

**15th WORLD INTERACTIVE
NETWORK FOCUSED ON CRITICAL
ULTRASOUND (WINFOCUS)**

**WORLD CONGRESS ON ULTRASOUND IN
EMERGENCY & CRITICAL CARE**

February 21 - 24, 2019 | Dubai, United Arab Emirates
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Pre Congress Course Lung Ultrasound Course - Basic Level

Course Director: Prof. Ramon Nogue, Spain
Course Co-director: Dr. Vicki Noble, USA

Day 1: 21st February 2019 | Thursday

08:00 - 08:30	Introduction of the course and preliminary clinical cases	Ramon Nogue
08:30 - 09:15	Physics and knobology	Tomas Villen
09:15 - 10:30	How to examine the chest ? : Main US artifacts, Chest areas, positioning the probe, anatomic landmarks	Vicki Noble

10:30 - 10:45 Coffee Break

10:45 - 11:30	Lung scanning in pneumothorax: Sonographic signs, Radio-occult pneumothorax, technique in stable and unstable patients	Cai-Bao Hu
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11:30 - 12:30	Hands On Practice on models	All Faculty
	Knobology US lung identification, areas, bat sign, lung sliding US lung exploration with different probes Diaphragm excursion and m-mode	

12:30 - 13:30 Lunch Break

13:30 - 14:15	Interstitial syndrome. Definition, Methodology, Diagnostic criteria, Focal and diffuse interstitial syndrome and differential diagnosis	Peiman Nazerian
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14:15 - 15:00	Consolidations: Pneumonia and atelectasis	Farina Salleh
15:00 - 15:30	Pleural effusion: size, type, complexity. How to perform safe thoracocentesis?	Luciano Cardinale

15:30 - 15:45 Coffee Break

15:45 - 16:15	US assessment of pleuritic pain	Ricardo Campo
16:15 - 16:45	US in airway and check endotracheal tube placement	Cecilia Acosta

16:45 - 17:45	Hands On Practice on models	All Faculty
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	Interactive presentation: basic clinical cases Lung pulse. Lung point Sonographic differences between the lung areas US air way and esophagus (long – trans)	
17:45 - 18:00	Final questions. Conclusions of the day	Vicky Noble & Ramon Nogué

Day 2: 22nd February 2019 | Friday

08:00 - 08:45	The practical application of Lung US / Blue protocol	Carl Hallgren
08:45 - 10:15	Interactive cases of synthesis. Discussion all together	Carl Hallgren, Vicky Noble, Ramon Nogue
10:15 - 10:30	Final questions. Conclusions of the course	Vicky Noble & Ramon Nogué

End of the Course



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