



# 6<sup>th</sup> INTERNATIONAL NEONATAL & MATERNAL IMMUNIZATION SYMPOSIUM

Fostering Scientific Collaboration Across Nations

March 12-14, 2024 - San Jose (Costa Rica)

## AGENDA

### PRE-MEETING ACTIVITIES

Monday, March 11, 2024

9:00 AM - 5:00 PM

Onsite Registration

9:00 AM – 10:00 AM

INMIS Administrative Meeting (Organizing and Scientific Committees)

10:30 AM – 4:00 PM

Research Master Class – ESPID - SLIPE (By Invitation Only)

Chairs: Paul Heath, Rolando Ulloa-Gutierrez, Flor Munoz

4:00 PM – 5:00 PM

Welcome Coffee and Tasting Experience

5:00 PM – 7:00 PM

Latin American Symposium

Identifying gaps and opportunities for maternal and neonatal immunization in Latin America

Chairs: Flor Muñoz, Rolando Ulloa-Gutiérrez, María Luisa Ávila-Agüero

*This is an open scientific symposium. Everyone who is attending INMIS is invited to join.*

*Please confirm your participation. [CLICK HERE](#)*

#### Symposium Learning Objectives:

1. Discuss the current status of maternal and neonatal immunization in Latin America.
2. Identify gaps and opportunities for research and implementation of vaccines in pregnancy and early childhood.
3. Action items and prioritization.

#### Speakers

Mercedes Colomar, CLAP/PAHO

Edwin Asturias, University of Colorado, USA

Xavier Sáez-Llorens, Hospital del Niño, Panama

#### Panel Discussion

Angela Gentile, R. Gutiérrez Children's Hospital, Argentina

Jezid Miranda, University of Cartagena, Colombia

Marco Sáfadi, Santa Casa de São Paulo Medical School, Brazil

Juan Pablo Torres, University of Chile, Chile

**INMIS MEETING**  
**Day 1 - Tuesday, March 12, 2024**

**7:00 AM to 5:00 PM**  
**Onsite Registration**

**8:00 AM - 8:30 AM**  
**Welcome and Opening Address**  
**Chairs: Rolando Ulloa-Gutiérrez and María Luisa Ávila-Agüero**

**Opening Address**  
**Laura Chinchilla, Political Scientist and former President of Costa Rica**

**8:30 AM - 9:00 AM**  
**Opening Keynote**

**Rebecca Martin, Emory Global Health Institute, Emory University, USA**  
**Maternal and Neonatal Health and Disease Prevention via Immunization Post-Pandemic: Where do we stand?**

**Session Learning Objectives:**

1. Describe the role of maternal and neonatal immunization in a healthy life trajectory for the first 1000 days taking into consideration impact of the COVID-19 pandemic on 2030 SDG; zero dose concept, acceptance
2. Understand the challenges of coordinated and sustainable global implementation of maternal and neonatal immunization programs

**SESSION 1**

**9:00 AM – 10:00 AM**

**Priorities for the Maternal and Neonatal Immunization Research Agenda**

**Chairs: Manish Sadarangani and Kristen Maertens**

**Session Learning Objectives:**

1. Highlight the current state of maternal and neonatal immunization research, including future challenges and opportunities.
2. Understand research gaps within maternal and neonatal immunization, emphasizing opportunities for advancing knowledge for existing and emerging vaccines.
3. Discuss research priorities to ensure pandemic readiness regarding new maternal and neonatal vaccines for diseases that can be potentially responsible for outbreaks in pregnant women and neonates.

**Jan Englund, University of Washington, USA**

**Current Status of Maternal and Neonatal Immunization Research, Learnings and Research Priorities**

**Marco A. Sáfiadi, Santa Casa de São Paulo Medical School, Brazil**

**Emerging Epidemic and Pandemic Diseases that Impact Pregnancy and the Newborn**

**10:00 AM - 10:30 AM**  
**Coffee-break**

**10:30 AM – 11:30 AM**

**Session 1 Oral Abstract Presentations**

**10:30 AM -10:45 AM**

J. Ballivian. Instituto de Efectividad Clínica y Sanitaria (IECS), Buenos Aires, Argentina.

*Data Visualization Tool to Assess the Effectiveness and Safety of COVID-19 Vaccines During Pregnancy: A Living Systematic Review and Meta-Analysis*

