

Format of data reporting across studies varied widely.

Under "Control group" and "Intervention group" columns, data are presented for baseline; post-intervention; follow up values (if available), or the change ( $\Delta$ ) between respective time points if actual values are not presented. It should be noted that in some studies samples are different for pre-post and post-follow up comparisons .

Data are presented as group mean  $\pm$  SD or mean (95% CI), unless otherwise stated. P-values for within group changes are indicated when available, or non-significant changes not accompanied by p-value are indicated with NS.

Values not reported are indicated as not available (NA).

“Intervention effectiveness” represents the group x time interaction.

To ensure clarity and consistency, any data reported for mid-intervention or mid-follow up time points are not included.

**FITNESS**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number (completed)	Outcomes	Intervention group	Control group	Intervention effectiveness
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**RCTs with wheelchair users**

Jansen, et al. (2013)	Cycling: arm and peddle (24 weeks; 24 weeks)	I: 17 C: 13	6-min arm cycle test (revs)	403.0 ± 111.7; 444.4 ± 107.6; 494.8 ± 103.6	351.5 ± 110.7; 349.9 ± 131.9; NA	pre-post: Δ (95%CI) = 13.8 (-60.7 - 88.3). p=0.697. post-follow up: Δ= 7.6. P = 0.71
			6-min leg cycle test (revs)	434.7 ± 164.8; 442.0 ± 124.3; 447.3 ± 91.7	405.4 ± 113.2; 415.2 ± 158.3; NA	pre-post: Δ (95%CI) = 5.6 (-56.2 - 67.3). P=0.848. Post-follow up: Δ= -30.7. P = 0.06

Van Den Berg-Emons, R. J., et al 1998	Sport/games-based aerobic.(4 times per week participation in the training programme) (9 months; 3 months)	I : 10, C: 10	Peak aerobic power	0.91 ± 0.83 ; 1.23 ± 0.80 ; 1.02 ± 0.76. pre-post: p < 0.01; post-follow up: p=0.01	1.11 ± 0.96 ; 1.17 ± 0.94 ; 1.15 ± 0.88. NS	Pre-post: p=0.05
			Anaerobic peak power using pedal or hand bike (W/kg ffm)	2.16 ± 1.94 ; 2.48 ± 1.94 ; 2.41 ± 1.83. pre-post p=0.06	2.35 ± 1.75 ; 2.60 ± 1.86 ; 2.55 ± 1.89	NS
	Sport/games-based aerobic. (2 times per week participation in the training programme) (9 months)	I: 9, C: 9	Peak aerobic power	0.97 ± 0.77; 1.16 ± 0.83. pre-post; p < 0.01	1.11 ± 0.96 ; 1.17 ± 0.94. NS	p=0.17
			Anaerobic peak power using pedal or hand bike (W/kg ffm)	2.32 ± 1.89; 2.67 ± 2.07. pre-post p=0.06	2.35 ± 1.75 ; 2.60 ± 1.86	NS

**Non-RCTs with wheelchair users**

Andrade, C., et al 1991	Complex programme: PRT and cardiovascular exercise, inc psychosocial (10 weeks)	I : 7, C: 5	9-min run distance (m)	683 ± 330 ; 887 ± 322 p = 0.025	844 ± 362 ; 752 ± 171. p = 0.40	p < 0.10
			9-min run mean heart rate (beats/min)	152 ± 26 ; 149 ± 18. p < 0.40	158 ± 14 ; 160 ± 10. p < 0.40	p > 0.40

Unnithan, V.B., 2007	Complex programme (PRT and walking) (12 weeks)	I : 7, C: 6	VO2 Peak max (L-min-1)	1.0 ± 0.24; 1.2 ± 0.30. p < 0.05	0.93 ± 0.21 ; 0.96 ± 0.20. NS	p < 0.05
			HR peak max (BPM)	146.0 ± 20.4; 149.0 ± 22.5. NS	152.0 ± 12.5; 154.0 ± 10.8. NS	NS - no actual p value reported.
			VE (L-min-1)	29.3 ± 6.84 ; 36.6 ± 11.76. p < 0.05	29.1 ± 5.08 ; 29.1 ± 4.55. NS	p < 0.05
			La (mM)	4.70 ± 1.7 ; 4.41 ± 1.13. NS	5.03 ± 1.98 ; 5.12 ± 1.92. NS	NS - no actual p value reported.

