

Course towards Level 1 College of Emergency Medicine Accreditation in USS

## Level 1 Accreditation and Beyond

# The 11th London Emergency 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 **Wednesday 16 and Thursday 17 February 2011**, at Russell Square Conference Centre,  
10-12 Russell Square, London WC1B 5EH

### Programme Director:

**Dr Tim Harris** BMBS 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 Daniel Strong**, Consultant in Intensive Care and Emergency Medicine, University Hospitals Coventry & Warwickshire
- **Dr Susan Rowe**, Consultant Radiologist, Homerton University Hospital, London
- **Dr Alistair Billington**, Consultant in Intensive Care and Emergency Medicine, University Hospital Birmingham
- **Dr Ben Teasdale**, Consultant, Homerton University Hospital, London
- **Dr Nicola Drake**, Consultant in Emergency Medicine, St Thomas' Hospital, London
- **Dr Juan Ballesteros**, Consultant in Emergency Medicine, Doncaster Royal Infirmary
- **Ms Leisha de Cruz**, Ultrasonographer, Royal London Hospital
- **Mr Mark Russell**, Clinical Lead Sonographer, Radiology Department
- **Ms Jude Driver**, Clinical Ultrasound Manager, Homerton University Hospital, London

Course equipment and technical support was kindly provided by:



### 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**



## 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](http://www.infomedltd.co.uk)

## DAY 1: Wednesday 16 February 2011

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

## Introductory Lectures

09.30 – 10.00

### Ultrasound in Emergency Medicine

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

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

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

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

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

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: Thursday 17 February 2011

08.30 – 09.00 **Registration**

09.00 – 10.50

### **PRACTICAL SESSION D**

## **Peri-Arrest Scenarios**

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**

## **Liver, Gall Bladder and Renal USS**

Topics to be covered:

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

12.30 – 13.15 **Lunch**

## **Practice Beyond Level 1**

These sessions look at topics that take you beyond Level 1

13.15 – 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**

## **Soft Tissue USS and DVT**

Topics to be covered:

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

16.30 – 17.15

### **ILLUSTRATED LECTURE**

## **Thoracic USS**

Topics to be covered:

- Pneumothorax
- Pleural effusion
- Draining pleural effusion

17.15 – 17.30 **Close** and collection  
of Attendance Certificates

## **The Faculty**

**Dr Tim Harris** trained in Emergency Medicine, Intensive Care and Pre-hospital Care in Australia and the UK. He is currently working at The Royal London Hospital Emergency Department and London HEMS. He is The EM ultrasound lead for NE Thames and completed a post graduate Diploma in USS in 2008. He is lead for research at RLH and for the London School of Emergency Medicine. His research interests are in Critical care ultrasound, emergency airway care and resuscitation. His Main project this year is assessing the utility of USS determined IVC Size as a measure of intravascular volume.

**Dr Alistair Billington**, Consultant in Intensive Care and Emergency Medicine, University Hospital Birmingham

**Dr Romila Bahl**, Consultant in Emergency Medicine, University College Hospital, London

**Dr Paul Atkinson**, Consultant in Emergency Medicine, Addenbrooke's Hospital, Cambridge

**Dr Susan Rowe**, Consultant radiologist, interest in musculoskeletal radiology, Homerton University Hospital, London

**Dr Ben Teasdale**, Consultant in Emergency Medicine, Homerton University Hospital, London

**Dr Harith Al-Rawi**, Consultant in Adult and Paediatric Emergency Medicine, St Thomas' Hospital, London

**Ms Leisha de Cruz**, Lead (Obstetrics/Gynaecology/ Abdominal) Sonographer, Barts and the London NHS Trust.

**Dr Nicola Drake**, Consultant in Emergency Medicine, St Thomas' Hospital, London

**Dr Juan Ballesteros**, Consultant in Emergency Medicine, Doncaster Royal Infirmary

**Ms Jude Driver**, Clinical Ultrasound Manager, Homerton University Hospital, London

**Dr Syed Masud**, Consultant in Emergency Medicine, Barts and The London NHS Trust

**Mr Mark Russell**, Clinical Lead Sonographer, Homerton University Hospital, London

## Booking

Course towards Level 1  
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## How To Register

Complete delegate and payment details, below, and fax to 020 8290 6917 or post to:

Infomed Research & Training Limited,  
PO Box 1028,  
Bromley  
BR1 9JP

Alternatively, **BOOK ONLINE** at [www.infomedltd.co.uk](http://www.infomedltd.co.uk).  
Confirmation, venue location map and receipt will be sent to you by email.

General queries: tel. 0208 123 0021, fax 0208 290 6917,  
e-mail [conferences@infomedltd.co.uk](mailto:conferences@infomedltd.co.uk)

For copy of this programme: [www.infomedltd.co.uk](http://www.infomedltd.co.uk)  
For information on accommodation: [www.infomedltd.co.uk](http://www.infomedltd.co.uk)

## DELEGATE DETAILS

Title ..... First Name .....

Surname .....

Job Title .....

Hospital .....

Address for correspondence  Home  Hospital

.....

.....

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.....

Post Code ..... Country .....

Tel .....

Email .....

Please inform Infomed if you have any special needs

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## COURSE FEE

**£475** (inc VAT @ 17.5%) **for the two days.**

Doctors from Barts & The London NHS Trust – call Infomed for information on discounts.

Course fee includes USS logbook, course folder, information about Level 1 requirements, lunch and refreshments and online access to course reading material.

Course fee does not include accommodation.

## PAYMENT DETAILS

Please charge my credit/debit card with the sum of £ .....

Mastercard  Visa  Maestro Issue No

Card holder name: .....

Card Number

/     /     /

Valid From   /   Expiry Date   /

CVV Number

(i.e. the last 3 digits on central signature strip on reverse side of the card)

Please find enclosed a cheque for the amount of £ .....  
made payable to Infomed Research & Training Ltd

By **BACS**: HSBC, London Bridge Branch,  
28 Borough High Street, London SE1 1YB,  
Sort code: 40-06-21 Account: 81585045

## TERMS AND CONDITIONS

1) The subscription fee includes password protected web access to faculty presentations, lunch and refreshments. 2) The completed booking form together with full payment must be sent to Infomed Research and Training Limited to secure a booking. Submission of this booking constitutes a legally binding agreement. 3) Payment must be received in full prior to the event. Course details will be issued subject to receipt of payment. We cannot be held responsible for the non-arrival of registration information. If you have not heard from us within 7 days prior to the Course, please contact us. 4) Bookings can be made by telephone but payment must be made in full by credit card at time of booking. 5) Written cancellations received 6 weeks prior to the Course will be accepted and refunded minus an administration charge of £70. We regret that no refunds can be made for cancellations received after that date, for whatever reason, although substitutions will be accepted if notified in writing 5 days or more prior to the event. 6) The Company reserves the right to alter the date, content and timing of the programme or the identity of the speakers due to reasons beyond its control. Under these circumstances, The Company will not refund delegates any expenditure made on pre-booked accommodation or travelling. 7) The Company does not accept responsibility for loss/damage delegates' property/personal effects whilst at the Course.

**Infomed Research and Training Limited.**

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