

# Towards Level 1 3rd London Thoracic Ultrasound Course

An **intensive** and **practical one day course**  
organised by Infomed Research & Training, on **Tuesday 22 March 2011**,  
at the Russell Square Conference Centre, 10-12 Russell Square, **London WC1B 5EH**

## Course Advisors

**Dr Luke Howard**, Consultant Chest Physician,  
Hammersmith Hospital, London, and  
Hon Senior Lecturer, National Heart and  
Lung Institute, Imperial College London

**Dr Fraser Ingham**, Consultant Radiologist,  
Barnet and Chase Farm Hospitals NHS Trust

## The Course Faculty

**A Faculty of leading practitioners in Thoracic US,  
who are experienced in providing skills and  
practical US knowledge to all medical specialities**

- **Mr Ian Hunt**, Consultant Thoracic Surgeon,  
St George's Hospital London
- **Dr Otto Chan**, Consultant Radiologist,  
London Independent Hospital, BMI
- **Dr Pasupathy Sivasothy**,  
Consultant Respiratory Physician,  
Addenbrooke's Hospital, Cambridge
- **Dr Ian Renfrew**, Consultant Radiologist,  
Royal London Hospital
- **Dr Stephen Burke**, Consultant Radiologist,  
Homerton University Hospital
- **Dr Nooshin Barmania**, SpR in Respiratory Medicine,  
Basildon University Hospital, Essex

**PLUS other Chest Physicians and Interventional  
Radiologists leading the Skills Stations**

## Target Audience

- Chest Physicians
- Respiratory Physicians
- Radiologists
- Anaesthetists and Intensivists
- Acute Medicine Physicians
- Emergency Medicine Physicians

## Course Objectives

- ◆ Gain the initial knowledge base and competencies that will allow you to move towards Level 1 Competency in Thoracic Ultrasound as proposed by Royal College of Radiology
  - ◆ Gain an understanding of the principles of thoracic ultrasound (and safe practice), the knobology and effective operation of the US machine
    - ◆ Get the basic knowledge and techniques, through lectures and practical work at the Stations, that will enable you to use US in order to recognise:
      - normal anatomy of pleura and diaphragm, heart, liver and spleen
      - pleural effusion, pleural thickening, consolidated lung, etc.
- ◆ Get the skills set that will enable you to start practicing: estimation of depth of effusion and its measurement, guided thoracocentesis and drain placement

## About the Course

- Interactive, focused lectures, with extensive use of real-life screenshots and video clips
- Practical Sessions with live demos with models
- Skills Stations facilitated by the Faculty and supported by Senior Radiology Registrars
- Delegates will be able to perform scans, under expert supervision, using a variety of widely used US machines
- Access to a web-link, with copies of the lecture slides, will be available in advance
  - Numbers of delegates will be limited



Approved by the  
Royal College of Physicians  
for 6 CPD Points (code=59391)

COURSE EQUIPMENT AND TECHNICAL SUPPORT  
IS KINDLY PROVIDED BY



## PROGRAMME

08.30 – 09.15 **Registration**

09.15 – 09.30 **Welcome and Introduction by chair**

09.30 – 10.00

### **Lecture 1: The Relevant Anatomy**

Topics to be covered (with a model for demonstration)

- BTS Guidelines – what you need to know
- Diaphragm
- Pleura
- Heart
- Liver and spleen
- Rib and intercostals spaces

10.00 – 10.30

### **Lecture 2: USS – Why and When**

Topics to be covered

- Basic components of USS machine, types of transducer and production of ultrasound
- Image quality and penetration – interaction with tissue
- RCR training guidelines

10.30 – 10.45

### **Lecture 3: Setting Up the Machine, Knobology and Scanning Techniques**

Topics to be covered (with a model for demonstration)

- Turning on and setting up USS machines
- Knobology and use of ultrasound controls
- Obtaining basic images, then maximising image quality
- Depth, focus, TGC
- The boundaries and pitfalls in USS

10.45 – 11.00 **Tea and Coffee Break**

11.00 – 12.30

### **PRACTICAL SESSION A**

## **Sectional and USS Anatomy**

Scanning, focusing on normal anatomy (with practice on models):

- Setting up the machine and knobology
- Scanning techniques
- Identifying pleura and diaphragm
- Identifying heart, liver and spleen
- Rib and intercostals spaces

12.30 – 13.15

### **Lecture 4: Imaging of the Pathologies**

Topics to be covered

(based on cases including images and video clips):

- Pleural: effusion; thickening; malignancy
- Loculated pleural effusion
- Consolidated lung or effusion?
- Haemothorax
- Empyema
- Paralysed hemidiaphragms
- Pericardial effusion
- Bullous disease
- Dealing with the pitfalls

