

# Syllabus for Certificate Course in Perinatology Fellowship

## A) Particulars of Programme

### 1. Objectives of the programme

This is a one year fellowship programme geared towards development of an obstetrician with expertise in maternal fetal medicine as sub – specialty.

ONE candidate only per year 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. The role of the Perinatology Fellow would be to perform ancillary procedures required and in the management of complicated clinical cases,

- To propose her own plan of management and justify it
- 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
- Training – to fully comprehend the essential and fundamental principles relating to practice.
- Service – to both clinical charity and private patient of their fetal surveillance needs
- Research – to submit two scientific papers for publications

### 2. Course contents

#### 1) High Risk pregnancy

- a) Hepatitis 'B' in Pregnancy
- b) Management of PIH
- c) IUGR – Asymmetric
  - Symmetric
- d) Fetal Infections
- e) Recurrent abortions
- f) Fetal Surveillance in High risk patients
- g) Evidenced based
  - Episiotomy – Routine Vs Selective
  - Shaving – clipping Vs shaving
  - Enema – Indicated or nor
- h) Case discussions
  - Previous IUD
  - Previous LSCS
  - Pregnancy with Down's baby – counseling and Management
  - Pregnancy in HIV +ve Women - Management
- i) Audit activities
- j) Routine Antenatal care?
- k) Multidisciplinary approach
- l) Nuchal translucency
- m) Chorionicity and Amniocity in Twin gestation
- n) Preterm labour
- o) Past dates

**Training at Divakars Speciality Hospital ( Endocrinology)**

**By Dr. Srikanta / Dr. Gita Bhat**

#### 2) Endocrinology

- a) Gestational diabetes Mellitus
- b) Thyroid Disease in Pregnancy

- c) Neonatal Ambiguous Genitalia
- d) Pituitary Problems and Pregnancy

### 3) Neonatology (KR. Hospital)

- Dr. Janaki
- Dr. Ranjan kumar
- a) Respiratory distress syndrome
- b) Neonatal Jaundice
- c) Meconium Aspiration Syndrome
- d) IUGR + Examination of newborn
- e) Neonatal seizures
- f) Surgical Emergencies of new born
- g) Diaphragmatic Hernia
- h) Neonatal sepsis
- i) Common questions asked by mother
- j) When to refer neonates
- k) Resuscitation of newborn – I
- l) Perinatal asphyxia
- m) Preterm neonates
- n) Resuscitation of newborn
- o) OPEN HOUSE + Exam
- p) Blood gas analysis + PPROM

### B) Journal Club

- 1) Antenatal steroids
- 2) ORACLE STUDY

### C) Procedures learnt

- IV line
- Bag and Mask
- Intubation

### D) Procedures Seen

- Umbilical venous line
- Umbilical arterial line
- Cranial ultrasounds
- Resuscitation
- Ventilators

### 4) Ultrasonology

- a) Introduction to OBGYN scan
- b) I trimester USG (Normal)
- c) I trimester USG (Abnormal)
- d) Ectopic Pregnancy
- e) USG of Normal Pelvis
- f) Hydatidiform mole
- g) Liq. Amni and Its Significance
- h) USG of Myometrium and Endometrium
- i) CVS – Anomalies
- j) GUT Anomalies
- k) USG of Adnexal Masses
- l) High risk Pregnancy

- m) Follicular study
- n) CNS Anomaly
- o) Doppler
- p) Biometry and GA assignment – serial scans.
- q) Hydrops
- r) Interventions
- s) Placenta

### 3. Training methods and site of training

- 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.
- e. Sites of training –
  - High Risk pregnancy – Divakars Speciality Hospital, JP Nagar, Bangalore
  - Endocrinology – Samatvam, Kanakapura Road, Bangalore
  - Neonatology – KR Hospital, BSK I stage, Bangalore
  - Ultrasonography – **Medican** Divakars US training center
  - Observer Fellow – at perinatal Center –Philippines.

#### E) Duties and Responsibilities

	First Year	Second year
Outpatient service	Handle consultations	
Obstetrics ward	24 – hour duty; on – call	
Patient care	Daily rounds – Management folders Training rounds with chief of section	
Referrals.	Receives and reviews	Answers in consultation with staff
Conferences	Resource Person	
High risk	Main Presenter	Supplementary
Grand rounds	Main Presenter Compiles protocols	Supplementary Checks completeness of file
High Risk unit		
Ultrasound	Routine scan including Doppler	Targeted scan for fetal anomalies
Us – guided procedure	Assists Prepares equipment, materials Follows up lab results	Performs Checks equipment materials Writes and files report

Electronic FHR Monitoring	Perform interprets	Supervises Writes and files report
External assignments Sto. Tomas Diabetes center NICU	Attends consultations as preceptee	Continuously Coordinates with units
Research projects	Co- worker in other Department papers	Main investigator for required paper graduation.

#### 4. Assessment Plan –

**During the course –** Formative-

Cognitive –

Written examinations

Oral presentations

Participation in case discussions

Patient management folders

**Psychomotor –**

Performance in procedures

Logbook of procedures done

**Affective –**

Attendance record

Observations of patient, peers and superiors

**For Certification –**

- Satisfactory in all evaluations
- Average of 80% in written exams
- Satisfactory rating in research project and paper presentation

#### 5) Particulars of Faculty –

##### a) Consultant Gynecologists –

- Dr. Hema Divakar – Consultant DSH  
MBBS, DGO, MD(Bom), FICOG, FICMCH, PGDMLE  
Visiting consultant and Postgraduate Teacher  
Devaraj Urs college, Kolar, Karnataka
- Dr Lata Venkataram – Consultant DSH  
Medical Disorders

##### b) Consultant Neonatologists

- Dr. Ranjan Kumar
- Dr. Janaki

##### c) Consultant Endocrinologists

- Dr. Srikanta / Dr. Gita Bhat

##### d) Consultant Sonologists

- Dr. Suresh
- Dr. Preethi venkatesh
- Dr. Rama Murthy
- Dr. Latha Natarajan
- Dr. Chitra

##### e) External overseas faculty

(optional ) - Dr. Corazon Almirante – Phillipines

#### 6) No fees will be charged for this fellowship programme

**7) Criteria for selection –**

- Post graduate Diploma or Degree in OBG from a recognised university
- Minimum one year experience; after Post graduation

**8) Availability of accommodation –**

Trainees will be paid a stipend of Rs: 10,000/- per month and have to arrange for their stay .

Optional - Travel sponsorship to Phillipines will be offered  
Expenses will have to be borne by the candidate .