

ABOUT US

The NIHR Brain Injury Healthcare Technology Co-operative (HTC)

The NIHR Brain injury HTC (www.brainhtc.org) forms one component of eight NIHR HTCs across the country offering collaboration with patients, carers, NHS, charities, academia, inventors, SME's, business angels and medtech companies. The HTCs catalyse innovation in clinical areas or themes of unmet needs for NHS patients and healthcare technology users.

The NIHR Brain Injury HTC aims to

- Find: Identify areas of unmet need throughout the brain injury pathway that might be amenable to a technology-based innovation.
- Facilitate: Promote the generation of innovative solutions through the facilitation of interdisciplinary communication and collaboration between the NHS, academia, industry and public organisations.
- Foster: Support the translational pathway of viable solutions from initial concept to successful market adoption and sustainable clinical impact.

FIND

Identification of unmet need

Review and Prioritisation

FACILITATE

Catalyse early Proof of Concept

Catalyse early R&D

FOSTER

Growth

Evaluation

Handover, dissemination and early adoption

THE CARE PATHWAY

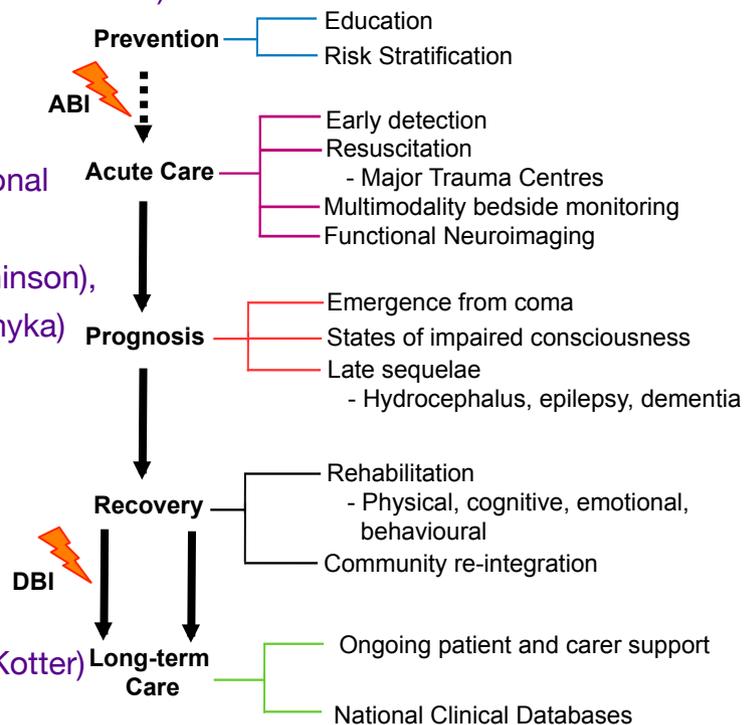
There are over 0.5 million head injuries in the UK of which some 24,000 are moderate or severe, leading to a range of disabilities including complete dependency and the vegetative state. Even mild injuries may result in significant cognitive and emotional disability with implications for return to work and family harmony. Head injury in childhood is associated with an increased risk of psychopathology, emotional lability, apathy, and criminality in adulthood. Traumatic Brain Injury is not well served by major R&D orientated charities.

The UK has had a major leadership role worldwide in the study of the management of brain injury to which the HTC contributes by catalysing the translation of new technologies and take-up internationally, in part through the many Clinicians and Scientists within its network. The collaborative environment established by the HTC promotes growth of the UK economy through new industrial opportunities and rapid market entry for innovative products within the NHS.

NATIONALLY SUPPORTED WORKSTREAMS

The NIHR Brain Injury HTC provides a 'go-to' centre of expertise for understanding care pathways

- Patient and Public Involvement (Professor Christi Deaton)
- Primary Prevention (Professor Mark Wilson)
- Perinatal and Paediatrics (Professor Topun Austin & Professor David Rowitch)
- Acute care (Professor David Menon) & Functional Neuroimaging (Professor Franklin Aigbirhio)
- Multimodal Monitoring (Professor Peter Hutchinson), Intracranial Dynamics (Professor Marek Czosnyka) and Neuro-Oncology (Dr Stephen Price)
- Neurorehabilitation (Professor Val Pomeroy) & Medical Device Development (Dr Peter Jarritt)
- Cognition (Professor Barbara Sahakian & Dr Andrew Bateman) & Neurodevelopmental Disorders (Dr Howard Ring)
- Stem Cells and Neurodegeneration (Dr Mark Kotter)
- Clinical Informatics (Dr Alexis Joannides)



