

7:30 **Registration and Coffee**

8:20 **Welcome and Opening Remarks**
John Kingdom

Session One
Hemodynamic Changes in Healthy and Hypertensive Pregnancies

Moderator: Jon Barrett

8:30 **Maternal Circulatory Adaptations to Pregnancy: The Physiology**
Marc Spaanderman

9:00 **Hemodynamic Monitoring Tools in Pregnancy**
John Parker

9:15 **Early versus Late Preeclampsia from the Maternal Hemodynamic Perspective**
Ralph Scholten

9:30 **Angiogenic Proteins: The Maternal Circulation**
Ananth Karumanchi

10:00 **Panel Discussion and Q & A**

10:20 A.M. Refreshment Break

Session Two
The Effects of Maternal Hemodynamics on the Fetus

Moderator: Greg Ryan

10:45 **MRI Studies on the Placental Hemodynamics and Maternal-Fetal Oxygen Transport**
Mike Seed

11:05 **Maternal Hemodynamic Assessment in Fetal Growth Restriction**
Enrico Ferrazzi

11:35 **Fetal Cardiac Adaptations in Normal and Complicated Pregnancies**
Tim van Mieghem

11:50 **Panel Discussion and Q & A**

12:15 **Lunch in the Atrium**

Session Three
Maternal Hemodynamics in the Therapeutic Setting

Moderator: John Floras

1:15 Debate
 Hemodynamic Assessment is Necessary to Manage Acutely Hypertensive Pregnant Women
 Marc Spaanderman (for)
 vs.
 Rohan D’Souza (against)

1:55 **Hemodynamic-Directed Anti-Hypertensive Treatment in Pregnancy**
Kelsey McLaughlin

2:10 **Therapeutic Pathways to Promote Vascular Function and Prevention of Early Onset Preeclampsia**
John Kingdom

2:30 **Panel Discussion and Q and A**

3:00 P.M. Refreshment Break

Session Four
Maternal Health After Preeclampsia from Four Perspectives

Moderator: Howard Berger

3:15 **The MFM: Severe Preeclampsia-Implications for a Future Pregnancy**
Graeme Smith

3:30 **Obstetrical Medicine: Preterm Birth with Severe SGA and Premature Cardiovascular Disease**
Joel Ray

3:45 **The Nephrologist: Renal Disease after Pre-Eclampsia**
Michelle Hladunewich

4:00 **The Cardiologist: Cardiac Disease after Pre-Eclampsia**
Chahinda Ghossein

4:15 **Panel Discussion and Q and A**

4:45 Closing Remarks and Evaluation

1. To provide an update of the role of maternal hemodynamics in normal pregnancies and pregnancies complicated by hypertension and/or fetal growth restriction.
2. To highlight the specific hemodynamic profiles in early versus late onset preeclampsia and to generate an interactive discussion on how this could direct antihypertensive treatment in pregnancy.
3. To understand the long-term hemodynamic abnormalities after hypertensive complicated pregnancies.

Faculty

Jon Barrett
Professor, Dept. of Obstetrics & Gynaecology, University of Toronto
Sunnybrook Health Sciences Centre

Howard Berger
Associate Professor, Dept. of Obstetrics & Gynaecology, University of Toronto
St Michael’s Hospital

Rohan D’Souza
Assistant Professor, Dept. of Obstetrics & Gynaecology, University of Toronto
Mount Sinai Hospital

Enrico Ferrazzi
Professor, Dept. of Biomedical and Clinical Sciences Mangiagalli Maternity Hospital
IRCCS Fondazione Policlinico, University of Milan
Milan, Italy

John Floras
Professor, Dept. of Medicine, University of Toronto
Canada Research Chair in Integrative Cardiovascular Biology, Mount Sinai Hospital

Chahinda Ghossein
Post-Doctoral Fellow
Maastricht University Medical Centre
The Netherlands

Michelle Hladunewich
Associate Professor, Dept. of Medicine, University of Toronto
Head – Division of Nephrology, Sunnybrook Health Sciences

