

- 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** (30 minutes)
- 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

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**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 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  
Staff Nephrologist, Mount Sinai Hospital/University Health Network

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

**John Kingdom**  
Chair, Department of Obstetrics & Gynaecology, University of Toronto  
Professor, Dept. of Obstetrics & Gynaecology  
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, Queen'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 [ ] Obstetrician [ ] 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

If paying by credit card, please complete credit card information and mail to the above listed address or fax to **FAX # (416) 586-5958**

[ ] Visa [ ] Mastercard

Card # : \_\_\_\_\_

Expiry Date: \_\_\_\_\_

Name on Card: \_\_\_\_\_

Signature: \_\_\_\_\_

If registering on-line, go to the Mount Sinai website

[www.mountsinai.on.ca/cme/](http://www.mountsinai.on.ca/cme/)

## Registration Fees (Canadian \$)

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

*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 20, 2018. A processing fee of \$40.00 will be retained on all cancellations.

## Accreditation

- This event has been submitted for accreditation as accredited group learning activity under Section 1 of the Framework of CPD options for the Maintenance of Certification Program of the **Royal College of Physicians and Surgeons of Canada**
- This event has been accredited **XX credits** by the Continuing Education Office, Faculty of Medicine, University of Toronto for category 1 credits toward the **AMA Physician's Recognition Award**. Each physician should claim only those credits for time that he/she actually spent in the activity
- 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 register 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](http://www.eatonchelsea.com)



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Questions?  
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2018  
**Hemodynamics in  
Pregnancy**

Friday April 20, 2018

Salter Auditorium  
Philip Gilgan Learning & Research Tower  
686 Bay St.  
Toronto, Ontario