**RCT with population with undefined wheelchair use**

DeGroot, J.F., 2011	Walking (treadmill) (12 weeks)	I:18,C:14	Six minute walk distance (m)	344.8 ± 125.3, Δ = 38.7 ± 34.6, p < 0.05	372.1 ± 116.5, Δ = -2.1 ± 27.8, NS	p = 0.002, d = 1.08
			VO2 Peak	baseline = 32.3 ± 7.1, Δ = 1.4 ± 3.7, NS	baseline = 33.4 ± 11.0, Δ = -3.0 ± 7.5, NS	p = 0.034, d = 0.78

Maher, C.A., 2010	Internet-based education (10 weeks; 10 weeks)	I:20, C:41	Six minute walk test	464.3 ± 94.6; 454.7 ± 91.7; 445.3 ± 100.5	451.7 ± 107.9; 453.2 ± 108.8; 461.1 ± 108.1	Pre-Post: p = 0.52 F = 0.4; Pre-follow-up: p = 0.36 F = 1.0
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Katz-Leurer, M., 2009	Functional exercises at home (6 weeks; 6 weeks for intervention group only)	I:8, C:10	Energy Expenditure Index (beats/min)	baseline = $5.8 \pm 2.1$ , $\Delta = 0.0 \pm 0.1$ ; $\Delta = 0.0 \pm 0.1$ , $p = 0.77$	$5.1 \pm 1.3$ , $\Delta = 0.0 \pm 0.1$	$p = 0.78$
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Verschuren, O., et al., 2007	Functional exercises (8 months)	I: 32 C: 33	Aerobic Capacity: level on 10m shuttle run test, min	$\Delta = 2.4 \pm 1.9$	$\Delta = -0.4 \pm 1.6$	$p < 0.001$
			Aerobic Capacity: mean power, W	$\Delta = 20.4 \pm 38.0$	$\Delta = -4.8 \pm 28.2$	$p = 0.004$

**non-RCT with population with undefined wheelchair use**

Crompton, J., et al 2007	PRT with functional exercises (plus upper body dexterity) (6 weeks; 6 weeks)	I: 6 C: 7		<b>Lower Limb</b>	<b>Upper Limb</b>	
			10 min walk distance	Median (25th;75th centile): 714 (621;871); 803 (676;836); 680 (602;836). Overall time effect: $p = 0.964$	Median (25th;75th centile): 677 (569;820); 698 (579;798); 670 (575;749). Overall time effect: $p = 0.401$	Pre-Post: $p=0.67$ $z=-0.43$ ; Pre-follow-up: $p=0.67$ $z=0.43$

Shinohara, T., 2002	Cycling peddle and arm: at anaerobic threshold. (leg $16.7 \pm 4.7$ , hand $12.7 \pm 6.3$ weeks)	I: 6, C: 5		peddle bike	hand bike	
			VO2 at the AT Point (ml/kg/min)	$22.0 \pm 5.2$ ; $27.4 \pm 7.1$ , $p < 0.05$	$12.5 \pm 2.3$ ; $14.0 \pm 1.0$ . NS	NA
			Self-assessment of endurance	5/6 reported improvement	1/5 reported improvement	NA

