

# **Goals and Objectives of Training and Specialty Requirements Prenatal Diagnosis Rotation January 2015**

## **INTRODUCTION**

We would expect the trainee, based on earlier training, to have basic knowledge of the following areas applicable to clinical ultrasound and prenatal diagnosis - embryology, teratology, genetics, the physiology and pathophysiology of pregnancy.

Upon completion of the complete US/PND rotation, residents would be expected to understand the full range of diagnostic possibilities of ultrasound. The training requirements are intended to ensure that the resident develops appropriate skills to be able to identify normal pelvic, pregnancy and fetal anatomy, pregnancy and fetal abnormalities, and female pelvic pathology.

Goals for resident learning are as follows. The over-arching goals are italicised.

## **MEDICAL EXPERT**

The resident should have knowledge of the following:

- The important components of a genetic history which would include an understanding of "at risk populations" and family history
- Various options of prenatal screening: their timing, detection rates, false positive rates and the ability to counsel patients regarding this information including interpretation and counselling around abnormal results
- Various options of diagnostic tests used for prenatal diagnosis; their appropriate use, complication rates and interpretation of results
- Ultrasound soft markers for aneuploidy
- The epidemiology, differential diagnosis, and natural history of the more common abnormalities of the fetus:
  - Structure
    - skeletal system
    - central nervous system
    - cardiovascular system
    - intra-thoracic disorders
    - renal system
    - abdominal wall and diaphragm
    - gastrointestinal system
    - markers for chromosomal abnormalities
  - Function
    - hydrops, dysrhythmias, polyhydramnios, oligohydramnios

### **COMMUNICATOR**

Establishes appropriate supportive relationships with patient and families and also with genetic counsellors, ultrasound technologists, radiologists, obstetricians, family physicians and other members of the health care team.

- Is able to appropriately counsel around prenatal screening and diagnostic options and abnormal results from these
- Is able to interpret abnormal ultrasound findings and present them clearly, with appropriate language, to a patient/family and discuss subsequent options for management

### **COLLABORATOR**

Works effectively and respectfully with genetic counsellors, ultrasound technologists, radiologists, and referring health care providers – obstetricians, family physicians, midwives, nurses, nurse practitioners and others.

### **MANAGER**

Demonstrates an awareness of how the Prenatal Diagnosis Unit works in regards to servicing the entire catchment area

### **HEALTH ADVOCATE**

Demonstrates an awareness and knowledge of appropriate prenatal screening/testing and is able to advocate for the patient to obtain the appropriate resources

### **SCHOLAR**

Demonstrates a commitment to acquiring the knowledge required to understand key concepts in ultrasound, screening and diagnosis, fetal malformations and pelvic pathology

### **PROFESSIONAL**

Demonstrates high quality care combined with integrity, honesty, compassion and respect

- Demonstrates a caring, compassionate and respectful attitude for patients, families and other members of the health care team.
- Can identify ethical issues as they arise in patient care