Session 4 | Priority Vaccines: Polio, TB, Dengue, Malaria and Salmonella vaccines Speakers

- Dr. Raches Ella, Head-Business Development & Advocacy-Bharat Biotech
- Dr. Julio Henrique Rosa Croda, Associate Professor, Faculty of Medicine of the Federal University of Mato Grosso do Sul and the School of Public Health at Yale University, Specialist in Science, Technology and Innovation in Public Health, Oswaldo Cruz Foundation
- Ms. Iin Susanti Budiharto, Director for Production & Supply Chain-PT BioFarma
- Dr. Chunlin Xin, Vice President of external R&D-CanSino Biologics Inc.
- Dr. Sushant Sahastrabuddhe, Director for Innovation, Initiatives, and Enterprise Development-IVI
- Mr. Siddhartha Prakash, Head of Global Health-WIPO

22/05/2025 | Title of the presentation

Global priority endemic pathogens for vaccine R&D

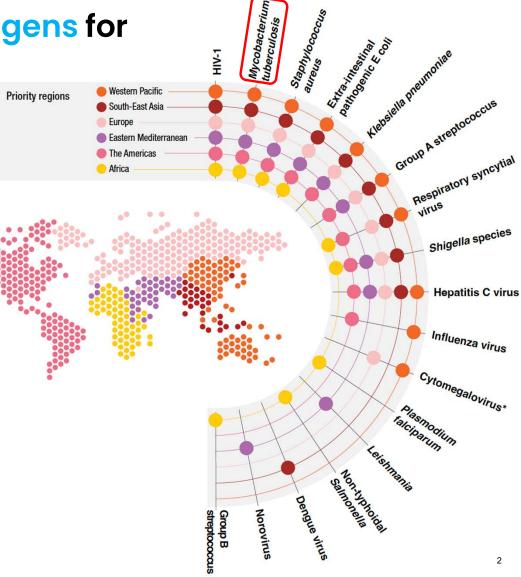
Input from experts to rank pathogens based on how many **lives they affect**, their contribution to **drug resistance**, and the **social and economic toll**.

WHO identified **17 endemic pathogens**, such as tuberculosis and HIV, as top priorities for new vaccines.

We validated **existing priorities-**- TB, HIV, and malaria, and **highlight new**, for example Group A *streptococcus* and *K pneumoniae*.

We categorised pathogens and vaccines against them depending on needs: **research**, **advance product development**, **or prepare to implement**.

The findings will help **inform decisions about health policies and research funding.**



In 2023, WHO launched the TB Vaccine Accelerator Council

Aims to support the community of key stakeholders accelerate the development, approval and use effective novel TB vaccines.







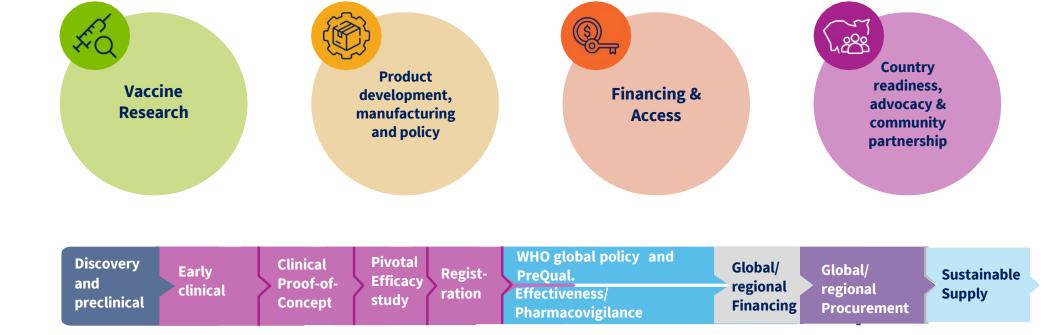


Committment to convene stakeholders in 2025 to discuss **options for procurement** and financing of late-stage vaccines

To inform the council we propose to:

Establish 4 key technical and strategic working groups across the TB vaccine value chain

