15th ASCODD Scientific Session
The Pan Pacific Sonargaon Hotel, Dhaka, Bangladesh
28-30 January, 2020

Day 1: January 28, 2020, Tuesday
Registration desk open : 7:30 am – 5:00 pm

Inaugural ceremony
9:30-11:40 am: Details will be given closure to the event.

Each talk will be 15 minutes including Question and Answer session except plenary talks. More parallel sessions can be planned after reviewing the abstracts.

Theme 1: Typhoid conjugate vaccines: prospects for use in Asia and Africa
Parallel Session Ia: Disease Burden and control of enteric fever (11:45 – 1:00 pm)

Chairs/Session leads : Florian Marks and Samir Saha

Florian Marks, International Vaccine Institute, South Korea
The effects of a novel typhoid conjugate vaccine in Africa (THECA)

Kashmira Date, Centers for Disease Control and Prevention, Atlanta, USA
Navi Mumbai TCV

Samir Saha, Professor and Head of the Department, Dhaka Shishu Hospital and Child Health Research Foundation, Bangladesh
Typhoid Conjugate Vaccine – a tool to end the arms race against Typhoidal Salmonella

Samuel Kariuki, Kenya Medical Research Institute (KEMRI), Kenya
Antimicrobial Resistance in Africa, and efforts towards addressing the challenge

Kesia da Silva, University of Stanford, USA
Severe Typhoid in Africa Program (SETA)

Parallel session Ib: Immune responses and Diagnostics in enteric fever (11:45 – 1:00 pm)

Chairs/Session leads : Firdausi Qadri and Kaede Sullivan

Stephen Baker, University of Cambridge, UK (will be paid by himself)
Commensal E. coli are a reservoir for the transfer of XDR plasmids into epidemic fluoroquinolone-resistant Shigella sonnei
**Plenary talks:**

2:00 – 3:40 pm

1. **John D Clemens**, Executive Director, icddr,b, Dhaka, Bangladesh  
   *Herd immunity and cholera*

2. **Andrew Pollard**, Professor, University of Oxford, UK  
   *Prospects of future typhoid and paratyphoid vaccines in endemic countries*

3. **Adwoa Bentsi-Enchill**, WHO, Switzerland  
   *Multi-sectorial strategies for typhoid control*

4. **Gordon Dougan**, Wellcome Trust Sanger Institute in Cambridge, UK  
   *MDR typhoid in Asia and Africa*

3:40 – 4:15 pm  

: Tea break and poster session

**Parallel session IIa: Understanding mechanisms for prevention of Typhoid fever (4:15 – 5:45 pm)**

**Chairs/Session leads**  

: Andrew Pollard and Chaudhury Kawsar

**Kathleen Neuzel**, Professor, University of Maryland  

*Introduction of typhoid conjugate vaccine in Asia and Africa*

**Farah Naz Qamar**, Aga Khan University, Pakistan  

*XD typhoid: Challenges and opportunities*

Typbar-TCV
Santasabuj Das, NICED, India
ABS-00051: Unique intracellular survival strategy of Salmonella enterica serovar Typhi by the subversion and exploitation of host protective signalling pathways

Michael Owusu, Ghana
ABS-000127: Are all Upper GIT Perforations in Patients Presenting with Fever Due to Salmonella Typhi?

Sampson Twumasi-Ankrah, Ghana
ABS-000128: Seasonal variation and availability of WASH tools and their associations with diarrhoeal illness in children with fever in Ghana

Parallel session IIb: Holistic approach for combating infectious diseases (4:15 pm – 5:15 pm)

Chairs/Session leads: Meerjady Sabrina Flora and Michael S Friedman

Meerjady Sabrina Flora, IEDCR, Dhaka, Bangladesh
Current scenario and country preparedness

Mahmudur Rahman, icddrb, Dhaka, Bangladesh
Emerging Infectious Diseases: One health approaches to combat in Bangladesh

Mustafizur Rahman, icddr,b
One health approach for combating infectious diseases

Nitish Debnath
Quest for holistic approach to reduce health threats at human, animal and ecosystem interface

