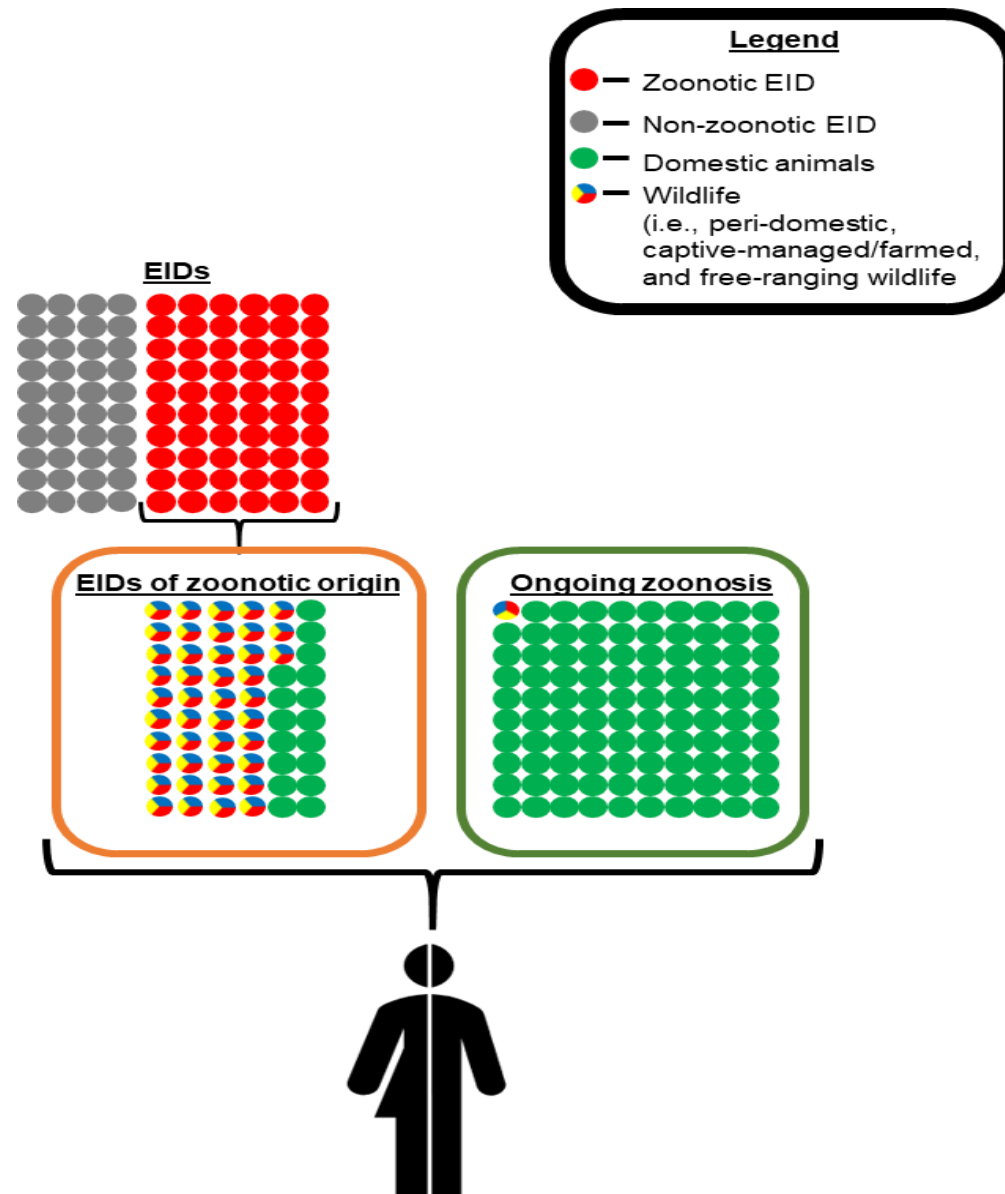
Updated draft of the Global Action Plan on Biodiversity and Health

As highlighted in the IPBES Workshop Report on Biodiversity and Pandemics, almost all pandemics, and **the majority of emerging infectious diseases (EIDs), are caused by wildlife-origin pathogens**, and pandemics risk is increasing rapidly, driven by exponentially increasing anthropogenic changes, with more than five new diseases emerging in people every year.

CBD/SBSTTA/24/9 Page 9 2021

But is this true?

Where do Emerging Infectious Diseases come from?



Where do Emerging Infectious Diseases come from?

Common narrative “70% EID from wildlife” but actually only ~ 43% of EID have wildlife origins based on Jones 2008 data, rest from domestic animals or other pathways - and this cross section is only of 145 or so, emergent pathogens over 4 decades – crude assessment .



Where do Emerging Infectious Diseases come from?

Common narrative “70% EID from

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asse

There are over 1400 human pathogens of which Taylor 2001 noted about 175 emergent at the time, were of “wildlife” origin. So only 9% of human pathogens!



