9th International Conference on TYPHOID AND INVASIVE NTS DISEASE 4/30-5/3, 2015

	Thursday, April 30 th , 2015		
6:00 pm – 7:00 pm	Conference check-in and welcome reception		
7:00 pm – 7:05 pm	Overview of conference agenda and meeting objectives Imran Khan, Coalition against Typhoid Secretariat		
7:05 pm – 7:10 pm	Opening statements Anita Zaidi, Bill & Melinda Gates Foundation		
7:10 pm – 7:15 pm	Welcome address Mohammad Subuh, MPPM, Director General CDC		
7:15 pm – 7:30 pm	Salmonellosis: an Indonesian perspective Pretty Multihartina, Director of Center for Biomedical and Basic Technology of Health, NIHRD		
7:30 pm – 8:30 pm	Buffet dinner		
	Friday, May 1 st , 2015		
8:00 am – 9:30 am	Symposium Epidemiology of Enteric Fever		
	Moderator: Eric Mintz, US Centers for Disease Control and Prevention		
8:00 am – 8:05 am	Introduction		
8:05 am – 8:20 am	Typhoid Surveillance in Africa Project: Data Update Florian Marks, International Vaccine Institute		
8:20 am – 8:35 am	Surveillance for Enteric Fever in Asia Project Kashmira Date, US Centers for Disease Control and Prevention		
8:35 am – 8:50 am	Epidemiology and risk factors for typhoid fever in Central Division, Fiji, 2014 Namrata Prasad, Unversity of Otago		
8:50 am – 9:05 am	Environmental, socio-cultural, and behavioral determinants of typhoid fever in the Central Division, Republic of Fiji: an interdisciplinary investigation at multiple scales Aaron Jenkins, Edith Cowan University		
9:05 am – 9:30 am	Questions		
9:30 am – 10:00 am	Tea /Coffee Poster viewing		
10:00 am - 11:45 pm	Oral Presentations: Epidemiology and Mathematical Modelling		



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Moderator: Firdausi Qadri, icddr,b
Introduction
Demographic and Clinical Characteristics of Adult Patients with Typhoid Fever in Cipto Mangunkusumo General Hospital Jakarta Indonesia in 2012-2014 Bonita Effendi, Universitas Indonesia
Mathematical modeling reveals the potential consequences of the worldwide emergence of the H58 haplotype of Salmonella Typhi Virginia Pitzer, Yale School of Public Health
Modelling the contributions of malaria, HIV, and malnutrition to a decline in paediatric invasive non-typhoidal Salmonella disease, Malawi Nicholas Feasey, Liverpool School of Tropical Medicine
Evaluation of a rapid real-time molecular assay to identify S. Typhi, S. Paratyphi A and S. spp from suspected typhoid blood specimen in Bangladesh Jean-Noël Telles, Fondation Mérieux
Typhoid fever in Bangladesh: from infection to protection Firdausi Qadri, icddr,b
Questions
Buffet Lunch
Panel discussion Challenges and approaches in measuring typhoid fever disease burden
Moderator: Rob Breiman, Emory University
Co-Chair: Anita Zaidi, Bill & Melinda Gates Foundation
Panelists
Leon Ochiai, Sanofi Pasteur
Samir Saha, Child Health Research Foundation
Jacob John, Christian Medical College, Vellore
Jeff Stanaway, Institute for Health Metrics and Evaluation
Shousun Szu, Fogarty International Center, National Institutes of Health
Tea/ Coffee Poster Viewing
Symposium Water, Sanitation and Hygiene (WASH) interventions for enteric fever control
Moderator: Steve Luby, Stanford University
Introduction
High rates of enteric fever diagnosis and low burden of disease in rural Nepal Jason Andrews, Stanford University