THE TEAM

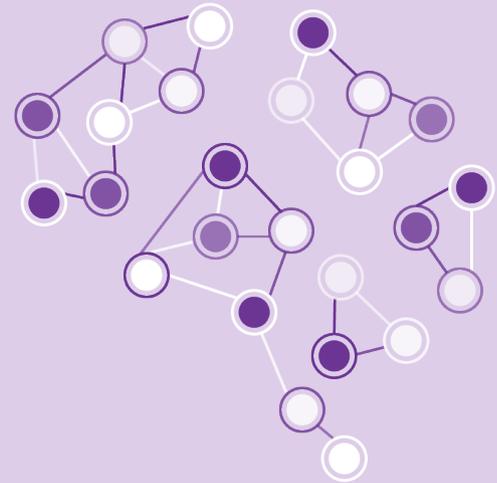
Honorary Director – Professor John Pickard
Emeritus Professor of Neurosurgery

Deputy Director – Dr Peter Jarritt
Formerly Director of Medical Physics and Engineering

Programme Advisor – Dr Alexis Joannides

Programme Manager – Ms Mita Brahmbhatt

Programme Coordinator – Ms Talissa Gasser



PATIENT INSPIRED INNOVATION

The NIHR Brain Injury HTC has initiated implementation of the ‘Public Empowerment through Patient Inspired Innovation’ vision and is committed to engaging patients and carers throughout its work programme.

We believe strongly that research should focus on questions that are important to people with brain injuries, and those who care for them. To ensure that patients and carers have a voice, we invite people whose lives have been affected by a brain injury to get involved in our work.

Get involved in the work of the Brain Injury Healthcare Technology Co-operative!

If you are interested in the work of the NIHR Brain Injury HTC, we invite you to join our Register for Healthcare Involvement and Technology Evaluation (RHITE). Joining the register does not commit you to do anything. Periodically we will send you our newsletter and details of any opportunities there may be to take part in Brain Injury HTC activities. These may include:

- taking part in surveys
- taking part in workshops
- getting involved in other NIHR Brain Injury HTC activities and events

Register for Healthcare Involvement and Technology Evaluation (RHITE)

Patient, carer, healthcare professional and general public involvement and influence in the provision and improvement of healthcare services is paramount to make research and innovation more credible, effective and cost efficient.

The NIHR Brain Injury HTC has developed a volunteer register for patients, carers and anyone interested to assist in the advancement of healthcare technologies. By signing up to the register, you give us permission to invite you to take part in surveys, focus groups, workshops or other events, but being on the register does not commit you to anything.

How to join the Register

You can join the register online on: <https://orioncloud.org/rhite>

If you prefer to complete the registration form using either an electronic PDF or in hard copy, please contact us at involve@brainhtc.org and we will send you the form.

For more information and frequently asked questions about joining our register please visit: <https://brainhtc.org/rhite/>

Submit an unmet need

We invite anyone affected by a brain injury to submit their unmet needs to us. We want to know what is important to patients, carers and relatives as well as what is important to academics researchers and clinicians.

To submit an unmet need, please fill in the form on our website <https://brainhtc.org/surveys/> or contact us by email, phone or post; please find our details on the back of this brochure.

GET INVOLVED!



NIHR BRAIN INJURY HTC ACTIVITIES & EVENTS

Patients are involved in all HTC events. These include:

- **Brain Injury Technologies Think (BITT) Tank**

This series of events offers the opportunity for small to medium enterprises to gain an insight into research and clinical requirements and receive feedback from a panel of expert clinicians, academics, patients and carers.

A key driver of this event is the initiation of collaborations, both with and without the HTC, and building teams to harness the skills and expertise to deliver novel technological solutions for the brain injury patient pathway. Since 2014, the NIHR Brain Injury HTC has been running one pilot and two focussed BITT tanks in some of our priority areas, Technologies for Independent Living and Hyper-Acute Brain Injury Diagnosis and Management. Keep an eye on our 'events' page (<https://brainhtc.org/category/htc-events/>), where the next BITT tanks will be advertised.

- **Brain Injury Den (BID)**

A series of events similar to the well known 'Dragon's Den' but we are more friendly! Clinicians and academics present their medical devices to a panel of experts including industry and angel investors.

- **Roadmapping workshops**

Our roadmapping workshops offer an opportunity for patients, carers and families to feedback their invaluable expertise and unmet need from their experiences.

To date, the NIHR Brain Injury HTC has run nine roadmapping workshops to explore ways to improve outcomes across the patient journey, create outline ideas for future research and service development projects, and encourage wider collaboration between brain injury professionals, service providers and patients.