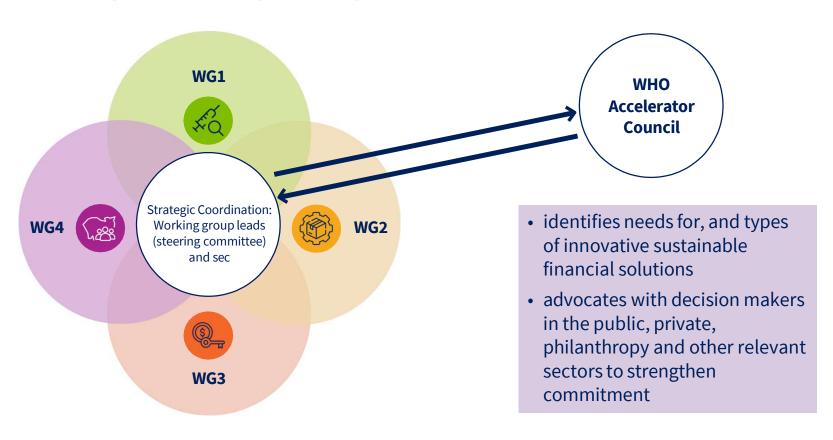




Scope of the working groups is highly integrated



Activities and assumptions of one depend on inputs from another



WHO Report on the role of vaccines in reducing AMR



The report summarizes the evidence on the role of 44 vaccines against 24 pathogens in reducing AMR



Vaccines could avert annually:

- 2.5 billion doses of antibiotics 22% of burden
- 515 000 deaths associated with AMR
- \$30 billion in hospital costs associated with AMR

Key recommendations:



- Introduce, scale up, and monitor the impact of existing vaccines
- Prepare for vaccine introduction
- Enable vaccine development, delivery and implementation
- Integrate the role of vaccines alongside other approaches

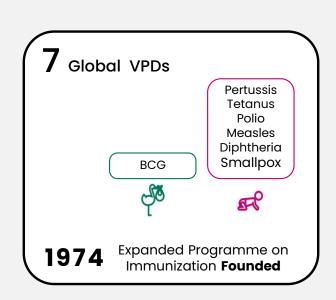
https://www.who.int/teams/immunization-vaccines-and-biologicals/product-and-delivery-research/anti-microbial-resistance

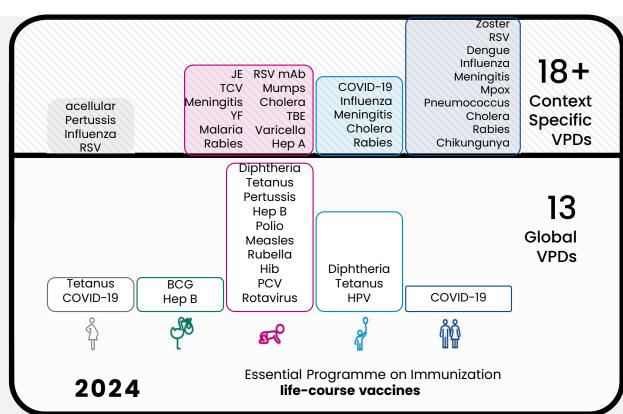
Estimating the impact of vaccines in reducing antimicrobial resistance and antibiotic use



The role of vaccines in reducing AMR

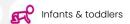
The #vaccine preventable diseases has massively expanded From 7 VPDs in 1974 (mostly for infants)....... to >13 (through life-course) in 2024





Encephalitis; PCV: pneumococcal conjugate vaccine; RSV: respiratory syncytial virus; TBE: Tick-Borne Encephalitis; TCV typhoid conjugate vaccine; YF: yellow fever. Not all context specific VPDs have a WHO SAGE recommendation

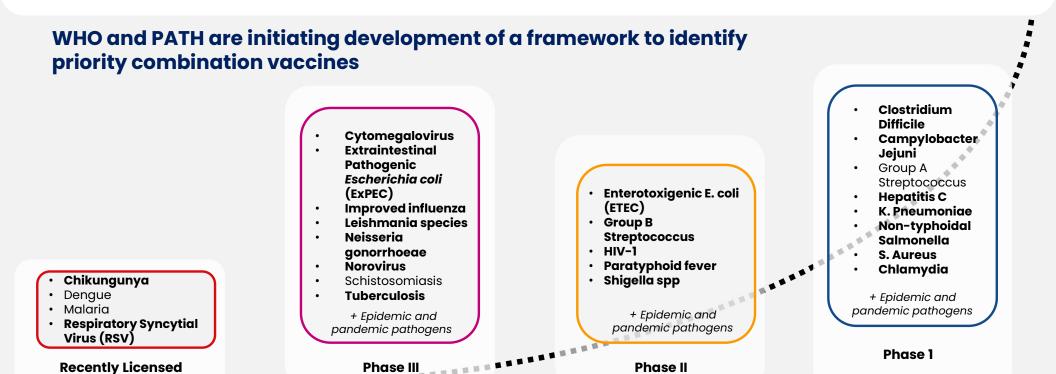








..... and the adult vaccine portfolio is likely to expand in the short and medium term





2024 WHO Product Development for Vaccines Advisory Committee

https://www.who.int/groups/product-development-forvaccines-advisory-committee

9-11 December hybrid

giersingb@who.int

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