Residency Rotation-Specific Objectives

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

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<th>Supervisor name:</th>
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<td>Rotation dates:</td>
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**IMPORTANT:** Supervisor and resident must discuss these rotation-specific objectives during the rotation orientation, and sign below to confirm discussion has taken place.

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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.
### Version Control

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