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PD REHAB: A large pragmatic randomised controlled trial of physiotherapy and occupational therapy versus no therapy in mild to moderate Parkinson's disease

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Objective:

To evaluate the clinical and cost-effectiveness of combined National Health Service (NHS) occupational therapy (OT) and physiotherapy (PT) for Parkinson's disease (PD) versus no therapy.

Background:

A Cochrane review found small benefits in motor function following PT in PD, but these did not translate into changes in quality of life (QoL). A Cochrane review of OT in PD found only two trials; these had inadequate data to reach any conclusions on efficacy. Further larger randomised controlled trials are needed.

Methods:

PD patients at 38 neurology and geriatric outpatients with limitations in activities of daily living (ADL) were eligible to be randomised to PT+OT or no therapy. Therapy incorporated an individual assessment and goal setting approach. The primary outcome was instrumental ADL measured using the Nottingham Extended Activities of Daily Living (NEADL) scale at 3 months post-randomisation. Secondary outcomes were: health-related QoL (Parkinson's disease Questionnaire-39, EuroQoL EQ-

5D), adverse events, and carer QoL (Short Form-12). Outcomes were assessed before randomisation and at 3, 9 and 15 months post-randomisation, using t-tests.

Results:

762 patients with mild to moderate PD were randomised to receive PT+OT (N=381) or no therapy (N=381). Contact time with therapists averaged 4 visits of 55 minutes each over 8 weeks. At 3 months, there was no difference in NEADL total score or PDQ-39 summary index between groups (Table 1). EuroQoL EQ-5D quotient was of borderline significance in favour of therapy. There was no difference in carer SF-12 physical component score, but less decline in carer SF-12 mental component score in the PT+OT arm. Sub-group analyses found no evidence of trends towards a therapy effect according to age, baseline NEADL score or disease severity.

Summary of Patient and Carer QoL Scores		
Outcome	Mean Difference (95% CI)	p-value
NEADL Total Score	0.5 (-0.7 to 1.7)	0.4
PDQ-39 Summary Index	0.007 (-1.5 to 1.5)	1.0
EuroQoL EQ-5D	-0.03 (-0.07 to -0.002)	0.04
SF-12: Physical Component Score	-0.6 (-2.3 to 1.2)	0.5
SF-12: Mental Component Score	-2.1 (-3.9 to -0.3)	0.02
Negative differences favour PT+OT arm, positive differences favour no therapy arm		

Conclusions:

PT+OT as currently practised in the NHS produced no beneficial effects on ADL or QoL in mild to moderate PD. Further work is required to: (1) establish whether existing NHS PT+OT is effective in more advanced PD and (2) identify, develop and evaluate alternative approaches. Alternative approaches could include different intensities as well as techniques or indeed, modes of delivery.

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