

Enabling HealthTech through the NIHR - demystifying the process

In collaboration with the CW Healthcare SIG

Friday 14th July 2023

Sponsored by NIHR and NIHR Brain Injury MedTech Co-operative

This SIG is championed by Peter Ferguson, Daniel Nickalls of **TTP**, Siddhi Trivedi of **Beyond Identity**, Laurence Weir of **Plextek**

Venue: The Nucleus, Chesterford Research Park, Little Chesterford, Cambridge CB10 1XL

AGENDA

09:30 Registration and networking

10:30 CW welcome and introduction to Healthcare SIG

10:35 **Session to be chaired by Laurence Weir, Healthcare SIG Champion**

Session 1: Overview – NIHR and the Innovation Landscape

How can NIHR help you?

Dr Ian Newington, Assistant Director, Innovations, NIHR (National Institute for Health and Care Research) Commissioning Centre

10:55 Case study: CORTIRIO – The Journey to NIHR i4i Product Development Award

Patrick Beldon, CEO & Co-Founder

11:05 Case study: Help to Run a Clinical Trial

Heather Phillips, Research Delivery Manager (Industry), CRN East of England Core Team, NIHR Clinical Research Network (CRN)

11:15 Q&A

11:30 Aligning Patient Needs with Scalable Technology Solutions

Professor Peter Hutchinson, Honorary Director of NIHR Brain Injury MedTech Co-operative

11:45 Your local NIHR services - 90 second pitches from East of England NIHR Infrastructure including:

1. NIHR Cambridge Biomedical Research Centre
2. NIHR Brain Injury MIC
3. NIHR East of England Research Design Service
4. NIHR East of England Applied Research Centre
5. NIHR East of England Clinical Research Network
6. Eastern Academic Health Science Network
7. Health Tech Enterprise

11:55 Morning wrap-up and introduction to breakout sessions

Professor Peter Hutchinson, Honorary Director of NIHR Brain Injury MedTech Co-operative

12:00 Refreshments and Networking

12:30 **Session to be chaired by Professor Peter Hutchinson**

Session 2: Interactive Zone - Breakouts and 121s (booking required)

Breakout session 1. Choose the right session for you:

- Sources of funding – NIHR Innovation
- Access to experts – NIHR Expertise Partnering Service
- Running your clinical trial – NIHR Clinical Research Network
- Route to commercialisation – Health Tech Enterprise & Eastern Academic Health Sciences Network

13:00 Breakout session 2. Choose the right session for you:

- Sources of funding – NIHR Innovation
- Access to experts – NIHR Expertise Partnering Service
- Running your clinical trial – NIHR Clinical Research Network
- Route to commercialisation – Health Tech Enterprise & Eastern Academic Health Sciences Network

13:30 Lunch and networking**14:00 121 sessions – your opportunity to find out what you want to know from:**

1. NIHR Innovations (including i4i)
2. NHS England Small Business Research Initiative (SBRI)
3. NIHR Expertise Partnering Service
4. NIHR Cambridge Biomedical Research Centre
5. NIHR Brain Injury MIC
6. NIHR EoE Research Design Service
7. NIHR EoE Applied Research Centre
8. NIHR EoE Clinical Research Network
9. Eastern Academic Health Science Network
10. Health Tech Enterprise

15:30 Event close

Profile of organisers

Cambridge Wireless (CW)

CW is the leading international community for companies involved in the research, development and application of wireless and mobile, internet, semiconductor and software technologies. With over 400 members from major network operators and device manufacturers to innovative start-ups and universities, CW stimulates debate and collaboration, harnesses and shares knowledge, and helps to build connections between academia and industry. CW's 19 Special Interest Groups (SIGs) provide its members with a dynamic forum where they can network with their peers, track the latest technology trends and business developments and position their organisations in key market sectors. CW also organises major conferences and start-up competitions along with other high-quality industry networking events and dinners. With headquarters at the heart of Cambridge, UK, CW partners with other international industry clusters and organisations to extend its reach and remain at the forefront of global developments and business opportunities. www.cambridgewireless.co.uk

Profile of sponsors

NIHR (National Institute for Health and Care Research)

The NIHR funds, enables and delivers world-leading health and social care research that improves people's health and wellbeing, and promotes economic growth. We translate discoveries into practical products, treatments, devices and procedures. We are a publicly funded body managed by the Department of Health & Social Care. We invest approximately £1.3 billion annually into the most integrated clinical research system in the world, driving research from bench to bedside for the benefit of patients and the economy. www.nihr.ac.uk

NIHR Brain Injury MedTech Co-operative

The NIHR Brain Injury MedTech Co-operative provides a “go-to” centre of expertise for understanding the Acquired or Traumatic Brain injury care pathway and for the development of medical technologies to support prevention and improving patient outcomes.