**10:45 AM -11:00 AM**

N. Bhat. PATH, Seattle, USA

*Vaccination in Pregnancy with High- and Low-Dose Recombinant Pertussis Vaccines is Associated with Sustained Protection in DTwP Vaccinated Infants*

**11:00 AM -11:15 AM**

A. Ciapponi. Instituto de Efectividad Clínica y Sanitaria (IECS), Buenos Aires, Argentina.

*The Burden of RSV Disease In Latin America: A Systematic Review And Meta-Analysis*

**11:15 AM - 11:30 AM**

B. Kampmann. Vaccines and Immunity Team, Medical Research Council Unit (MRC), The Gambia, and London School of Hygiene and Tropical Medicine

*Safety and Immunogenicity of Bivalent Prefusion Vaccine Administered During Pregnancy to Prevent Infant RSV*

**SESSION 2**

**11:30 AM – 12:30 PM**

**Progress in Maternal-Infant Infectious Disease Prevention through Maternal Immunization**

**Chairs: Flor Muñoz and Rolando Ulloa-Gutierrez**

Session Learning Objectives:

1. Update on the current knowledge of antibody kinetics after maternal immunization for infant protection, optimal timing of vaccination during pregnancy, and implications on maternal and infant immunization schedules
2. Discuss the potential of infant protection through breastmilk after maternal vaccination and progress in research.
3. Learn about unique aspects and novel methods of safety assessment of vaccines in pregnancy, focusing on clinical trials and post-authorization surveillance systems

**Kirsten Maertens, University of Antwerp, Belgium**

**Maternal Vaccine and Vaccination Research: Challenges, Strategies and Success Stories**

**Marcela Pasetti, University of Maryland, USA**

**Protection of Infants through Breastmilk**

**12:30 PM – 1:30 PM**  
**Lunch & Networking**

**SESSION 2 – Cont.**

**1:30 PM – 2:00 PM**

**Progress in Maternal-Infant Infectious Disease Prevention through Maternal Immunization**

**Chairs: Flor Muñoz and Ener Dinleyici**

**Expert Round Table**

**Novel Safety Surveillance of Vaccines in Pregnancy Post-Licensure/Authorization**

**Andy Stergachis, University of Washington, Seattle, USA**

Mabel Berrueta, IECS, Safe in Pregnancy Project, Buenos Aires, Argentina  
Annette Regan, University of San Francisco, USA

**2:00 PM – 3:00 PM**

**Session 2 Oral Abstract Presentations**

**2:00 PM - 2:15 PM**

A.L. Naleway. Kaiser Permanente Center for Health Research, Portland, OR, USA  
*Monitoring Vaccination during Pregnancy in the Vaccine Safety Datalink, 2002-2023*

**2:15 PM - 2:30 PM**

D. B. Fell. School of Epidemiology and Public Health, Faculty of Medicine, University of Ottawa and Children's Hospital of Eastern Ontario Research Institute, ON, Canada,  
*Pandemic A/H1N1 Influenza Vaccination during Pregnancy and Offspring Autoimmune Diseases*

**2:30 PM - 2:45 PM**

N.P. Klein. Kaiser Permanente Vaccine Study Center, USA  
*Safety of Quadrivalent Recombinant Influenza Vaccine in Pregnant Women and Their Infants*

**2:45 PM - 3:00 PM**

L. De Weerd. Centre for the Evaluation of Vaccination, University of Antwerp, Belgium.  
*Tdap Vaccination In Successive Pregnancies: Impact On Immunogenicity at Delivery*

**3:00 PM – 3:30 PM**  
*Coffee-break*

**Panel and Audience Interactive Discussion**

**3:30 PM - 4:30 PM**

**Neonatal and Maternal Immunization – Learnings Informing the Research Agenda/Lessons Learned - Identifying Research Gaps and Priorities**

**Chairs: Linda Eckert and Manish Sadarangani**

**Panelists**

Clare Cutland, University of the Witwatersrand, South Africa  
Kirsty Le Doare, University of London, UK  
Marcela Pasetti, University of Maryland, USA  
Deshayne Fell, Pfizer  
Lucía Bricks, Sanofi  
Alisa Kachikis, Washington University, USA

**Moderated E-Poster Presentations**

**4:30 PM - 6:00 PM**

Access Abstract Book for full details. [Click here.](#)

