Department of Obstetrics & Gynaecology, University of Toronto
Residency Rotation-Specific Objectives

Rotation: ULTRASOUND (PGY2-5)

1 MEDICAL EXPERT

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

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.

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