3:50 pm – 4:05 pm	Linking typhoid transmission to the water distribution system in Katmandu, Nepal Stephen Baker, The Hospital for Tropical Diseases	
4:05 pm – 4:20 pm	Reduction in typhoid fever with improvement in water and sanitation infrastructure in Singapore Goh Kee Tai, Ministry of Health, Singapore	
4:20 pm – 4:35 pm	Impact of a water quality intervention on typhoid incidence in urban India Ayse Ercumen, University of California Berkeley	
4:35 pm – 5:00 pm	Questions	
5:00 pm – 6:00 pm	Keynote Presentation	
	Introduction: TBD	
	The current state of Salmonella research: successes, challenges, barriers, research gaps Gordon Dougan, Wellcome Trust Sanger Institute	
Saturday, May 2 nd , 2015		
8:00 am – 10:30 am	Symposium Invasive Salmonelloses: Antimicrobial resistance, hospitalization and economic impact	
	Moderator: Samir Saha, Child Health Research Foundation	
8:00 am – 8:05 am	Introduction	
8:05 am – 8:20 am	Data from Nigeria: hospitalizations and complications Stephan Obaro, The University of Nebraska Medical Center	
8:20 am – 8:35 am	Epidemiological data from Africa: case fatality and association with drug resistance Jan Jacobs, Institute of Tropical Medicine	
8:35 am – 8:50 am	Hospitalization and complication data from Karachi Sajid Soofi, Aga Khan University	
8:50 am – 9:05 am	Data from Malawi: outbreak data and factors related to complications Nicholas Feasey, Liverpool School of Tropical Medicine	
9:05 am – 9:20 am	Cost of Illness Due to Typhoid Fever in Pemba,Zanzibar, East Africa Arthorn Riewpaiboon, Mahidol University	
9:20 am – 9:35 am	In-vitro resistance of Salmonella Typhi and Paratyphi A raises concern on the use of older fluroquinolones as the first line therapy Palpasa Kansakar, WHO-Nepal, National Public Health Library	
9:35 am – 9:50 am	Clinically and microbiologically derived azithromycin susceptibility breakpoints for Salmonella enterica serovars Typhi and Paratyphi A Christopher Parry, London School of Hygiene and Tropical Medicine	
9:50 am - 10:05 am	Evolving susceptibility patterns in invasive Salmonella typhi isolates in South Africa during 2003 to 2014 Arvinda Sooka, National Institute for Communicable Diseases	
10:05 am – 10:30 am	Questions	
10:30 am – 11:00 am	Tea/Coffee Poster viewing	



11:00 am – 12:40 pm	Symposium Genomics and host susceptibility to enteric fever and NTS disease
	Moderator: Andy Pollard, Oxford University
11:00 am – 11:05 am	Introduction
11:05 am – 11:20 am	HLA and resistance to enteric fever Sarah Dunstan, The University of Melbourne
11:20 am - 11:35 am	Immunity to invasive Salmonella infections: lessons from animal models and man Pietro Mastroeni, University of Cambridge
11:35 am – 11:50 pm	Dissecting the transcriptome during acute enteric fever: Novel insights into human host-responses to infection with Salmonella Typhi Christoph Blohmke, Oxford Vaccine Group, University of Oxford
11:50 pm – 12:05 pm	Salmonella Typhi host specificity: new insights from the study of Typhoid toxin Jorge E. Galán, Yale University School of Medicine
12:05 pm – 12:30 pm	Questions
12:30 pm – 1:30 pm	Buffet Lunch
1:30 pm – 3:00 pm	Symposium The epidemiology, clinical presentation, and outcomes of invasive NTS disease
	Moderator: Laura Martin, Vaccines Institute for Global Health, A GSK company
1:30 pm – 1:35 pm	Introduction
1:35 pm – 1:50 pm	Understanding NTS transmission Karen Keddy, National Institute for Communicable Diseases
1:50 pm – 2:05 pm	iNTS burden in sub-Saharan African children: an African view Simon Kariuki, KEMRI-CDC
2:05 pm – 2:20 pm	Dissecting immune responses against iNTS Tonney Nyirenda, Malawi-Liverpool-Wellcome Trust Clinical Research Programme
2:20 pm – 2:35 pm	Requirements for tackling NTS disease Allan Saul, Vaccines Institute for Global Health, A GSK company
2:35 pm – 3:00 pm	Questions
3:00 pm – 3:30 pm	Coffee/Tea Poster Viewing
3:30 pm – 5:15 pm	Symposium Paratyphoid: Epidemiological perspective and path to control
	Moderator: Stephen Baker, OUCRU VN
	Co-Chair: Sushant Sahastrabuddhe, International Vaccine Institute
3:30 pm – 3:35 pm	Introduction
3:35 pm – 3:50 pm	Evolutionary history of serovar Paratyphi A Mark Achtman, University of Warwick