**BODY COMPOSITION**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number	Outcomes	Intervention group	Control group	Intervention effectiveness
<b>RCTs with wheelchair users</b>						
Van Den Berg-Emons, R. J., et al 1998	Sport/games-based aerobic.(4 times per week participation in the training programme) (9 months; 3 months)	I : 10, C: 10	Fat mass (kg)	baseline = 8.1 ± 6.2, pre-post: NS, post-follow-up: Δ = +0.7 ± 0.7, p<0.05	baseline = 5.7 ± 2.2, pre-post: Δ = +1.1 ± 1.6, p< 0.05	pre- mid(2month): p = 0.09, pre-post and follow-up: NS
	Sport/games-based aerobic. (2 times per week participation in the training programme) (9 months)	I: 9, C: 9	Fat mass (kg)	in figure no change	same control	pre- mid(2month): p < 0.05, pre-post : NS
<b>RCT with population with undefined wheelchair use</b>						
DeGroot, J.F., 2011	Walking (treadmill with body weight support) (12 weeks)	I:18,C:14	BMI	20.9 ± 5.7, Δ = -0.1 ± 0.9, NS	20.2 ± 5.1, Δ =-0.3 ± 0.9, NS	p = 0.1 d = NA
			Sum of Skinfolds	108.1 ± 58.2, Δ = -1.7 ± 17.5, NS	101.9 ± 56.6, Δ = -2.4 ± 8.2, NS	p = 0.9 d = NA
Verschuren, O., et al, 2007	Functional exercises (8 months)	I: 32 C: 33	BMI	Δ = 0.7 ± 2.1	Δ = 0.3 ± 1.1	p = 0.51

**METABOLISM**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number	Outcomes	Intervention group	Control group	Intervention effectiveness
<b>Non-RCTs with wheelchair users</b>						
Unnithan, V.B., 2007	Complex programme (PRT and walking) (12 weeks)	I : 7 , C: 6	RER	1.02 ± 0.11; 1.02 ± 0.10. NS	1.07 ± 0.13; 1.06 ± 0.12. NS	NS

**RESPIRATORY**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number	Outcomes	Intervention group	Control group	Intervention effectiveness
<b>RCT with undefined wheelchair use</b>						
Choi, J.A. et al. (2016)	spirometer exercise with vs without additional therapy (4 weeks; -)	I:25 C:23	FEV1 (l)	1.40 ± 0.37; 1.57 ± 0.44. p=0.005	1.35 ± 0.44; 1.35 ± 0.45. p=0.848	p = 0.017
			FVC (l)	1.95 ± 0.48; 2.15 ± 0.56. p<0.01	1.94 ± 0.66; 1.90 ± 0.69. p=0.511	p = 0.005
			FEV1/FVC (l)	72.76 ± 11.91; 74.48 ± 13.98. p=0.443	71.71 ± 17.23; 73.79 ± 15.68. p=0.563	p = 0.821
			Peak flow (l/min)	191.60 ± 56.25; 217.60 ± 67.58. p=0.003	71.71 ± 17.23; 73.79 ± 15.68. p=0.563	p = 0.085
			maximal phonation time	10.16 ± 3.70; 12.13 ± 3.61. p=0.001	9.65 ± 5.30; 10.06 ± 5.75. p=0.705	p = 0.008

**QOL**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number	Outcomes	Intervention group	Control group	Intervention effectiveness
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**RCTs with wheelchair users**

Jansen, et al. (2013)	Cycling: arm and peddle (24 weeks; 24 weeks)	I: 17 C: 13	PEDI self care	74.8 ± 13.2; 77.1 ± 14.1; NA	72.3 ± 13.6; 72.9 ± 12.8; NA	Pre-post: Δ (95%CI) = 4.1 (-2.2 - 10.4). P=0.192.
			PEDI mobility	57.6 ± 15.0; 55.8 ± 13.0; NA	62.7 ± 11.0; 57.7 ± 15.2; NA	Pre-post: Δ (95%CI) = 1.6 (-3.6 - 6.0). P=0.523.

