TUESDAY, DECEMBER 5

8:30-8:50 Opening Session

Welcome Remarks and Housekeeping Items

Denise Garrett, Sabin Vaccine Institute

Opening Keynote

Anuradha Gupta, Sabin Vaccine Institute

8:50-9:50

Plenary Session 1:

KILIMANJARO BALLROOM

Global Challenges in the Fight against Typhoid and Invasive Salmonelloses: The Urgency to Act

9:50-10:10 Coffee Break & Poster Viewing

10:10-12:10 Oral Abstract Session 1

KILIMANJARO BALLROOM

Vaccines

SESSION MODERATED BY: TBD

Serological Response using ELISA Anti-Vi-IgG After Single Dose of Typhoid Conjugate Vaccine Against Salmonella Typhi Among Children in Hyderabad, Pakistan

Farah N. Qamar, Department of Pediatrics and Child Health, Aga Khan University

The Validity of Different Study Designs in Estimating the Protection of Typhoid Conjugate Vaccine

Xinxue Liu, Oxford Vaccine Group, Department of Paediatrics, University of Oxford, and the NIHR Oxford Biomedical Research Centre

Persistence of Immune Response Following Vaccination with a Single Dose Typhoid Conjugate Vaccine (Vi-TCV) in Nepalese Children

Dikshya Pant, Patan Academy of Health Sciences, Patan Hospital

Effectiveness of Typhoid Conjugate Vaccine (TCV): A Systematic Review

Amira Mahboob, World Health Organization Regional Office for the Eastern Mediterranean

Efficacy of Typhoid Conjugate Vaccine Against Culture-Confirmed Salmonella Typhi

A Systematic Review and Meta-Analysis
 Rabab Batool, Aga Khan University Hospital

Safety of Typhoid Conjugate Vaccine Booster Vaccination in Malawian Children

Osward Nyirenda, Blantyre Malaria Project, Kamuzu University of Health Sciences



Test-Negative Design: An Efficient Method to Assess Typhoid Conjugate Vaccine Effectiveness

Matthew Laurens, University of Maryland School of Medicine

A Phase IV Clinical Study to Evaluate the Immunogenicity and Safety of Typhoid Conjugate Vaccine (Typbar TCVA®) in Elderly Population

Raches Ella, Bharat Biotech International

12:10:13:30 Lunch

13:30-15:00 Maximizing Learnings from Clinical

KILIMANJARO BALLROOM

Trials and Public Sector Use — the Full

Public Health Value of Typhoid Conjugate Vaccines

SYMPOSIUM SESSION CHAIRED BY: Megan E. Carey and Thomas C. Darton

Longer-Term Efficacy of Typhoid Conjugate Vaccine in Malawi

Priyanka Patel, Malawi-Liverpool-Wellcome Trust

New findings on Immunogenicity of TCV: Booster Dose in School-Aged Children and 1 Versus 2 Dose Regimens in HIV-Exposed Infants

Osward Nyirenda, Blantyre Malaria Project

Typhoid Fever Surveillance in Urban Dhaka, Bangladesh: Risk Factors and Antimicrobial Resistance Pattern Farhana Khanam, icddr, b

Effectiveness of Typhoid Conjugate Vaccine (Typbar-TCV) Against Blood Culture-Confirmed Typhoid in an Extensively Drug Resistant Typhoid Outbreak in Pakistan

Farah N. Qamar, Department of Pediatrics and Child Health, Aga Khan University

The Impact of a TCV Mass Campaign on Typhoid Fever Cases and Antimicrobial Use in Harare, Zimbabwe Ioana Diana Olaru, London School of Hygiene and Tropical Medicine, London

Measuring the Impact of Typhoid Conjugate Vaccines on Antimicrobial Usage from Pivotal Efficacy Studies James E. Meiring, Department of Infection, Immunity and Cardiovascular Disease, University of Sheffield

15:00-15:30 Coffee Break & Poster Viewing

15:30-17:30 Oral Abstract Session 2

KILIMANJARO BALLROOM

iNTS

SESSION MODERATED BY:TBD

Study Design & Initial Data from Phase1 RCT to Evaluate the Safety, Reactogenicity & Immunogenicity of a Vaccine Against iNTS & Typhoid Fever in Healthy Adults

Yasir Shitu Isa, GSK Vaccines Institute for Global Health

Age-Specific Incidence and Associated Mortality of Invasive Non-Typhoidal Salmonella in Mozambican Children, 2001-2019

Ilnacio Mandomando, Centro de Investigacao em Saude de Manhica (CISM)

