## Certification in Maternal Fetal Medicine (CMFM)



Hybrid In-Hospital Clinical Examination (IHCE) Mid-Trimester Ultrasound Assessment

## **CANDIDATE DETAILS**

Candidate Name Hospital Date of Examination

Introduces self to patient and obtains relevant clinical details	1 No introduction or history	2	3 Minimal introduction and incomplete history	4	5 Complete introduction and history
Explain examination	1 Incomplete or misinformation	2	3 Explanation complete but brief	4	5 Full, succinct explanation with indication and limitations
Assess cervix and uterine contents including fetal number and amniotic fluid volume	1 Incomplete demonstration	2	3 Structures demonstrated by unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Assess placenta: - Location - Anatomy - Appearance	1 Incorrect demonstration	2	3 Structures demonstrated but unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Measure BPD	1 Incorrect plane and measurement	2	3 Hesitancy in image acquisition and calliper placement	4	5 Systematic image acquisition and measurement
Measure HC	1 Incorrect plane and measurement	2	3 Hesitancy in image acquisition and calliper placement	4	5 Systematic image acquisition and measurement
Measure AC	1 Incorrect plane and measurement	2	3 Hesitancy in image acquisition and calliper placement	4	5 Systematic image acquisition and measurement
Measure FL	1 Incorrect plane and measurement	2	3 Hesitancy in image acquisition and calliper placement	4	5 Systematic image acquisition and measurement
Measure HL	1 Incorrect plane and measurement	2	3 Hesitancy in image acquisition and calliper placement	4	5 Systematic image acquisition and measurement



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Assess fetal head and brain anatomy:  - Cranium shape and ossification  - Lateral ventricles  - Choroid plexus  - 3 <sup>rd</sup> and 4 <sup>th</sup> ventricle  - Thalami  - CSP  - Corpus callosum  - Cerebellum  - Cisterna magna	1 Incomplete demonstration	2	3 Structures demonstrated but unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Measure nuchal fold, cerebellum and lateral ventricle	1 Incorrect plane and measurement	2	3 Hesitancy in image acquisition and calliper placement	4	5 Systematic image acquisition and measurement
Assess fetal face: - Orbits and lenses - Lip, nose, chin (mandible) - Palate (axial) - Profile - Nasal bone	1 Incomplete demonstration	2	3 Structures demonstrated but unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Measure nasal bone	1 Incorrect plane and measurement	2	3 Hesitancy in image acquisition and caliper placement	4	5 Systematic image acquisition and measurement
Assess fetal heart:  Rate and rhythm Axial views:  Abdominal IVC and aorta  4 chamber view  Situs  Size  Axis  Contractility, rate, ventricular size, morphology  Atrial size  AV valves, crux  Septum primum  Ventricular septum  Schamber heart  Left outflow tract  Right outflow tract  Bifurcation of MPA  Cross-section aorta  Right atrium  3 vessel view  PA, aorta, SVC  "Arrow" view  Aortic arch  Ductus arteriosus	1 Incomplete demonstration	2	3 Structures demonstrated but unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Sagittal views: - Aortic arch and neck vessels - Ductal arch - Venous return: SVC, IVC	1 Incomplete demonstration	2	3 Structures demonstrated but unsystematic approach	4	5 Systematic approach



Accoss diaphragm	1	2	3	4	5
Assess diaphragm	Incomplete demonstration		Structures demonstrated but unsystematic approach		Systematic approach in both transverse and longitudinal panes
Assess upper limbs: - Humerus - Radius, ulna - Hands, digits - Wrist position	1 Incomplete demonstration	2	3 Structures demonstrated but unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Assess fetal abdomen: - Stomach size, situs - Liver, gallbladder - Bowel loops - Kidneys (transverse and long or coronal plus a length), renal arteries - Bladder - Cord insertion, 3VC	1 Incomplete demonstration	2	3 Structured demonstrated but unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Assess lower limbs: - Femur - Tibia, fibula - Feet, toes - Ankles	1 Incomplete demonstration	2	3 Structures demonstrated but unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Assess fetal spine: - Axial views, skin integrity - Sagittal views, skin line - Coronal views	1 Incomplete demonstration	2	3 Structures demonstrated but unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Demonstrates the use of 3 and 4 D imaging to assist in completion of the mid trimester scan	1 Incomplete demonstration	2	3 Structures demonstrated but hesitatnt utilisation	4	5 Systematic approach with confidence in utilisation
Assess maternal anatomy	1 Incomplete demonstration	2	3 Structures demonstrated but unsystematic approach	4	5 Systematic approach in both transverse and longitudinal planes
Strategies when poor views	1 No strategies, accepting of poor views	2	3 Good strategies but poor implementation	4	5 Good strategies, well implemented
Systematic approach to examination	1 Incomplete or chaotic approach to examination	2	3 Good approach to examination, not always flexible whilst maintain systematic approach	4	5 Complete, systematic approach to examination, taking into account all factors
Counselling: explain findings to patient	1 Incomplete or misinformation	2	3 Explanation complete but brief	4	5 Full succinct explanation with limitations



## EXAMINER TO COMPLETE

Numbe	r of criteria boxes assessed as '4' or more:			
On exa	mination the trainee has:			
	Achieved Above MAPS			
	Achieved MAPS required for this mid trimester Ultrasound Assessment.			
	o (MAPS: a minimum of 17 of the 25 criteria to be scored at '4' or higher)			
	Not Achieved MAPS required for this mid trimester Ultrasound Assessment			
Aspects	s performed well:			
Aspects	s to be improved:			
•••••				
Duratio	n of this examination:			
SIGNA	TURES			
Exami	ner Name			
Qualif	ication			
Signat	ure			
Date				