



IMAGING
MASTERCLASSES



ADVANCED COURSE IN **FETAL MEDICINE**

ELIGIBILITY: POST GRADUATES AND ABOVE

**EXTENSIVE HANDS-ON PRACTICE
ON NORMAL & ANOMALOUS FETUSES**

LEARN FROM THE MASTERS



DR. MAGDALENA
S. CORTES



DR. VIVEK KASHYAP



DR. BS RAMA
MURTHY



DR. CHANDER LULLA



DR. PRASHANT
ACHARYA



DR. NITIN CHAUHAN



DR. RACHITA
RAMAMURTHY



DR. VIVEK KRISHNAN



DR. DHRUVA
RAJGOPAL



DR. VIKAS KAUSHAL



DR. VERONICA
ARORA



DR. SHREYASI
SHARMA



DR. PAULDEEP KAUR



DR. NEHA GUPTA

COURSE HIGHLIGHTS

- ★ Hands-on training on latest votracer OPUS simulators with new volumetric 360° optical transducers which provide a real-life practice on normal as well as anomalous fetus.
- ★ Live demos covering all aspects of fetal imaging
- ★ Demonstrations of fetal diagnostic and therapeutic procedures
- ★ Be a life long member of on-line discussion and learning groups

HIGHLIGHTS: 4 ONSITE WEEKENDS

10 ONLINE CLASSES

- Online Classes
- Live Demos
- Hands -on Training on Simulator
- Log Book
- Pre-course & Post Course Tests
- Assignments
- Real case Scenarios & Discussions

- **SYSTEM SPECIFIC CLASSES**
- **LOG BOOK AND OTHER ASSIGNMENTS**
- **ISUOG APPROVED COURSE**
- **LIFE LONG ONLINE GROUP MEMBERSHIP**
- **FOR CONTINUED LEARNING**
- **CASE DISCUSSIONS**
- **RECORDING ACCESS**



SCIENTIFIC CURRICULUM

1. Peri-conceptional scans and Peri-conceptional medicine

Fertility scans, ovulation, early pregnancy scans, NICE guidelines
Tubal pregnancy, Non-tubal ectopic pregnancy, PUL, pain in early pregnancy, Bleeding in early pregnancy, RPL and RPOC.

2. Early pregnancy scans and embryonic development

Viability scans, Embryonic development, Carnegie staging, brain and heart formation in early embryo, markers of mal development in embryo, Machine settings

3. NT scan and First trimester anatomy scans

Guidelines for aneuploidy screening, First trimester anatomy scan: basic essentials and stretching the limits, first trimester heart, first trimester brain, Biochemical markers in first trimester, NIPT and its utility, Pre-eclampsia screening,

4. Level 2/ TIFFA scans

Guidelines for mid trimester scan, Reporting formats, essential images and cine loops, preserving reports and documents, 20+2 planes approach in TIFFA scans, Counseling and approach towards anomalies. Machine settings.

5. Neurosonography : study of Fetal brain and spine

Fetal brain imaging, essential studies, neurosonogram and extended neurosonogram, ventriculomegaly, mid-line anomalies of fetal brain, Posterior Cranial Fossa: development and malformations, vermian development and disorders, migrational disorders of the brain, Anomalies of the corpus callosum, cystic lesions of the brain, vascular malformations of the brain, spine: normal appearance and how to examine the spine, spinal malformations, pre-natal and post-natal corrections of spinal malformations.

6. Fetal cardiology and cardiac screening

Cardiac settings: Fetching more out of a machine Basic cardiac screening and fetal echocardiography, Cardiac Planes & Anatomical Landmarks: ISUOG guidelines, Reporting formats, Basic fetal cardiac assessment vs Fetal echocardiography, Determining the Situs, 4 chamber view :Normal and abnormal, Anomalies of the aorta, Atrial, ventricular and atrio-ventricular Septal defects Tricuspid valve atresia/dysplasia , Ebstein anomaly, Falot's tetralogy , Aortic arch anomalies (Rt aortic arch, /double aortic arch, ARSA). DORV. interrupted aortic arch. Outflow tract anomalies, TGA ccTGA

7. Fetal Face, syndromes and genetics

- Fetal face: normal and abnormal,
- Facial clefts : types and prognosis,
- Face: a crucial window to a
- Diagnosis: Case based discussion,
- Facial angles: how relevant.

