Curriculum for

Post-Doctoral Fellowship

in

 HIGH RISK OBSTETRICS

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**SRI AUROBINDO UNIVERSITY**

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DEPARTMENT OF OBST AND GYNAE (SAMC & PGI. INDORE)

**SYLLABUS**

Curriculum will be covered under following 7 modules [this is indicative and not limited only to following]:

## Module 1 : DISEASES IN PREGNANCY

1. Pregnancy with Hypertension [HT]-chronic HT, preeclampsia, eclampsia, other
2. Pregnancy with Cardiac Disease - congenital Heart Disease [corrected, uncorrected], Rheumatic Heart Disease [Operated, unoperated], postpartum cardiomyopathy, others.
3. Pregnancy with Obstetric cholestasis, Acute fatty liver of pregnancy, hepatitis, preexisting liver disease, others.
4. Pregnancy with Anemia, pregnancy with hemoglobinopathies, pregnancy with thrombocytopenia, others
5. Thromboembolic disorders in pregnancy -Previous VTE, Thrombophilia [with and without previous VTE] , Acute DVT, Pulmonary embolism, Others
6. Psychiatric Disease- Post natal depression, Puerperal psychosis, maniac Depressive Disorders 7.Gestational diabetes mellitus, Type I DM, Type II DM, Others.
7. Pregnancy with endocrinological diseases - Thyroid disorders [Hypothyroidism, Hyperthyroidism], Others
8. Pregnancy after ART
9. Pregnancy with Infections –HIV, Hepatitis, Other Viral Infections, Urinary Tract Infections, Pulmonary infections, Genital tract infections,
10. Pregnancy with Acute Abdomen .
11. Pregnancy with fever –Dengue , malaria , COVID-19 ., OTHERS 13 . Pregnancy with ovarian masses, cervical cancer , others ,

## Module 2 : PERIPARTUM RISKS

1. Antepartum haemorrhage-Placental abruption, Placenta previa,Others
2. Preterm birth-Prior history of preterm/PROM, Preterm labour, PROM [< 24, weeks,>24 Weeks].
3. Multiple pregnancy [MP]-Complications in MP, Single fetal demise, Cotwin demise after 12 weeks, Malpresentation. Any complication in MP, delivery planning, higher order multiple pregnancies.
4. Pregnancy with prev CS, Previous 2 LSCS .
5. Fetal Infections-TORCH, Parvovirus, others
6. Hydrops –Nonimmume, Alloimmunization [Red cell alloimmunization], Others

## MODULE 3 : SKILLS DEVELOPMENT

* + Ultrasound Skills -

Scan for cardiac activity .

USG diagnosis of fetal anomalies [TIFFA] Fetal echocardiography

Screen for preterm birth - cervical length

Growth scan – assessment of fetal growth ,FGR determination

Doppler studies-Uterine artery, Middle cerebral artery , Ductus venosus Doppler, other

Biophysical profile

Ultrasound assessment placental site (TVS) Morbid adherence of Placenta

* Ultrasound assessment of chorionicity

## Module 4 : Intrapartum Care

1. Intrapartum fetal monitoring
2. Medical and surgical management of postpartum haemorrhage (PPH)
3. Multiple pregnancy delivery and care
4. Breech labour and delivery
5. Shoulder dystocia management during labour .
6. Assisted vaginal delivery - Forceps/ vacuum
7. 3rd/4th degree perineal tear repair , OASI, Uterine scar rupture, Others 9.All types of Caesearean Section and baby delivery manuovers during CS

10. Vaginal tear repair, external and internal cephalic version, balloon tamponade usage. 11.Anaesthesia/Analgesia- Assessment and counseling high risk case.

1. Maternal Collapse- near miss ,Massive haemorrhage, Amniotic fluid embolism, 13.Assessment & transfer and management of critically Ill patients in HDU/ICU.

# MODULE 5 -FETAL MEDICINE AS PART OF HIGH RISK OBSTETRICS

* + Preconception counselling
	+ Counseling for prenatal invasive procedures
	+ Amniocentesis
	+ Choion villus sampling
	+ Cordocentesis
	+ Amnioreduction
	+ .Preimplantation genetic diagnosis
	+ Counseling for Neonatal surgery-Abdominal wall defect, Diaphragmatic hernia, Bowel atresia, Spina bifida, Others
	+ Coordination with paediatric physician/surgeon for postnatal management.

# MODULE 6 – SPECIAL OBSTETRICS TOPICS

Ectopic pregnancy – medical management , surgical management –laparotomy and laproscopy

Trophoblastic diseases – medical and surgical management. Incomplete abortions –D& E, S& E .

Uterine Devascularisation surgical techniques .

# Module 7: Neonatal Care .

* + Neonatal resuscitation
	+ Assessment of Newborn
	+ Newborn with gross congenital anomaly
	+ Evaluation of Antenatally diagnosed structural anomaly
	+ Birth trauma
	+ Cord Blood ABG