

FRIDAY - 12/4/2019

2nd Royal Hospital International Conference

Department of Emergency

Advanced EM POCUS Workshop

Day: Friday, Date: 12/04/2019, Venue: National Heart Centre, Muscat

Time 07:30- 07:45 (15 min)	Registration			
Time/ Duration	Topic	Objectives	Methodology	Speaker
07:45 – 08:00 (15 min)	Introduction to the Course and Faculty	<p>At the end of this workshop participants will have learnt:</p> <ul style="list-style-type: none"> ▪ The basic components of an ultrasound system ▪ Types of transducer and the production of ultrasound, with an emphasis on operator-controlled variables 	Lecture Followed By Discussion	Dr Aftab Mohammad Azad MD, ArBEM, ABEM I, FRCPC
08:00 – 08:45 (45 min)	Lecture 1: Ultrasound Physics, Knobology & Image Optimization	<ul style="list-style-type: none"> ▪ Use of ultrasound controls ▪ Knowing the frequencies used in medical ultrasound and the effect on image quality and penetration 	Lecture Followed By Discussion	Dr Aftab Mohammad Azad MD, ArBEM, ABEM I, FRCPC

08:45 – 09:15 (30 min)	Lecture 2: Gall bladder	<ul style="list-style-type: none"> ▪ Describe the indications and limitations of focused biliary tract ultrasound ▪ Define the relevant local anatomy including the gallbladder, portal triad, inferior vena cava, and liver ▪ Understand the standard ultrasound protocol when performing focused biliary ultrasound ▪ Recognize the relevant focused findings and pitfalls when evaluating for cholelithiasis and cholecystitis. 	Lecture Followed By Discussion	Dr. Badar Al Hamrashdi MD, OMSB-EM, ArB-EM, ARDMS
09:15 – 10:00 (45 min)	Hands on: Gall Bladder	<ul style="list-style-type: none"> ▪ Acquire and Interpret ultrasound images ▪ Describe key pathologies 	Workshop Didactics and Hands-on Sessions in groups of 3-4 candidates per station	All Faculty Dr. AFTAB Dr. Saad Dr. Greg Hall Dr. Jim Connolly Dr. Mohammed Al Shamsi Dr. Nisreen Maghraby Dr. Badar Al Hamrashdi Dr. Rashid Al Araimi
10:00 – 10:15 (15 min)	Break 1			
10:15 – 10:30 (15 min)	Lecture 3: Thoracic	<ul style="list-style-type: none"> ▪ Describe the indications and limitations of focused ultrasound of thoracic cavity ▪ Recognize the relevant focused findings and pitfalls when evaluating and diagnosing for plural effusion, pneumothorax ... ect. 	Lecture Followed By Discussion	Dr. Saad Al Juma MD ArBEM FRCPC
10:30 – 11:10 (40 min)	Hands on: Thoracic	<ul style="list-style-type: none"> ▪ Acquire and Interpret ultrasound images ▪ Describe key pathologies 	Workshop Didactics and Hands-on Sessions in groups of 3-4 candidates per station	All Faculty Dr. AFTAB Dr. Saad Dr. Greg Hall Dr. Jim Connolly Dr. Mohammed Al Shamsi

					Dr. Nisreen Maghraby Dr. Badar Al Hamrashdi Dr. Rashid Al Araimi
11:10 – 11:40 (30 min)	Lecture 4: Echocardiography & IVC	<ul style="list-style-type: none"> ▪ Describe the indications and limitations of basic emergency echocardiography ▪ Define the relevant cardiac anatomy including cardiac chambers, valves, pericardium, and aorta ▪ Understand the standard ultrasound windows (subcostal, parasternal, and apical) and planes (four chamber, long and short axis) necessary to perform basic echocardiography. ▪ Recognize the relevant focused findings to detect cardiac activity and pericardial effusions with or without tamponade ▪ Estimate qualitative left ventricular function ▪ Evaluate for signs of right ventricular strain 	Lecture Followed By Discussion		Dr. Greg Hall MD, CCFP
11:40 – 12:45 (65 min)	Hands on: Echo & IVC Assessment	<ul style="list-style-type: none"> ▪ Review of normal and abnormal views ▪ Acquire and Interpret ultrasound images ▪ Describe key pathologies ▪ Evaluate inferior vena cava ▪ Understand how ultrasound can allow the examiner to estimate left ventricular function and IVC compliance to guide resuscitation in patients with cardiopulmonary instability) 	Workshop Didactics and Hands-on Sessions in groups of 3-4 candidates per station		All Faculty Dr. AFTAB Dr. Saad Dr. Greg Hall Dr. Jim Connolly Dr. Mohammed Al Shamsi Dr. Nisreen Maghraby Dr. Badar Al Hamrashdi Dr. Rashid Al Araimi
1245 – 1345 Lunch & Prayer					

