

Longitudinal study of integrative virtual rehabilitation use in skilled nursing facility maintenance programs for residents with chronic stroke

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ABSTRACT

The objective of this 45-week longitudinal controlled study was to examine the effects of integrative virtual rehabilitation with BrightArm Duo System for the maintenance of elderly skilled nursing facility residents with chronic stroke. The experimental group trained intensely for 8-weeks followed by 3 booster periods at 8-week intervals. The sessions were supervised by an occupational therapist. The control (n=3) and experimental (n=7) groups both received standard-of-care maintenance. The improvement for the experimental group was significantly better than the controls in standardized assessments of UE range of motion ($p=0.04$), strength, and function ($p=0.035$), and for cognition and emotion ($p=0.0006$).

Full papers will be published in the Conference Proceedings and will be freely available to delegates at the conference and online on September 20, 2016.