ULTRASOUND COURSE

Hepatology

20TH–21ST SEPTEMBER

LONDON

ROYAL FREE HOSPITAL

SPONSORED BY:

Canon

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SUPPORTED BY:

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COURSE RUN BY:

UCL

ENDORSED BY:

ASL

British Association for the Study of the Liver

EFUMB

endorsed course

European Federation of Societies for Ultrasound in Medicine and Biology

VALID FOR:

15 CPD POINTS

Join us for an in-depth course led by internationally recognised experts in the field of hepatology and non-invasive liver disease assessment on how to use ultrasound and elastography in liver disease in different clinical scenarios.

Each day includes practical sessions with healthy volunteers and, depending on availability, real patients.
We are pleased to invite you to register for the UCL International Hepatology Ultrasound Course 2024, to be held in London at the Royal Free Hospital on the 20th – 21st of September.

Over the last few decades the understanding of liver disease and its management has improved considerably thanks to a variety of diagnostic tools that have provided crucial information on diffuse liver disease, its severity, and prognosis. The diagnostic accuracy for characterizing focal pathology has also sped up the time for diagnosis, hence improving patient’s prognosis.

This “package” of tools falls under the general term of “non-invasive assessment of liver disease” and includes B-Mode ultrasound, colour Doppler analysis, contrast enhanced ultrasound, liver and spleen elastography, as well as the use of biomarkers and scoring systems. In other terms it includes all those instruments that non-invasively provide information on liver anatomy, physiology and pathology by visualising its structure and connections as well as being able to evaluate its elasticity that is a surrogate of fibrosis, and to a further extent, of portal hypertention hence directly correlating to the progression and prognosis of chronic liver disease.

Non-invasive assessment of liver disease has become a crucial tool in clinical practice and a fundamental part of the clinical knowledge of gastroenterologists and hepatologists. The “International Hepatology Ultrasound Course” focuses on the most important topics of clinical hepatology introducing the use of ultrasound in clinical practice as well as the use of more recent technologies such as elastography and fat quantification, highlighting the “pearls and pitfalls” of these important diagnostic resources.

Delegates will have the opportunity to be guided by internationally recognised experts in the field of hepatology and non-invasive liver disease assessment on how to use ultrasound and elastography in liver disease in different clinical scenarios following the most recent guidelines with a clinical, practical and friendly approach. The 2-day course will start from the basics of medical ultrasound to normal liver anatomy and splanchnic circulation and further proceeding to discuss liver pathology from acute and chronic liver disease of different aetiologies to biliary pathology, vascular liver diseases, infectious and tropical disease with liver involvement, paediatrics and liver transplant.

The second day will complete the pathological overview and then will be dedicated to the use of advanced techniques such as elastography, fat quantification and contrast enhanced ultrasound as well as the presentation of real clinical cases and how these techniques can lead to a rapid and accurate bedside diagnosis. Each day will be accompanied and completed by practical sessions on healthy volunteers and, depending on the availability, on real patients.

This course is valid for 15 CPD points.

**COURSE REGISTRATION**

- **Delegates in training:** £300
- **Registered consultants:** £400

Refreshments and lunch are included in the course fee.
Venue Address:
The Atrium
The Royal Free Hospital
Pond Street
Hampstead
London, NW3 2QG

The Atrium is situated in the centre of the hospital on the ground floor, opposite WH Smiths and next to M&S.

Nearest Stations:
Belsize Park Station
7 minute walk, 3 stops on the Northern Line from Euston (easy access for National Rail and Eurostar)

Hampstead Heath Station
A few minutes walk away, and offers links across North and West London

COURSE PRESIDENT
Prof. Emmanuel Tsochatzis
University College London, UK

DIRECTOR & ORGANISER
Dr Matteo Rosselli
University College London, UK

FACULTY MEMBERS
Dr Gayathri Angela Yogarajah
Royal Free Hospital, UK
Dr Giovanna Ferraioli
University of Pavia, Italy
Prof. Adrian Lim
Imperial College London, UK
Dr Tom Heller
Bad Toelz, Germany, UK
Dr Annamaria Deganello
King’s College Hospital, UK
Prof. Annalisa Berzigotti
University of Bern, Switzerland
Dr Davide Roccarina
University College London, UK
Prof. Ioan Sporea
“Victor Babeș” University of Medicine and Pharmacy, Romania
Prof. Alina Popescu
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ORGANISERS
Dr Sujit Mukherjee
University College London, UK
Dr Jade King
University College London, UK
### Day 1: Friday, 20th September

