Ultrasound in Anesthesia, Critical Care and Emergency Medicine

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Echocardiography Windows

Standard or Transthoracic Echo

Transesophageal Echo or TEE

Intraoperative Echocardiography

Cardiac Surgery

Neuro / Orthopedic (embolism)

Liver – Lung Tx…
Recommendations USA & Europe (B2 evid):

**ECHOCARDIOGRAPHY SHOULD BE USED FOR ALL OPEN HEART PROCEDURES IN ADULTS**

Major complications: 0.2%
Mortality: 0.01-0.02%

J Am Soc Echocardiogr 2010;23:1115-27

Anesthesiology 1995; 82:581-3
IMEG : Initiation Module for Echocardiography Ghent
Echocardiography

+ Lung Ultrasound
+ US Guided Vascular Access
+ Abdominal US – Trauma
+ Peripheral Nerve Block
Pre-Congress Course on ultrasound use in anaesthesia and critical care - part 1

Chair: Patrick Wouters (Ghent, Belgium)

Introduction to using echo machines: Basics of ultrasound and Doppler
Machine settings, probe handling; Artifacts, pitfalls, safety issues
Patrick Wouters (Ghent, Belgium)
Joost Van Der Meer (Groningen, Netherlands)
Dominique Bettes (Zürich, Switzerland)

Echocardiography (TOE and TTE): Standard cardiac imaging planes, cardiac anatomy and function; Haemodynamic monitoring
Eric Sloth (Århus, Denmark)
Berthold Bein (Kiel, Germany)
Stefan Bouchier (Ghent, Belgium)

Hands-on teaching: Machine settings Basic cardiac Imaging Haemodynamics
Berthold Bein (Kiel, Germany)
Dominique Bettes (Zürich, Switzerland)
Stefan Bouchier (Ghent, Belgium)
Nick Fletcher (London, United Kingdom)
Fabio Guaraccino (Pisa, Italy)
Manuel Munoz (Madrid, Spain)
Eric Sloth (Århus, Denmark)
Joost Van Der Meer (Groningen, Netherlands)
Patrick Wouters (Ghent, Belgium)
Ultrasound for all Physicians!

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