



THE PLACE OF VETERINARIANS IN ONE HEALTH INITIATIVES



Prof. Pwaveno H. Bamaiyi

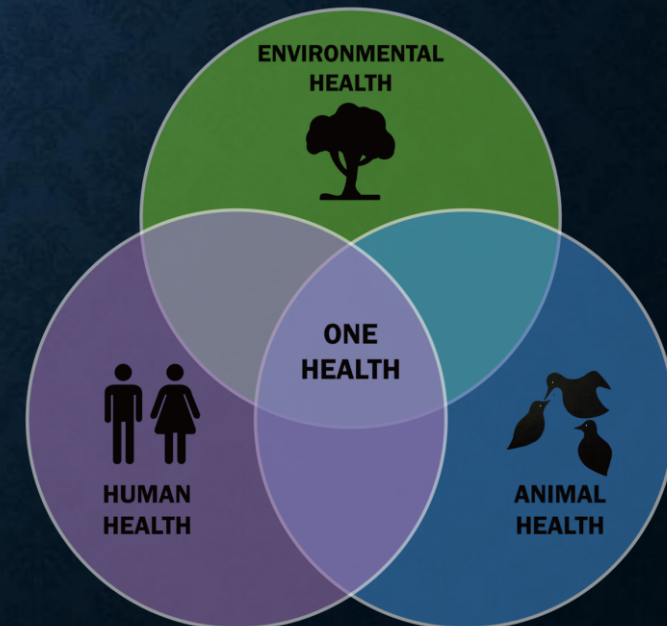
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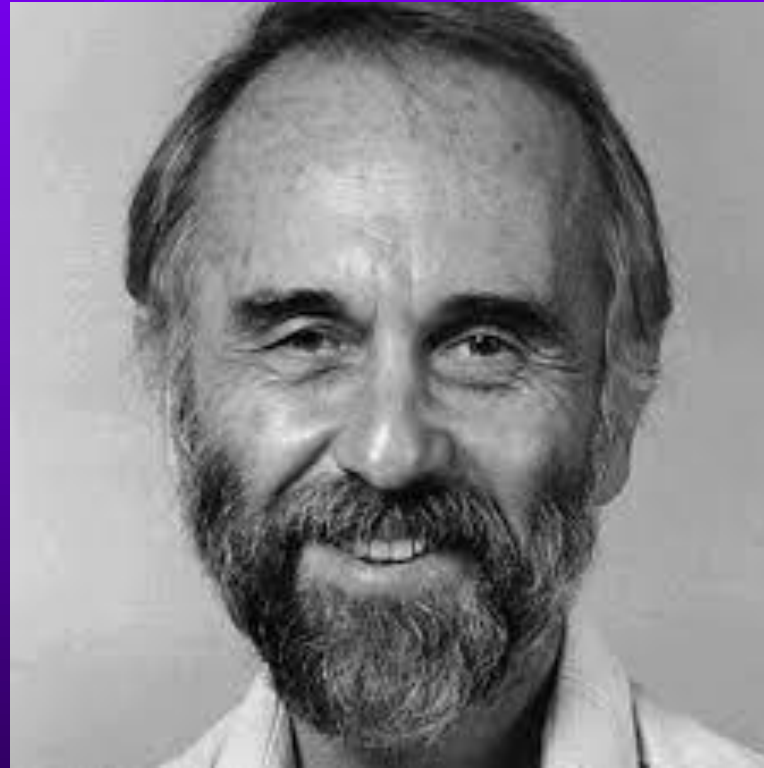
OUTLINE

- A brief history of one health initiative
- Scope of One Health
- Role of Clinical practitioners
- Take home message

BRIEF HISTORY OF ONE HEALTH INITIATIVE

- Existed for centuries from Aristotle to Zoobiquity (A toZ)
- Calvin Schwabe and Jakob Zinsstag-One Medicine in the 1990s
- One Health and SARS in 2003
- William Karesh in 2003 “Human or livestock or wildlife health can't be discussed in isolation anymore,’ Karesh said. ‘There is just one health. And the solutions require everyone working together on all the different levels”
- Michael Koch (2003)
- Wilcox and Aguirre (July 2004)-One Ocean, One Health
- Manhattan principles (One World One Health Conference September 2004)

Dr. Calvin W. Schwabe (father of Veterinary Epidemiology)



BRIEF HISTORY OF ONE HEALTH INITIATIVE CONT.