8. Fetal Face, syndromes and genetics

Anterior abdominal wall defects, Fetal GI tract, Echogenic bowels: diagnosis and prognostication, Intra-abdominal measurements, MRI of the fetal abdomen, Pyelectasis to megacystis,

Fetal therapy for LUTO- Techniques, Should we still report antenatal hydronephrosis? Hyperechoic large kidneys, Renal tract anomalies

9. Fetal skeletal system

Short long bones, skeletal dysplasia: prognostication and diagnosis, fetal hands and feet.

10. Fetal lungs scanning and treatment

Fetal lung lesions: an overview, Congenital Diaphragmatic hernia: present and future considerations

11. Fetal infections

Fetal Infections, Screenings & counselling for fetal infertility, Fetal hydrops.

12. Fetal environment

Morbid adherence of the placenta, Too much water around the baby, Short cervix. Scar assessment and cord entanglement.

13. Fetal growth and doppler

Dating a pregnancy,
Fetal growth: how old are you,
Fetal growth: which charts to use, Doppler in obstetrics,
Follow up and management of early and late onset FGR, Integrated stage based approach to FGR,
What is FGR ? Growth restriction in syndromes and infections, FGR – Pathophysiology, Stage based management of FGR.
Role of Doppler in isoimmunization, large for dates ? macrosomia

14. Twins: scanning and complications

Discordance in twins: benign or ominous, chorionicity and amnionicity in multiple pregnancies
Discordance in twins: benign or ominous? Selective fetal growth restriction, Discordance in DCDA twins
Managing discordance: MCMA vs MCDA twins , Fetal interventions and TTTS

15. Fetal invasive procedures: amniocentesis and CVS

Current Fetal Intervention: an overview ,PCPNDT Considerations in Interventional Procedures

Chorion Villus Sampling: A Hands on Approach, Amniocentesis: Practical Considerations & Techniques

Cordocentesis: Indications, Methods & Complications ,Fetal interventions in twins

Genetics Made Painless: FISH, QFPCR, Conventional Karyotype, MLPA, Microarray, Clinical Exome, Whole Exome, Whole Genome Targeted Mutation Specific Sequencing.

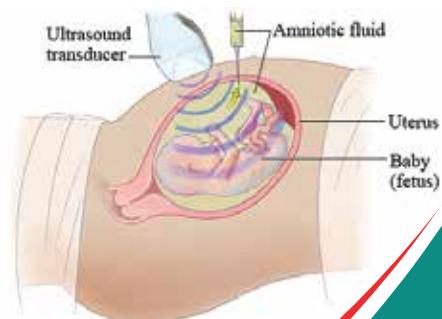
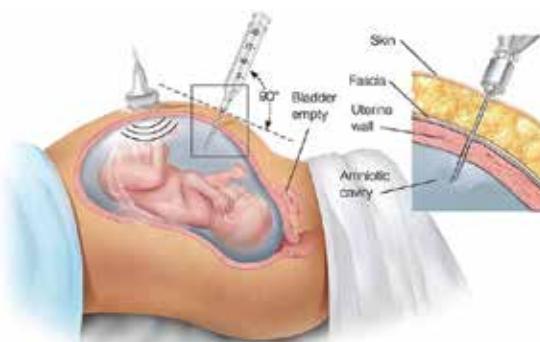
16. Fetal surgery and fetal treatment options

Talks and video demonstrations on fetal therapy and treatment in association with (Baylor College of Medicine), Houston, US

17. Counseling and fetal genetics

Exome in malformations, Role of cma in malformations, NIPT: when and when not.

Case Presentations /Q A sessions by Experts



GLIMPSES OF OUR COURSE



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