The key findings of those workshops have informed funding calls run internally by the NIHR Brain Injury HTC and externally by NHS England Small Business Research Initiative. All the findings are available on our website: <https://brainhtc.org/library/>

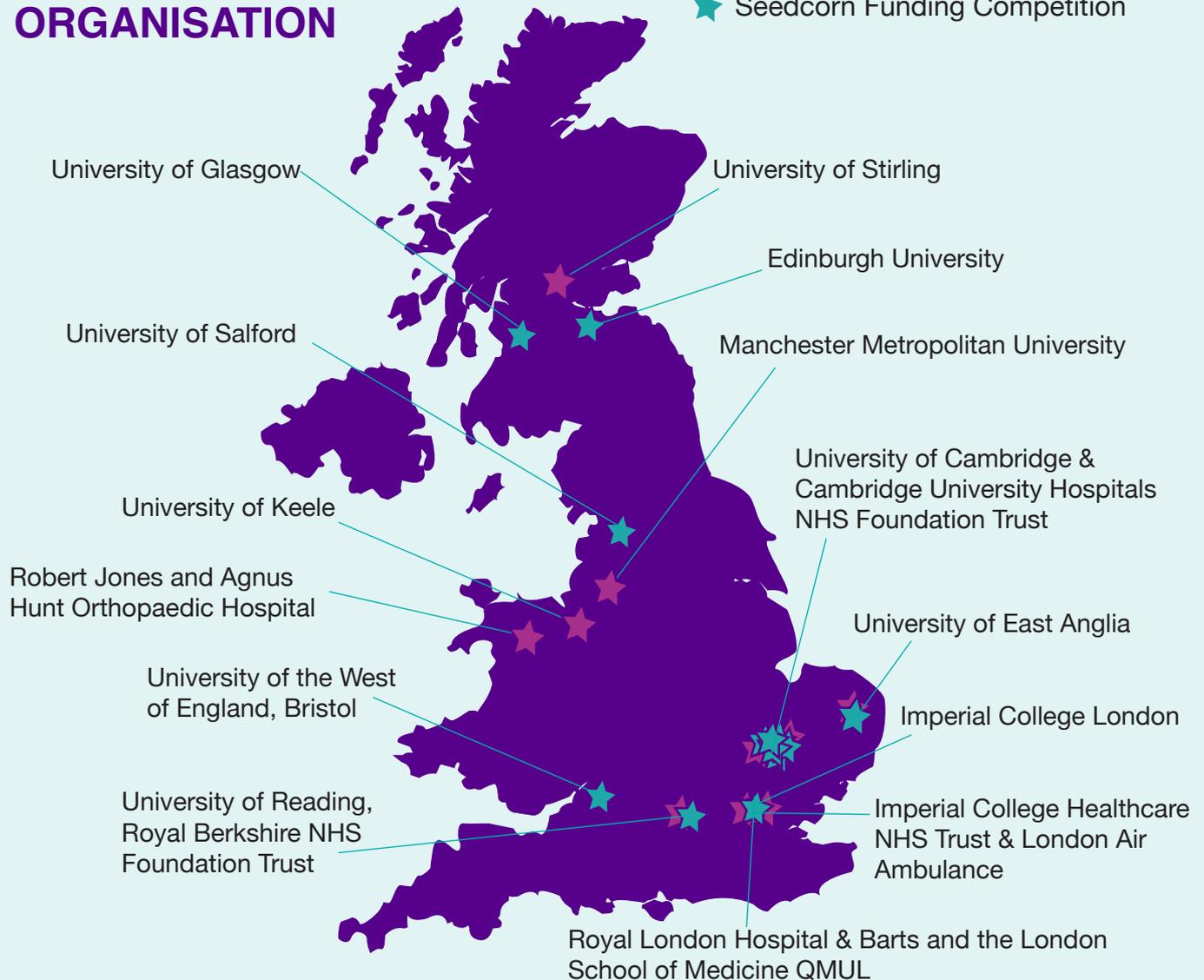
- **Competitions**

The NIHR Brain Injury HTC has run two seedcorn funding competitions for the early development of novel technology-based solutions applicable to the brain injury pathway, from prevention of injury all the way through to technologies for independent living. The Brain Injury HTC's involvement has leveraged over £3M from other sources including NIHR i4i, NIHR Clinician Scientist Award and SBRI.

A NATIONAL ORGANISATION

★ Innovations Small Funding Competition

★ Seedcorn Funding Competition



The NIHR Brain Injury HTC ‘Innovations Small Funding Competition 2014-15’ and the ‘Seedcorn Funding Competition 2016-17’ have seed funded 22 national projects that address the unmet needs that have been identified through the various methodologies with a ‘Strategic Roadmapping’ programme explored by the Brain Injury HTC.

Contact

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