Severe Anaemia Increases Risk Of Invasive Non-Typhoidal Salmonella Bacteraemia In Kenyan Children Kelvin Mokaya Abuga, Kemri-Wellcome Trust Research Programme

Modelling the Global Prevalence of Antimicrobial Resistant Invasive Non-Typhoidal Salmonella Infections, 2000 to 2019

Frederick Fell, University of Oxford

IgG and IgA Antigen-Specific B Memory Responses in Healthy U.S. Adults Immunized with a Parenteral Trivalent Salmonella Conjugate Vaccine (TSCV)

Rezwanul Wahid, Center for Vaccine Development, University of Maryland School of Medicine

Antimicrobial Resistance and Intestinal Shedding of Non-Typhoidal Salmonella Among Children Under Five Years and Carriage in Asymptomatic Hosts in Kenya

Celestine Wairimu, Kenya Medical Research Institute

Acquisition of Immunity to Non-Typhoidal Salmonella in Malawian Children to Inform Vaccine-Derived Immunity; a Serological Catalytic Model Helen Dale, University of Liverpool

The Burden of Invasive Non-Typhoidal Salmonella Disease in Six Sites in Africa: Results from the Severe Typhoid Fever Surveillance in Africa Program

Hyonjin Jeon, International Vaccine Institute

17:30-18:00 Break

18:00-19:30 Evening Welcome Reception

REMARKS FROM:

MALAIKA GARDEN



WEDNESDAY, DECEMBER 6

7:45-8:30 Sunrise Symposium:

Salmonella Controlled Human Infection
Models — Insights, Opportunities and Challenges

SYMPOSIUM SESSION CHAIRED BY: Malick Gibani

Preliminary Results From an Oral Vaccine in the Paratyphoid Human Challenge Model

Naina McCann, Oxford Vaccine Group, Department of Paediatrics, University of Oxford

A Typhoid Fever Challenge Model in India? – Opportunities and Challenges

Rakesh Aggarwal, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry

Early and Innate Responses to Human Enteric Fever Challenge

Amber Barton, Wellcome Sanger Institute

Development of a Non-Typhoidal Salmonella Challenge Model

Christopher Smith, Department of Infectious Disease, Imperial College London

8:30-9:30 Plenary Session 2:

KILIMANJARO BALLROOM

Amplifying Impact: Tools and Solutions

to Accelerate Progress

9:30-9:45 Recognitions & Awards

9:45-10:10 Coffee Break & Poster Viewing

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Role of Bacteriophage Defence Systems in the Spread of Drug-Resistant <i>Salmonella</i> Typhi Yogesh Hooda, Child Health Research Foundation		Vaccines for All: The Malawi National Integrated Typhoid Conjugate Vaccine Campaign Latif Ndeketa, Malawi Liverpool Wellcome Programme	
Genomic Analysis and Antimicrobial Resistance Profiling for the Global Collection of Salmonella Paratyphi B Isolates Junaid Iqbal, Aga Khan University		Antimicrobial Susceptibility Patterns of Salmonella Typhi Isolates Following Mass-Targeted Typhoid Conjugate Vaccine Immunization in Harare City, Zimbabwe, 2023 Kudzai Patience Takarinda, National Microbiology Reference Laboratory	

Assessing the Global Risk of Typhoid Outbreaks Caused	Modeling Typhoid Vaccination in Nepal:	
by Extensively Drug Resistant Salmonella Typhi	TCV Impact and Booster Dose Strategy	
Jo Walker, Yale School of Public Health	Virginia Pitzer, Yale University	
Recent Emergence of Cephalosporin Resistant Salmonella Typhi Carrying IncFIB(K) Plasmid Encoding blaCTX-M-15 Gene in India Tharani Priya Thirumoorthy, Christian Medical College, Vellore	Trend of anti-Vi-IgG and anti-Vi-IgA Antibody Responses Induced in Vi-TT Recipients Over the Period of Five Years Among Bangladeshi Children Farhana Khanam, icddr, b	
A 24-Year Passive Surveillance Study Reveals Trends in Antimicrobial Resistance Amongst Salmonella Typhi and Paratyphi A Cases in Bangladesh Arif Mohammad Tanmoy, Child Health Research Foundation	Assessing the Medium-Term Impact of a Typhoid Conjugate Vaccine in Preventing Typhoid Infections in Bangladesh Firdausi Qadri, icddr, b	
Genetic Heterogeneity in the Salmonella Typhi Vi	The Association Between Vaccine Coverage	
Capsule Locus: A Population Genomic Study from Fiji	and Herd Protection: Exploratory Analyses	
Aneley Getahun Strobel, Peter Doherty Institute	of a Cluster-Randomised Trial of Vi Conjugate Vaccine	
for Infection and Immunity	Yiyuan Zhang, Oxford Vaccine Group	
The Genetic Landscape of Salmonella Enterica Serovar	Durability of Anti-Vi IgG and IgA Responses	
Typhi in Zimbabwe Before the Introduction	in 15-month-old Children Vaccinated with a Typhoid	
of Typhoid Conjugate Vaccine (TCV)	Conjugate Vaccine in Burkina Faso	
Tapfumanei Mashe, Ministry of Health and Childcare,	Alphonse Ouedraogo, Groupe de Recherche	
World Health Organization	Action en Santé (GRAS)	
Genomic Characterization of Invasive Salmonella enterica isolated in Severe Typhoid in Africa Surveillance in Ibadan, Nigeria Oyeniyi Stephen Bejide, Chrisland University	Introduction of Typhoid Conjugate Vaccine — A Successful Implementation in Strengthening National Immunization Program of Nepal Navneet Bichha, IIHMR University (World Health Organization/TDR)	