3:50 pm – 4:05 pm	The growing burden of S. Paratyphi A in Kathmandu: epidemiological observations from a decade of clinical trials Corinne Thompson, Oxford University Clinical Research Unit	
4:05 pm – 4:20 pm	Development of a Human Model of Salmonella enterica serovar Paratyphi A challenge in Healthy Adult Volunteers. Hazel Dobinson, Oxford University	
4:20 pm – 4:35 pm	The current status of vaccine development for control of Salmonella Paratyphi A Rodney Carbis, International Vaccine Institute	
4:35 pm – 4:50 pm	Salmonella enterica serotype Paratyphi A: Common cause of Salmonelloses among patients attending Om Hospital and Research Centre, Kathmandu, Nepal Ram Krishna Shrestha, Om Hospital and Research Center	
4:50 pm – 5:15 pm	Questions	
Sunday, May 3 rd , 2015		
8:00 am – 9:45 am	Symposium Past experience from typhoid vaccine implementation: translating global policy to country use	
	Moderator: Kim Mulholland, London School of Hygiene and Tropical Medicine	
8:00 am – 8:05 am	Introduction	
8:05 am – 8:20 am	Nepal: YV Pradhan, Society of Public Health Physicians, Nepal (SOPHYN)	
8:20 am – 8:35 am	Pakistan: Dr. Mazhar Khamisani, Health department SINDH Pakistan	
8:35 am – 8:50 am	Sri Lanka: Dr. Paba Palihawadana, Ministry of Health	
8:50 am – 9:05 am	Integration of typhoid conjugate vaccine in national immunization schedules: Opportunities and Challenges Krishna Mohan, Bharat Biotech International Limited	
9:05 am – 9:20 am	New Vaccine Introduction Decision Making: Principles, Practices, and Realities Michael Friedman, WHO Indonesia	
9:20 am – 9:45 am	Questions	
9:45 am – 10:15 am	Tea /Coffee	
0.10 a	Poster viewing	
10:15 am – 12:00 pm	Symposium Development of vaccines against typhoid, paratyphoid and NTS	
	Moderator: Adwoa Bentsi-Enchill, World Health Organization	
10:15 am – 10:20 am	Introduction	
10:20 am – 10:40 am	Typbar-TCV [™] - A Vi polysaccharide-Tetanus Toxoid conjugate vaccine: Safety and immunogenicity in healthy infants, children and adults in typhoid endemic areas. Vineeth Varanasi, Bharat Biotech International, Limited	
10:40 am – 10:55 am	Progress in the development of a Vi-DT conjugate vaccine Erman Tritama, Bio Farma	



10:55 am – 11:10 am	Progress in the development of a Vi-CRM ₁₉₇ conjugate vaccine Akshay Goel, Biological E
11:10 am – 11:25 am	Live attenuated oral vaccine, age and anti-Vi antibody status at baseline significantly affect attack rate in a human Salmonella Typhi challenge model Tom Darton, University of Oxford
11:25 am – 11:40 am	Bivalent Core and O polysaccharide (COPS)-Flagellin conjugate vaccine against invasive non-typhoidal Salmonella Enteritidis and Typhimurium infections Raphael Simon, University of Maryland School of Medicine
11:35 am – 12:00 am	Questions
12:00 pm – 1:00 pm	Buffet Lunch
1:00 pm – 2:30 pm	Panel Discussion Emerging considerations for invasive non-typhoidal Salmonella disease prevention
	Moderator: John Crump, University of Otago
	Panelists
	Karen Keddy, National Institute for Communicable Diseases
	Jan Jacobs, Institute of Tropical Medicine
	Antonio Martin, Medical Research Council, the Gambia Unit
	Sam Kariuki, KEMRI-Wellcome Trust Sanger Institute
2:30 pm – 3:00 pm	Coffee/Tea Poster Viewing
3:00 pm 4:30 pm	Panel Discussion Typhoid conjugate vaccines for public use: overcoming barriers
	Moderator: Zulfiqar Bhutta, University of Toronto
	Panelists
	WHO: Thomas Cherian
	Gavi Alliance: Hope Johnson
	Bill & Melinda Gates Foundation: Duncan Steele
	Developing Countries Vaccine Manufacturers Network: Mahendra Suhardono
4:30 pm – 5:00 pm	Closing Remarks and Conference Highlights Zulfiqar Bhutta, University of Toronto



Scientific and Organizing Committee

- Abraham Aseffa: Armauer Hansen Research Institute
- Abdramane Soura: Ouagadougou Health and Demographic Surveillance System
- Adwoa Bentsi-Enchill: World Health Organization
- Andrew Pollard: Oxford University
- Brad Gessner: Agence de Médecine Préventive
- Charles Wiysonge: University of Cape Town Institute of Infectious Disease and Molecular Medicine
- Deepak Bajracharya: Group for Technical Assistance
- Duncan Steele: Bill & Melinda Gates Foundation
- G. Balakrish Nair: Translational Health Science and Technology Institute
- Imelda Emelia: Bio Farma
- Imran Khan: Sabin Vaccine Institute
- John Clemens: icddr, b
- John Crump: University of Otago
- Kashmira Date: US Centers for Disease Control and Prevention
- Laura Martin: Novartis Vaccines Institute for Global Health
- Rob Breiman: Emory University
- Samir Saha: Child Health Research Foundation
- Stephen Baker: Oxford University Clinical Research Unit, Vietnam
- Steve Luby: Stanford University
- Sushant Sahastrabuddhe: International Vaccine Institute
- Zulfiqar Bhutta: University of Toronto