What are Emerging Infectious Diseases (EID)? Need proportionality

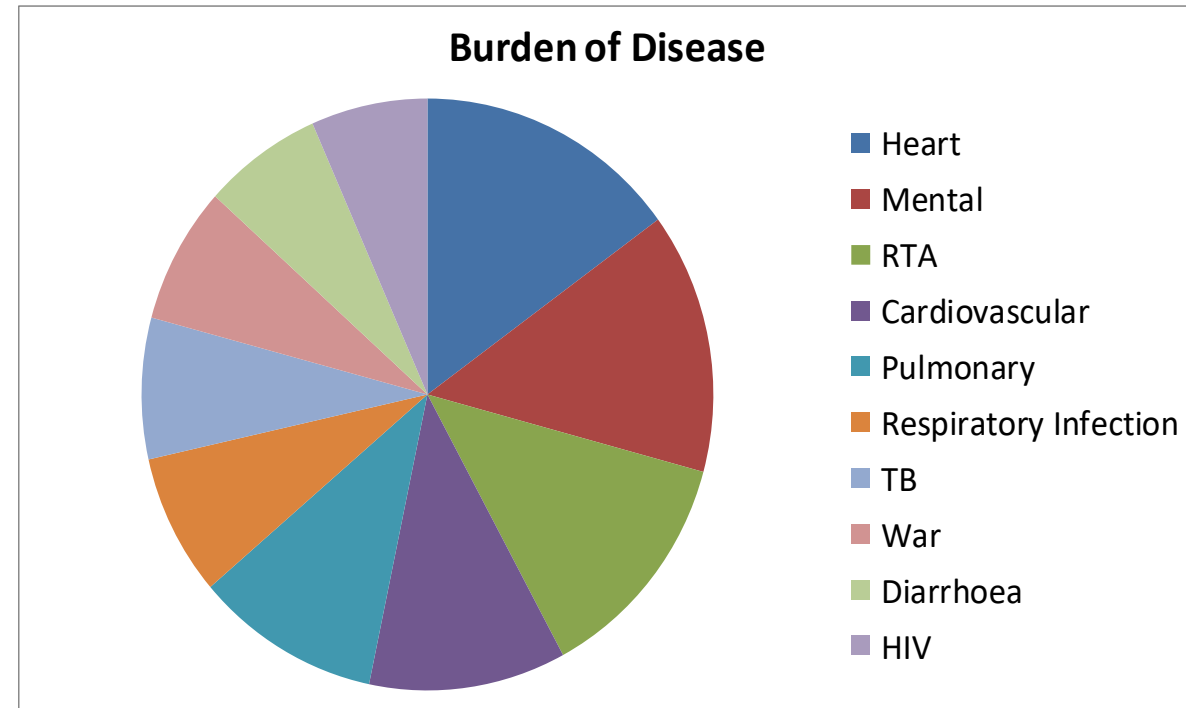
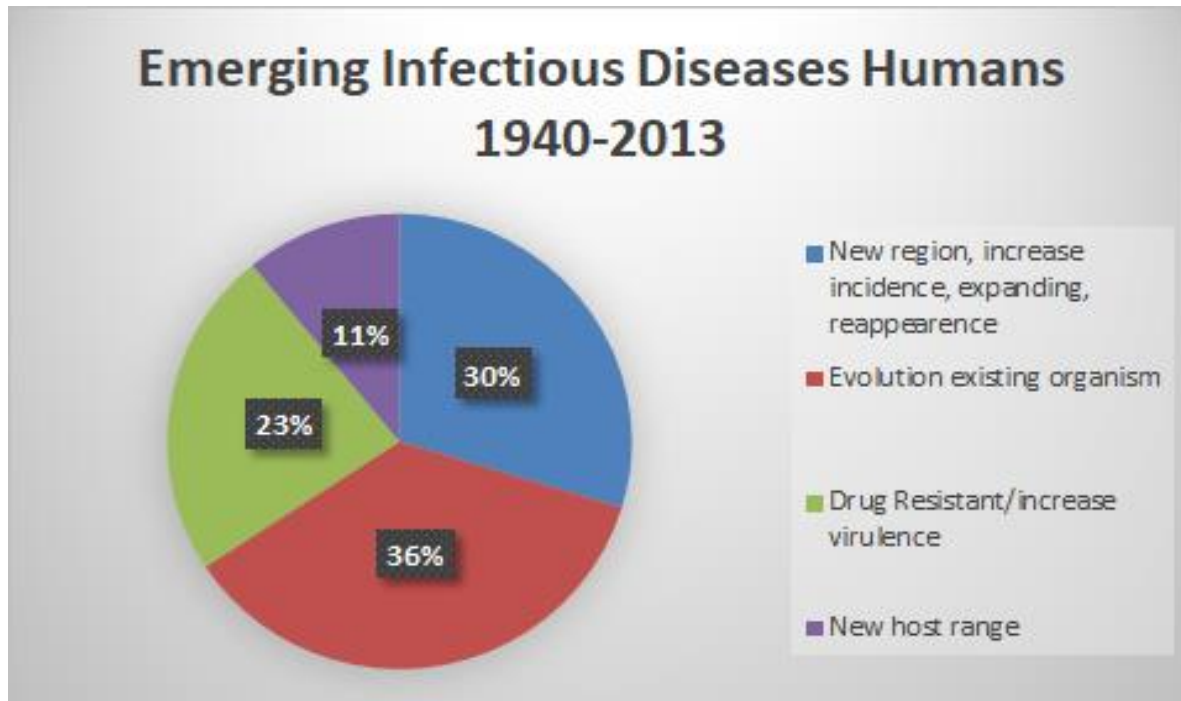


Figure 3. Reanalysis of Emerging Infectious Diseases from Jones et al. 2008 and Allen et al. 2017 In IUCN Situation Analysis on Wildlife and Wildlife Trade and disease

Zoonosis is rare even if important.
Zoonosis is not even accounted for in the human global burden of disease

Acknowledgements



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CO-OP4 CBD Workshop
Organisers