12:10-13:30 Lunch

13:30-15:00 Bridging the Gap: Environmental

KILIMANJARO BALLROOM

and Sero-Surveillance for Estimating Typhoid Burden and Supporting Vaccine Introduction

SYMPOSIUM SESSION CHAIRED BY: Richelle Charles, Nick Grassly, and Kristen Aiemjoy

Latest Advances in Seroepidemiology for Enteric Fever

Kristen Aiemjoy, University of California, Davis

Quick and Informative: Schools as a Platform for Rapid Typhoid Seroepidemiological Assessments

Shiva Naga, Dhulikhel Hospital, Kathmandu University and Sira Jam Munira, Child Health Research Foundation

Mapping Typhoid Transmission: Geospatial Analysis and Seroepidemiology for TCV Prioritization Momin Kazi, Aga Khan University

A Target Product Profile for Wastewater Surveillance of S. Typhi

Supriya Kumar, Bill and Melinda Gates Foundation



Wastewater Surveillance of S. Typhi in Malawi and Comparison with Clinical/Serological Surveillance Jon Rigby, Liverpool School of Tropical Medicine/ Malawi Liverpool Wellcome Trust

Wastewater Surveillance of S. Typhi in India and Comparison with Clinical and Serological Surveillance Dilip Abraham, Christian Medical College, Vellore

Direct sequencing of S. Typhi in wastewater samples to determine antimicrobial resistance and genotype Catherine Troman, Imperial College London

9:45-10:10 Coffee Break & Poster Viewing

15:30-17:30 Oral Abstract Session 5

KILIMANJARO BALLROOM

Surveillance

SESSION MODERATED BY:

Development of a Low-Cost Environmental Surveillance Method for Effective Typhoid Fever Control Shuborno Islam, Child Health Research Foundation

Leveraging Paired Serology to Estimate the Incidence of Typhoidal Salmonella Infection in the STRATAA Study Jo Walker, Yale School of Public Health

Estimating the Burden of Environmental Salmonella Typhi in the Asante Akim North District of Ghana: The Role of Novel Techniques

Michael O. Owusu, Kwame Nkrumah University of Science and Technology

The Burden and Trend of Typhoid Fever in Low- and Middle-Income Countries: An Updated Meta-Regression Approach

Harsh Vivek Harkare, Swiss Tropical and Public Health Institute

Blood Culture Positive Typhoid and Paratyphoid Cases in Children Presenting to Patan Hospital, Nepal, Over a 14-Year Period (2009-2022)

Shrijana Shrestha, Patan Academy of Health Sciences

The Ty-FIVE Project — Strengthening Typhoid Surveillance Around a Mass Vaccination Campaign in the Northern Division of Fiji

Alumita Vuakanisakea, Ty-FIVE Project, International Vaccine Institute

Typhoid-associated Ileal Perforations Following the Introduction of the Typhoid Conjugate Vaccine in Pakistan: Findings from a Multi-Center Surveillance Study

Saqib Hamid Qazi, Aga Khan University

Molecular Surveillance of Non-Typhoidal Salmonella from Environmental Sources in Disease Endemic Informal Settlement in Nairobi, Kenya

Michael Muraya, Kenya Medical Research Institute

THURSDAY, DECEMBER 7

7:45-8:30 Sunrise Symposium:

KILIMANJARO BALLROOM

How Data Drive Decision-Making: Reflections from TCV Introductions in Pakistan and Malawi and the Role of Data Moving Forward

