Additional file 4. Inter-rater reliability, and fidelity of core components and Behaviour Change Techniques delivered across all GREAT Intervention sessions

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| GREAT Session  | Sessions rated  | Inter rater agreement  | Percentage agreement | Weighted Kappa Coefficient | % of BCTs delivered with ≥80% fidelity  | BCTs delivered with ≥80% fidelity | % of core components delivered with ≥80% fidelity  | Core components with >80% fidelity |
| **Session 1***6 core components* *17 BCTs*  |  22/ 28 | 432/506  | 85 % | Kw = 0.67, p < .001, 95% CI = [.60-.74] |  32%7/17  | Information about health consequencesDemonstration of the behaviourInstruction on how to perform behaviourBehavioural practice/rehearsalFeedback on behaviourGoal Setting (behaviour)Action planning | 100%6/6 | Gives a short overview of the GREAT interventionConducts a brief clinical assessment Conducts Psychological assessment using MICompletes worksheets from support bookletGives patient DVD and manualConfirms appointment for session 2 |
| **Session 2***4 core components* *12 BCTs*  |  14/15 | 194/224 | 87% | Kw = 0.73 p < .001, 95% CI = [.64 -.82] | 28%4/12  | Review behavioural goal Feedback on behaviour Behavioural practice/rehearsalAction planning  | 75%3/4 | Reviews progress on gait circuitChecks gait circuit progression Completes/ reviews worksheets from patient support bookletPlans for self-management  |
| **Session 3***4 core components* *12 BCTs*  | 10/11 | 136/160  | 86% | Kw = 0.79p < .001, 95% CI = [.71-.88] | 20%2/12 | Verbal persuasion about capabilityReview behavioural goal  | 75%3/4 | Reviews progress on gait circuitPlans for self-management  |
| **Session 4***4 core components* *12 BCTs*  | 7/8 | 98/112 | 88% | Kw = 0.93., p <.001 95% CI = [.83-.1.02] | 0/12 |  |  | Reviews progress of gait circuitCompletes/ and or reviews the worksheet from the patient support booklet Signposts to local walking groups  |
| **Session 5***4 core components* *12 BCTs*  | 1/1 | 9/16 | 56% | Kw = 0.75., p <0.05 95% CI = [.36 - 1.14] | 50%6/12 | Verbal persuasion about capability Reviews behavioural goal Problem solvingSocial support (unspecified)Goal setting (behaviour)Action planning  | 50% 2/4 | Reviews progress on gait circuitChecks gait circuit progression  |
| **Session 6** *5 core components* *12 BCTs*  | 1/1 |  11/17 | 65% | Kw = 0.78., p <0.0595% CI = [.46-1.12) | 20%2/12  | Verbal persuasion about capability Reviews behavioural goal  | 50&2/4 | Reviews progress of gait circuitChecks gait circuit progression |