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Can we treat what we can't see? Neuroimaging and mental health

Arshad Zaman

University of Leeds, UK

Functional magnetic resonance imaging or functional MRI (fMRI) is a state-of-the-art functional neuroimaging technique (non-invasive) that measures brain activity by detecting associated changes in blood flow. fMRI is increasingly playing a key role in providing a deeper insight into brain function and/or functional brain networks. There are several novel clinical applications of clinical fMRI. Indeed, fMRI brain functional imaging, can unlock the deepest secrets of the living brain, and consequently plays a key role in modern mental health treatment and psychiatric methods (clinical and research). Recently, there has been considerable consensus that modern psychiatry practices do not take full advantage of new (yet matured) powerful science, e.g., neuroimaging techniques. The session will cover an introduction to clinical fMRI, and clinical and novel applications in mental health. This session will spotlight what can and can't be done with fMRI in the context of mental health and identification and/or treatment of psychiatric disorders. The session will address the key question, whether it is the correct time to inject state-of-the-art science into psychiatric practice.

Biography

Arshad Zaman is an experienced Neurospecialist with over 15 years' experience in developing and clinically applying functional Magnetic Resonance Imaging (fMRI) at international centers of excellence. His previous studies encompass a spectrum of clinical applications (epilepsy, oncology) to state-of-the-art applications (e.g. pain relief, mental health & brain training). His current commitments centre around further development and clinical utilisation of fMRI.

arshad.zaman@nhs.net

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