

## **Department of Obstetrics & Gynaecology, University of Toronto**

### **Residency Rotation-Specific Objectives**

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#### **Rotation: ULTRASOUND (PGY2-5)**

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##### **1 MEDICAL EXPERT**

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###### **1.1 Knowledge of Anatomy and Physiology Objectives:**

- 1 Demonstrate basic theoretical knowledge in the following areas relevant to obstetric ultrasound
  - a) Physics of ultrasound imaging modalities
  - b) Safety of ultrasound in pregnancy
  - c) Gestational age assignment
  - d) Fetal growth
  - e) Fetal well-being
  - f) Fetal anatomical ultrasound
  - g) Application of ultrasound in twins
  - h) Application of trans-vaginal ultrasound in pregnancy
  - i) Ultrasound findings in common fetal anomalies
  - j) Placental insufficiency and placenta previa
  - k) Reduced and increased amniotic fluid

###### **1.2 Data Gathering Objectives:**

- 1 For a patient presenting for high-risk consultation and ultrasound, obtain a complete focused history.

###### **1.3 Clinical Reasoning, Management and Judgement/Diagnostic and Therapeutic Planning Objectives:**

- 1 Participate in the development of a management plan for patients presenting to high-risk clinics.
- 2 Participate in the development of a management plan for patients who have abnormal ultrasound findings.

###### **1.4 Procedural skills Objectives:**

- 1 Demonstrate competency in the following ultrasound procedures
  - a) Fetal viability and dating in the first trimester
  - b) Fetal presentation and biometry
  - c) Placental localization
  - d) Biophysical profile and amniotic fluid assessment
  - e) Umbilical artery Doppler / MCA (middle cerebral artery) Doppler
  - f) Basic components of fetal anatomy evaluation at 18-20 weeks
  - g) Trans-vaginal assessment of the cervix
  - h) Basic assessment of twin pregnancy including determination of chorionicity, fetal growth, fetal wellbeing and presentation.

##### **2 COMMUNICATOR**

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###### **2.1 Physician/Patient Relationship Objectives:**

- 1 Discuss with the patient:
  - normal findings.
  - some abnormal findings, such as abnormal amniotic fluid volumes, abnormal BPP (biophysical profile) findings (movement, breathing), abnormal dopplers.
- 2 Demonstrate ability to convey bad news with empathy to patients and show support.
- 3 Complete health records in a timely manner.

### 3 COLLABORATOR

#### 3.1 Team Relations Objectives:

- 7 Demonstrate appropriate communication skills when interacting with all members of the multidisciplinary healthcare team and administrative staff.
- 8 Demonstrate an understanding of all inter-professional team member roles
- 9 Participate actively as a team member.
- 10 Consult the appropriate medical services to optimize patient care.

### 4 LEADER

#### 4.1 Time Management Objectives:

- 1 Maintain the patient flow in an efficient manner.

#### 4.2 Resource Stewardship Objectives:

- 1 Demonstrate an understanding of appropriate utilization/frequency of ultrasound imaging.

### 5 HEALTH ADVOCATE

#### 5.1 Determinants of Health/Health Advocacy Objectives:

- 1 Develop an awareness of the importance of equal access to ultrasound facilities.

### 6 SCHOLAR

- 1 Critically appraise ultrasound literature/information and integrate information from a variety of sources.
- 2 Effectively apply evidence in day-to-day clinical work in ultrasound screening and diagnosis, fetal malformations and pelvic pathology.
- 3 Teach medical students, junior residents, other staff and patients in the clinical and non-clinical setting.

### 7 PROFESSIONAL

#### 7.1 Responsibility Objectives:

- 1 Be available to the administrative staff and healthcare team and participate in the management of the patients in the clinic in conjunction with the staff, fellows, and clinic nurses.
- 2 Demonstrate professional attitudes in interactions with patients and other healthcare personnel
- 3 Report absences in a timely manner.

#### 7.2 Self-Assessment Skills/Insight Objectives:

- 1 Communicate with attending staff and request assistance in patient management when appropriate.
- 2 Consult ancillary services when required to enhance patient care.

#### 7.3 Ethics Objectives:

- 1 Demonstrate an awareness of the medico-legal issues and ethical issues with respect to patient confidentiality.
- 2 Demonstrate familiarity with some of the common ethical issues related to ultrasound.

#### Version Control

Date	Version No	Author	Location of Revisions	Approved at RPC Meeting
2010			No information available	
Aug 13 2012	v1.2	C Sutherland	Throughout	
Mar 21 2013	V2.2	C Sutherland	See sidebars on right margin	March 27 2013
May 05 2015	V2.4	C Sutherland	See sidebars on right margin	May 04 2015
Nov 01 2016	V3.0	C Sutherland	See sidebars on right margin	Revised in conjunct w/ ITER dev't.