Van Wely, et al. (2014) a	Complex: Life-style counselling and fitness training (6 months; 6 months)	I: 23 C: 23	CAPE Active physical	1.16 ± 0.47; 1.40 ± 0.32; 1.25 ± 0.61	1.15 ± 0.71; 1.41 ± 0.52; 1.27 ± 0.68	Δ (95%CI). pre-post: -0.01 (-0.23 - 0.22) P = 0.95. pre-follow up: -0.05 (-0.40 to 0.30) P = 0.78
			CAPE Social activities	2.92 ± 0.81; 3.00 ± 0.79; 2.95 ± 0.95	3.05 ± 0.72; 3.37 ± 0.79; 3.30 ± 0.71	Δ (95%CI). pre-post: -0.23 (-0.75 - 0.12) P = 0.28. pre-follow up: -0.17 (-0.59 - 0.26) P = 0.43
			CAPE Skill-based	1.18 ± 0.52; 1.03 ± 0.68; 0.95 ± 0.46	0.97 ± 0.56; 0.90 ± 0.66; 0.94 ± 0.64	Δ (95%CI). pre-post: -0.04 (-0.39 - 0.31) P = 0.83. pre-follow up: -0.23 (-0.49 - 0.03) P = 0.08
			Life-H	7.90 ± 1.88; 8.15 ± 1.68; 8.70 ± 1.19	8.76 ± 1.16; 8.33 ± 1.56; 8.23 ± 1.43	Δ (95%CI). pre-post: 0.38 (-0.67 - 1.43) P = 0.47. pre-followup: 0.92 (0.10 - 1.74) P = 0.03
			Self-perception: Athletic	2.85 ± 0.46; 2.84 ± 0.54; 2.87 ± 0.48	3.03 ± 0.51; 2.90 ± 0.59; 2.87 ± 0.54	Δ (95%CI). pre-post: 0.07 (-0.20 - 0.35) P = 0.59. pre-follow up: 0.08 (-0.20 - 0.35) P = 0.57
			Self-perception: Motor	3.14 ± 0.51; 3.03 ± 0.51; 3.15 ± 0.40	3.18 ± 0.42; 3.14 ± 0.55; 3.14 ± 0.47	Δ (95%CI). pre-post: -0.07 (-0.31 - 0.16) P = 0.53. pre-follow up: 0.01 (-0.23 - 0.24) p =0.94
			Self-perception: self-worth	3.41 ± 0.40; 3.42 ± 0.43; 3.53 ± 0.43	3.39 ± 0.51; 3.34 ± 0.64; 3.46 ± 0.53	Δ (95%CI). pre-post: 0.07 (-0.22 - 0.36) P = 0.63. pre-follow up: 0.03 (-0.23 - 0.30) P = 0.80
			CP-QOL: Social well-being	75.9 ± 8.4; NA; 76.5 ± 7.2	75.4 ± 11.9; NA; 79.4 ± 10.5	Δ (95%CI). pre-follow up: -3.1 (-7.9 - 1.7) P = 0.19
			CP-QOL: Functioning	71.1 ± 8.6; NA; 72.9 ± 9.6	71.3 ± 11.4; NA; 75.5 ± 9.4	Δ (95%CI). pre-follow up: -2.5 (-7.3 - 2.3) P = 0.30
			CP-QOL: Participation and physical health	65.5 ± 11.6; NA; 68.9 ± 9.3	67.2 ± 16.5; NA; 70.7 ± 14.0	Δ (95%CI) pre-followup: -0.8 (-5.7 to 4.1) P = 0.75
			CP-QOL: Emotional well-being and self-esteem	77.7 ± 8.2; NA; 78.2 ± 7.1	79.7 ± 15.1; NA; 79.6 ± 12.7	Δ (95%CI). pre-follow up: -0.3 (-5.3 - 4.7) P = 0.90
			CP-QOL: Pain and impact of the disability	30.5 ± 16.8; NA; 34.4 ± 16.4	32.9 ± 21.0; NA; 28.4 ± 14.8	Δ (95%CI). pre-follow up: 5.0 (-5.2 - 15.2) P = 0.33