The NIHR Brain Injury MedTech Co-operative aims to:

- **Find:** Identify areas of unmet need throughout the brain injury pathways that might be amenable of 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

The NIHR Brain Injury MedTech Co-operative is one of the eleven MedTech Co-operative and In Vitro Diagnostic (MICs) funded by the NIHR across the country. The MICs facilitate collaboration with patients, carers, NHS, charities, academia, inventors, SMEs, business angels and medtech companies. The MICs catalyse innovation in clinical areas of unmet needs for NHS patients and is committed to develop new concepts, demonstrate proof of principle and devise research protocols for medical devices, healthcare technologies and technology dependent interventions. The NIHR Brain Injury MIC will build on the significant achievement of the NIHR Brain Injury Healthcare Technology Co-operative (HTC), 2013-2018. The MICs are here to support SMEs/start-up to access the wider NIHR, get in touch directly to find out more. www.brainmic.nihr.ac.uk/

Profile of SIG Champions

Peter Ferguson

Updated profile to follow

Daniel Nickalls, TTP

Daniel is a TTP project leader focussed on decentralized healthcare solutions including the detection and treatment of chronic conditions at home. These projects cover the entire development lifecycle, from early-stage ideation and opportunity validation, through proof-of-concept development, to regulated device development for large-scale manufacture. Daniel particularly enjoys combining engineering insights, rigorous human-centred design and thorough business case validation to realise effective solutions. www.ttp.com

Siddhi Trivedi, Beyond Identity

Siddhi's ambition is to build an inclusive community with a focus on social innovation through the intersection between emerging technologies and creative minds. Siddhi specialises in strategic, operational and technology-enabled business transformation. She founded Beyond Identity, to implement digital tools through the application of IOT, AI and blockchain enabled solutions. She has deep insight into developing apps and platforms, and regularly speaks about innovations within the healthcare sector at international conferences. Since the advent of COVID-19, she has been working with medical clinicians within Oxfordshire to develop an app to empower patients to manage their health. She is a healthcare SIG champion for Cambridge Wireless and a lead organiser for Tech London Advocates Blockchain Group a think tank and repository for knowledge sharing and to position London as a global leader in blockchain advocacy. As a champion for women and girls in tech, Siddhi founded project BIBA, a platform designed to connect girls and women with live projects with tech companies who are keen to bridge the gender gap in their organisations. This project has been supported and born out London Tech week in September 2020 and will officially launch at London Tech Week in September 2021. www.beyondidentity.io

Laurence Weir, Plextek

Laurence Weir is the Head of Business Development for Biomedical Projects at Plextek Services Ltd. Since graduating in Engineering from Cambridge University in 2006, Laurence has worked for Broadcom, Cambridge Mechatronics, Illumina and PA Consulting, and has now been at Plextek for 3 years. Due to the range of sectors Laurence has worked in, from smartphone technology to DNA sequencing, he has a wide appreciation for the different skills and expertise required to deliver multi-disciplinary engineering projects, as well as the applicable regulatory environments that exist. His role in business development is coupled with technology leadership on projects and practical engineering delivery. www.plextek.com

Profile of speakers

Patrick Beldon, CEO & Co-Founder

Profile to follow

www.cortirio.com

Professor Peter Hutchinson, Honorary Director of NIHR Brain Injury MedTech Co-operative

Peter Hutchinson BSc (Hons), MBBS, PhD (Cantab), FRCS (Surg Neurol), FMedSci, is Professor of Neurosurgery, NIHR Research Professor and Head of the Division of Academic Neurosurgery within the Department of Clinical Neurosciences, University of Cambridge. He is Director of Clinical Studies at Robinson College, Cambridge. He holds an Honorary Consultant Neurosurgeon post at Addenbrooke's Hospital with a sub-specialist interest in the management of neuro-trauma, specifically head and traumatic brain injury. He has a research interest in acute brain injury, utilising multimodality monitoring technology (measurement of pressure, oxygenation and chemistry) to increase the understanding of the pathophysiology of brain injury, and in the investigation and treatment of concussion. He also leads the international RESCUE studies evaluating the role of decompressive craniectomy in traumatic brain injury.

He was awarded the Olivecrona Prize (the "Nobel Prize for Neurosurgery") for his work on cerebral metabolism in acute brain injury. He has co-authored over 400 publications (including NEJM, Lancet and Brain) and been lead applicant in over £10m of research grants (including MRC and NIHR). He is joint editor of the book "Head Injury – A Multidisciplinary Approach" and the Oxford Textbook of Neurological Surgery, the first edition of which is currently in preparation. He is also President of Clinical Neurosciences Section of the Royal Society of Medicine, Royal College of Surgeons Neurosurgical Specialty lead for clinical trials, Chair of the Academic Committee of the Society of British Neurological Surgeons, Secretary of the European Association of Neurosurgical Societies, Treasurer of the International Neurotrauma Society, Neurosurgical Representative on the NICE head guidelines development group and Chief Medical Officer for the Formula One British Grand Prix. www.brainmic.nihr.ac.uk/

Ian Newington, Assistant Director, Innovations, NIHR (National Institute for Health and Care Research) Commissioning Centre

Having led the i4i Programme Team until July, Ian now heads up Special Projects and medtech SME engagement in the CCF Innovations team. He also manages a portfolio of funded projects across i4i and Health Innovation Challenge Fund (HICF) and the contract for the NIHR Innovation Observatory. Prior to this, a DPhil (Oxon) in chemistry led to Ian joining Kodak Ltd, becoming a Principal Scientist in the European R&D labs, followed by 9 years at GE Healthcare Life Sciences, Imaging R&D, leading the Discovery portfolio for molecular imaging in neurodegenerative disease. Ian is a (co-)inventor on 38 patent applications. www.nihr.ac.uk

Heather Phillips, Research Delivery Manager (Industry), CRN East of England Core Team, NIHR Clinical Research Network (CRN)

Profile to follow

www.nihr.ac.uk