

HIPS/25/14 - Enhancing Rehabilitation Engagement for people with Acquired Brain Injury (ABI): Co-Design and Pilot trial of an intervention using the Neumind platform

People with acquired brain injury (ABI) - damage to the brain caused by events such as trauma, stroke, or illness any time after birth - often face cognitive challenges with concentration, memory, planning, and completing tasks. These can be complicated further by fatigue, physical disability and health co-morbidities. Each person with ABI will have different difficulties and need personalised care.

Currently, rehabilitation relies on outdated tools (e.g. paper-based methods, unsuitable technologies). There is often limited caregiver involvement and poor communication within and across teams, undermining the consistency and effectiveness of interventions. It can be especially difficult for people with ABI to apply rehabilitation strategies in their everyday life. Despite the promise of digital technology, its integration in rehabilitation is challenging, as it requires engagement from patients, caregivers, and clinicians, must fit within complex healthcare systems, and must be adaptable to individual needs.

Neumind is a digital platform co-designed with people with ABI and clinicians. Its features include external memory aids, task reminders, and goal tracking, and it enables caregivers and professionals to design and reinforce strategies across acute, community, and home settings, improving continuity of care.

We will work with patients, carers and clinicians to integrate Neumind into rehabilitation services. An 11-month co-design phase will refine how Neumind supports goal-setting, communication, and training. Then, a 19-month pilot trial will determine the feasibility of implementing Neumind in practice and evaluating it in a larger-scale trial. Our ultimate goal is to refine and scale the intervention for adoption across Scotland and beyond.