Ananth Karumanchi
Professor of Medicine, Harvard Medical School
Cambridge, MA

John Kingdom
Professor and Chair, Department of Obstetrics & Gynaecology, University of Toronto
Mount Sinai Hospital

Kelsey McLaughlin
Post-Doctoral Fellow
Dept. of Pharmacology and Toxicology and Dept. of Obstetrics & Gynaecology, University of Toronto

John Parker
Professor of Medicine and Pharmacology, University of Toronto
Staff Cardiologist, University Health Network and Mount Sinai Hospital

Joel Ray
Professor, Dept. of Medicine, University of Toronto
St. Michael’s Hospital

Greg Ryan
Professor, Dept. of Obstetrics & Gynaecology, University of Toronto
Mount Sinai Hospital

Ralph Scholten
Maternal Fetal Medicine Fellow, University of Toronto

Mike Seed
Associate Professor, Dept. of Radiology, University of Toronto
Head, Division of Paediatric Cardiology, Hospital for Sick Children

Graeme Smith
Professor and Chair, Dept. of Obstetrics & Gynaecology, Queens’s University
Kingston, Ontario

Marc Spaanderman
Professor and Chair, Dept. of Obstetrics & Gynaecology, Maastricht University Medical Centre, The Netherlands

Tim Van Mieghem
Associate Professor, Dept. of Obstetrics & Gynaecology, University of Toronto
Mount Sinai Hospital

Registration (HDP)

First Name: _____

Last Name: _____

Workplace Facility: _____

Address: _____

City: _____

Province: _____

Postal Code: _____

Phone _____

Email: _____

***Confirmation of registration will be sent by email*

Profession ☐ ObGyn ☐ Nephrologist

☐ Cardiologist ☐ Midwife ☐ Nurse /NP

☐ Resident/Fellow ☐ Other _____

If paying by cheque, please complete this form and make your cheque payable to **OBS/GYN Associates** and mail to:

*CME – Dept. of Ob/Gyn
Mount Sinai Hospital
700 University Ave. Room 8-934
Toronto, Ontario M5G 1Z5*

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If registering on-line, go to the Mount Sinai website
www.mountsinai.on.ca/cme/

Registration Fees (Canadian \$)

	Before March 20	After March 20
Physicians	\$250 + HST = \$282.50	\$275 + HST = \$310.75
Midwives		
Nurses	\$175 + HST = \$197.75	\$200 + HST = \$226.00
Residents		
Fellows	\$100 + HST = \$113.00	\$125 + HST = \$141.25

*If you are a faculty member of SOGC and are planning on attending the April 20/21 courses, please go to our website to register as there is a **10% discount for SOGC members attending both courses** through our website.*

Registration fee includes attendance at all lectures, syllabus material, CME credits, continental breakfast and lunch. Refunds will not be issued for cancellations received after March 21, 2018. A processing fee of \$40.00 will be retained on all cancellations.

Accreditation

This program has been accredited with the following accrediting bodies:

- **Royal College of Physicians and Surgeons of Canada**
(6.5 Section 1 hours)
 - **The American Medical Association**
(6.5 Category 1 credits)
 - **European Union of Medical Specialists**
(6.5 ECMEC credits)
- For nurses, this course will fulfill the requirement for reflective practice

Accommodation

Mount Sinai Hospital / University of Toronto have a negotiated rate for a deluxe room with the **Eaton Chelsea Hotel**. You will be sent a confirmation email that includes a link so that you can registered online for a hotel room (please note it is NOT a room block but a rate for University of Toronto course participants).

1 (800) 243-5732.
Eaton Chelsea Hotel
33 Gerrard St. West
www.eatonchelsea.com



To view this program and other CME programs, please go to our website:

Dept. of Obstetrics & Gynaecology – CME
www.mountsinai.on.ca/cme/
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FAX: (416) 586-5958
Questions?
Email: cmeobgyn@sinaihealthsystem.ca

2018
**Hemodynamics in
Pregnancy**

Friday April 20, 2018

Course Directors:
Dr. Ralph Scholten & Dr. John Kingdom

Venue:
Sadowski Auditorium,
Mount Sinai Hospital
600 University Ave. – 18th Floor
Toronto, Ontario