- In 2005 Lancet published an article by Zinsstag detailing the expansion of One Medicine to One Health
- Historic 2007 'One Health' liaison between the American Veterinary Medical Association (AVMA) and American Medical Association (AMA) resulted in what has been referred to as "One Health Initiative" from the 'One Medicine-One Health' historical perspective
- One Health from Zoonoses to antimicrobial resistance, re-emerging infectious and chronic non-infectious diseases, environmental contamination, climate change, food safety/security, loss of biodiversity, economic sustainability, social-ecological systems, traditional indigenous knowledge, oceans health...

BRIEF HISTORY OF ONE HEALTH INITIATIVE CONT.

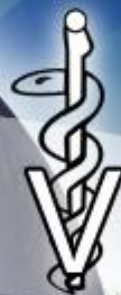
- Berlin principles in 2019-updated Manhattan principles (One Health in an economic and socio-politic context with an urgent call for a more cooperative interaction at all levels of society)
- World Health Summit in 2022 and 2023 (Quadripartite leaders (UNFAO, United Nations Environment Programme UNEP, WHO, and World Organization for Animal Health WOAHA))
- A pre-workshop “Breaking Barriers: Advancing the One Health Agenda with a Focus on Environment” preceded the 2023 WHS.

Zoonoses can be the other way round (Zooanthroponosis)

Epidemiological investigations carried out in the majority of 24 countries that reported detections of the novel re-assortment H1N1 influenza virus in domestic swine and turkey populations in 2010 concluded that sick humans were the primary source of infection for these domestic animal populations



One Health initiative



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Field of Interest	Cryptosporidiosis, Toxocariasis and Flood bacteria
No. of Student Master/PhD	Past 0 / 0
No. of Student Master/PhD	Current 1 / 2
Google Scholar	https://scholar.google.com/citations?user=vyI96PEAAAAJ&hl=en
Publication	2014 , 2015

ONE HEALTH DAY

ONE HEALTH DAY
NOVEMBER 3



SCOPE OF ONE HEALTH

The most commonly used definition shared by the US Centers for Disease Control and Prevention and the One Health Commission is: ‘One Health is defined as a collaborative, multisectoral, and transdisciplinary approach—working at the local, regional, national, and global levels—with the goal of achieving optimal health outcomes recognizing the interconnection between people, animals, plants, and their shared environment’