13:45 – 14:00 (30 min)	Lecture 6: DVT Assessment	<ul style="list-style-type: none"> Describe the indications and limitations of focused 2-zone compression ultrasound for the detection of deep venous thrombosis 	Lecture Followed By Discussion	Dr. James Connolly MBBS, FRCS (ED), FRCS (GLAS), FCEMCFEU
14:00 – 14:15 (15 min)	Hands on: DVT Assessment	<ul style="list-style-type: none"> Understand the standard ultrasound protocol when performing a focused exam for the detection of deep venous thrombosis of the lower extremities Vessel identification Graded compression Direct visualization of clot Define the relevant local anatomy associated with ultrasonic detection of deep venous thrombosis in the lower extremities Recognize the relevant focused findings and pitfalls when evaluating for dvt 	Workshop Didactics and Hands-on Sessions in groups of 3-4 candidates per station	All Faculty Dr. AFTAB Dr. Saad Dr. Greg Hall Dr. Jim Connolly Dr. Mohammed Al Shamsi Dr. Nisreen Maghraby Dr. Badar Al Hamrashdi Dr. Rashid Al Araimi
14:15 – 14:45 (30 min)	Lecture 6: Ocular POCUS	<ul style="list-style-type: none"> To measure Optic Nerve Sheath Diameter (ONSD) on POCUS 	Lecture Followed By Discussion	Dr. Nisreen Maghrabi MBBS, FRCPC (EM), ABEM, M MEM/Trauma & Disaster Management Consultant
14:45 – 15:15 (30 min)	Hands on: Ocular POCUS	<ul style="list-style-type: none"> Acquire and Interpret ultrasound images Describe key pathologies 	Workshop Didactics and Hands-on Sessions in groups of 3-4 candidates per station	All Faculty Dr. AFTAB Dr. Saad Dr. Greg Hall Dr. Jim Connolly Dr. Mohammed Al Shamsi Dr. Nisreen Maghraby Dr. Badar Al Hamrashdi Dr. Rashid Al Araimi

15:15-16:00 (45 min)	Scanning Session	<ul style="list-style-type: none"> Can operate the key machine controls Transducer changing Image manipulation and storage 	Workshop - Didactics and Hands-on Sessions in groups of 3-4 candidates per station.	All Faculty Dr. AFTAB Dr. Saad Dr. Greg Hall Dr. Jim Connolly Dr. Mohammed Al Shamsi Dr. Nisreen Maghraby Dr. Badar Al Hamrashdi Dr. Rashid Al Araiimi
16:00 – 16:15 (15 min)	Lecture 7: Training Safely, Credentialing, QA	<ul style="list-style-type: none"> To highlight the credentials & safety issues in ultrasound point of care in ER 	Lecture Followed By Discussion	Dr Aftab Mohammad Azad MD, ArBEM, ABEM I, FRCPC
16:15 – 16:30 (15 min)	Certificates and Feedback			
	All Faculty			
16:30	End of the day			

All the faculty members have taught multiple courses various times at different institutions at international level.

Course Faculty

Chair Scientific Committee:

Dr Aftab Mohammad Azad

MD, ArBEM, ABEM I, FRCPC

Graduate Harvard Medical School Division of EM Ultrasound

Regional Director Middle East – Canadian Point of Ultrasound Society

Director EM Point of Care Ultrasound - HMC

Course Director:

Dr. Saad Al Juma

MD ArBEM FRCPC

Course Coordinator:

Ms. Tahira Al Zadjali

RN, MSN ‘Advanced Practice’

Post Graduate ‘Critical Care’, BSN

Faculty Members:

Dr. Greg Hall

Dr. Badar Al Hamrashdi

Dr. Jim Connolly

Dr. Rashid Al Araiimi

Dr. Mohammed Al Shamsi

Dr. Nisreen Maghraby