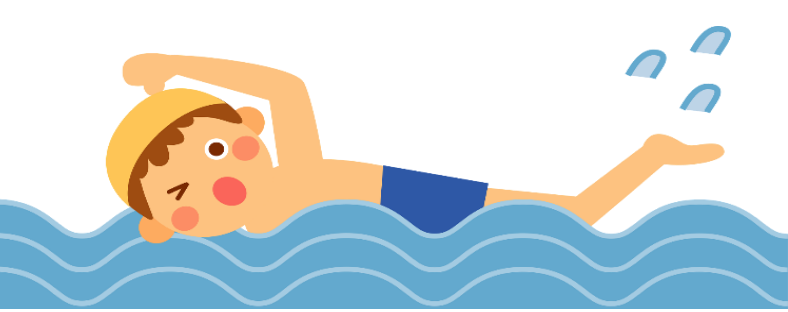


Introduction: The Innowalk Pro 2 (Made for Movement), an innovative robotic dynamic standing device enabling cycling movements in a weight bearing position, comparable to walking (1). Research focuses on Cerebral Palsy, showing improvements in quality of life, physical & mental health (2,3,4).

Patient 1: Background - 41-year-old male, history of a large right hemisphere Intracranial haemorrhage (basal ganglia/thalamus/occipital horns), with ventricular extension & hydrocephalus. Admitted to stroke rehabilitation 14 days post neurological insult.

Impairments	Activity & Participation
Left Hemiplegia & atrophy Fatigue Spasticity: Left lower limb/frog leg position Left Sensory, proprioceptive & visual deficits Altered perception of midline Left facial palsy Fractured clavicle/T1 TP (Transverse Process) Poor attention/impulsive	- Hoist transfer. Poor posture, struggling to maintain dynamic sitting balance, requiring supportive seating. Impacting eating, mood & willingness to sit out. Pain - Poor positioning in bed, impacting sleep - Affecting transfers & functional task practice - Altered communication & ability to eat orally - Pain impacting engagement - Impacting functional task practice



Patient's Long Term Goals
1- To walk from bed/chair to the bathroom independently +/- walking aid
2- To use Left upper limb in function, open wrappers & bottle lids independently

Due to an avid interest in cycling and impairments, the team, patient & family were keen to trial the Innowalk Pro 2 as part of the patient's rehabilitation programme

Patient 2: Background - 85-year-old female, history of right frontal & basal ganglia infarctions. Admitted to stroke rehabilitation 7 days post neurological insult.

Impairments	Activity & Participation
Left Hemiparesis & atrophy Fatigue Increased tone Left upper limb Left Sensory, proprioceptive & visual deficits Altered perception of midline Reduced attention/processing	- Hoist transfer. Poor posture, struggling to maintain sitting balance, requiring supportive seating. Pain. Functional task practice impacted - Poor positioning in bed, poor sleep quality reflecting on ability to engage in rehabilitation - Affecting transfers, repositioning & participation in washing & dressing practice



Patient's Long Term Goals
1- To be able to take x3 steps with assistance of 2
2- To use Left upper limb to apply face cream & hold a cup/drink
3- To perform activities of her own volition

Due to hobbies and impairments, the team & the patient were willing to trial the Innowalk Pro 2 as part of the patient's rehabilitation programme

Aim: To evaluate the impact of the Innowalk on hemiplegia, achievement of functional & impairment-based outcome measures, & attainment of patient orientated goals

