

Professional Training Program in Maternal-fetal Ultrasound
Academic Year: 2020- 2021

<i>Topic</i>	<i>Hours</i>	<i>Percentage</i>	<i>Marks</i>
Theoretical ,LECTURES:	130	25 %	
<i>I. First trimester (early pregnancy and late first trimester) 14 lectures</i>	28	21.5	
<i>II. Fetal well-being and growth 6 lectures</i>	12	9.2	
<i>III. Midtrimester scan 11 lectures</i>	22	17	
<i>IV. Congenital anomalies 16 lectures</i>	32	24.6	
<i>V. Gynecology 10 lectures</i>	20	15.4	
<i>VI. Doppler + 3 D 8 lectures</i>	16	12.3	
CLINICAL AND PRACTICAL SKILLS	675	75%	
1. Clinical skills		55	
<i>I. Normal and abnormal anatomy</i>			
<i>II. Accurate diagnosis of abnormality</i>			
<i>III. Suggested management strategy</i>			
<i>IV. Counselling of the patient</i>			
2. Practical or interventional skills		20	
TOTAL	805	100%	

Cognitive Assessment Blueprint

Each case should be recorded by date and a printed picture of documented by the responsible clinician that diagnosis is correct					
Topic	Required no. of cases	Percentage %	MCQ (100)	video (150)	Clinical (100)
<i>I. early pregnancy</i>		<i>10%</i>		✓	
- <i>Normal</i>					
1. G. sac					
2. Yolk sac					
3. fetal pole pulsations					
4. CRL measurement					
- <i>Abnormal</i>	35				
1. Anembryonic	5				
2. missed abortion	5				
3. haematomas	5				
4. ectopic pregnancy	5			✓	
5. cervical	1			✓	
6. c. section scar pregnancy	1			✓	
7. V mole	5				
<i>II. First Trimester scan</i>		<i>20%</i>			
1. NT scan with :	100				
a. NT measurement			✓		✓
b. NB			✓		✓
c. DV			✓		✓
d. TR			✓		✓
e. Facial angle			✓		✓
f. uterine a. Doppler			✓		✓
2. Normal First trimester anatomy	100				✓
3. First trimester scan anomalies	5 cases at least of each			✓	

	common anomaly				
a. Anencephaly	5			✓	
b. Omphalocele	5			✓	
c. congenital heart	5			✓	
III. Early diagnosis of twins	20	10%			
a. Types of twins			✓		✓
b. determination of chorionicity			✓		✓
c. dating and counseling of cases with twins			✓		✓
d. first trimester risk assessment of twins			✓		✓
IV. Invasive procedures	30	10%			
a. CVS	10				✓
b. Amniocentesis	10				✓
c. IU transfusion	Observe 10				✓
V. Growth assessment	100				✓
a. accurate measurement of: - BPD - AC - FL					✓
b. interpretation of growth charts					✓
c. Assessment of SGA & IUGR	50				✓
d. Doppler of abnormal growth cases: - Umbilical - MCA - DV - Uterine a	20				✓
VI. Midtrimester scan		30%			
1. Normal Anatomy	100				✓
2. Abnormal anatomy	5 cases of each				

	anomaly seen and recorded;			✓	✓
a. Acrania, anencephaly, hydrocephalus, ventriculomegaly,				✓	✓
b. encephalocele, holoprosnecephaly, dandy walker, destructive lesions				✓	✓
c. Cleft lip. Palate				✓	✓
d. Spina bifida, kyphoscoliosis				✓	✓
e. CCAM, lung sequestration, CDH				✓	✓
f. Duodenal atresia, oesophageal atresia			✓	✓	✓
g. Four chamber abnormalities; LHHS, VSD, ASD, AV canal			✓	✓	✓
h. Outflow abnormality; TGA, DORV, coarctation of aorta			✓	✓	✓
i. Renal agenesis, hydronephrosis, Multicystic kidneys, polycystic kidneys, key hole bladder			✓	✓	✓
j. Skeletal dysplasias; lethal and non-lethal			✓	✓	✓
k. Fetal hydrops			✓	✓	✓
VII. Gynecology 10 lectures		15%			
1. Normal a. Uterus b. Endometrium c. ovaries d. cervix	10				✓

2. Abnormalities	5 cases each				
a. Fibroids			✓	✓	✓
b. Adenomyosis			✓	✓	✓
c. Polyps			✓	✓	✓
d. IU synechiae			✓	✓	✓
e. Mullerian anomalies (3D images)			✓	✓	✓
f. PCO ovaries			✓	✓	✓
g. functional ovarian cysts			✓	✓	✓
h. endometriomas				✓	✓
i. benign and malignant ovarian tumours:					
j. Hydrosalpinges	5 cases each		✓	✓	✓
k. peritoneal cysts					
l. Adhesions					
VIII. Doppler + 3 D 8 lectures		5%			
First trimester;	10				
a. DV					✓
b. uterine a.					✓
c. heart exam Doppler:					✓
Second trimester;	10				
a. Umbilical a			✓		✓
b. uterine a.			✓		✓
Third trimester;	10				
a. assessment of small fetuses;			✓	✓	✓
b. umbilical a,			✓	✓	✓
c. uterine a,			✓	✓	✓
d. DV,			✓	✓	✓
e. MCA			✓	✓	✓
IX. 3D					
1. Images of face in 3D	10				✓
2. Coronal view of uterus	10				✓

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