13.15 – 13.45

### **Lunch**

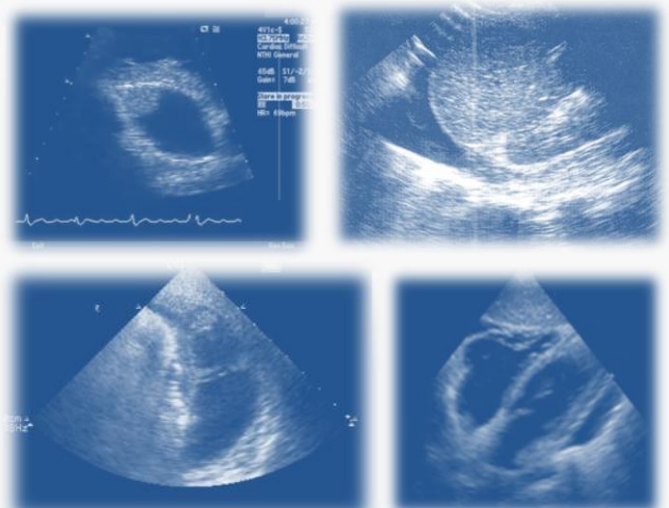
*Delegates can practise USS*

13.45 – 15.00

### **PRACTICAL SESSION B**

## **Pathology Recognition**

Videos, plus practice on models and, subject to availability, patients, focusing on some of the pathologies covered in lecture 4.



15.00 – 15.30

## Lecture 5: US Interventions – Case Scenarios

Topics to be covered (including images and video clips)

- Line/drain placement
- Aspiration
- Drainage
- Biopsy clips
- CT versus US

15.30 – 15.45 **Tea and Coffee Break**

15.45 – 17.00

### **PRACTICAL SESSION C** **Interventions**

Introductory live demo with close up of probe handling/needling and US image on dual screen, followed by Skills Stations including video clips and practice on phantoms. Interventions for:

- Pleural effusion and thickening
- Consolidated lung (or effusion) and fibrinolysis management
- Haemothorax, paralysed hemidiaphragm, pericardial effusion
- US guided line/drain placement



17.00 – 17.30 **Panel Discussion on Case Scenarios**

17.30 **Close**  
and Collection of Certificates of Attendance



## The Thoracic US Course Faculty

**Mr Ian Hunt** is a Consultant Thoracic Surgeon at St George's Hospital, London.

**Dr Pasupathy Sivasothy** is a Consultant Respiratory Physician at Addenbrooke's Hospital, Cambridge. He has extensive experience in interventional bronchoscopy, particularly in the setting of lung transplantation. He has recently set up a medical thoracoscopy service in Addenbrooke's.

**Dr Ian Renfrew** is a Consultant Radiologist at the Royal London Hospital, London Chest Hospital and an Honorary Consultant in Interventional Radiology at Great Ormond Street Hospital. His interests include interventional radiology, CT and ultrasound.

**Dr Naj Rahman** is an SpR and Medical Research Council Training Fellow at the Oxford Centre for Respiratory Medicine. He has been training in medical thoracoscopy for the last three years and has undertaken training in thoracic ultrasound under the care of Dr F Gleeson. He is currently conducting two randomised trials in pleural disease.

**Dr Matthew Matson** is a Consultant Radiologist at St Bartholomew's and the Royal London. His areas of expertise include interventional procedures, CT and ultrasound. His research interests include vascular and neuroradiology. He is the overall Lead Consultant Radiologists at the Royal London Hospital.

**Dr Nooshin Barmania** is an SpR in Respiratory Medicine at Basildon University Hospital, Essex.

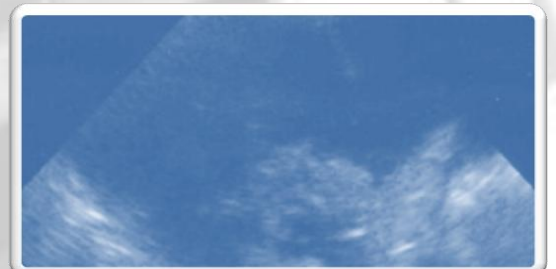
**Dr Nicola Jones** is an SpR in Cardiology at Royal Brompton Hospital, London.

**Dr Sukanya Ghosh** is a Consultant Radiologist, Maidstone and Tunbridge Wells NHS Trust. Her interests include thoracic ultrasound and gastro intestinal and urology ultrasound.

**Dr Jennifer Williams** is an SpR in Radiology at Royal Free Hospital, London.

**Dr Stephen Burke** is a Consultant Radiologist at Homerton University Hospital, London, with a special interest in chest radiology, musculoskeletal radiology and sports injuries.

**Dr Sandeep Pathak** is a Consultant in Radiology at Whipps Cross University Hospital



## BOOKING FORM

# Towards Level 1 3rd London Thoracic Ultrasound Course

on Tuesday 22 March 2011,  
at the Russell Square Conference Centre,  
10-12 Russell Square, London WC1B 5EH

## COURSE FEE

**NHS: £295 (inc. VAT)**

**Private Sector: £400 (inc. VAT)**

Course fee includes web access to the lecture slides,  
lunch and refreshments and attendance certificate.

## How To Book

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

You can also **BOOK ONLINE** at: [www.infomedltd.co.uk](http://www.infomedltd.co.uk)

Confirmation, venue map and receipt will follow by email.

General queries: tel. 020 8123 0021,  
fax 020 8290 6917,  
e-mail [conferences@infomedltd.co.uk](mailto:conferences@infomedltd.co.uk)

For a 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 .....

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**Email \*** .....

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Special needs and special dietary requirements

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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.

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