



Oxford Biomedical Research Centre
Enabling translational research through partnership

NIHR Statistical Group: Imaging in Translation Research Meeting

Challenges in the design and analysis of studies evaluating imaging modalities

Pembroke College, Oxford, OX1 1DW
Tuesday 1st October 2013
10:00 – 16:00

Agenda

10:00 – 10:30 **Registration & Coffee**

SESSION 1 CHAIR: Professor Doug Altman

10:30 - 10:35 **Introduction & welcome**
Professor Doug Altman, Director of Centre for Statistics in Medicine, Oxford

10:35 – 10:45 **NIHR clinical research infrastructure – supporting translational research**
Mark Samuels, Managing Director, NIHR Office for Clinical Research Infrastructure (NOCRI)

10:45 - 11:15 **What is translational research and why is it important?**
Professor Keith Channon, Director, NIHR Oxford Biomedical Research Centre

11:15 – 11:45 **Imaging technology evaluation for NICE: a physicist's perspective**
Professor Stephen Keevil, Co-Director of King's Imaging Technology Evaluation Centre, King's College London

11:45 – 12:15 **Statistical considerations in some studies evaluating imaging modalities**
Professor Doug Altman

12:15 - 12:30 **Questions & discussion**

12:30 – 13:15 **Lunch**



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SESSION 2 CHAIR: Professor Janet Peacock

- 13:15 – 13:30 **Challenges for the statistician in designing studies in imaging**
Professor Janet Peacock, Professor of Medical Statistics, King's College London
- 13:30 – 13:45 **Challenges of functional & structural MRI in a clinical trial**
Dr Thomas Nichols, Head of Neuroimaging Statistics, Department of Statistics & Warwick Manufacturing Group, University of Warwick
- 13:45 – 14:00 **CASE STUDY 1: T1 mapping - bringing imaging biomarker into clinical practice**
Dr James Moon, Director of Cardiac MRI Service, The Heart Hospital, NIHR University College London and UCLH Biomedical Research Centre
- 14:00 – 14.15 **CASE STUDY 2: Tracking eye gaze during radiologist interpretation of endoluminal 3D CT Colonography**
Dr Tom Fanshawe, Medical Statistician, Department of Primary Care Health Sciences, University of Oxford
- 14.15 – 14.30 **CASE STUDY 3: 1000 cardiac phenomes project: using computational anatomy to understand heart disease**
Dr Declan O'Regan, MRC Clinician Scientist / Honorary Consultant Radiologist, Imperial College London
- 14:30 – 14:45 **CASE STUDY 4: Diagnostic performance of [11C] choline PET/CT versus MRI in prostate cancer nodal staging: Research Challenges**
Dr Amar Challapalli, NIHR Imperial Biomedical Research Centre and CRUK-EPSRC-MRC-NIHR Comprehensive Cancer Imaging Centre
- 14:45 – 15:00 **CASE STUDY 5: Imaging biomarkers in colorectal cancer**
Dr Gina Brown, Consultant Radiologist and Cancer Imaging Theme Lead, NIHR Royal Marsden and ICR Biomedical Research Centre
- 15:00 – 15:30 Tea & Coffee**

SESSION 3 CHAIR: Professor Doug Altman

- 15:30 – 16:00 **Panel discussion (all speakers)**