SYMPOSIUM SESSION CHAIRED BY: Emmanuel Mugisha, PATH

Optimizing Surveillance and Interventions to Advance National XDR Typhoid Control: The Pakistan Experience Nada Taqi, World Health Organization

From Decision-Making to Introduction: How Persistence, Partnership, and Planning Led to the Introduction of Typhoid Conjugate Vaccine in Malawi
Esau Mkisi, PATH

ESAU MRISI, PATH

The MENA Typhoid Project: New Insights on Typhoid Burden and Antibiotic Resistance Antoine Abou Fayad, American University of Beirut

8:30-10:00

Landscape, Strategy, and Progress
Update for iNTS Vaccines in Clinical Development

SYMPOSIUM SESSION CHAIRED BY: Melita Gordon, Malawi-Liverpool-Wellcome and Sam Kariuki. KEMRI

Prevalence and Distribution of Non-Typhoidal *Salmonella* enterica Serogroups and Serovars Isolated from Normally Sterile Sites: A Global Systematic Review

John Crump, University of Otago

Sero-Epidemiology of iNTS in Large Field Cohorts from Malawi, Burkina Faso, Kenya and Ghana Helen Dale, University of Liverpool

Economic burden of iNTS and cost-effectiveness analysis for a hypothetical iNTS vaccine in Ghana, Burkina Faso and Malawi

Jung-Seok Lee, International Vaccine Institute

The Public Health Need for iNTS Vaccines, and Preferred Vaccine Characteristics Adwoa Bentsi-Enchill, World Health Organization

A LMIC Perspective on iNTS Vaccine Strategy, and Lessons from Recent Vaccine Introductions Mike Chisema, Malawi Ministry of Health

Current Status of the Clinical Development of Trivalent Salmonella Conjugate Vaccine (TSCV) Wilbur Chen, Center for Vaccine Development

Development of iNTS Conjugate and Preclinical Study for a Novel Trivalent iNTS/Typhoid Vaccine SoJung An, International Vaccine Institute

Development of GMMA-Based Vaccines Against iNTS: Current Status

Rocio Canals Alvarez, GSK Vaccines Institutes for Global Health



10:00-10:30 Coffee Break & Poster Viewing

10:30-12:30 Oral Abstract Session 6

KILIMANJARO BALLROOM

Impact of COVID-19 Pandemic on Enteric Fever Diagnosis in Nepal: Findings from the Surveillance of Enteric Fever Asia Project Study

Dipesh Tamrakar, Dhulikel Hospital-Kathmandu University Hospital

The Application of Machine Learning with High-Content Imaging to Infer Antimicrobial Resistance Phenotypes in *Salmonella* Typhimurium

Sushmita Sridhar, Universidad Peruana Cayetano Heredia, University of New Mexico

Evaluation of a Point-of-Care Multiplex Immunochromatographic Assay (DPP Typhoid Assay) for the Diagnosis of Typhoid

Zahida Azizullah, Aga Khan University

Design and Initial Data from a Phase 1 RCT to Evaluate the Safety and Immunogenicity of a Vaccine Against S. Typhi and S. Paratyphi A in Healthy European Adults

Usman Nasir Nakakana, GSK Vaccines Institute for Global Health

From Rarity to Clarity: The Potential of Seroepidemiology for Monitoring Typhoid Vaccine Impact

Kristen Aiemjoy, University of California, Davis & Mahidol University Faculty of Tropical Medicine

Role of Gallstones in *Salmonella* Typhi Stool Carriage and Shedding in an Urban Typhoid Endemic Setting in Nairobi, Kenya

Samuel Kariuki, Kenya Medical Research Institute

The Impact of Surgical Interventions for Severe Typhoid on Families and Healthcare Systems in Rural South Central Niger

Yakoubou Sanoussi, Hopital de la SIM Galmi

Safety and Immunogenicity of a Bivalent Paratyphoid A-Typhoid Conjugate Vaccine: Phase I Study Andrew Pollard, University of Oxford

12:30-13:45 Lunch

13:45-15:45	Late-Breakers Oral Abstract Session	KILIMANJARO BALLROOM
15:45-16:00	Coffee Break & Poster Viewing	KILIMANJARO BALLROOM
16:00-17:00	Closing Plenary: Forging a Path Forward: The Roadmap to Expand Solutions and Catalyze Change	KILIMANJARO BALLROOM

17:00-17:30 Closing Session

Closing Remarks
Meeting Adjournment
Denise Garrett, Sabin Vaccine Institute