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	Welcome reception
7:00 pm – 7:05 pm	Overview of conference agenda and meeting objectives Brian Davis, Sabin Vaccine Institute, United States
7:05 pm – 7:10 pm	Opening remarks Anita Zaidi, Bill & Melinda Gates Foundation, United States
7:10 pm – 7:15 pm	Welcome address Mohammad Subuh, MPPM, Director General CDC, Indonesia
7:15 pm – 7:30 pm	Salmonellosis: an Indonesian perspective Pretty Multihartina, Director of Center for Biomedical and Basic Technology of Health, NIHRD, Indonesia
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, Republic of Korea
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, University of Otago, New Zealand
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, Australia
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
10:00 am – 10:05 am	Introduction
10:05 am – 10:20 am	Demographic and Clinical Characteristics of Adult Patients with Typhoid Fever in Cipto Mangunkusumo General Hospital Jakarta Indonesia in 2012-2014 Bonita Effendi, Universitas Indonesia, Indonesia
10:20 am – 10:35 am	Mathematical modeling reveals the potential consequences of the worldwide emergence of the H58 haplotype of Salmonella Typhi Virginia Pitzer, Yale School of Public Health, United States
10:35 am – 10:50 am	Modelling the contributions of malaria, HIV, and malnutrition to a decline in paediatric invasive non-typhoidal Salmonella disease, Malawi Melita Gordon, University of Liverpool, United Kingdom
10:50 am – 11:05 am	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, France
11:05 am – 11:20 pm	Typhoid fever in Bangladesh: from infection to protection Firdausi Qadri, icddr,b, Bangladesh
11:20 pm – 11:45 pm	Questions
11:45 pm – 1:45 pm	Buffet Lunch
1:45 pm – 3:15 pm	Panel discussion Challenges and approaches in measuring typhoid fever disease burden Moderator: Rob Breiman, Emory University, United States Co-Chair: Anita Zaidi, Bill & Melinda Gates Foundation, United States Panelists: Leon Ochiai, Sanofi Pasteur, France Samir Saha, Child Health Research Foundation, Bangladesh Jacob John, Christian Medical College, Vellore, India Jeff Stanaway, Institute for Health Metrics and Evaluation, United States Shousun Szu, Fogarty International Center, National Institutes of Health, United States
3:15 pm – 3:30 pm	Tea/ Coffee Poster Viewing
3:30 pm – 5:00 pm	Symposium Water, Sanitation and Hygiene (WASH) interventions for enteric fever control
	Moderator: Steve Luby, Stanford University, United States
3:30 pm – 3:35 pm	Introduction
3:35 pm – 3:50 pm	High rates of enteric fever diagnosis and low burden of disease in rural Nepal Jason Andrews, Stanford University, United States



3:50 pm – 4:05 pm	Linking typhoid transmission to the water distribution system in Katmandu, Nepal Stephen Baker, Oxford University Clinical Research Unit, Viet Nam
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, United States
4:35 pm – 5:00 pm	Questions
5:00 pm – 6:00 pm	Keynote Presentation
	The current state of Salmonella research: successes, challenges, barriers, research gaps Gordon Dougan, Wellcome Trust Sanger Institute, United Kingdom
	Introduction by Christopher Parry, London School of Hygiene and Tropical Medicine, United Kingdom
	Saturday, May 2 nd , 2015
8:00 am – 10:30 am	Symposium
0.00 am 10.00 am	Invasive Salmonelloses: Antimicrobial resistance, hospitalization and economic impact
	Moderator: Samir Saha, Child Health Research Foundation, Bangladesh
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, United States
8:20 am – 8:35 am	Epidemiological data from Africa: case fatality and association with drug resistance Jan Jacobs, Institute of Tropical Medicine, Belgium
8:35 am – 8:50 am	Hospitalization and complication data from Karachi Sajid Soofi, Aga Khan University, Pakistan
8:50 am – 9:05 am	Data from Malawi: outbreak data and factors related to complications Nicholas Feasey, Liverpool School of Tropical Medicine, United Kingdom
9:05 am – 9:20 am	Cost of Illness Due to Typhoid Fever in Pemba,Zanzibar, East Africa Arthorn Riewpaiboon, Mahidol University, Thailand
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, Nepal
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, United Kingdom
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, South Africa