**Non-RCTs with wheelchair users**

Andrade, C., et al 1991	Complex programme: PRT and cardiovascular exercise, inc psychosocial (10 weeks)	I: 7, C: 5	Global self-worth	3.3 ± 0.3; 3.6 ± 0.3. p = 0.025	3.6 ± 0.4; 3.1 ± 0.3. NS	p<0.01
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	Functional exercises (Intensive Lemo vs Move&Walk) (4 weeks)	Lemo:22, Move and Walk:30	Mobility from PEDI FS (Pediatric Evaluation of Disability Inventory-Functional Skills)	<b>Lemo:</b> 50.1 ± 21.8; 50.9 ± 22.9	<b>Move&amp;Walk:</b> 37.1 ± 21.8; 38.3 ± 21.2	both NS and interaction NS.
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Odman , P., 2005	Functional exercises (combined Lemo + Move&Walk) (4 weeks intensive; 1 year voluntary participation)	52	Mobility from PEDI FS (Pediatric Evaluation of Disability Inventory-Functional Skills)	42.7 + 22.5; 43.6 + 22.6; 43.6 + 22.8	pre-4 weeks: p = 0.03, 4 weeks-1 year: NS
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**RCT with population with undefined wheelchair use**

DeGroot, J.F., 2011	Walking (treadmill with body weight support) (12 weeks)	I:18,C:14	Total Fatigue PEDS QL (%)	baseline = 70.5 ± 16.4, Δ = 7.8 ± 9.8, p<0.05	74.2 ± 16.2, change = -0.4 ± 9.9 , NS	p = 0.06 d = NA
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Demuth, S.K., 2012	Cycling / complex: strengthening and cardiorespiratory phases in each session (3 months)	I: 28, C:29	QoL (PedsQL): Physical functioning	67.2 (57.2–77.3); 70.4 (61.9–79.0). p = 0.21	65.9 (58.2–73.5); 69.9 (63.7–76.2) , p = 0.3	Δ = -0.8 (-10.0–8.3), p = 0.85
			QoL (PedsQL): Psychosocial Health Summary	62.8 (53.8-71.8); 69.7 (61.8-77.6). p = 0.008	68.0 (61.8-74.2) ; 69.5 (63.5-75.5). p = 0.40	Δ = 5.4 (-0.5-11.5), p = 0.07
			QoL (PedsQL): Total Score	64.2 (55.6-72.8); 70.0 (62.3-77.6), p = 0.006	67.3 (62.0 - 76.6), p = 0.22; 69.6 (64.1 - 75.2), p = 0.22	Δ = 3.5 (-2.0-8.8), p = 0.21
			Paediatric Outcomes Data Collection Instrument (PODCI) parent responses: Global function and symptoms	74.8 (70.3-79.4); 75.2 (70.4-80.1), p = 0.78	75.1 (70.4-79.9); 75.4 (70.9-79.9), p = 0.86	Δ = 0.1 (-4.1-4.3), p = 0.96
			Paediatric Outcomes Data Collection Instrument (PODCI) parent responses: Happiness	82.9 (78.0-87.8); 86.1 (80.9-91.3) p = 0.25	76.7 (69.4-84.1); 77.4 (71.9-82.9), p = 0.80	Δ = 2.5 (-5.1-10.2), p = 0.51
			Paediatric Outcomes Data Collection Instrument (PODCI) parent responses: Satisfaction with symptoms	50.0 (36.3-63.7); 51.9 (39.6-64.1), p = 0.77	44.8 (32.5-57.1); 32.8 (21.9-43.6) , p = 0.046	Δ =13.9 (-3.3-31.2), p = 0.11
			Paediatric Outcomes Data Collection Instrument (PODCI) parent responses: Treatment expectations	64.2 (56.4-72.0); 62.5 (53.2-71.7), p = 0.68	61.8 (55.3-68.3); 42.4 (33.8-51.5), p = 0.0002	Δ = 17.7 (5.2-30.0), p = 0.006