MY DEFINITION

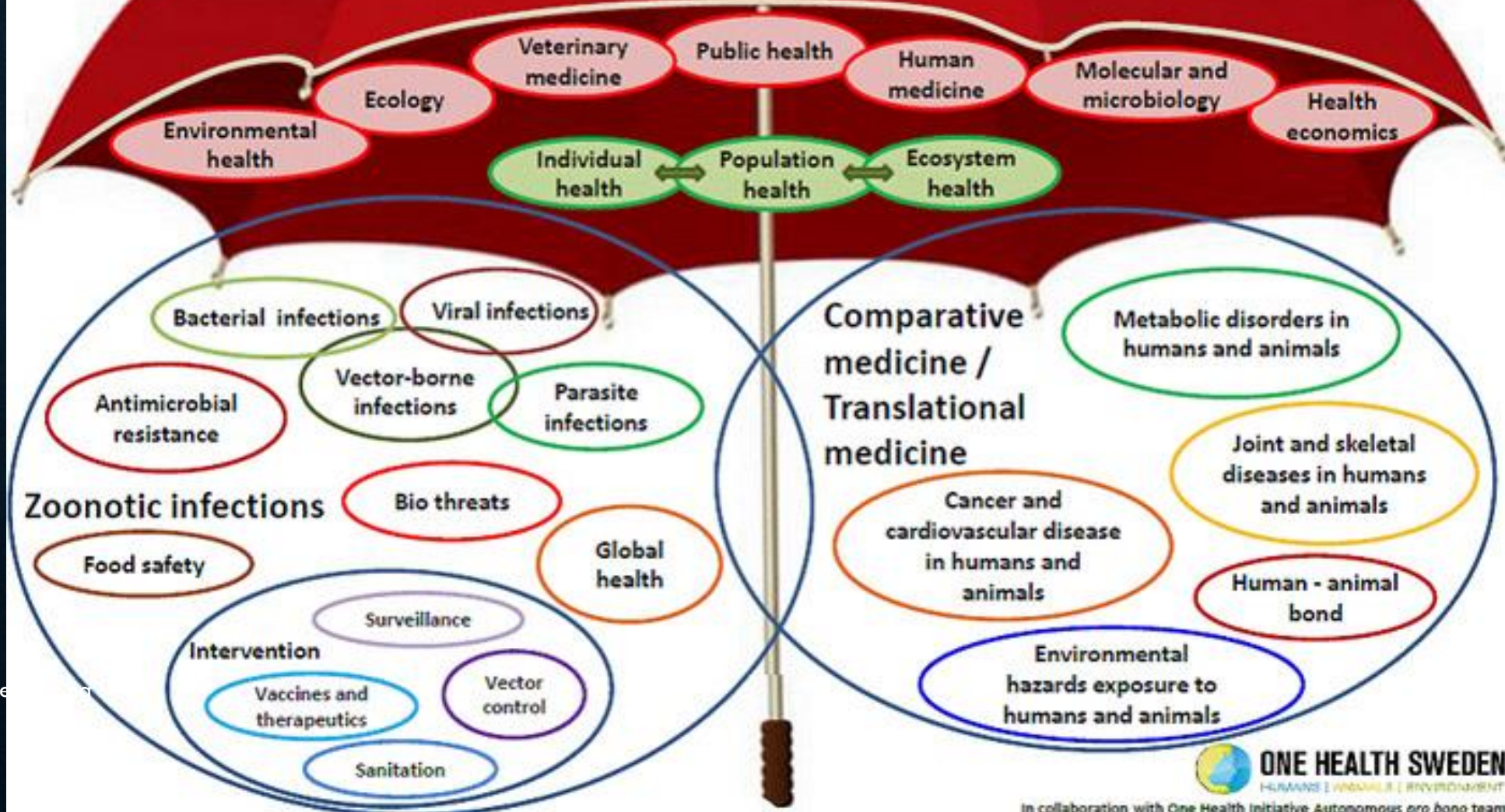
One Health is a multidisciplinary and transdisciplinary approach to ensure and sustain animal health, human health and environmental health at local, national and global levels

The 13 most Common Zoonoses

They are, in descending order:

zoonotic gastrointestinal disease; leptospirosis;
cysticercosis; zoonotic tuberculosis (TB); rabies;
leishmaniasis (caused by a bite from certain sandflies);
brucellosis (a bacterial disease that mainly infects
livestock); echinococcosis; toxoplasmosis; Q fever; zoonotic
trypanosomiasis (sleeping sickness), hepatitis E; and
anthrax.

One Health



ROLE OF CLINICAL PRACTITIONERS

- Zoonotic Disease role
- AMR role
- Food security and Food safety role
- Waste disposal role
- Prophylaxis role
- Research role
- Sensitization role (Awareness)



ZOONOTIC DISEASE ROLE



- Dr B
- Dr A

<https://www.thesun.co.uk/news/4478564/dozens-of-live-maggots-squeezed-out-of-dog/>

ANTIMICROBIAL RESISTANCE ROLE

“Veterinarians are leaders and stewards in preserving the effectiveness of antimicrobials. We work conscientiously with antibiotics and other antimicrobial drugs, safeguarding their continued effectiveness in both human and veterinary medicine while ensuring high-quality medical care for our animal patients”. AVMA

FOOD SECURITY AND SAFETY ROLE

"As veterinarians, we are responsible for protecting the health and welfare of livestock and ensuring that food of animal origin is safe for consumption," Dr. Ndayako

WASTE DISPOSAL ROLE

Vets must take a proactive response to dispose of all waste their facility produces. Veterinary waste management includes everything from ensuring the proper storage of waste to arranging removal and disposal in line with the relevant regulations

PROPHYLAXIS ROLE



RESEARCH ROLE

Veterinarians working in pharmaceutical and biomedical research firms develop, test, and supervise the production of drugs, chemicals, and biological products, such as antibiotics and vaccines for human and animal use

Laboratory animal veterinarians help select the best animal models for particular research projects and carefully monitor the animals to ensure proper care and attention to the animals' well-being



SENSITIZATION ROLE



TAKE HOME MESSAGE

“Between animal and human medicine there are no dividing lines—nor should there be. The object is different but the experience obtained constitutes the basis of all medicine.” Rudolf Virchow (1858)

The Veterinarian as a Leader

Be a Leader!

Great leaders don't tell you what
to do....they show you how its done