Session III: Meet the Experts (5:30 – 6:30 pm)
- Allen G Ross (Chair)
- Teresa Soop
- David A Sack
- Roger Glass
- Ann-Mari Svennerholm
- Robert Black
- Gordon Dougan
- Andrew Pollard
- John D Clemens
- Firdausi Qadri
- Sayera Banu
Dinner and cultural evening : 6:45 pm – 9:00 pm
Day 2: January 29, 2020: Wednesday

Plenary talks:
8:30 – 10:10 am  : Plenary talks
1. Jan Holmgren, Professor, University of Goteborg, Sweden
    The modern history of cholera vaccines: A pivotal role of icddr,b
2. David Sack, Professor, Johns Hopkins Bloomberg School of Public Health, USA
    Contrasting Epidemiology of Cholera in Bangladesh and Africa and Implications for Vaccination
3. Tomoo Hozuzmi, Country Representative, UNICEF, Bangladesh
4. Jerome Kim, Director-General of the International Vaccine Institute (IVI), South Korea
    Beyond Typhoid: an update of vaccines against Salmonellae

Tea break and poster display  : 10:10 – 10:30 am

Theme 2: Ending cholera 2030: Initiatives and challenges

Session IV: Burden and cholera control plan (10:30 – 11:45 am)

Chairs/Session leads : David Sack and Allen Ross

Sonia T Hegde, JHU
ABS-107: The Geographic Distribution of Cholera in Bangladesh

Dr. Abdur Razzaque sarker, icddr,b
ABS-00040: Economics of diarrheal infections in Bangladesh

Andrew Azman, Johns Hopkins Bloomberg School of Public Health, USA
Cholera surveillance: Mapping of disease burden in Asia and Africa. Can cholera be controlled with a “ring” strategy?

Allen Ross, icddr,b, Dhaka, Bangladesh
Ending cholera using a multisectoral approach- what can be achievable by 2030?

Dr. Suman Kanungo, NICED, India
ABS-000114: Interventional study to improve diarrhoea related knowledge and practices among untrained practitioners in slums of Kolkata

Parallel Session Va: Public health impact of vaccines (11:45 am – 1:15 pm)

Chairs/Session leads : Jan Holmgren and Tomoo Hozuzmi
Nicholas Thomson, Sanger Institute

Maya Vandenent, Chief of Health, UNICEF, Bangladesh
Public health challenges to combat cholera in humanitarian crisis: Experiences from Rohingya crisis

Florent Lassalle, UK
ABS-000116: Phylo-pangenomic atlas of Vibrio cholerae provides an extensive reference for detection, classification and prediction of adaptive properties of non-pandemic cholera

Ashraful Islam Khan, icddr,b, Bangladesh
ABS-000150: Acute watery diarrhea and cholera risk in humanitarian crisis - a descriptive analysis from a surveillance network in Bangladesh

Jason Harris, Harvard Medical School, USA
Immunologic Markers of protection against Vibrio cholerae infection

Shanta Dutta, NICED, India
ABS-000121: Challenges for programmatic implementation of oral cholera vaccine in India

Parallel Session Vb: ETEC and Shigella immune responses and vaccines (11:45 pm – 1:15 pm)

Chairs/Session leads: Ann-Mari Svennerholm and James Fleckenstein

James Fleckenstein, Professor, University of Washington, USA
Emerging Themes in the Molecular Pathogenesis of Enterotoxigenic Escherichia coli

Dr. Marjahan Akhtar, icddr,b, Bangladesh
ABS-000131: Tfh-like and Th17 cell responses to natural ETEC infection in diarrheal patients

Kamrul Islam, icddr,b
ABS-00087: Etiology of diarrhea requiring hospitalization in Bangladesh by quantitative PCR

Ellen Higginson, UK
ABS-000132: Microbiome profiling of enterotoxigenic E. coli carriers in Bangladesh highlights clear differences

Dr. Rubhana Raqib, icddr,b, Bangladesh
Functional antibodies and cytokine responses to live oral Shigella sonnei vaccine strain WRSS1 in Bangladeshi adults and children
Jacques Le Pendu, France
ABS-00031: Associations between histo-blood group antigens and viral gastroenteritis among Tunisian children

Lunch and poster display: 1:15–2:15 pm

Parallel Session VIA: Rotavirus and Viral Gastroenteritis (2:15 am – 4:00 pm)

