

ADVANCED FETAL IMAGING CONFERENCE



ENHANCING QUALITY OF OBSTETRICAL ULTRASOUND FOR ALL

Saturday January 29, 2022

0800 – 1800h_{MST}

Virtual Conference Brochure

This program was co-developed with University of Calgary Section of Maternal Fetal Medicine and Canada Diagnostic Centres and was planned to achieve scientific integrity, objectivity and balance.

Updated: January 26, 2022
Schedule based on
Mountain Standard Time

Welcome to the Advanced Fetal Imaging Conference where knowledge and expertise will be shared to improve skills, new approaches and support providers to improve service delivery.

The Advanced Fetal Imaging Conference (AFIC) is organized in association with the Department of Obstetrics and Gynaecology (Section of Maternal Fetal Medicine) at the University of Calgary. The long-term vision is that every woman has access to high quality obstetrics ultrasounds and that those providing sonography services are able to help improve women's health outcomes by effective screening and diagnosis of fetal and obstetric conditions.

Join us for a full day of professional development and incorporate new skills to build on your knowledge. Our focus and topics will incorporate current practice guidelines for fetal anatomic screening, improving diagnostic skills for fetal anomalies and appreciate their implications for postnatal outcome. We will also outline the importance of maternal fetal medicine referral, develop an approach for fetal anomaly screening in the first trimester, create opportunities to support programs and protocols for improving screening for fetal anomalies, and challenge obstetrical imaging providers to elevate the quality of obstetric ultrasounds throughout gestation

Our learning objectives for this conference includes:

- Incorporate current practice guidelines for fetal anatomic screening
- Improve skills for fetal anomaly screening and appreciate the implication of these anomalies for postnatal outcome
- Develop an approach for fetal anomaly screening in the first trimester
- Create opportunities to support programs and protocols for improving screening for fetal anomalies
- Challenge obstetrical imaging providers to elevate the quality of obstetric ultrasounds throughout gestation

Accreditation

Sonography Canada has fully approved the Advanced Fetal Imaging Conference for 8 CME credits.

This event is an **Accredited as a Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada**, and approved by the University of Calgary Office of Continuing Medical Education and Professional Development. This activity has been approved for a maximum of **7.75 hours** (credits are automatically calculated)

CFPC members can claim these as non-certified credits. These are activities that have not been formally reviewed by the College and comply with the College's definition of continuing professional development.

0800h Welcome and Introductions: Dr. Stephanie Cooper

0815h The 18 - 20 Week Anatomy Scan

Kelly Raffin CRGS, RDMS

By the end of this session, participants will be able to:

1. Emphasize required structures and images needed to complete the detailed anatomical survey based on Alberta's Towards Optimized practice guidelines
2. Present common tips, tricks and pitfalls for sonographers during the detailed fetal anatomic exam
3. Demonstrate examples of fetal anomalies identified at the detailed anatomical ultrasound.

0900h Moderated Question and Answer

0910h Education and QI/QA in Obstetrical Ultrasound and Fetal Thoracic Pathology

Dr. Nimrah Abbasi MD, MSc, FRCSC

Assistant Professor, Department of Obstetrics & Gynecology,

Division of Maternal-Fetal - Medicine, Mount Sinai Hospital, University of Toronto

By the end of this session, participants will be able to:

1. Education, Quality Improvement and Assurance in Obstetrical Ultrasound
 - a. Importance of QI/ QA in obstetrical ultrasound
 - b. Ultrasound education and competency assessment
 - c. QI/QA in obstetrical ultrasound
 - d. Lessons learned from international ultrasound training programs

0935h

2. Overview of Fetal Thoracic Pathology

- a. Review standard planes for assessment of the fetal thorax
- b. Review key clues for diagnosis of common thoracic pathology and associated sonographic prognostic indicators.
- c. Review triaging and referral strategies for suspected thoracic pathology

1000h Moderated Question and Answer

1010h Refreshment and Movement Break: Gyrokinesis(R) for Sonographers presented by Megan Gole (10 minute movement break is non-accredited)

Gyrokinesis is a movement system that focuses on movement from the spine. This method develops strength, flexibility, balance, coordination and body awareness. It will relieve and correct many muscular/joint aches and pain. It can help with problems related to back pain, neck, legs, joints, sciatica and osteoarthritis. By joining in on this practice it can aid a Sonographer in lengthening their careers and being more comfortable within your working environment.

