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Towards Level 1 7th London Thoracic Ultrasound Course

An **intensive** and **practical well established one day course** running now for two years,
organised by Infomed Research & Training, on **Tuesday 15 May 2012**,
at the W12 Conference Centre, Hammersmith Hospital, 150 Du Cane Road, London W12 0HS

Course Advisors

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

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 Pasupathy Sivasothy,
Consultant Respiratory Physician,
Addenbrooke's Hospital, Cambridge
- Dr Ian Renfrew, Consultant Radiologist, Royal London Hospital
- Dr Anant Patel, Respiratory SpR and
MRC Clinical Research Fellow, Royal Free Hospital, London
- Dr Stephen Burke, Consultant Radiologist, Homerton University Hospital
- Dr Syed Arshad Husain,
Consultant in Respiratory Medicine, Maidstone Hospital
- Dr Nooshin Barmania, SpR in Respiratory Medicine,
Royal London Hospital

**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 EQUIPMENT AND TECHNICAL SUPPORT IS KINDLY PROVIDED BY


World leader and specialist
in hand-carried ultrasound.


sense and simplicity





What past delegates have said

- I am too lazy to fill this form but it was the best course I have ever been to.
- Good introduction to using US machines it covers all important scanning.
 - I like having the lectures available in the internet before the course.
 - Helped me to know the difference between normal and pathology.
 - Lectures pitched at the right level and good practical hands on.
 - Good balanced timetable of lectures and practical sessions
 - Good to use a variety of machines and lots of hands on.
 - Good opportunity to practise US and ask questions.
 - Excellent faculty, very friendly, sharp lectures.

Course Objectives

- ◆ Gain the initial knowledge and competencies 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, video clips and practical work at the Stations, that will enable you to use US in order to recognise normal anatomy and pathologies.
- ◆ 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

- Numbers of delegates is limited
- Access to a web-link, with copies of the lecture slides, in advance of the course
- Interactive, focused lectures, with video clips and practical sessions with live demos with models
- Skills Stations facilitated by the Faculty delegates will be able to perform scans, under expert supervision, using a variety of widely used US machines

CPD Approval
sought from
the Royal College
of Physicians

Course endorsed by

BMUS

PROGRAMME

08.30 – 09.15 **Registration**

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

09.30 – 10.00

Lecture 1: The Relevant Anatomy

Mr Ian Hunt,

Consultant Thoracic Surgeon, St George's Hospital, London

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

Dr Ian Renfrew,

Consultant Radiologist, Royal London Hospital

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

Dr Ian Renfrew,

Consultant Radiologist, Royal London Hospital

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

Dr Stephen Burke, Consultant Radiologist, Homerton University Hospital, London

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 – 13.50

Lunch

Delegates can practise USS

13.50 – 15.30

PRACTICAL SESSION B

Pathology Recognition

The objective of this session is to reinforce the knowledge gained from the previous lecture on Imaging of the Pathologies. Attendees divide into two groups and **each group attends two different sessions:**

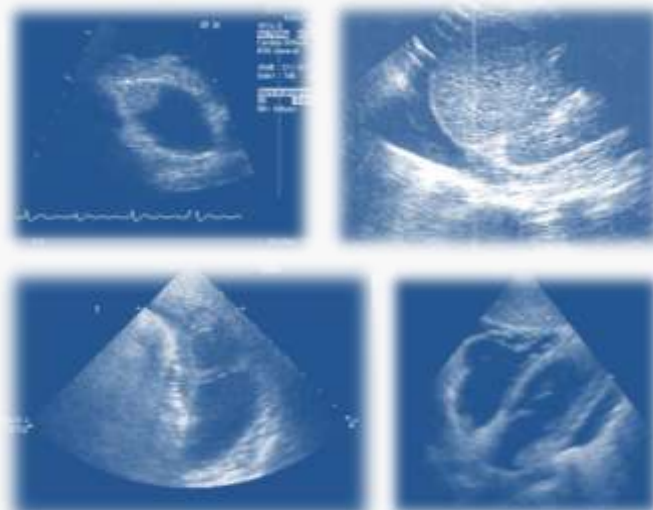
Case Pathologies Session (Interactive) (50 mins)

featuring interactive case scenarios, with images and videos, covering:

- Effusion
- Consolidation
- Septation
- Masses
- Pneumothorax
- Fluid under the diaphragm
- Diaphragmatic palsy

Patients Session (50 mins)

opportunities at the skills stations to scan real patients for pathologies.



15.30 – 16.00

Lecture 5: US Interventions – Case Scenarios

Dr Pasupathy Sivasothy,
Consultant in Respiratory Medicine,
Addenbrooke's Hospital, Cambridge

Topics to be covered (including images and video clips):

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

16.00 – 16.15 **Tea and Coffee Break**

16.15 – 17.15

PRACTICAL SESSION C

Interventions

Introductory live demo with close up of probe handling/needling and US image on dual screen, followed by skills stations for needling practice on phantoms (plus opportunities for additional scanning on normal models)



17.15

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

Dr Syed Arshad Husain is a Consultant in Respiratory Medicine at Maidstone Hospital. His interest is in Interventional Bronchoscopy and Medical Thoracoscopy and Pleural diseases. Currently, actively involved in teaching and training Thoracic Ultrasound for Chest trainees from his Hospital. He also has a specialist interest in Cryotherapy work for lung cancer tumour ablation.

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 Harith Al-Rawi is a Consultant in Adult and Paediatric Emergency Medicine at St Thomas' Hospital, London

Dr Anant Patel is a Respiratory SpR & MRC Clinical Research Fellow at the Royal Free Hospital, London

Dr Anu Balan is a Consultant Thoracic Radiologist at the Addenbrooke's Hospital, Cambridge

Dr Corinne Dubois-Gonet, Locum Consultant in Emergency Medicine, Royal London Hospital

Dr Mia Morgan is a SpR in Radiology at the Southampton General Hospital

Dr Angshu Bhowmik is a Consultant in Respiratory Medicine at Homerton University Hospital, London



BOOKING FORM*Towards Level 1***7th London Thoracic
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150 Du Cane Road, London W12 0HS

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

Confirmation, venue map and receipt will follow by email.

General queries: tel. 020 8123 0021,
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e-mail conferences@infomedltd.co.uk

For a copy of this programme: www.infomedltd.co.uk

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DELEGATE DETAILS

Title First Name

Surname

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