

Neuroimaging in 2021

Seeing is Believing:

Mild Traumatic Brain Injury & Chronic
Trauma Encephalopathy



Dr Emer MacSweeney
CEO and Consultant Neuroradiologist,
Re:Cognition Health



Dr Steve Alder
Consultant Neurologist and Clinical Director
for Neurological Services, Re:Cognition Health

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These high level presentations will further our understanding of state-of-the-art neuroimaging in 2021. Its capability to understand and provide evidence especially in the challenging arena of mTBI and CTE is advancing rapidly. These presentations will be essential to update practitioners on the latest developments.

These presentations will provide:

- An understanding of how Advanced Neuro-Imaging can identify structural, functional and microscopic evidence of “mild” Traumatic Brain Injury and Chronic Traumatic Encephalopathy CTE.
- A review of current important imaging techniques; how and when to use these, what information is accessed, what are the expectations and limitations.
- An appreciation of how new imaging bio-markers need to be employed when the initial clinical presentation of the individual is not explained by the more conventional imaging performed.
- An overview of new, more sophisticated imaging biomarkers, which increasingly will have a role in explaining the longer-term sequelae of post traumatic brain injury. In particular, use of these new bio-markers to provide evidence of brain injury related to disruption of important white matter tracks in the brain, at an ultra-microscopic level.
- An understanding of how this more sophisticated data correlates with clinical symptoms and provides information not only about the type and extent of brain injury to support a more accurate diagnosis, than is possible today with conventional imaging; but also to provide invaluable information on potential prognosis.
- A discussion of the different mechanism of injury in CTE caused by repetitive brain injury in contact sports, compared to mTBI from a single severe blow to the head. An understanding of how to demonstrate evidence of CTE.

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BIOGRAPHIES



Dr Emer MacSweeney BSc (Hons), MRCP, FRCR **CEO and Consultant Neuroradiologist**

Dr MacSweeney is CEO and Medical Director of award-winning brain and mind clinic Re:Cognition Health. She graduated at the University of London and underwent postgraduate training in medicine at the London postgraduate hospitals. Dr MacSweeney trained in radiology at Hammersmith Hospital and neuroradiology at the National Hospital Queen Square. She was appointed as a Consultant Neuroradiologist and later Director of Neuroradiology at Atkinson Morley's Hospital, St George's Healthcare Trust, specialising in interventional vascular neuroradiology.

Dr MacSweeney co-founded Re:Cognition Health in 2011 to provide a specialist service in the neurological assessment and imaging of cognitive impairment, neurovascular diseases and traumatic brain injury, including the provision medico-legal expert opinion. The Re:Cognition Health Clinics in London, Birmingham, Essex, Surrey and Plymouth and Washington DC are also major centres for international trials of disease-modifying and new symptomatic drugs for Alzheimer's disease and other neurological conditions. Re:Cognition Health's expertise has been recognised with numerous prestigious accolades including EY Entrepreneur of the Year Winner- Societal Impact 2019 (London and South England) Growing Business Awards- Positive Impact Winner 2019, CEO Today Magazine - Healthcare Awards Winner 2019, LaingBuisson Healthcare Awards for Excellence (finalist or winner; 2012, 2013, 2015, 2018, 2019, 2020), Health Investor Awards 2020 finalist KPMG Entrepreneur of the Year Winner 2016, the Eclipse Personal Injury Award Winner 2015.

Recent publications:

Allder, S and MacSweeney, E. Recent developments in Neuro-Imaging for Traumatic Brain Injury. Journal of Personal Injury Law (Jan.21)

Allder, S and MacSweeney, E. Guide to Catastrophic Injury Claims Chapter 14

(Dec.19)

MacSweeney, E. Efficacy and Safety of Lanabecestat for Treatment of Early and Mild Alzheimer Disease, JAMA Neurol. 2020;77(2):199-209. doi:10.1001/jamaneurol.2019.3988

(Nov.19)

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BIOGRAPHIES

Dr Steve Alder

Consultant Neurologist and Clinical Director for Neurological Services at Re:Cognition Health

Dr Alder is a Consultant Neurologist. He offers both clinical and medicolegal neurological services. He is also the local Primary Investigator on several global Phase 3 studies relating to Parkinson's Disease and Clinical Director for neurological services at Re:Cognition Health.

