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ACCELERATED MRI: HYPE OR HOPE FOR  
INCREASED PATIENT THROUGHPUT  
VIRTUAL EVENT  
3 CPD CREDITS



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# ACCELERATED MRI: HYPE OR HOPE FOR INCREASED PATIENT THROUGHPUT

## VIRTUAL EVENT

### 3 CPD CREDITS

The NHS England 2020 Report 'Diagnostics: Recovery and Renewal' by Professor Sir Mike Richards, emphasised the need to increase diagnostic activity, including the back log of imaging caused by the Covid-19 pandemic. His recommendation was an expansion in equipment in line with the then growth rates as well as the replacement of all equipment over ten years old. The latest MRI system upgrades now feature several advanced acquisition and reconstruction techniques designed to accelerate MR imaging with the potential to increase patient throughput. However, the principles and practice of these techniques are often not well appreciated. This BIR virtual meeting will discuss the basic theory, applications, advantages, and limitations of accelerated MRI methods from the perspective of the MR physicist, radiographer, and radiologist.

The main MRI vendors will also present brief overviews of their methods offered on their systems.

#### **Educational aims:**

- To describe the basic principles of parallel imaging, compressed sensing, and deep learning
- To judge how accelerated imaging can contribute to increased diagnostic capacity
- To assess the challenges associated with the implementation of accelerated imaging from a physicist, radiographer, and radiologist perspective
- To compare the various vendor approaches to accelerated imaging

## Programme Organiser

Professor Martin Graves  
Professor of MR Physics  
University of Cambridge

13:00	<b>Welcome and introduction</b> Professor Martin Graves, Professor of MR Physics, University of Cambridge
13:05	<b>Accelerated MR imaging: ambition to reality</b> Dr Nicola Scott, Senior Imaging Transformation Manager for the North West; and Dr Kim Robertson, Head of Imaging Transformation, NHS England
13:20	<b>Q&amp;A</b>
13:25	<b>Accelerated MR imaging: the basic principles</b> Dr Joe Martin, Senior MR Physicist, Guy's and St Thomas' NHS Foundation Trust
13:40	<b>Q&amp;A</b>
13:45	<b>Accelerated MR imaging: practical implementation</b> Mr Michael Hutton, Consultant Clinical Scientist and MR Section Lead, The Christie NHS Foundation Trust
14:00	<b>Q&amp;A</b>
14:05	<b>Break</b>
14:20	<b>Impact of accelerated MRI, a radiographer's perspective</b> Dr Neil Woodhouse, MRI Manager & Reporting Radiographer, Blackpool Teaching Hospitals NHS Foundation Trust
14:35	<b>Q&amp;A</b>
14:40	<b>Impact of accelerated MRI, a body radiologist's perspective</b> Dr David Bowden, Consultant Radiologist, Cambridge University Hospitals NHS Foundation Trust
14:55	<b>Q&amp;A</b>

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## Industry panel session

- |       |  |
|-------|--|
| 15:00 | <b>Siemens Healthineers MR Acceleration – Faster than ever before</b><br>Mr Rob Evans, MR Product Application Specialist, Siemens Healthineers                   |
| 15:15 | <b>Presentation by GE Healthcare</b><br>Mr Andy Laycock, MRI Product Sales Specialist, GE Healthcare; Mr Gavin Houston, Senior Clinical Scientist, GE Healthcare |
| 15:30 | <b>Philips Smartspeed – acceleration for clinical practice</b><br>Mr Matthew Clemence, Senior Clinical Scientist, Magnetic Resonance, Philips Healthcare         |
| 15:45 | <b>Presentation by Canon Medical Systems</b><br>Mr Chris Henny, European Clinical Specialist MRI, Canon Medical Systems Europe                                   |
| 16:00 | <b>Panel session Q&amp;A</b>   |
| 16:10 | <b>Closing remarks</b><br>Professor Martin Graves, Professor of MR Physics, University of Cambridge  |
| 16:15 | <b>Close of event</b>  |

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The British Institute of Radiology

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