Chairs/Session leads: Gagandeep Kang and Umesh Parashar
Mathuram Santosham, Professor, Johns Hopkins Bloomberg School of Public Health, USA
Diarrhoea and its consequences in children

Umesh Parashar, Center for Disease Control, USA
Global Experience with Rotavirus Vaccines

K. Zaman, icddr,b, Dhaka, Bangladesh
Rotavirus vaccine trials in icddr,b and future use of the vaccine in Bangladesh

Gagandeep Kang, Executive Director, Translational Health Science and Technology Institute, India
Rotavirus vaccine impact in India

Rotavac

Cristina V Cardemil, USA
NOT RESPONDED
ABS-00069: Etiology, severity of illness, and risk factors for patients hospitalized with acute gastroenteritis from multi-site Veteran’s Affairs (VA) surveillance, United States, 2016–18: results from Supernova

Mohammad Ali, USA
ABS-00084: Re-evaluating population level effectiveness of a rotavirus vaccine in a rural setting of Bangladesh using fried egg approach

Tea break and poster display: 4:00-4:15 pm

Parallel Session VIb: How do we increase the supplies of OCV of WHO stockpile (2:15 pm – 4:00 pm)

Chairs/Session leads: Dominique Legros, The Global Task Force on Cholera Control, WHO

Prof Abul Kalam Azad, Director General, Directorate General of Drug Administration
Ministry of Health & Family Welfare Government of the People's Republic of Bangladesh

Major General Md Mahbubur Rahman, Director General, Director General of Health Services Ministry of Health & Family Welfare Government of the People's Republic of Bangladesh

Dominique Legros, GTFCC

AdwoaBentsi-Enchill, WHO, Switzerland

WHO Representative, Dhaka, Bangladesh

Abdul Muktadir, Chairman and Managing Director, Incepta Pharmaceuticals Ltd.

Prof. Dr. Sanya Tahmina, Director (Diseases Control) and Line Director (Communication Disease Control), Bangladesh

Prof. Baizid Khoorshid Riaz, Director, National Institute of Preventive & Social Medicine (NIPSOM)

Kashmira Date, Centers for Disease Control and Prevention, Atlanta, USA

Adam Soble, Gavi

Tea break and poster display : 4:00-4:30 pm

Parallel sessionVIIa: Hepatitis E virus and other viruses vaccine and progress (4:30 pm – 6:00pm)

Chairs/Session leads : Michael Friedman and Denise Garrett

Emily Gurley, JHU, USA
Insights from a nationally-representative serosurvey

Fred Cassels, PATH, USA
ABS-0000184: Injectable Non-Replicating Trivalent P2-VP8 Rotavirus (TV P2-VP8) Vaccine Enters Phase 3 Clinical Trials

Rakesh Aggarwal, Director, Jawaharlal Institute of Postgraduate Medical Education and Research, Puducherry, India
Hepatitis E vaccines: Progress and status

Rosy Sultana, Bangladesh University of Health Sciences, Dhaka, Bangladesh
ABS-0000075: High viral load of Hepatitis E genotype 1 possibly resulting from low HEV-IgG antibody response in late acute stage attributed to the severity of morbidity in pregnancy with hepatitis in Bangladesh

Joakim Øverbø, Norwegian Institute of Public Health, Norway

ABS-0000096: Hepatitis E virus IgG antibody detection using dried blood spots

K. Zaman, icddr,b, Dhaka

Designing a cluster-randomized trial to assess the safety, immunogenicity and effectiveness of a Hepatitis E vaccine in women of childbearing age in rural Bangladesh

Parallel Session VIIb: Advances in the control of childhood diarrhea mortality and stunting. Exemplars from the developing world? (4:30 pm-5:30pm)

Chairs/Session leads: TBA

Robert Black, Director and Professor, Johns Hopkins Bloomberg School of Public Health, USA

Advances in control of diarrhea mortality

Zulfiqar Bhutta, Co-Director, Director of Research, Centre for Global Child Health, SickKids, Canada

Stunting Exemplars

Tahmeed Ahmed, icddr,b, Dhaka, Bangladesh.

