



K O N I N K L I J K E N E D E R L A N D S E
A K A D E M I E V A N W E T E N S C H A P P E N

Academy Colloquium Caring for our offspring: Reducing perinatal mortality and morbidity;

Advances in insights and care regarding intra-uterine growth restriction

Date: 27-29 March 2019

Venue: KNAW, The Trippenhuis, Kloveniersburgwal 29, 1011 JV Amsterdam ([route description](#))

Programme

Day 1 part 1: Prevention of and Screening for IUGR (27 March, 9:00 a.m.-1:00 p.m.)

- 8:30-9:00 a.m. Registration and Coffee
- 9:00-9:10 a.m. Opening of the colloquium by Dr Ank de Jonge Department of Midwifery Science, AVAG-Amsterdam Public Health, VU University Amsterdam, Amsterdam UMC, the Netherlands
- 9:10- 9.30 a.m. *IUGR: The need for improvements in prevention, screening, and interventions. A short introduction*
Dr Jens Henrichs, Department of Midwifery Science, AVAG-Amsterdam Public Health, VU University Amsterdam, Amsterdam UMC, the Netherlands
- 9:30-10:05 a.m. *Prevention of IUGR: Continuity of midwife-led care*
Prof. Soo Downe, School of Community Health and Midwifery, University of Central Lancashire, UK
- 10:05-10:40 a.m. *The incremental value of customization in defining abnormal fetal growth*
Dr Jun Zhang, MOE, Shanghai Key Laboratory of Children's Environmental Health, Shanghai Jiao Tong University School of Medicine, Shanghai, China
- 10:40- 11:10 a.m. Coffee break
- 11:10-11:45 a.m. *Defining normal and abnormal fetal growth: Individualized and customized references versus standards.*
Dr Katherine Grantz, Fetal Growth and Development, Obstetrical Management, Epidemiology Branch Intramural Research Program, NIH, USA
- 11:45-12:20 *The effectiveness of third trimester ultrasonography in reducing perinatal severe adverse outcome and maternal peripartum morbidity/mortality: The IRIS study, a nationwide multi-centre stepped wedge cluster randomised trial*
Dr Ank de Jonge, Department of Midwifery Science, AVAG-Amsterdam Public Health, VU University Amsterdam, Amsterdam UMC, the Netherlands
- 12:20-1:00 p.m. Discussion
discussant: Prof Henriette van der Horst, Department of General Practice and Elderly Care Medicine, Amsterdam Public Health, VU University Amsterdam, Amsterdam UMC, the Netherlands
Developing a research agenda: How can the prevention of and screening for IUGR be improved and how can research support the implementation of newly developed preventive interventions and screening tools?



1:00-2:00 p.m. Lunch break

Part 2: Determinants and Consequences of IUGR (2:00-5:30 p.m.)

2:00-2:35 p.m. *Studying mechanisms and biological predictors of IUGR and stillbirth*
Prof Uma Reddy, Department of Obstetrics and Gynecology, Yale School of Medicine, New Haven, CT, USA

2:35-3:10 p.m. *Can transcriptomic biomarkers of the placenta improve the prediction of IUGR?*
Prof. Gordon Smith, Department of Gynaecology & Obstetrics, Cambridge University, UK

3:10-3:45 p.m. *Determinants and consequences of first-trimester IUGR: Lessons from the Generation R Study*
Prof Vincent Jaddoe, The Generation R Study Group and Department of Epidemiology, Erasmus Medical University Center, Rotterdam, the Netherlands

3:45-4:15 p.m. Coffee break

4:15-4:50 p.m. *The consequences of IUGR on brain structure and neurodevelopmental outcome*
Dr Suzanne Miller, Neurodevelopment and Neuroprotection Research Group, Monash Institute of Medical Research's Ritchie Centre, Monash University, Australia

4:50-5:30 p.m. Discussion
discussant: Prof. Henriette van der Horst, Department of General Practice and Elderly Care Medicine, Amsterdam Public Health, VU University Amsterdam, Amsterdam UMC, the Netherlands
Unravelling mechanisms underlying the long-term effects of IUGR: A roadmap for the development of perinatal interventions

Day 2 Part 3: Management of IUGR and its consequences (28 March, 9:00 a.m.-5:00 p.m.)

