

Contact us at: www.infomedltd.co.uk

Email: courses@infomedltd.co.uk

Phone: +44(0)20 81230021

Barts and The London



NHS Trust

Course towards Level 1 College of Emergency Medicine Accreditation in USS

Level 1 Accreditation and Beyond

14th London Emergency, Acute and Intensive Care Medicine Ultrasound Course

A practical course on the use of Ultrasound in the assessment of critically ill patients designed for Acute Physicians, Anaesthetists, Intensivists and Emergency Physicians

organised in partnership with Infomed Research & Training,

on **Monday 6 and Tuesday 7 February 2012**,

at the Woburn House Conference Centre, 20 Tavistock Square, London WC1H 9HQ

Programme Director:

Dr Tim Harris BM BS BMedSci Dip O&G Dip Imme Care FACEM FFAEM
Consultant Emergency Physician, Royal London Hospital

The Regular Faculty includes:

- **Dr Bill Coode**, Consultant in Emergency Medicine, Newham General Hospital, London
- **Dr Syed Masud**, Consultant in Emergency Medicine, Barts and The London NHS Trust
- **Dr Susan Rowe**, Consultant Radiologist, Homerton University Hospital, London
- **Dr Alistair Billington**, Consultant in Intensive Care and Emergency Medicine
- **Dr Ben Teasdale**, Consultant in Emergency Medicine, University Hospitals of Leicester
- **Dr Juan Ballesteros**, Consultant in Emergency Medicine, Doncaster Royal Infirmary
- **Dr Stephen Burke**, Consultant Radiologist, Homerton University Hospital, London
- **Ms Jude Driver**, Clinical Ultrasound Manager, Homerton University Hospital, London

Course Objectives:

- ☑ Become competent in the basic skills required to achieve **Level 1 accreditation** in USS
 - ☑ Learn how to set up the machines and **USS knobology**
 - ☑ Become familiar with the **physics of Ultrasound** and the **training and certification requirements** in USS for EM
 - ☑ Look into costs, choices and developing a **USS business case**
 - ☑ Learn and *practice* **USS techniques**:
 - **AAA**
 - **Peri-Arrest Scenarios**
 - **FAST and Pneumothorax**
 - **Vascular Access**
 - Pleural and pericardial fluid
 - ☑ Practice **beyond Level 1**:
 - **Gall Bladder and Renal USS**
 - **Soft Tissue USS** and **DVT**
 - **Thoracic USS**

Course equipment and technical support is kindly provided by:



PHILIPS

Caiyside Imaging



Course endorsed by
BRITISH
MEDICAL
ULTRASOUND
SOCIETY

BMUS



About the Course

The Course:

- gives you an Introduction to Emergency USS based on *CEM Curriculum – Emergency Medicine Ultrasound* (EMUS)
- takes you **beyond** Level 1
- is suitable for Consultants, Middle Grades, Registrars and SHOs
- includes interactive, focused **lectures**, with extensive use of real-life screenshots and video clips
- features immediate post-lecture **Practical Sessions** with live demos with models and patients (condition allowing)
- offers an opportunity for delegates to practice on a variety of widely used and state-of-the-art machines

For revision prior to the course: Further to your subscription, on 12 October 2010 we will email you a password that will give you access to the reading material, including copies of the slides, this will be available on our website www.infomedltd.co.uk

DAY 1: Monday 6 February 2012

08.30 – 09.30 **Registration, welcome and introduction**

Introductory Lectures

09.30 – 10.00

Ultrasound in Emergency Medicine

Prof Tim Harris,

Consultant in Emergency Medicine, Barts and The London NHS Trust

Topics to be covered:

- What is level 1 training?
- What is the CEM position on USS?
- Governance and training
- Image storage

10.00 – 10.45

The Physics of Ultrasound

Dr Graeme Taylor,

Deputy Head of Medical Physics and Honorary Senior Lecturer, Guy's and St Thomas' NHS Foundation Trust

