



PMAC | PRINCE MAHIDOL
AWARD CONFERENCE **2018**



PARALLEL SESSION 2.4

**CHANGING DYNAMICS: EMERGING INFECTIOUS DISEASES AND ANTIMICROBIAL
RESISTANCE IN AN ERA OF EXPANDING GLOBAL HUMAN POPULATION
GROWTH AND MOVEMENT**



| BACKGROUND

The global human population is projected to peak at over 11 billion this century. Accelerated human population growth and corresponding changes in demography, along with associated food and companion animal population increases, are altering disease dynamics and will continue to drive emerging infections and transmission over the course of the next century. This session will explore the connections among infectious disease emergence, antimicrobial resistance (AMR), and changing human and animal population dynamics. We will explore the state-of-the-art in emerging disease and AMR detection and forecasting and answer the question, "How can we minimize emerging disease and AMR risks linked to changing demography."

| OBJECTIVES

This session aims to explore and address the impacts of growing human and animal populations and unplanned mega-cities and peri-urban settlements on disease emergence, amplification, and global distribution. Accordingly, presenters will also tackle the risks associated with surging global trade and travel and illustrate how forecasting can inform risk mitigation.

Specific Objectives:

- Explore projected demographic trends over the 21st century and their impact on expected zoonotic disease emergence and AMR
- Enhance understanding of how trends in demography will differ regionally; how differences in agricultural productivity and marketing practices will impact emerging disease risk, including spread of AMR; and how purchasing power and animal protein demand will have global supply chain impacts and associated emerging disease risk
- Highlight practical, evidence-driven approaches to defining, forecasting, and mitigating human demographic-driven emerging disease risk



Panelist

Evelyn Wesangula

Coordinator

Global Antibiotic Resistance Partnership
Kenya

Evelyn is a pharmacist with an Msc. in Tropical and infectious Diseases who has over ten years experience at the Ministry of Health in Kenya. She has successfully championed the development of the National Policy and Action Plan for Antimicrobial Resistance in Kenya from a multi-sectoral perspective. She has been key in the implementation of infection prevention and control (IPC) interventions, antimicrobial resistance (AMR) surveillance activities, and antibiotic stewardship and awareness programs at a national level. As a member of the infection prevention and control team at the National Level within the Ministry of Health and she has supported the development and implementation of the National Infection Prevention and Control Guidelines and a national training curriculum for basic infection prevention and control for health care settings. Evelyn has organized antibiotic awareness weeks for five consecutive years in Kenya. This contributed to the establishment of the AMR program within the Ministry of Health. This year she will support the development of the National antimicrobial stewardship guidelines for Kenya. She has worked as a consultant with the World Health Organization on developing guidance on establishing and sustaining multi-sectoral collaboration to support implementation of the National Action Plans and was recently appointed as a member of the Fleming Fund Technical Advisory Group. She is currently pursuing her PHD on antimicrobial stewardship at the University of Nairobi, School of Pharmacy. Evelyn is committed to overcoming barriers, work with partners within and from outside her country to sustain changes that will reduce the burden of AMR in Kenya.