Trudy Pelton

Research Associate

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About

Trudy is a qualified physiotherapist with specialist clinical and research experience in neuro-rehabilitation.

Qualifications

BA (Hons) Sports Science
BSc (Hons) Physiotherapy
MRes Cognitive Neuropsychology and Rehabilitation

Teaching

Trudy qualified as a Physiotherapist from Sheffield Hallam University in 2001. She started her clinical career at Queens Medical Centre, Nottingham before moving to University Hospital Birmingham where she specialized in neurorehabilitation for 7 years. She has subsequently worked at Birmingham University in research principally involving stroke rehabilitation and is soon to complete her PhD.

Research

Research interests

She is particularly interested in research which may serve as a basis for designing more refined therapy treatment strategies after stroke. Her ongoing PhD was funded by The Stroke Association and used kinematic analysis of reach and grasp to help identify specific motor control deficits following cortical and sub-cortical stroke. She is currently funded by an NIHR RfPB grant examining the feasibility and potential benefit of using Visual Cue Training to Improve Walking and Turning After Stroke.

Other activities

Member Health Professions Council, Chartered Society of Physiotherapists, Society for Research in Rehabilitation and Committee Secretary for West Midlands Association of Chartered Physiotherapists in Neurology

Publications

Van Vliet, PM., Pelton, TA., Carey, LM., Hollands, KL., & Wing, A.M. (submitted). Neuroscience findings on coordination of reaching to grasp an object- implications for research. Neurorehabilitation and Neural Repair.

Pelton, TA, van Vliet, PM. & Hollands, KL. (2012). Interventions for improving coordination of reach to grasp following stroke: A Systematic Review. Int. J. Evid. Based Healthcare. Jun: 10(2);89-102

Hollands KL, Pelton TA, Tyson SF, Hollands MA, van Vliet PM. (2012) Interventions for coordination of walking following stroke: systematic review. Gait Posture Mar;35(3):349-59.

Pelton, TA., van Vliet, PM & Hollands, KL.(2011) Interventions for improving coordination of reach to grasp following stroke: Systematic Review. Joanna Briggs Institute: Database of Systematic Reviews.22 Jun; 9(29):1226-1270.

Pelton, TA, Johannsen, L, Chen, H, & Wing, AM. (2010) Hemiparetic stepping to the beat: Asymmetric response to metronome phase shift during treadmill gait. Neurorehabilitation and Neural Repair 24:5:428-434.

Johannsen, L., Wing, AM., Pelton, TA., Kitaka, K., Zietz, D., van Vliet, PM., Riddoch, J., Sackley,C. McManus, R. (2010) Seated bilateral leg exercise effects on hemiparetic lower extremity function in chronic stroke. Neurorehabilitation and neural repair, 24 (3) 243-253, 2010.

Johannsen, L., Wing, AM., Pelton, TA., Brittle, N., Kitaka, K., Zietz, D., van Vliet, PM, Riddoch, J., Sackley, C. McManus, R. (2008) Bilateral limb movement exercise in chronic hemiparetic stroke patients: a phase II randomized controlled trial. Clinical Rehabil 22;856

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