Dr Alimul Chowdhury PhD

Clinical Scientist / Principal MR Physicist

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About

Dr Ali Chowdhury is a registered Clinical Scientist and MR Physicist in a joint post with the BUIC and the University Hospitals Birmingham (UHB) NHS Foundation Trust. His work in the area of Magnetic Resonance Imaging (MRI) and Spectroscopy (MRS) includes providing expert advice in sequence development, quality assurance (QA) and MR safety. In addition, he is active in clinical research including functional MRI.

Qualifications

- BSc (University of Nottingham)
- MSc (University of Aberdeen)
- PhD (University of Surrey)

Biography

Dr Ali Chowdhury completed his PhD studying physics in MRI and Ion Beam Analysis methods at the University of Surrey. He was subsequently an MRI physicist at the University of Cambridge Wolfson Brain Imaging Centre (WBIC). Dr Ali Chowdhury moved to Birmingham in 2005 to take the fMRI Physics Clinical Scientist post at the BUIC and UHB.

Teaching

Dr Ali Chowdhury provides MRI physics lectures to both the students on the M.Res Brain Imaging and Cognitive Neuroscience course and to students on the Physical Sciences of Imaging for Biomedical Sciences (PSIBS) Doctoral Training course.

Research

Research Group
Birmingham University Imaging Centre (BUIC)

Research Interests
Current research activities and interests include, developing prognostic models in central post stroke pain (CPSP), imaging patients with autosomal dominant polycystic kidney disease (PKD), measuring brain phenylalanine (Phe) in patients with phenylketunuria (PKU), developing fluorine-19 MRI for potential radiotherapy applications in boron neutron capture therapy (BNCT), brain iron imaging, brain pH imaging, diffusion and perfusion imaging, diffusion tensor imaging (DTI), arterial spin labeling (ASL), J-resolved spectroscopy, chemical shift imaging (CSI) and high resolution BOLD imaging.

Other activities

Dr Ali Chowdhury is a member of the International Society of Magnetic Resonance Imaging (ISMRM) and he is a regional MRI physics safety advisor for the NHS clinical imaging departments across the West Midlands area. He is also a keen chess player, enjoys playing badminton and hiking.

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