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30</td>
<td><strong>Registration</strong></td>
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<tr>
<td></td>
<td>Chaired by: Dr Matteo Rosselli and Prof. Adrian Lim</td>
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<tr>
<td>09:00</td>
<td>Introduction – Prof. Emmanuel Tsochatzis and Dr Matteo Rosselli</td>
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<td>09:10</td>
<td>Basics of ultrasound physics and their application to liver imaging – Prof. Adrian Lim</td>
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<td>09:30</td>
<td>How to use an ultrasound machine: Knobology – Prof. Adrian Lim</td>
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<td>09:45</td>
<td>Introduction to normal liver ultrasound – Prof. Alina Popescu</td>
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<td>– normal liver anatomy</td>
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<td>– ultrasound semantics</td>
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<td>10:15</td>
<td>Ultrasound assessment of the pancreas – Prof. Ioan Sporea</td>
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<td>10:30</td>
<td>Liver circulation – Dr Matteo Rosselli</td>
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<td>10:45</td>
<td>Concepts of Doppler and Colour Doppler Analysis – Dr Giovanna Ferraioli</td>
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<td>11:05</td>
<td><strong>Refreshment break</strong></td>
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<tr>
<td>11:30</td>
<td>Practical session in small groups: Hands-on normal anatomy</td>
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<td>13:00</td>
<td><strong>Lunch break</strong></td>
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<td>Chaired by: Prof. Alina Popescu and Prof. Annalisa Berzigotti</td>
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<tr>
<td>13:40</td>
<td>Diffuse liver disease acute and chronic – Dr Matteo Rosselli</td>
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<td>14:00</td>
<td>Focal lesions: benign, malignant and the use of CEUS in differential diagnosis – Prof. Adrian Lim and Prof. Ioan Sporea</td>
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<td>14:30</td>
<td>Biliary pathology – Prof. Alina Popescu</td>
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<td>14:50</td>
<td>Ultrasound assessment of portal hypertension – Prof. Annalisa Berzigotti</td>
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<td>15:10</td>
<td>Ultrasound in vascular liver diseases – Prof. Annalisa Berzigotti</td>
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<td>15:30</td>
<td>Ultrasound in liver disease in the paediatric patient – Dr Annamaria Deganello</td>
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<td>16:00</td>
<td><strong>Refreshment break</strong></td>
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<tr>
<td>16:15</td>
<td>Practical session in small groups: Hands-on pathology</td>
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<td>18:15</td>
<td><strong>Close of Day 1</strong></td>
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Day 2: Saturday, 21st September

Chaired by: Dr Matteo Rosselli and Dr Giovanna Ferraioli

08:45 Liver ultrasound in infectious diseases and limited resource countries - Dr Tom Heller
09:30 Point-of-care ultrasound in liver disease - Dr Matteo Rosselli
09:50 Ultrasound in liver transplant - Dr Gayathri Angela Yogarajah
10:20 Elastography – basic concepts and different elastographic techniques - Dr Giovanna Ferraioli
10:40 Liver elastography guidelines - Dr Giovanna Ferraioli
11:00 Refreshment break

Chaired by: Prof. Ioan Sporea and Prof. Annalisa Berzigotti

11:15 Elastography in cirrhotic and non-cirrhotic portal hypertension – from guidelines to clinical practice - Prof. Annalisa Berzigotti
11:40 Elastography in different liver disease aetiologies - Dr Matteo Rosseli
12:00 Ultrasound advanced techniques (fat quantification and viscosity) - Dr Giovanna Ferraioli
12:20 Multiparametric ultrasound in MASLD – Dr Davide Roccarina
12:50 Lunch break

13:30 Interactive clinical cases
15:00 Practical session in small groups: Hands-on elastography – normal findings
16:15 Refreshment Break
16:30 Practical session in small groups: Hands-on elastography – pathological findings
18:00-18:15 End of the course and closing remarks