**6:00 PM**  
*Opening reception*  
*Networking and Cultural Event*

**INMIS MEETING**  
**Day 2: Wednesday, March 13, 2024**

**7:00 AM – 8:00 AM**

**Administrative Meeting of the CEPI-SPEAC MIWG (by invitation only)**

**SESSION 3**

**8:00 AM – 10:00 AM**

**Advances in Immunology**

**Chairs: Arnaud Marchant and Michelle Giles**

**Session Learning Objectives:**

1. To present and discuss the most recent advances and novel research in immunology in pregnancy and early life.

**Arnaud Marchant, Université Libre de Bruxelles, Belgium**

**Humoral immune profiling for timing of primary CMV infection during pregnancy and prediction of congenital infection**

**Joann Diray-Arce, Boston Children's Hospital, USA**

**Systems Immunology Analysis of Neonatal Vaccine Responses**

**Session 3 Oral Abstract Presentations**

**8:45 AM - 9:00 AM**

A. Saso. Vaccines and Immunity Theme, MRC Unit, The Gambia, Fajara, The Gambia.

*Does Maternal Pertussis Immunization During Pregnancy Impact Infant Antibody Responses to Subsequent Routine Pertussis Vaccines?*

**9:00 AM - 9:15 AM**

L. Wood. Ragon Institute of Mass General, MIT and Harvard; Boston Children's Hospital, Boston, USA

*Increased Inhibitory FcγRIIb Interaction in Pertussis Antigen Binding Antibodies During Pregnancy*

**9:15 AM - 9:30 AM**

J. Diray-Arce. Precision Vaccines Program, Boston Children's Hospital, Harvard Medical School, Boston, USA

*Bacille Calmette Guérin (BCG) And Hepatitis B Vaccine (HBV) Induce Distinct Changes in the Neonatal Plasma Metabolome*

**9:30 AM - 9:45 AM**

M. Akkoyunlu. US FDA, USA

*Mechanisms of IL-6 Mediated Suppression of Germinal Center Responses to Vaccines in Neonatal Mice*

**9:45 AM - 10:00 AM**

Jessica A. Fleming, PATH

*On the verge of respiratory syncytial virus disease prevention: A communications toolkit*

**10:00 AM – 10:30 AM**  
**Coffee-break**

## **SESSION 4**

**10:30 AM – 12:30 PM**

### **Advances in Vaccine Development and Delivery**

**Chairs: Beth Holder and Paul Heath**

Session Learning Objectives:

1. Recognize the challenges and limitations in the rational design of vaccine antigens.
2. Appreciate the principles of precision vaccinology - i.e., taking the target population's distinct immune system into account during vaccine discovery and development.
3. Understand the significance of adjuvants in enhancing vaccine immunogenicity, durability and protection.

**Fadil Bidmos, Imperial College, London, UK**

### **Advanced High-Throughput Strategies for Bacterial Vaccine Development**

**Ofer Levy, Precision Vaccines Program, Boston Children's Hospital & Harvard Medical School, Boston, USA**

### **Precision Adjuvants to Optimize Neonatal Immunization**

## **Session 4 Oral Abstract Presentations**

**11:15 AM - 11:30 AM**

S. Sharma. European Plotkin Institute for Vaccinology, Universite Libre de Bruxelles, Brussels, Belgium  
*Antibody Response to Primary Cytomegalovirus Infection during Pregnancy*

**11:30 AM - 11:45 AM**

P. Dubey. Ohio State University, Columbus, Ohio, USA  
*Immune Responses of Pregnant Women to Tdap Booster Vaccination are Blunted and Maintain Phenotypes Elicited by Infant Immunization*

**11:45 AM - 12:00 PM**

L. de Brabandere. Centre for the Evaluation of Vaccination, Vaccine and Infectious Diseases Institute, University of Antwerp, Belgium.  
*Cell-Mediated Immune Responses to Different COVID-19 Vaccine Platforms In Pregnancy*

**12:00 PM - 12:15 PM**

H. Senyondo. Kawenpe National Referral Hospital, Uganda.  
*Maternal Antibody in Milk after Group B Streptococcus Vaccination In Uganda: MAMA Study.*

**12:15 PM - 12:30 PM**

A. Hawkins. Department of Metabolism, Digestion, and Reproduction, Imperial College, London, UK  
*Development of Trans-Placental Antibody Transfer Models*