Dr Alder's main clinical focus is traumatic brain injury (TBI), and functional neurological disorders (FND). With respect to TBI, Dr Alder provides a clinical and medicolegal services for the assessment of patients with TBI across the whole spectrum of injury severity i.e moderate - severe to mild; and across diverse aetiologies of TBI i.e. civilian, sport's and military.

Recognition Health, under Dr Alder's clinical leadership, are completing a 4 years collaboration with the Aston Brain Centre looking at the clinical utility of Magnetoencephalography (MEG) in TBI, especially mTBI where MRI including DTI is normal. This has been a successful collaboration which will lead to the development of several improved diagnostic tools for mild TBI. The collaboration has also led to further projects across a wide spectrum of TBI aetiologies, engaging new partnerships with Nottingham University, Toronto Sick kids, and several commercial organisations.

Since 2020, Dr Alder and Recognition Health have developed a new primary academic collaboration with King's College Hospital. This joint work is exploring two complementary areas. Firstly, the utility of more sophisticated MRI sequences to further enhance diagnostic and pathophysiological insights into mild TBI, especially sports related TBI. Secondly, we are exploring how deployment of state-of-the-art neuro-computational techniques can reveal the mechanisms underlying how structural injury from TBI creates the clinical profiles seen in these conditions. It is hoped this will lead to improved treatment strategies.

With respect to Functional Neurological Disorder Dr Alder has long standing interest and is a founding member of the FND Society. Dr Alder offers a clinical and medicolegal service for the assessment of patients with suspected FND. Dr Alder has a long-standing collaboration with Dr Leo Russell and Prof Allan Abbass, who are leading practitioners and researchers in a treatment modality for FND termed Intensive short-term dynamic psychotherapy (ISTDP). ISTDP is modality with a strong neuroscience rationale and empirical evidence base supporting its effectiveness. Dr Russell has recently joined Recognition Health and is working with Dr Alder to enhance our clinical offering for this patient group and extend research into the mechanisms by which this treatment modality creates improvements for patients.

Recent publications:

Alder, S and MacSweeney, E. Recent developments in Neuro-Imaging for Traumatic Brain Injury. Journal of Personal Injury Law (in Press)

Russell, L., Abbass, A., Alder, S A Review of the Treatment of Functional Neurological Disorder with Intensive Short-term Dynamic Psychotherapy (ISTDP). Archives of Medical Psychology (submitted)

Alder S, Post Traumatic Pain – A Neurological Perspective. Pain News (in press)

Bigler & Alder Traumatic Brain Injury, Neural Networks and Neuroimaging: Practical Approaches for the Neurorehabilitation Clinician. NeuroRehabilitation (in press)

Bigler, E. D., & Alder, S. (2021). Neuroimaging in functional outcome. N.Y.: Springer.

Hall M, Alder S and Furlong P. Resting state and task induced oscillations in chronic post-concussion syndrome: A pilot study. 21st International Conference on Biomagnetism (BIOMAG), Philadelphia, PA, USA, August 26-30, 2018

Russell, L., Abbass, A., Alder, S. and Noborsky, R., Applying intensive short-term dynamic psychotherapy to the treatment of medically unexplained symptoms: integrating theories of cause and theories of change, Archives of Medical Psychology, August 2017 (Volume 9, Issue 1), 1-24.

Russell, L.A., Abbass, A.A., Alder, S.J., A pilot study of reduction in healthcare costs following the application of intensive short-term dynamic psychotherapy for psychogenic nonepileptic seizures, Epilepsy & Behaviour 63 (2016) 17-19.



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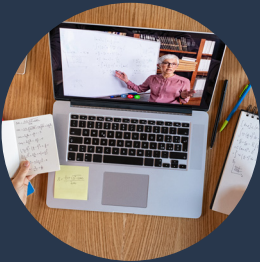


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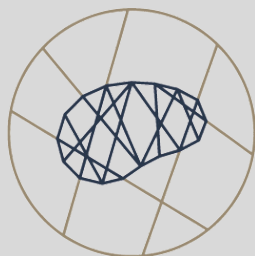


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