Gates, P.E; 2012	PRT vs walking-partial body weight support (home) (12 weeks; 4 weeks)	I: 11 C: 12		Supported Walking	PRT	
			PedsQLCP (child)	69.2 ± 13; 71.6 ± 17; 69.3 ± 18	68.4 ± 15; 62.1 ± 18; 70.3 ± 16. pre-post and pre-follow-up: p = 0.01	p = 0.016
			The Piers-Harris Self-Concept scale	45.3 ± 9; 48.1 ± 8; 46.8 ± 10. NS	42.7 ±7; 44.6 ± 8; 47.6 ± 7. NS	p = 0.14
			Canadian Occupational Performance Measure (COPM) - Performance	4.46 ± 2.2; 5.17 ± 2.2; 5.99 ± 2.7	3.16 ± 1.8; 4.10 ± 2.2; 4.51 ± 2.7	p = 0.95. Combined main effect of time p = 0.003; pre-post: p = 0.008; pre-follow-up: p = 0.01
			Canadian Occupational Performance Measure (COPM) - Satisfaction	4.38 ± 2.7; 5.37 ± 2.5; 6.36 ± 2.7	3.49 ±1.5; 4.58 ±1.6; 4.96 ± 2.5	p = 0.75. Combined main effect of time p = 0.0008; pre-post: p = 0.015; pre-follow-up p = 0.001
			Children's Assessment of Participation and Enjoyment (CAPE): Diversity	26.6 ± 5.3; 25.2 ± 9.5; 24.6 ± 9.3	24.9 ±6.3; 18.6 ± 5.4; 19.4 ± 4.0	NS
			Children's Assessment of Participation and Enjoyment (CAPE): Intensity	2.12 ± 0.5; 2.16 ± 1.0; 2.39 ± 1.1	2.14 ± 0.5; 1.68 ± 0.6; 1.80 ± 0.5. pre-post: p = 0.01, pre-follow-up: p = 0.01.	p = 0.05
			Children's Assessment of Participation and Enjoyment (CAPE): With Whom	2.47 ± 0.5; 2.41 ± 0.5; 2.35 ± 0.4	2.10 ± 0.3; 1.93 ± 0.4; 2.17 ± 0.5. post-follow-up: p = 0.02	p = 0.04
Children's Assessment of Participation and Enjoyment (CAPE): Where	2.63 ± 0.6; 2.46 ± 0.5; 2.59 ± 0.4	2.03 ± 0.4; 2.18 ± 0.3; 2.14 ± 0.4	NS			