**12:30 PM – 1:30 PM**  
**Lunch & Networking**

## **SESSION 4 – Cont.**

### **Panel Debates and Audience Interactive Discussion**

**1:30 PM - 2:30 PM**

### **Advances in Immunology**

**Chairs: Beth Holder and Arnaud Marchant**

### Panelists

Marco Safadi, Santa Casa de São Paulo Medical School, Brazil

Michelle Giles, Monash University, Australia

Fiona Culley, Imperial College London, UK

Beate Kampmann, Charite's Institute of International Health, Germany, and London School of Hygiene and Tropical Medicine, UK

Manish Sadarangani, University of British Columbia, Canada

Edwin Asturias, University of Colorado, USA

Debate 1: 'Vaccine Responses are Substantially Different in Pregnancy'

Debate 2: 'Studying Trans-Placental Maternal Antibody Transfer Efficiency is not Necessary; The Only Thing that Matters is Cord Blood Antibody Levels.'

Debate 3: 'The Observed Modulation of Infant Vaccine Responses by Maternal Antibody has Limited Clinical Implications'

### Oral Abstract Presentations (Miscellaneous)

**2:30 PM – 3:30 PM**

**Chairs: Rolando Ulloa-Gutiérrez and Clare Cutland**

**2:30 PM – 2:45 PM**

E.J Asturias. University of Colorado School of Medicine, Denver, CO, USA

*Transplacental Transfer of Naturally Acquired RSV Maternal Antibodies in Preterm and Full-Term Infants from Guatemala*

**2:45 PM – 3:00 PM**

E. Castillo. University of Calgary, Canada

*An Innovative, Co-Designed, Skill-Building Intervention for Healthcare Providers and Patients to Improve Vaccine Communication in Pregnancy in Canada*

**3:00 PM – 3:15 PM**

P.T. Johm. Medical Research Council Unit, The Gambia, and the London School of Hygiene and Tropical Medicine

*Vaccinator and Infant Caregiver Preference and Acceptance of an Alternative versus Standard Pneumococcal Conjugate Vaccine Schedule in The Gambia*

**3:15 PM – 3:30 PM**

C.A. Iwu. IMO State University, Nigeria

*Gender Dynamics and Vaccine Hesitancy in Resource-Poor Rural Settings: Exploring the Role of Fathers in Infant Immunization.*

**3:30 PM - 4:00 PM**  
**Coffee Break & Networking**

### Moderated E-Poster Presentations

**4:00 PM – 5:30 PM**

Access Abstract Book for full details. [Click here.](#)

**5:30 PM Meeting Adjourns**

**6:30 PM**

**Faculty and INMIS Scientific Committee Dinner** *(By invitation only)*

**INMIS MEETING**  
**Day 3: Thursday, March 14, 2024**

**SESSION 5**

**8:00 AM – 9:30 AM**

**Implementing Maternal Vaccines Globally**

**Chairs: Paul Heath and Clare Cutland**

Session Learning Objectives:

1. Learn about new vaccines being considered for LMICs and how they can be successfully implemented
2. Learn about the status of GBS vaccines for pregnant women and the steps required for vaccine licensure based on serocorrelates of protection
3. Understand the ethical aspects of vaccine research in pregnant women
4. Understand the ethical barriers in implementing vaccines in pregnant women globally and potential strategies for overcoming them

**Anna Seale, Bill and Melinda Gates Foundation**

**How Can We Accelerate Maternal Vaccination as an Essential Part of Antenatal Care Globally?**

**Kirsty Le Doare, University of London, UK**

**Pathway to a Group B Streptococcal vaccine**

**Anna Mastroianni, Johns Hopkins Berman Institute of Bioethics, Baltimore, USA**

**Policy Perspective on Maternal Immunization Research**

**Session 5 Oral Abstract Presentations**

**9:30 AM – 9:45 AM**

S.E. Roquer. Universidad Nacional de San Luis, Argentina.

*Nominal Vaccination Registry As a Tool to Improve Vaccination Coverage in Pregnant Women and Neonates. San Luis. Argentina. 2023*

**9:45 AM – 10:00 AM**

R. Baral. PATH, Unites States

*Maternal Immunization Country Readiness Using a Checklist Approach*

**10:00 AM – 10:15 AM**

A. Regan. School of Nursing and Health Professions, University of San Francisco, CA, USA and Fielding School of Public Health, University of California, LA, USA

*Interventions to Increase Vaccine Uptake during Pregnancy: A Living Global Systematic Review & Meta-Analysis of Randomized Trials*

**10:15 AM – 10:30 AM**

S. Schrag. Division of Bacterial Diseases, Centers for Disease Control and Prevention, USA

*U.S. Plans for Maternal Group B Streptococcal Vaccine: Pre- and Post-Licensure Activities Built upon the Active Bacterial Core Surveillance (ABCS)*