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**Day 3: January 30, Thursday**

**Plenary talks:**
8:30 – 10:35am : Plenary talks

1. **NK Ganguly, India**  
   *Spread and Endemicity in Indian Subcontinent: Factors beyond number*

2. **Ann-Mari Svennerholm, University of Goteborg, Sweden**  
   *Mucosal immune responses against an oral ETEC vaccine assessed in clinical trials*

3. **Edward T Ryan, Professor, Harvard Medical School, USA**  
   *Immune responses to OSP in North American Adults infected with Vibrio cholerae O1 Inaba*

4. **Firdausi Qadri,**  
   *Introduction of vaccines in Bangladesh using the life-course approach*

5. **Cecil Czerkinsky,**  
   *Mucosal immunity and vaccine development*

**Tea break and poster display : 10:35 – 11:00 am**

**Theme 3: Antimicrobial Resistance and its impact on treatment of enteric infections**

**Session VIII: Challenges and way forward to use of antibiotics: The rise of global superbugs (11:00 am – 12:30 pm)**

**Chairs/Session leads : Lothar H. Wieler and Hubert P Endtz**

- **Lothar H. Wieler,** Robert Koch Institute, Germany  
  *The German AMR Strategy: From One Health to Global Health*

- **Kamini Walia,** Indian Council of Medical Research, New Delhi  
  *Global Antimicrobial Resistance Surveillance – the Indian scenario*

- **Niyaz Ahmed,** icddr,b, Dhaka Bangladesh  
  *Molecular epidemiology of AMR in Enteric Pathogens*

- **Hubert P Endtz,** Professor, Erasmus MC, The Netherlands

- **Zoe Dyson,** University of Cambridge, UK  
  *A global genomic perspective on Typhoid and AMR*

- **Fatema Tuz Jubyda,** icddr,b  
  *ABS-00090: Fourth-Generation Cephalosporin Resistant Vibrio cholerae O1 Associated with Cholera in Bangladesh*
Lunch and poster session : 12:30 pm – 1:30 pm

Theme 4: Environmental enteropathy, gut microbiota and malnutrition

Session IX: Early childhood enteric infections, malnutrition and enteropathy (1:30pm- 3:30 pm including 30 minutes panel discussion)

Chairs/Session leads : Peter Sullivan and NK Ganguly

Peter Sullivan, University of Oxford, UK  
Environmental enteric dysfunction: re-emergence of an old disease

Paul Kelly, University of Lusaka  
Biopsy features and malabsorption in environmental enteric dysfunction

Tahmeed Ahmed, icddr,b, Dhaka, Bangladesh  
Role of gut microbiota and treatment of environmental enteric dysfunction

Arun Kumar Singh, Nepal  
ABS-00055: To compare the effect of Zinc Supplementation and placebo on Morbidity and Mortality in Children with Pneumonia Age 6 Months to 5 Years.

Dilruba Nasrin, USA  
ABS-00070: Association of moderate-to-severe diarrhea with stunting among <5 children: Preliminary findings from the Rotavirus Vaccine Impact on Diarrhea in Africa (VIDA) study

Robert KM Choy, PATH, USA  
ABS-0000183: A Multiplex ELISA for Evaluating Environmental Enteric Dysfunction Interventions

Panel discussion: Panel members/discussants: All speakers

Tea break and poster session : 3:30 pm – 4:00 pm

Session X: Role of WASH for preventing enteric infections: Multisectoral approach (4:00 – 5:15 pm)

Chairs/Session leads : Professor Sanya Tahmina and Sayera Banu

Sharful Islam Khan, icddr,b, Bangladesh
Nuhu Amin, icddr,b
ABS-00025: Field trial of an automated batch chlorinator system at shared shallow tubewells among the most vulnerable Forcibly Displaced Myanmar Nationals (FDMN) in Cox’s Bazar, Bangladesh

Zannat Kawser, DMCH, Emergence of mcr producing Klebsiella pneumoniae in Dhaka medical college hospital with an approach to develop killed vaccine against it

Khobair Hossain, icddr,b
ABS-000102: A Household Environmental Assessment and Planning (HEAP) tool to improve WASH- an innovative new approach

Mahabubur Rahman, icddr,b
Microbial contamination in different urban neighborhoods in Dhaka city: A quantitative environmental exposure assessment study

Closing session

5:15 pm: Closing remarks, vote of thanks, awards distribution and Announcement of next ASCODD meeting