



MRI VIRTUAL EVENT 2021

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This virtual event will cover whole-body PET and simultaneous MRI, as well as whole-body MRI.

Whole-body PET with ^{18}F -FDG forms part of national and international recommendations for staging patients with cancer and monitoring progress after treatment. Contemporary PET/CT protocols consist of vertex to mid-thigh field of view with CT and PET acquired sequentially. Both a low- and high-resolution CT are acquired for attenuation correction and anatomical localisation, respectively. Tumour metabolism information is displayed in standardised uptake value maps superimposed on to the high-resolution CT images for the purposes of clinical reporting. However, with the development of commercial hybrid PET/MRI scanners some decade or so ago, these PET images can now be married-up with WB-MRI protocols which include diffusion-weighted MRI and Dixon MRI, to provide complementary morphological and tissue structure whole-body imaging for assessment.

In this talk we will discuss the indications for simultaneous PET/MRI, and describe some protocols and the physical principles of PET with MR attenuation correction maps, and discuss the clinical interpretation of PET/MRI for patients with metastatic disease.

Whole-body magnetic resonance imaging (WB-MRI) forms part of national and international recommendations for imaging patients with myeloma or metastatic prostate cancer. Contemporary WB-MRI protocols, which include diffusion-weighted MRI and Dixon MRI, provide complementary morphological and functional whole-body imaging for assessment of the extent of systemic malignant bone disease and response to treatment. In this talk we will discuss the indications for WB-MRI, describe WB-MRI protocols and the physical principles of diffusion-weighted MRI and Dixon imaging, and discuss the clinical interpretation of WB-MRI for patients with malignant bone disease.

Programme Organiser

Professor Martin Graves,
Professor of MR Physics,
University of Cambridge

Sponsorship

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OCTOBER
2021

- 13:00** **Welcome and introduction**
Professor Martin Graves, Professor of MR Physics, University of Cambridge
- 13:05** **Whole Body Imaging**
Dr Jessica Winfield, Clinical Scientist; Dr Christina Messiou, Consultant Radiologist, The Royal Marsden NHS Foundation Trust and Institute of Cancer Research, London
- 14:05** **Q&A**
- 14:10** **Break**
- 14:20** **PET/MR**
Dr Anna Barnes, Medical Physicist- Imaging, King's College London; Dr Simon Wan, Consultant Nuclear Medicine physician, University College London Hospitals NHS Foundation Trust
- 15:20** **Q&A**
- 15:25** **Closing remarks**
Professor Martin Graves, Professor of MR Physics, University of Cambridge
- 15:30** **Close of event**

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