**10:30 AM - 10:45 AM**  
**Coffee-break**



**Panel and audience interactive discussion**

**10:45 AM - 11:45 AM**

**The Future of Maternal Immunization: Leveraging Progress and Closing Gaps**

**Chairs: Paul Heath and Flor Muñoz**

**Panelists:**

Lisa Noguchi, Jhpiego, USA

Katherine Fleming-Dutra, CDC, USA

Anna Seale, Bill & Melinda Gates Foundation, USA

Niranjan Bhat, PATH, USA

Angela Gentile, NITAG, Argentina

Alejandra Gurtman, Pfizer

**Closing Keynote**

**11:45 AM - 12:15 PM**

**Beate Kampmann, Charite's Institute of International Health, Germany, and London School of Hygiene and Tropical Medicine, UK**

**Maternal Immunization: Fostering Scientific Collaboration Across Nations**

**Closing Remarks and Adjournment**

**12:15 PM – 12:30 PM**

**INMIS 2026 Announcement**

**INMIS 2026 Chairs Welcome and Preview**

*12:30 PM Lunch-box*



**IMPRINT (Immunising Pregnant Women & Infants Network) Full Network Meeting**

**1:30 PM – 6:00 PM**

The **IMPRINT network** has joined forces with INMIS to offer additional sessions for the many IMPRINT members who already attend INMIS, where our members can present additional projects and activities. We would expect IMPRINT members at INMIS to make use of this opportunity.

This is a free and open scientific meeting from 1:30 PM to 5:00 PM, followed by a Happy Hour for further networking from 5:00 PM to 6:00 PM.

In addition to our IMPRINT members, anyone who still has energy for more science and networking is cordially invited to join the IMPRINT at INMIS session.

If you think you will be participating in IMPRINT @ INMIS, please register by clicking [HERE](#).

**SESSION 1**

**1:30 PM – 3:30 PM**

**New and Existing Vaccine Clinical Trials: Lessons Learned and Implementation in Practice**

**Chairs: Manish Sadarangani and Chrissie Jones**

**1:30 PM – 1:35 PM**

Welcome and Introduction

Beate Kampmann, Charité – Universitätsmedizin, Germany and Claudia Schacht, LINQ management GmbH, Germany

**1:35 PM – 1:55 PM**

Eve Nakabembe, Makerere University, Uganda

*The Uganda Pertussis Vaccine Study*

**1:55 PM – 2:15 PM**

Anja Saso, London School of Hygiene & Tropical Medicine, UK

*Further in Depth Immunology Results from the Gambian Pertussis Vaccine Trial*

**2:15 PM – 2:30 PM**

Chrissie Jones, University of Southampton, UK

*Acceptability of RSV Vaccination in Pregnancy and Infant Monoclonal Immunisation in UK*

**2:30 PM – 2:40 PM**

Caitlin Pley, Charité – Universitätsmedizin, Germany

*Access to Respiratory Syncytial Virus (RSV) Preventive Tools for Neonates and Infants in Europe*

**2:40 PM – 3:00 PM**

Karen Tiley, University of Oxford, UK

*Maternal Measles Seroprevalence and Transplacental Transfer*

**3:00 PM – 3:15 PM**

Discussion

**3:15 PM – 3:30 PM**

*Coffee-break*

**3:30 PM – 5:00 PM**

**Session 2**

**Challenges and Implementation of Pregnancy Registries**

**Chair: Beate Kampmann**

**3:30 – 3:45 PM**

Jessica Fleming, PATH

*Available when Needed? Piloting Testing a WHO Protocol on Timing of ANC Attendance for Maternal Immunization*

**3:45 PM – 4:00 PM**

Janča Prauseová, Shifo Foundation, Sweden

*Implementing a Pregnancy Registry in The Gambia Using Smart Paper Technology*

**4:00 PM – 4:15 PM**

Robert Mboizi, Makerere University, Uganda [tbc]

*Pregnancy Registries in Uganda*

**4:15 PM – 4:30 PM**

Flor Muñoz, Baylor College of Medicine, USA

*Safety Platform for Emergency vACCines (SPEAC): Remit, Members and Workplans*

**4:30 PM – 5:00 PM**

Final Discussions and Looking Forward for IMPRINT

**5:00 PM – 6:00 PM**

*Happy Hour for Further Networking*