

## 08. Maternal and infant TB: advancing our understanding of pathogenesis, treatment and prevention

**THE 46<sup>TH</sup> UNION  
WORLD CONFERENCE  
ON LUNG HEALTH**

CAPE TOWN, SOUTH AFRICA  
2-6 DECEMBER 2015

Friday, 04 December 2015, 13:30 - 15:00

Room Roof Terrace

Type of session	Symposium
Track	TB in vulnerable and special populations
Track2 (optional)	TB other
Description	Increased recognition of women's health issues and innovative approaches to research have breathed new life into maternal-infant TB research. TB is a leading cause of maternal and infant mortality, yet many TB providers and researchers are unfamiliar with the pathogenesis, treatment and prevention of TB in these populations. Pharmacokinetic/pharmacodynamic (PK/PD) differences in pregnant women and infants with TB will be highlighted. This symposium will feature emerging research and novel approaches—in both basic science and clinical trials—that are moving the maternal-infant TB agenda forward
Target audience	<ol style="list-style-type: none"> <li>1. TB policymakers and program implementers</li> <li>2. Healthcare providers and advocates</li> <li>3. TB researchers and educators</li> </ol>
Objectives	<ol style="list-style-type: none"> <li>1. To review current research in the pathogenesis, prevention and treatment of maternal-infant TB</li> <li>2. To discuss PK/PD principles pertaining to TB drugs in pregnancy and young children</li> <li>3. To present innovative research approaches used to extend benefits of TB research to pregnant women and infants</li> </ol>
Keywords	Maternal TB; infant TB; pharmacokinetics
Coordinator(s)	Jyoti Mathad (USA), Adrie Bekker (South Africa)
Chair(s)	Anneke Hesseling (South Africa), Grace John-Stewart (USA)
Presentations	<p><b>13:30 - 13:40</b> Challenges in the management of maternal and perinatal TB: cases from the field Shilpa Naik (India)</p> <p><b>13:45 - 13:55</b> Current research on the pathophysiology, immunology, prevention and treatment of TB in pregnant women Jyoti Mathad (USA), Amita Gupta (USA)</p> <p><b>14:00 - 14:10</b> TB-HIV treatment during pregnancy: does drug metabolism change? Rose Kosgei (Kenya)</p> <p><b>14:15 - 14:25</b> Using a population modeling approach to assess the pharmacology of TB drugs in pregnant women Kelly Dooley (USA), Rada Savic (USA)</p> <p><b>14:30 - 14:40</b> The pharmacokinetics and treatment of first line TB drugs for infants Adrie Bekker (South Africa)</p> <p><b>14:45 - 15:00</b> Discussion</p>