

# Syllabus for FOGSI- ICOG Certificate Course in

## **Fetal Medicine**

### OBJECTIVE

This is a six month certification programme geared towards development of an obstetrician with expertise in Fetal medicine as sub - specialty.

Training is focused on tertiary level of care for the pregnant women and the fetus, which involves comprehensive, investigative workup of abnormalities as well as appropriate management of confirmed abnormal cases.

- a. Faculty will act as teachers, facilitators and expert authorities
- b. Self-directed efforts at learning and research data compilation is encouraged
- c. Hands-on training and patient management under supervision is provided
- d. Internet access, CDs, video - clips, full fledged library, class room teaching, interactive sessions, journal clubs and case presentations as per pre - fixed schedules.

### **Course contents**

- (1) Fetal development and physiology
- (2) Obstetric Ultrasonography
- (3) Diagnosis and Management of fetal anomalies
- (4) High risk pregnancy with materno-fetal morbidity
- (4) Neonatology
- (5) Genetic counseling

## **(1) Fetal development and physiology**

- a) Stages of fetal development with time line of formation of organs
- b) Expected anatomical appearance and biometry per gestational age
- c) Fetal Growth Restriction
- d) Fetal Infections<sup>[1]</sup><sub>[SEP]</sub>
- e) Fetal Surveillance in HRP
- f) Physiology and fetal complications of multifetal gestation

## **2) Obstetric Ultrasonography**

- a) Introduction to OBGYN scan
- b) I trimester USG (Normal<sup>[1]</sup><sub>[SEP]</sub>/ Abnormal)
- c) TIFFA scans – (Normal/Abnormal)
- d) Growth and Doppler scans
- d) Multiple pregnancy scans
- e) Cervical assessment
- f) Ectopic pregnancy

## **3) Diagnosis and Management of fetal anomalies**

- a) targeted imaging for diagnosing fetal anomalies – system wise

b) defining the anomaly, understanding the anatomy/physiology and planning the most rational care plan in pregnancy after detailed work up and counseling the couple accordingly.

### **3) High risk pregnancy with Materno-fetal morbidity**

- a) Management of PIH<sup>[L][SEP]</sup>
- b) Gestational diabetes Mellitus<sup>[L][SEP]</sup>
- c) Thyroid Disease in Pregnancy<sup>[L][SEP]</sup>
- d) Liver diseases in pregnancy
- e) Cardiac disease and pregnancy
- f) Pituitary Problems and Pregnancy
- g) Multifetal pregnancy – twins/triplets
- h) Case discussions –

Previous IUD- Previous LSCS/ myomectomy/ any scarred ureus, Pregnancy with previous Down Syndrome, Pregnancy in HIV +ve /HbSAg +ve Women , Twin gestation/ Trplets/higher order multiples. Preterm labour - Post dates

### **4) Neonatology**

- a) New born resuscitation protocols- basic - Perinatal asphyxia
- b) Newborn jaundice
- c)respiratory distress syndrome
- d) Meconium aspiration syndrome
- e) neonatal hypoglycemia
- f) Neonatal Ambiguous Genitalia
- g) FGR + Examination of newborn/ Preterm neonates

h) Neonatal seizures

i) Surgical Emergencies of new born eg Diaphragmatic Hernia

j) Neonatal sepsis

k) Common questions asked by mother

l) When to refer neonates

### **5) Genetic counseling**

To learn essentials of genetics

a) Chromosomal abnormalities

b) Genetic disorders and laws of Mendelian inheritance

c) Common prenatal genetic tests available

d) Drawing a basic pedigree

### **Expectations from the candidate**

The role of the Fetal Medicine candidate would be:

- to be regular in attendance, sincere in learning and maintain a generally courteous demeanour in clinics.

- To perform ancillary procedures required and in the management of complicated clinical cases,

- To propose her/his own plan of management and be able justify it while discussing evidence-based options.

- To gather evidence-based data in favor of or against the various options in management

- To monitor the progress of cases as her own, sharing her observations and plans with the attending staff
- Regular classes will be held within the centre and also centrally – the students must attend at least 80% of these classes.
- Training - to fully comprehend the essential and fundamental principles relating to practice.
- Research - to submit atleast one scientific paper for publications

## Assessment for certification

### Internal assessment

This will be based on the evaluation of the Log book- It is therefore recommended that each candidate should maintain a proper record of events of teaching and experiences , preferably in a sequentially dated manner in a log book.. The record will include academic activities as well as the presentations and procedures carried out by the candidate.

### The written assessment:

There shall be a written assessment at the end of 6months. Theory paper shall carry 100 marks.

### Practical Exam:

There shall be one or two external examiners, appointed by the ICOG ~ FOGSI. 1 hour maximum 100 marks

### Certification:

Based on the recommendations made by the examiners, successful candidate would be awarded the Certificate scroll by ICOG ~ FOGSI.

In case of unsatisfactory completion, the trainee would be given another chance to appear before the examiners (6 months) later.