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|  | ***2020***  ***Edition*** |

**A 3-Day Course on Devices and MRI Compatibility**

**3-5 June 2020, London, UK**

**The course aims to promote the concept of device future- and in particular health system-proofing based on MRI compatibility and disseminate knowledge on the safe use and development of devices for the MR environment.**

**The target audience includes: Device engineers, designers and inventors; MR specialists (radiologists, technologists, physicists and engineers); medical physicists and biomedical engineers; Safety officials and engineers; Researchers and practitioners.**

**Course Outline**

**Day 1**

***Theme: Can I Put this Person with this Thing inside the Scanner?***

**Overview of MRI**

**Introduction to devices and the MR compatibility problem**

**Current regulations; Applications and clinical management of devices in MRI**

**Clinical and research governance**

**Day 2**

***Theme: Physical Principles for Device Design and Applications***

**Theory of MR scanners**

**Hazards associated with the presence of devices in the MR environment**

**MR and device performance**

**Case studies**

**Day 3**

***Theme: Towards Getting a Device Approved: Standards and Regulations***

**Passive vs. Active devices in the MRI scanner**

**Evaluation of device-MR interactions**

**REGISTRATION**

**Course Director**: Professor Louis Lemieux, UCL Queen Square Institute of Neurology and the National Hospital for Neurology and Neurosurgery.

The course is organised with the help of the Education Team at the UCL Queen Square Institute of Neurology. If you have any questions concerning your booking please contact us via email: [d.blundred@ucl.ac.uk](mailto:d.blundred@ucl.ac.uk) and [devmrcomp@ucl.ac.uk](mailto:devmrcomp@ucl.ac.uk)