10:05 am – 10:30 am	Questions
10:30 am – 11:00 am	Tea/Coffee
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	Poster viewing
11:00 am – 12:30 pm	Symposium Genomics and host susceptibility to enteric fever and NTS disease
	Moderator: Andy Pollard, Oxford Vaccine Group, Oxford University, United Kingdom
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, Australia
11:20 am – 11:25 am	Immunity to invasive Salmonella infections: lessons from animal models and man Pietro Mastroeni, University of Cambridge, United Kingdom
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, Oxford University, United Kingdom
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, United States
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, Italy
1:30 pm – 1:35 pm	Introduction
1:35 pm – 1:50 pm	Understanding NTS transmission Karen Keddy, National Institute for Communicable Diseases, South Africa
1:50 pm – 2:05 pm	iNTS burden in sub-Saharan African children: an African view Simon Kariuki, KEMRI-CDC, Kenya
2:05 pm – 2:20 pm	Dissecting immune responses against iNTS Tonney Nyirenda, Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Malawi
2:20 pm – 2:35 pm	Requirements for tackling NTS disease Allan Saul, Vaccines Institute for Global Health, A GSK company, Italy
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, Oxford University Clinical Research Unit, Viet Nam
	Co-Chair: Sushant Sahastrabuddhe, International Vaccine Institute, Republic of Korea
3:30 pm – 3:35 pm	Introduction
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3:35 pm – 3:50 pm	Evolutionary history of serovar Paratyphi A Mark Achtman, University of Warwick, United Kingdom
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, Viet Nam
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 Vaccine Group, Oxford University, United Kingdom
4:20 pm – 4:35 pm	The current status of vaccine development for control of Salmonella Paratyphi A Rodney Carbis, International Vaccine Institute, Republic of Korea
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, Nepal
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, United Kingdom
8:00 am – 8:05 am	Introduction
8:05 am – 8:20 am	Typhoid vaccine Introduction in Nepal YV Pradhan, Society of Public Health Physicians, Nepal (SOPHYN)
8:20 am – 8:35 am	Typhoid vaccination in Pakistan: Past and future Dr. Mazhar Khamisani, Health department SINDH, Pakistan
8:35 am – 8:50 am	Typhoid vaccination in Sri Lanka Dr. Paba Palihawadana, Ministry of Health, Sri Lanka
8:50 am – 9:05 am	Integration of typhoid conjugate vaccine in national immunization schedules: Opportunities and Challenges Krishna Mohan, Bharat Biotech International Limited, India
9:05 am – 9:20 am	New Vaccine Introduction Decision Making: Principles, Practices, and Realities Michael Friedman, World Health Organization, Indonesia
9:20 am – 9:45 am	Questions
9:45 am – 10:15 am	Tea /Coffee Poster viewing
10:15 am – 12:00 pm	Symposium Development of vaccines against typhoid, paratyphoid and NTS
	Moderator: Adwoa Bentsi-Enchill, World Health Organization, Switzerland
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, India
10:40 am – 10:55 am	Progress in the development of a Vi-DT conjugate vaccine Erman Tritama, Bio Farma, Indonesia
10:55 am – 11:10 am	Progress in the development of a Vi-CRM ₁₉₇ conjugate vaccine Akshay Goel, Biological E, India
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, Oxford Vaccine Group, Oxford University, United Kingdom
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, United States
11:40 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, New Zealand
	Panelists:
	Karen Keddy, National Institute for Communicable Diseases, South Africa
	Jan Jacobs, Institute of Tropical Medicine, Belgium
	Antonio Martin, Medical Research Council, the Gambia Unit
	Sam Kariuki, KEMRI-Wellcome Trust Sanger Institute, Kenya
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:
	Thomas Cherian, World Health Organization, Switzerland
	Hope Johnson, Gavi Alliance, Switzerland
	Duncan Steele, Bill & Melinda Gates Foundation, United States
4:30 pm – 5:00 pm	Closing Remarks and Conference Highlights
	Zulfiqar Bhutta, The Hospital for Sick Children, University of Toronto, Canada
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