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# King's CT Imaging in Polytrauma Interpretation for the **Emergency Physician**

King's College Hospital **NHS**  
NHS Foundation Trust

## An intensive and interactive case-based course

organised by **Infomed Research & Training**  
in partnership with **King's College Hospital NHS Foundation Trust**,  
on **Tuesday 17 and Wednesday 18 September 2019**,  
at the Park Plaza County Hall Hotel, 1 Addington Street, London SE1 7RY  
(south side of the Westminster Bridge)

**12 CPD Points**

Certificates of  
Attendance  
will be given

### Target Audience

Course designed for **Consultants**  
SASGs and senior STs in **Emergency Medicine**,  
and **Trauma Team Leaders**.

### Course Director

**Dr Lisa Meacock**, Consultant Radiologist,  
King's College Hospital, London

### Course Faculty

**Leading Consultant Radiologists**,  
**experts in their respective fields**  
and **experienced in advancing the skills of peers**

- **Dr Saira Haque**,  
Consultant Paediatric Radiologist,  
King's College Hospital, London
- **Dr Thoraya Ammar**,  
Consultant Interventional  
Radiologist, King's College Hospital, London
- **Dr Stephen Gregory**,  
Consultant Diagnostic  
and Interventional Radiologist,  
King's College Hospital, London
- **Dr Marcela De La Hoz Polo**,  
Consultant Radiologist,  
King's College Hospital, London
- **Dr Kenneth Courtney**, Radiologist,  
King's College Hospital, London
- **Dr Maureen Dumba**, Senior Neuroradiology Fellow,  
Imperial College Healthcare NHS Trust
- **Dr Anish Raithatha**, ST in Radiology,  
Imperial College Healthcare NHS Trust

### About this unique Course

- ☑ **Numbers strictly limited.**  
**Two attendees per iMac workstation for  
peer interaction and learning**
- ☑ Over 100 cases to interpret over the two days
- ☑ **Intensive CT trauma interpretation practice**,  
**including head and spine, whole body,**  
**chest, abdomen, angiography/interventional**  
**radiology and special paediatric considerations**
- ☑ Short introductory lectures, offering guidance,  
practical knowledge, what not to miss and how
- ☑ **Time and freedom to review cases at your own pace**
  - ☑ Case review and discussion panel, Q&A,  
interpretation guidance, tips and common errors to avoid
- ☑ Interactive discussions, what is relevant and significant,  
take home messages that will change your EM practice

### Course Aim

**To provide the busy, 'hands-on' EM Consultant  
with a practical, stimulating and comprehensive update  
on advanced trauma imaging interpretation:**

- (i) **practical** (workstation-based learning); (ii) **stimulating**  
(interactive, challenging cases, immediate feedback);  
and (iii) **comprehensive** (head and spine,  
chest, abdomen, extremities).

**By the end of the course, the delegate will have:**

- (1) a comprehensive understanding of good/best  
trauma imaging interpretation practice;
- (2) improved trauma imaging interpretation skills;
- (3) greater confidence in advanced practice;  
and the ability to know when to refer further
- (4) identified skills and knowledge gaps, if any,  
relevant to his/her practice, and  
clear ways by which these can be addressed.

## Day 1: Tue 17 September 2019

08.30 – 09.15 **Registration, tea and coffee**

09.15 – 09.45

**Introduction** and case demo

**Jack Hodson** and **Dr Lisa Meacock**

- Aims of course
- How to use OsiriX
- Awareness of mechanism of injury and vectors of force to consider when interpreting trauma imaging

09.45 – 10.30

**Thoracic trauma**

**Dr Lisa Meacock**

Cases include:

- Chest wall injury
- Trauma to the lung
- Trauma to the heart and pericardium
- Rupture of the hemi diaphragm
- Considerations in penetrating vs blunt injury

10.30 – 10.50 **Tea and coffee**

10.50 – 12.15

**Thoracic trauma cases continued...**

12.15 – 13.00 **Lunch**

13.00 – 14.15

**Abdominal trauma I**

**Dr Stephen Gregory**

- Suggested CT protocols
- Considerations in penetrating vs blunt trauma
- Cases of:
  - Hepatobiliary and pancreatic trauma
  - Splenic trauma

14.15 – 15.00

**The thoracolumbar spine**

**Dr Marcela De La Hoz Polo**

Cases:

- Differentiating between stable and unstable injuries
- Common injury patterns of the thoracic and lumbar spine
- Associated injuries

15.00 – 15.15 **Tea and coffee**

15.15 – 17.00

**Pelvic trauma**

**Dr Lisa Meacock**

- Introduction of relevant anatomy

Cases:

- Anteroposterior compression injuries
- Lateral compression injuries
- Vertical shear injuries
- Acetabular fracture patterns
- Associated injuries, e.g. bladder injury

17.00 **Collection of feedback and close**

## Day 2: Wed 18 September 2019

08.30 – 09.15 **Registration, tea and coffee**

09.15 – 10.30

**Imaging of cranio-cerebral trauma**

**Dr Luke Dixon**

- Introduction of relevant anatomy
- Review areas – types of brain herniation
- Mimics
- Cases include:
  - Cranial vault and cranial base fractures
  - Intracranial extra-axial injury
  - Subarachnoid and intraventricular haemorrhage
  - Cerebral contusion
  - Brain herniation

10.30 – 11.15

**Cervical spine**

**Dr Anish Raithatha**

- Introduction of relevant anatomy
- Cases include:
  - Differentiating between stable and unstable injuries
  - Common injury patterns of the cervical spine
  - Associated injuries, e.g. vascular dissection

11.15 – 11.40 **Tea and coffee**

11.40 – 13.10

## Abdominal trauma II

**Dr Kenneth Courtney**

- Introduction of relevant anatomy
- Cases of:
  - Injuries to the urinary system and retroperitoneum
  - Vascular injuries
  - Bowel and mesenteric injury (the seat belt injury)

13.10 – 14.00     **Lunch**

14.00 – 15.15

## Special considerations in the paediatric trauma

**Dr Saira Haque**

- Radiation exposure
- Protocols
- Assessing the cervical spine
- Alternatives to CT, e.g. contrast ultrasound
- Paediatric cases

15.15 – 15.45     **Tea and coffee**

15.45 – 17.00

## Angiography and Interventional radiology in trauma

**Dr Thoraya Ammar**

- Know your limits - When to call the radiologist
- Examples of:
  - Active extravasation and pseudo aneurysm formation
  - Endovascular control of haemorrhage

15.00 – 15.15     **Tea and coffee**

17.00                **Feedback, collection of Certificates of Attendance and close**

## The Faculty 2018/19 includes

**Dr Lisa Meacock** is a Consultant Radiologist, King's College Hospital, London. Her special interests include MSK imaging and trauma imaging. She is the Radiology lead for trauma imaging for The South East London, Kent and Medway Trauma Network.

**Dr Elizabeth Dick**, MRCP, FRCR, MD, is a Consultant Radiologist and Honorary Senior Lecturer at Imperial College NHS Trust with expertise in Body MRI, Emergency, Trauma and MSK Radiology, subjects upon which she has published and lectured nationally and internationally. She completed a two year Fellowship in Body MRI, during which time she earned her doctoral degree. She has published several books and a CD Rom for training Radiologists, and taught on numerous UK postgraduate courses to medical and paramedical specialists. She is the President of the British Society of Emergency Radiology and Secretary of the European Society of Emergency Radiology.

**Dr Mariano Scaglione** is Director of the Department of Imaging at Pineta Grande Medical Center, in Castel Voltumo, Italy. He is also President of the European Society of Emergency Radiology (ESER).

**Dr Dylan Lewis** is a Consultant Radiologist at King's College Hospital. He graduated from University of Manchester Medical School with honours in 1998. After gaining the MRCP (UK) qualification, Dr Lewis commenced training in Radiology at King's College Hospital in 2003 and was appointed a consultant in 2010. He is the Radiology lead for emergency imaging for Kings College Hospital. Dr Lewis also specialises in hepatobiliary and interventional Radiology with a special focus on transplantation, oncology, trauma and adrenal imaging. He actively partakes in research and is author/co-author of papers and presentations across his areas of interest. Dr Lewis has been an invited speaker at national and international meetings.

**Dr Ata Siddiqui** was appointed as a Consultant Neuroradiologist in 2007. After his general radiology training, he undertook the Pan-London Neuroradiology fellowship, rotating across several major neuroscience centres/hospitals in London. His main interests are diagnostic neuroradiology and ENT (head and neck) imaging. He has authored several publications and regularly reviews manuscripts for journals such as Clinical Radiology and British Journal of Radiology. He has presented widely at national and international meetings. He regularly lectures at regional and national meetings. He is a member of the Royal College of Radiologists, British Society of Neuroradiologists and British Society of Head and Neck Imaging.

**Dr Stephen Gregory** is a Consultant Diagnostic and Interventional Radiologist at King's College Hospital, appointed in 2014.

**Dr Thoraya Ammar** is a Consultant Interventional Radiologist at King's College Hospital, appointed in 2012. She graduated from the University of London and qualified in 1997.

**Dr Bhavna Batohi** is a Consultant MSK Radiologist at King's College Hospital, London. She qualified from University of London in 2009.