- 1030h** **Congenital Heart Disease: A Novel Screening Protocol Improved Provincial Detection Rates**
Karen Letourneau CRGS, RDMS
- By the end of this session, participants will be able to:**
1. Evaluate the success of a province wide quality assurance and quality improvement project to enhance the community diagnosis of major congenital heart disease.
 2. Develop an approach for obtaining standardized cardiac images for all routine obstetric exams.
 3. Demonstrate optimization strategies for cardiac imaging when fetal position and maternal characteristics create challenges.
 4. Recognize cardiac key findings from the mid-pregnancy detailed anatomical study that require timely Maternal-Fetal Medicine evaluation.
 5. Review fetal sonographic findings in common congenital heart disease.
- 1110h** **Moderated Question and Answer**
- 1120h** **Reading Between the Lines: Clues on Obstetrical Ultrasound That Should Trigger a Referral to Maternal Fetal Medicine**
Dr. Sue Chandra MD FRCSC Obstetrics & Gynecology, Maternal-Fetal Medicine
- By the end of this session, participants will be able to:**
1. Understand indications for referral to MFM based on obstetrical ultrasound findings
 2. Recognize system errors that may result in preventable fetal loss
 3. Use case-based examples to apply these principles to practice
- 1150h** **Moderated Question and Answer**
- 1200h** **Image Optimization for the Seasoned Sonographer**
Janie Huber CRGS, RDMS
- By the end of this session, participants will be able to:**
1. Enhance your image quality based on contrasting fetal structures.
 2. Optimize your obstetrical imaging with attention to machine physics.
 3. Contrast 'real life' cases optimized by the principles discussed during the session.
 4. Improve your basic principles of ergonomics, allowing you to extend the life of your career.
- 1230h** **Moderated Question and Answer.** Olivia Lasowski RDMS joining.
- 1240h** **Lunch**

- 1325h **Welcome Back!**
- 1330h **Double Trouble: Imaging Twins for the Community Sonographer**
Dr. Stephanie Cooper MD FRCSC Obstetrics & Gynecology, Maternal-Fetal Medicine
- By the end of this session, participants will be able to:**
1. Determine chronicity and amnionicity of multiple gestations in all trimesters and understand significance in multiple gestations
 2. Outline maternal and fetal complications of twins, with attention to specific complications with monochorionic twins
- 1400h **Moderated Question and Answer**
- 1410h **Beyond the 'Nuchal'- Getting the Most from the 11-14 Week Ultrasound**
Michelle Sutherland CRGS, RDMS, RVT, RDCS
- By the end of this session, participants will be able to:**
1. Optimize imaging parameters and techniques in the first trimester
 2. Identify normal fetal anatomical structure in the late first trimester
 3. Diagnose fetal anomalies that can be diagnosed by ultrasound in the first trimester
- 1440h **Moderated Question and Answer**
- 1450h **Endovaginal Imaging in Mid-Pregnancy**
Lisa Burechailo RDMS, RVT
- By the end of this session, participants will be able to:**
1. Trouble-shoot challenges frequently encountered during a transvaginal ultrasound
 2. Evaluate sonographic cervical evaluation for predicting risk of preterm birth
 3. Recognize the role of endovaginal ultrasound for placental position and exclusion of vasa previa
- 1520h **Moderated Question and Answer**
- 1530h **Refreshment and Movement Break: Yoga for Sonographers to Enhance Your Well-Being presented by Pascale Martino (10 minute movement break is non-accredited)**
Five minutes of yoga daily can improve your flexibility, build muscles and improve your mental health. Yoga not only improves balance concentration, it also helps to improve your posture. Yoga is for every body. Join and learn more about movement, breathing and connection to self.

- 1550h** **Biometry Matters!**
Monica Kelly MRT, CRGS, RDMS
- By the end of this session, participants will be able to:**
1. Review appropriate landmarks for measurement of CRL, BPD, HC, AC, FL
 2. Emphasize the importance of standardized and accurate approach to fetal gestational age determination and fetal size with examples.
 3. Describe appropriate assessment of fetal biometry when diagnosing fetal growth disorders.
- 1615h** **Moderated Question and Answer**
- 1620h** **Fetal Abdomen and Anterior Abdominal Wall**
Dr. Sheryl Choo, MD, MPH, FRCSC, Obstetrics and Gynecology, Maternal-Fetal Medicine
- By the end of this session, participants will be able to:**
1. Develop an approach for obtaining standardized fetal abdominal images for routine obstetric ultrasound assessments.
 2. Optimize strategies for fetal abdominal imaging.
 3. Recognize key fetal abdominal pathologic findings from the second trimester detailed anatomical assessment that require timely Maternal-Fetal Medicine evaluation.
- 1650h** **Moderated Question and Answer**
- 1700h** **Cases, Cases, Cases!**
Dr. Stephanie Cooper and Dr. Patrick O’Farrell MDCM, FRCSC, Obstetrics & Gynecology, Maternal-Fetal Medicine Fellow present interesting case presentations.
- 1730h** **Invitation to Virtual Collaborations**
Dr. Titilayo Oluyomi-Obi MD FRCSC Obstetrics & Gynecology, Maternal-Fetal Medicine
- By the end of this session, participants will be able to:**
1. Discuss interim results and lessons learnt from the Calgary MFM Telemedicine initiative.
 2. Identify opportunities for non-urban centers to collaborate to improve obstetrical imaging and participate telemedicine.
- 1750h** **Telemedicine**
Andrea Hanson, RDMS
- 1755h** **Moderated Question and Answer**
- 1800h** **Closing Comments and Conclusion of our Conference Day**

The Advance Fetal Imaging Conference has received an educational grant or in-kind support from the following exhibitors:

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Silver

