Augmented reflection technology for stroke rehabilitation – a clinical feasibility study

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ABSTRACT

This paper presents a clinical feasibility study of a novel Augmented Reflection Technology system, called TheraMem. The feasibility of the system for physical rehabilitation of the upper limb and the potential to improve motor impairments following stroke were evaluated. Five patients participated in a total of 20 sessions of upper limb training with the system. Tailored support for patients performing the exercises was provided based on the severity and level of their impairment. Various configurations of the system were evaluated and adjusted to best match the patient's preferences as well as the therapeutic requirements. We found that all patients were able to successfully participate and complete the TheraMem intervention. Patients' engagement and motivation was high over the course of the therapy sessions.

Full papers will be published in the Conference Proceeding s and will be available to delegates at the conference on Sept. 10.

Full papers will be released on-line in the ICDVRAT archive on March 15.