







MRI VIRTUAL EVENT -BREAST AND GYNAECOLOGICAL/PELVIC IMAGING CPD: 3 CREDITS



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### MRI VIRTUAL EVENT - BREAST AND GYNAECOLOGICAL/PELVIC IMAGING

Built around the theme of 'Women's health', this half-day virtual event goes beyond the basics of MRI to explore some of the more advanced clinical MR techniques available on the current generation of MR scanners applicable to the subspecialties of breast and gynaecological imaging.

The clinical utility of techniques will be demonstrated with practical examples and accessible explanations of the physics behind the concepts will be provided. As such, this half day should provide an excellent learning opportunity for anyone looking to better utilise some of the options available on their latest MR system, to improve the quality and efficiency of their MR service, or for those involved in procuring a new MR scanner who wish to better understand the wide variety of options available.

Delivered as a double act, a radiologist will explain the clinical needs and applications with a physicist describing the underlying principles. Together they will discuss the challenges and opportunities that these cutting-edge techniques provide, as well as some of the practical limitations.

Questions will be moderated by Dr Geoff Charles-Edwards and Dr Manil Chouhan

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1. Compared to Philips scans without Compressed SENSE

16 OCTOBER 2020

13:30	Welcome and introduction Dr Martin Graves, Dr Geoff Charles- Edwards and Dr Manil Chouhan
13:35	<b>Breast MRI</b> Ms Sarah Bacon, Medical Physicist (MRI), Leeds Teaching Hospitals NHS Trust; and Dr Nisha Sharma, Consultant Breast Radiologist and Director and Clinical Lead for Breast Imaging, Leeds Teaching Hospitals NHS
15:05	Q&A
15:15	Break
15:20	<b>Gynaecology/ pelvis MRI</b> Dr Martin Graves, Consultant Clinical Scientist, Addenbrooke's Hospital, Cambridge University Hospitals NHS Foundation Trust; and Dr Helen Addley, Consultant Radiologist, Addenbrooke's Hospital, Cambridge University Hospitals NHS Foundation Trust
16:50	Q&A
17:00	Close of event

### **Programme Organisers**

Dr Martin Graves, Consultant Clinical Scientist, Addenbrooke's Hospital, Cambridge University Hospitals NHS Foundation Trust and Dr Geoff Charles-Edwards, Consultant Clinical Scientist, Guy's and St Thomas' NHS Foundation Trust

With special thanks to Dr Manil Chouhan, Consultant Radiologist, University College London Hospitals NHS Foundation Trust/University College London Centre for Medical Imaging

## **Biographies**



#### **Dr Geoff Charles-Edwards**

### Consultant Clinical Scientist, Guy's and St Thomas' NHS Foundation Trust

Dr Geoff Charles-Edwards is a Consultant Clinical Scientist at Guy's and St Thomas' NHS Foundation Trust where he is Head of MR Physics, and an Honorary Senior Lecturer at King's College London. He received his PhD in MR physics at the Institute of Cancer Research, London, and has over 20 years of experience working in clinical and research MRI.

He works closely with BIR and other professional bodies to promote better understanding of MR issues and enable improvements in clinical practice



#### **Dr Manil Chouhan**

### Consultant Radiologist, University College London Hospitals NHS Foundation Trust/ University College London Centre for Medical Imaging

Dr Manil Chouhan is a Clinical and Academic Abdominal Radiologist at University College London with a main academic interest in the development and application of quantitative MRI methods for the evaluation of hepato-pancreatico-biliary disease. He has been a previous Wellcome Trust Research Training Fellow and NIHR Clinical Lecturer, with ongoing research projects spanning MR translational research to the use of quantitative MRI in multicentre trials.

#### **Dr Martin Graves**

### Consultant Clinical Scientist, Addenbrooke's Hospital, Cambridge University Hospitals NHS Foundation Trust

Martin Graves is a Consultant Clinical Scientist at Cambridge University Hospitals and Affiliated Lecturer at the University of Cambridge Clinical School. He has over thirty-five years' experience in both clinical and research aspects of MRI. He received his BSc (1984) and MSc (1987) degrees from the University of London and his PhD (2010) from the University of Cambridge. He is a senior Fellow of the International Society for Magnetic Resonance in Medicine (ISMRM), the UK Institute of Physics and Engineering in Medicine (IPEM) and the Higher Education Academy (HEA). He has been awarded Honorary Membership of the UK Royal College of Radiologists (RCR) (2016), the IPEM Academic Gold Medal (2018) and fellowship of the British Institute of Radiology (BIR).

He has co-authored over 200 peer-reviewed publications as well as co-authoring a number of textbooks including "MRI: From Picture to Proton" (CUP 2003, 2007 and 2016), "Physics MCQs for the Part 1 FRCR" (CUP, 2011), "The Physics and Mathematics of MRI" (Morgan & Claypool Publishers, 2016) and "Fast Quantitative MRI" (Morgan & Claypool Publishers, 2020). He is passionate about teaching and has received ISMRM outstanding teacher awards in 2006 and 2011. He recently delivered the first SMRT Masterclass on the "Essentials of MR Physics". He is currently chair of the BIR MR Special Interest Group.



# **Biographies**



#### **Dr Helen Addley**

## Consultant Radiologist, Addenbrooke's Hospital, Cambridge University Hospitals NHS Foundation Trust

Dr Helen Addley is a Consultant Radiologist specialising in gynae-oncology at Addenbrooke's Hospital Cambridge. She completed an abdominal fellowship at McGill University in Montreal prior to her consultant position. She has presented at several international and national conferences including International Society for Magnetic Resonance in Medicine, Radiological Society of North America, and the Royal College of Radiologists annual meeting.



#### Ms Sarah Bacon

#### Medical Physicist (MRI), Leeds Teaching Hospitals NHS Trust

Ms Sarah Bacon has worked as a medical physicist for the Leeds Teaching Hospitals NHS Trust for 20 years specialising in MRI. She has a particular interest in breast MRI and works closely with the breast MRI team to ensure high levels of image quality and safety are provided by the MRI breast service (symptomatic, screening and biopsy).

She has extensive experience of teaching MRI physics to radiographers, radiologists and physicists.



#### Dr Nisha Sharma

## Consultant Breast Radiologist and Director and Clinical Lead for Breast Imaging, Leeds Teaching Hospitals NHS

Dr Nisha Sharma is a breast radiologist actively involved in both breast screening and symptomatic breast. Dr Sharma is also a professional clinical advisor for the breast screening programme and audit lead for the RCR breast group.

She is involved in several trials looking at how we can use new technology to supplement screening such as the BRAID trial and MyPebs. Nisha was also involved in developing the technical guidelines for breast MRI and family history guidance. She also performs MRI guided biopsies using vacuum assisted biopsy device.

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