Topics to be covered:

- Frequencies used in medical Ultrasound
- Interaction with soft tissue including biological effects
- Basic principles of A, B, M real time and Duplex scanning
- Basic principles of pulsed, continuous wave and colour Doppler ultrasound

10.45 – 11.05 **Tea and coffee break**

Machines and Techniques

11.05 – 12.30

PRACTICAL SESSION A

How to Set Up Machines, Knobology and USS Techniques

Dr Stephen Burke,

Consultant Radiologist, Homerton University Hospital, London

Topics to be covered:

- Turning on and setting up USS machines
- Machine components
- Obtaining basic images, then maximising image quality
- Depth, focus, TGC

12.30 – 12.50

Ultrasound Machines: Costs, Choices and Developing a Business Case

Dr Ben Teasdale,

Consultant in Emergency Medicine, University Hospitals of Leicester

Topics to be covered:

- What it costs to buy a machine
- What to look for in a machine
- Storage
- Maintenance
- On-going costs

12.50 – 13.30 **Lunch**

Attendees can practise on the USS

13.30 – 15.15

PRACTICAL SESSION B

FAST and Pneumothorax

Dr Ben Teasdale,

Consultant in Emergency Medicine, University Hospitals of Leicester

Topics to be covered:

- What is a FAST scan and what is its place in trauma management?
- How to spot pericardial and intra-abdominal free fluid
- How to spot (heamo) pneumothorax?



15.15 – 15.35 **Tea and coffee break**

15.35 – 17.00

PRACTICAL SESSION C

AAA

Dr Stephen Burke,

Consultant Radiologist, Homerton University Hospital, London

Topics to be covered:

- Identifying AAA
- Is there any evidence of rupture?
- USS or CT?

17.00 – 17.10

Summary

17.10

Close

DAY 2: Tuesday 7 February 2012

08.30 – 09.00

Registration

09.00 – 10.50

PRACTICAL SESSION D

Peri-Arrest Scenarios

Dr Ben Teasdale,

Consultant in Emergency Medicine, University Hospitals of Leicester

Topics to be covered:

- This patient is peri-arrest – why?
- Rapidly excluding life-threatening pathology
- What the four chamber Echo can tell you
- Can Ultrasound assess circulating volume?

10.50 – 11.10

Tea and coffee break

11.10 – 12.30

PRACTICAL SESSION E: BEYOND LEVEL 1

Liver, Gall Bladder and Renal USS

Dr Stephen Burke,

Consultant Radiologist, Homerton University Hospital, London

Topics to be covered:

- Identifying gall stones from artefacts
- Finding the CBD
- Defining hydronephrosis and renal calculi

12.30 – 13.00

Vascular Access

Dr Bill Coode,

Consultant in Emergency Medicine, Newham General Hospital, London

Topics to be covered:

- Evidence-based practice for CVC placement
- Practical tips and tricks
- Access in difficult patients

13.00 – 13.45

Lunch

13.45 – 14.45

PRACTICAL SESSION F

Vascular Access

Topics to be covered:

- Evidence-based practice for CVC placement
- Practical tips and tricks
- Access in difficult patients

14.45 – 15.00

Tea and coffee break

15.00 – 16.30

PRACTICAL SESSION G: BEYOND LEVEL 1

Soft Tissue USS and DVT

Dr Bill Coode,

Consultant in Emergency Medicine, Newham General Hospital, London

Topics to be covered:

- Identifying FBs
- Haematoma or abscess
- Is there a DVT?

16.30 – 17.15

ILLUSTRATED LECTURE

BEYOND LEVEL 1

Thoracic USS

Prof Tim Harris

Consultant in Emergency Medicine, Royal London Hospital

Topics to be covered:

- Pneumothorax
- Pleural effusion
- Draining pleural effusion

17.15 – 17.30

Close and collection of Attendance Certificates