

One Health for Neglected Tropical Diseases

Dr. Pia Marino Tinajero

Mexican Society of Public Health, Mexico



Abstract

Neglected tropical diseases (NTDs) are a group of communicable diseases that thrive, mainly, in low-resource populations and are typically found in tropical climates. Their transmission and sustained prevalence are given by both geographical and social factors. The World Health Organization (WHO) currently focuses on 20 priority diseases.

Although each disease requires an individually tailored approach, current measures are in urgent need of a paradigm shift from disease-specific interventions to holistic cross-cutting approaches coordinating with adjacent disciplines. This paradigm shift is the One Health approach. According to the Centres for Disease Control and Prevention (CDC) in the US, One Health is 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.

To exemplify the feasibility and effectiveness of the One Health approach in addressing NTDs, I will describe three diseases: Zoonotic visceral leishmaniasis, dracunculiasis and rabies. Zoonotic visceral leishmaniasis is sustained by its main vertebrate reservoir, the dog, making this NTD a good example of the importance of adopting a One Health approach for disease surveillance and control in Europe and Latin America. The case of dracunculiasis (or Guinea-worm disease), further emphasised its importance when after getting close to eradication in Chad, an animal reservoir of parasites in dogs increased the disease incidence. Rabies control has proven that mass canine vaccination programs effectively reduced both canine and human rabies to minimal levels and decreased the economic burden in South-East Asia.

Biography:

Dr. Marino completed her Medical Degree in La Salle University in Mexico City in 2016. Afterward she gained her Masters Degree in Infectious diseases and One Health through the Erasmus Mundus Joint Masters Degree Programme at the University of Tours in France, the Autonomous University of Barcelona in Spain, and the University of Edinburgh in Scotland. Dr. Marino is currently working as project coordinator in the Mexican Society of Public Health. Her academic interests include emerging infectious diseases, modelling of infectious diseases, climate change, outbreak investigation, zoonotic diseases and vector-borne infections.

[2nd Pathology and Infectious Disease Conference](#); Webinar- December 14, 2020.

Abstract Citation:

Dr. Pia Marino Tinajero, One Health for Neglected Tropical Diseases, Pathology Meet 2020, 2nd Pathology and Infectious Disease Conference; Webinar- December 14, 2020

<https://biopathology.pathologyconferences.com/2020>

