

Pleural Diseases: A Thoracic Ultrasound and Pleural Procedure Workshop
Saturday 13th August and Sunday 14th August

Time	Topic & Learning Outcomes	Presenter & Designation	Venue
0815-0830	Registration		
0830-1000	Topic: Introduction to ultrasound (20 minute talks) <ul style="list-style-type: none"> - Introduction and learning objectives (SM) - Clinical Utility of ultrasound for physicians (PC) - Basic principles and physics of ultrasound (AA) - 'Knobology' and patient positioning (EK) <ul style="list-style-type: none"> o Normal US anatomy and artefacts on ultrasound - Pleural Anatomy & physiology (KR) 	Katharine See (Intro) Sanjeevan Muruganandan Peter Cheng Ali Amniazad Eric Kuo Kanisha R	LTH
1000-1030	Morning Tea		
1030-1200	Topic: Basic thoracic ultrasound demonstration <ul style="list-style-type: none"> - Whole group demonstration (1030-1040) <ul style="list-style-type: none"> o Framework for ultrasound assessment and documentation - Practical experience (20 mins a station) - 4 stations of 4-5 groups (normal ultrasound) <ul style="list-style-type: none"> o Station 1: Knobology and position o Station 2: Normal Ultrasound o Station 3: Lung ultrasound o Station 4: Diaphragm Ultrasound 	Sanjeevan Muruganandan (rotating) 5 x faculty (Ali, Kai, Peter, David, Eric)	LTH
1200-1300	Lunch		
1300-1340	Topic: Pleural Imaging (20 minute talks) <ul style="list-style-type: none"> - Pleural imaging (TK) - Ultrasound guided procedures/ Real time ultrasound guided procedures (DF) 	Terry Kok (virtual) David Feng	LTH
1340-1540	Topic: Ultrasound guided procedures <ul style="list-style-type: none"> - Practical experience (4 stations) 30 mins a station <ul style="list-style-type: none"> o Station 1: Ultrasound guidance - Pleural biopsy and tru cut o Station 2: Ultrasound guidance diagnostic taps o Station 3: Identifying intercostal vessels o Station 4: Lung/pleural pathology on ultrasound (KC) 	David Feng Sanjeevan/ Peter/ Ali/ Eric/ Kanishka	LTH

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1540-1600	Afternoon Tea		
1600-1630	<p>Topic: UG Stat and Discussion stations</p> <ul style="list-style-type: none"> - UG Stat assessment <li style="text-align: center;">OR - Supervised play time: Diaphragm assessment, basic echocardiogram, lung assessment, ascites & u/s, identifying vessels, local anaesthetic administration 	Sanjeevan Muruganandan Eric Kuo Ali Amniazad Peter Cheng David Feng Kanishka R	LTH
1630-1700	<p>Topic: Summary, Questions and Close</p>	Sanjeevan Muruganandan	LTH

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0815-0830	Registration		
0830-0950	Topic: Pleural procedures (20 minute talks) <ul style="list-style-type: none"> - Diagnostic algorithm for unilateral effusions - Procedures explained; when to drain and with what - Pleural fluid testing - Management of procedural complications 	David Feng Jaszmin Eckhaus Kai C Bibhusal Thapa	LTH
1000-1030	Morning Tea		
1030-1230 (30 min stations)	Topic: Practical Rotating Stations <ul style="list-style-type: none"> o Station 1: Seldinger technique o Station 2: IPC placement o Station 3: Chest drainage system care (including digital devices) o Station 4: Blunt dissection - 	David Feng/Eric Kuo Jazmin Eckhaus Kirstin Tirant Bibhusal Thapa	Simulation Centre
1230-1330	Lunch		
1330-1430	Topic: State of the art on pleural diseases (20 minute talks) <ul style="list-style-type: none"> - State of the art malignant pleural disease - State of the art pleural infection - State of the art pneumothorax 	Sanjeevan Muruganandan Eric Kuo Kanishka R	LTH
1430-1500	Summary, Questions, Evaluation and close		