			Children's Assessment of Participation and Enjoyment (CAPE): Enjoyment	4.18 ± 0.5; 4.30 ± 0.5; 4.47 ± 0.4	4.03 ± 0.4; 4.36 ± 0.5; 4.49 ± 0.5	NS
Scholtes, V. A; 2012	PRT with functional exercises (12 weeks; 6 weeks)	I: 24 C: 23	CAPE	44.65 ± 18.30; 39.04 ± 13.28; 32.20 ± 9.27	36.63 ± 13.08; 31.14 ± 13.60; 31.83 ± 11.78	pre-post: p=0.86 Regression coefficient (95% CI) = -0.87 (-10.45-8.71); pre-follow-up: p=0.12 Regression coefficient (95% CI) = -7.34 (-16.50-1.89)
			MobQues-28 (0-100)	68.42 ± 20.93; 67.51 ± 24.58; 70.03 ± 23.49	64.77 ± 26.26; 66.43 ± 25.93; 67.49 ± 20.33	Pre-Post: p = 0.87 Regression coefficient (95% CI) = -0.46 (-6.0-5.07); pre-follow-up: p = 0.44 Regression coefficient (95% CI) = -2.22 (-7.88-3.43)
Verschuren, O., et al., 2007	Functional exercises (8 months)	I: 32 C: 33	Self-concept (SPPC) - Athletic competence	Δ = 2.0 ± 4.2	Δ = -1.3 ± 3.7	p = 0.005
			Self-concept (SPPC) - Physical appearance	Δ = 0.03 ± 0.2	Δ = 0.2 ± 4.4	p = 0.90
			Self-concept (SPPC) - Global perception of worth	Δ = 0.5 ± 3.3	Δ = -1.0 ± 4.0	p = 0.20
			Participation (CAPE) - Overall activities	Δ = 0.0 ± 0.5	Δ = -4.0 ± 0.6	p = 0.002
			Participation (CAPE) - Formal activities	Δ = 0.2 ± 0.4	Δ = -4.0 ± 0.8	p = <0.001
			Participation (CAPE) - Informal activities	Δ = 0.0 ± 0.7	Δ = -0.4 ± 0.7	p = 0.07
			Participation (CAPE) - Recreational activities	Δ = 0.2 ± 1.0	Δ = -0.4 ± 1.1	p = 0.69
			Participation (CAPE) - Social activities	Δ = -0.1 ± 0.8	Δ = -0.4 ± 1.1	p = 0.12
			Participation (CAPE) - Skill-based activities	Δ = 0.2 ± 0.5	Δ = -0.6 ± 0.9	p = <0.001
			Participation (CAPE) - Self-improvement activities	Δ = -0.1 ± 0.9	Δ = -0.5 ± 0.8	p = 0.10
			Health-related quality of life (TACQOL-PF) - Pain and symptoms	Δ = -0.14 ± 3.6	Δ = -1.0 ± 2.3	p = 0.30
			Health-related quality of life (TACQOL-PF) - Basic motor functions	Δ = 2.1 ± 4.3	Δ = -1.7 ± 4.3	p = <0.001
			Health-related quality of life (TACQOL-PF) - Autonomy	Δ = 0.5 ± 4.3	Δ = -0.2 ± 3.1	p = 0.02
			Health-related quality of life (TACQOL-PF) - Cognitive functioning	Δ = 0.9 ± 4.7	Δ = -0.2 ± 4.0	p = 0.04
Health-related quality of life (TACQOL-PF) - Social functioning	Δ = 0.7 ± 4.0	Δ = 0.0 ± 3.9	p = 0.13			
Health-related quality of life (TACQOL-PF) - Global positive emotions	Δ = 0.3 ± 3.9	Δ = -0.1 ± 1.9	p = 0.25			
Health-related quality of life (TACQOL-PF) - Global negative emotions	Δ = 0.7 ± 2.9	Δ = -0.1 ± 1.9	p = 0.15			
Wang et al. (2013)	Motivation: music during PRT (6 weeks; 12 weeks)	I:18 C:18	PEDI mobility (function)	73.0 ± 12.5; 75.1 ± 11.5; 76.2 ± 10.7. p<0.05	73.2 ± 13.9; 74.3 ± 13.6; 74.2 ± 13.2. p<0.05	pre-post: p=0.12 ES=0.28. pre-follow up: p=0.09 ES=0.31
			PEDI self-care (function)	77.4 ± 13.7; 78.6 ± 12.8; 79.9 ± 11.9. p<0.05	75.0 ± 10.8; 75.9 ± 11.0; 78.0 ± 10.8. p<0.05	pre-post: p=0.47 ES=0.13. pre-follow up: p=0.78 ES=0.05