9:00-9:05 a.m. *Short introduction Day 2*
Prof. Henriette van der Horst, Department of General Practice and Elderly Care Medicine, Amsterdam Public Health, VU University Amsterdam, Amsterdam UMC, the Netherlands

9:05-9:40 a.m. *Timing of delivery of IUGR before 32 weeks of gestation*
Prof. Ahmet Baschat, Department of Gynecology and Obstetrics, John Hopkins School of Medicine, Baltimore, MD, USA

9:40-10:15 a.m. *The collaborative STRIDER trials - early results and design of the pre-planned IPD*
Dr Wessel Ganzevoort, Department of Obstetrics and Gynecology, Academic Medical Center, Amsterdam, The Netherlands

10:15-10:50 a.m. *Results of the DIGITAT trial: an overview*
Prof. Sicco (SA) Scherjon, Department of Obstetrics and Gynecology, University Medical Center Groningen, Groningen, the Netherlands

10:50-11:20 a.m. Coffee break



- 11:10-11:55 a.m. *Proposal of a stage-based management protocol for IUGR*
Dr Francesc Figueras, Department of Maternal-Fetal Medicine, University of Barcelona, Hospital Clinic, Barcelona, Spain
- 11:55-12:30 p.m. *The IRIS consensus protocol for identification and management of IUGR*
Prof. Arie Franx , Department of Obstetrics and Gynaecology, Erasmus MC, Rotterdam, the Netherlands.
- 12:30-1:30 p.m. Lunch break
- 1:30-2:05 p.m. *Determinants of severe adverse perinatal outcome: A prediction model. The IRIS study*
Dr Jens Henrichs, Department of Midwifery Science, AVAG-Amsterdam Public Health, VU University Amsterdam, Amsterdam UMC, the Netherlands
- 2:05-2:35 p.m. Coffee break
- 2:35-3:10 p.m. *IUGR and neonatal risk factors: child developmental outcome and postnatal growth until age 10 years*
Dr Aleid Leemhuis, Department of Pediatrics and Neonatology, Amsterdam University Center, University of Amsterdam, the Netherlands
- 3:10-4:30 p.m. Discussion:
discussant: Dr Ank de Jonge, Department of Midwifery Science, AVAG-Amsterdam Public Health, VU University Amsterdam, Amsterdam UMC, the Netherlands
Interventions during pregnancy and later: what to do (or not to do) and when exactly, and what are the alternatives? A clinical discussion from a scientific perspective
- 4:30 p.m. Drinks



Day 3: Masterclass: Research into IUGR, Design, Screening and Preventative Interventions

- 9:00-9:15 a.m. *Opening Day 3* by Dr Ank de Jonge, Department of Midwifery Science, AVAG-Amsterdam Public Health, VU University Amsterdam, Amsterdam UMC, The Netherlands
- 9:15-10:20 a.m. *Detecting IUGR: an illustration of different approaches to screening based on unclear cases*
Prof. Ahmet Baschat, Center for Advanced Fetal Care, Department of Obstetrics and Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, Md., USA
- 10:20-10.50 a.m. Coffee break
- 10.50-11:55 a.m. *Implementing the continuity of midwife-led care: A practical guide from a scientific perspective*
Prof. Soo Downe, School of Community Health and Midwifery, University of Central Lancashire, UK
- 11.55-13:00 p.m. Lunch with the experts
- 13.00-2:05 p.m. *Group-based antenatal care in the Netherlands: Current Status and Perspectives*
Dr Marlies Rijnders, TNO Child Health, Leiden, The Netherlands
- 2:05-3:10 p.m. *IUGR and subsequent (neuro)cognitive and behavioral development: follow up during infancy and early childhood*
Prof. D. Anneloes van Baar, Department of Education and Pedagogics, Utrecht University
- 3.10-3.40 p.m. Coffee break
- 3:40-4:45 p.m. *IUGR and fetal neurodevelopment: (efficacy of) known treatment approaches*
Dr Suzanne Miller, leader of the Neurodevelopment and Neuroprotection Research Group, Monash Institute of Medical Research's Ritchie Centre, Monash University, Australia
- 4:45-5:30 p.m. Discussion with the experts: Research into IUGR Quo Vadis?