

Department of Obstetrics & Gynaecology, University of Toronto

Residency Rotation-Specific Objectives

Rotation: **MATERNAL FETAL MEDICINE (MFM)**

CanMEDS Focus Roles: Collaborator, Scholar

1 MEDICAL EXPERT

1.1 Knowledge of Anatomy and Physiology Objectives:

- 1 Demonstrate extensive knowledge of:
 - a) Maternal physiological changes during pregnancy
 - b) Fetal physiology and development
 - c) Antepartum assessment of mother and fetus
 - d) Effect of medical, surgical, social and environmental conditions on pregnancy
- 2 Demonstrate extensive knowledge of the pathophysiology, prevention, investigation, diagnosis and management of common obstetric complications of pregnancy including:

a) Second trimester pregnancy loss	g) Fetal growth restriction
b) Preterm Labour	h) Isoimmunization
c) Premature rupture of membranes (preterm and term)	i) Dystocia
d) Antepartum hemorrhage	j) Post-term pregnancy
e) Hypertensive disorders of pregnancy	k) Fetal death
f) Multiple pregnancy determining chorionicity and differential diagnosis of discordant growth	l) Incompetent Cervix
	m) Fetal abdominal wall defects
	n) Neural tube defects
	o) Assessment of poly/oligohydramnios

- 3 Demonstrate knowledge of the presentation, investigation, diagnosis and management of common maternal medical conditions and their subsequent complications in pregnancy, including hypertension, systemic lupus erythematosus (SLE), diabetes, thrombophilias, cardiac disease, morbid obesity, epilepsy, and maternal infections
- 4 Demonstrate working knowledge of genetic screening procedures (First Trimester Screen, Integrated Prenatal Screening), Non-Invasive Prenatal Testing (NIPT), genetic diagnostic procedures, and genetic counseling.
- 5 Demonstrate ability to initiate discussion pertaining to care at the threshold of viability.

1.2 Data Gathering Objectives

- 1 Obtain a relevant history and perform a physical exam on a pregnant woman seen for a medical, surgical or obstetrical complication of pregnancy.
- 2 Perform and interpret a fetal assessment test (NST/ BPP).
- 3 Interpret fetal Doppler studies.

1.3 Clinical Reasoning, Management and Judgment/Diagnostic and Therapeutic Planning

Objectives:

- 1 Synthesize information gathered in the history and physical exam and plan further relevant investigations.
- 2 Use information gathered in history/physical exam, other investigations to plan appropriate management of the patient.

1.4 Procedural skills Objectives:

- 1 Perform appropriate therapeutic maneuvers skillfully; such as vaginal delivery, operative delivery (vaginal operative or cesarean section), and twin deliveries.
- 2 Individualize surgical approach to high-risk obstetrical complications, such as placenta previa, placenta accreta, classical Cesarean sections, and cerclage.

2 COMMUNICATOR

2.1 Physician/Patient Relationship Objectives:

- 1 Establish a therapeutic relationship with patients/families.
- 2 Listen effectively, discuss appropriate information with patients/families.
- 3 Teach patients/families, as appropriate.

2.2 Verbal / Written Communication Skills Objectives:

- 1 Convey bad news with empathy to patients and families.
- 2 Complete health records in an accurate and timely manner.

3 COLLABORATOR

3.1 Team Relations Objectives:

- 1 Demonstrate appropriate communication skills when interacting with all members of the multidisciplinary healthcare team and administrative staff.
- 2 Work effectively with other members of the healthcare team to promote a positive team relationship in caring for the patient.
- 3 Collaborate on complex patient care plans with colleagues from other disciplines (e.g., Pediatrics, Medicine, Anaesthesia).
- 4 Communicate proper care plan to family physician on discharge

4 LEADER

4.1 Time Management Objectives:

- 1 Complete tasks in an organized, timely, efficient manner.

4.2 Resource Stewardship Objectives:

- 1 Understand the effects of diagnostic, therapeutic decisions on healthcare for the patient, hospital and community.

4.3 Administrative Skills Objectives:

- 1 Demonstrate the ability to coordinate patient care including organization and follow up of consulting services, investigations, responding to patient/family queries and timely completion of health records.

5 HEALTH ADVOCATE

5.1 Determinants of Health/Health Advocacy Objectives:

- 1 Appreciate the social pressures related to complications in pregnancy.

6 SCHOLAR

6.1 Self-Directed Learning Objectives:

- 1 Demonstrate a critical approach to the literature regarding investigation, therapeutics and healthcare delivery with respect to maternal fetal medicine.

6.2 Critical Appraisal Skills Objectives:

- 1 Critically appraise literature on maternal fetal medicine topics efficiently and thoroughly.

6.3 Teaching Skills Objectives:

- 1 Teach medical students, junior residents, other staff and patients in the clinical situation and an ambulatory-care setting.

2 Present an MFM topic at the clinical site divisional/Department rounds.

7 PROFESSIONAL

7.1 Responsibility Objectives:

- 1 Be available to the administrative staff and healthcare team and participate in the management of the MFM patients in the clinic, on the wards, and in the emergency department 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 that arise in MFM care.

Version Control

Date	Version No	Author	Location of Revisions	Approved at RPC Meeting
2010				
V1.2 Aug 13 2012	V1.2	CSutherland	Revised to CanMEDs roles	
Jan 14 2013	V2.3	CSutherland	See sidebars on right margin	
2015-06-03v2.4	V2.4	D Hui, K Niles, CSutherland	See sidebars on right margin	Approved at RPC June 2015
June 05 2017	V2.6	D Hui, M Vainder, CSutherland	See blue font and sidebars on right margin	Presented at RPC June 05 2017