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ECHOW1
Workshop

Saturday, 1 June
08:00 - 12:00

Basic ultrasound in anaesthesia and critical care

**IMPORTANT NOTICE: access is limited to pre-registered delegates



Learning objectives

Prior to the course, participants will be offered appropriate e-learning modules to prepare for and obtain maximum benefit from the hands-on teaching sessions.

During the course, groups of 5 participants will follow a single track consisting of 4 successive ultrasound workstations, that cover the following learning objectives:

Workstation 1. Transthoracic echocardiography: To reliably produce standard images of the heart in volunteers and to understand the underlying anatomy.

Workstation 2. Transesophageal echocardiography (simulator): To reliably produce standard images of the heart in a dedicated simulator and to understand the underlying anatomy.

Workstation 3. Vascular access: To utilise ultrasound guidance for cannulation of the subclavian vein (CVCs), the upper brachial veins (midline catheters) and peripheral veins by means of out-of-plane methods and in-plane ultrasound methods (dynamic needle tip tracking). Use Ultrasound to rule-out/diagnose Deep Venous Thrombosis.

Workstation 4. Lung ultrasound: To understand the basic principles of lung ultrasound and identify pathologies including pneumothorax, pleural effusion, interstitial syndrome and consolidated lung/pneumonia/atelectasis.

The specific sequence of ultrasound stations will vary among groups as they rotate from one station to another. Workstations 1, 3 and 4 will use human models, whereas workstation 2 will use an advanced echo simulator.

Target audience: Physicians in anaesthesia or critical care who are interested in learning basic ultrasound use or those who started using ultrasound but would benefit from hands-on practice, guided and supervised by experts in the field.

Chairs:

Patrick Wouters (Gent, Belgium)

Peter Juhl-Olsen (Aarhus, Denmark)

Introduction

Workstation 1 - Transthoracic echocardiography

Workstation 2 - Transesophageal echocardiography (simulator)

Coffee break

Workstation 3 - Vascular access

Workstation 4 - Lung ultrasound

Evaluation and final words

Instructors:

Stefan Weber (Köln, Germany)

Stefaan Bouchez (Gent, Belgium)

Aarne Feldheiser (Berlin, Germany)

Henry Skinner (Nottingham, United Kingdom)

Fabio Guarracino (Pisa, Italy)

Nick Fletcher (London, United Kingdom)

Raoul Breikreutz (Frankfurt, Germany)

Sascha Treskatsch (Berlin, Germany)

Dominique A. Bettex (Zürich, Switzerland)

Johan Bence (Leicester, United Kingdom)

Patrick Wouters (Gent, Belgium)

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