**GROSS MOTOR FUNCTION**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number	Outcomes	Intervention group	Control group	Intervention effectiveness
<b>RCTs with wheelchair users</b>						
Jansen, et al. (2013)	Cycling: arm and peddle (24 weeks; 24 weeks)	I: 17 C: 13	Motor Function Measure	65.1 ± 15.6; 65.6 ± 16.9; 64.6 ± 14.7	70.9 ± 13.7; 61.5 ± 13.0; NA	pre-post: Δ (95%CI) = 4.9 (2.2 - 7.6). P=0.002. post-follow up: Δ= -5.7 P = .01
Van Wely, et al. (2014) b	Complex: Life-style counselling and fitness training (6 months; 6 months)	I: 23 C: 23	GMFM-66	77 ± 14; 79 ± 13; 79 ± 14	80 ± 14; 79 ± 14; 82 ± 14	Δ (95%CI). pre-post: 2.8 (0.2 - 5.4). pre-follow up: -0.9 (-3.3 - 1.4)
<b>Non-RCTs with wheelchair users</b>						
Gordon, et al. (2013)	Nintendo Wii (6weeks; -)	I:7 C: -	GMFM-88	63 ± 25; 70 ± 24. NA		NA
Odman , P., 2005	Functional exercises (Lemo vs Move&Walk) (4 weeks)	Lemo:24, Move and Walk:30	GMFM Total	<b>LEMO:</b> 53.2 ± 29.1; 55.9 ± 29.5	<b>Move&amp;Walk:</b> 37.7 ± 30.0; 38.9 ± 30.4	Lemo: p= 0.0003; M&W: p =0.0001. Interaction = NS
	Functional exercises (combined Lemo + Move&Walk) (4 weeks intensive; 1 year voluntary participation)		GMFM Total	44.6 + 30.3; 46.5 + 30.9; 48.1 + 31.4		pre-4 weeks: p = 0.0001, 4 weeks-1 year: NS
Unnithan, V.B., 2007	Complex programme (PRT and walking) (12 weeks)	I : 7 , C: 6	GMFM D and E (total score)	30.35 ± 16.95; 33.85 ± 17.87, p < 0.05	30.76 ± 12.52; 30.76 ± 12.52, NS	p = 0.05
<b>RCT with population with undefined wheelchair use</b>						
Choi, J.A. et al. (2016)	spirometer exercise with vs without additional therapy (4 weeks; -)	I:25 C:23	GMFM-66	53.83 ± 24.93; 57.37 ± 23.34. p=0.001	57.92 ± 23.97; 61.58 ± 24.24. p=0.003	p= 0.916
Dodd, K. J.; 2003	PRT with functional exercises (6 weeks; 12 weeks)	I: 11 C: 10	GMFM D, %	75.2 ± 14.4; 80.1 ± 13.7; 80.4 ± 13.2	74.6 ± 20.9; 80.5 ± 12.6; 80.7 ± 15.0	NA
			GMFM E , %	52.8 ± 31.3; 57.2 ± 29.7; 58.2 ± 31.3	68.3 ± 30.1; 69.5 ± 27.9; 67.8 ± 28.6	pre-post: p=0.07 F(1,19)=3.80, pre:follow-up: NA
			GMFM total, %	64.2 ± 27.8; 69.0 ± 21.4; 69.6 ± 21.4	71.7 ± 24.9; 75.3 ± 21.3; 74.3 ± 21.4	NA
Fowler, E. G., 2010	Cycling / complex: strengthening and cardiorespiratory phases in each session (12 weeks)	I: 26, C: 26	GMFM-66	69.6 (65.4-73.9); 70.8 (66.6 to 74.9) p=0.002	68.8 (64.5 to 73.0); 69.3 (65.4 to 73.3), p=0.12	p= 0.23
Scholtes, V. A., et al, 2010	PRT with functional exercises (12 weeks; 6 weeks)	I: 24 C: 23	GMFM-66 (1-100)	76.1 ± 12.8; 76.1 ± 11.8; 76.6 ± 13.0	71.8 ± 12.5; 73.1 ± 12.4; 72.7 ± 12.8	Pre-Post: p = 0.48 Regression coefficient (95% CI) = -0.56 (-2.11-0.99). Pre=follow-up: p = 0.73 Regression coefficient (95% CI) = 0.26 (-1.23-1.76)
Verschuren, O., et al,;2007	Functional exercises (8 months)	I: 32 C: 33	GMFM D (standing)	Δ = 2.6 ± 5.4	Δ = -0.7 ± 5.1	p = 0.03
			GMFM E (walking)	Δ = 1.5 ± 6.4	Δ = -0.9 ± 3.5	p = 0.27

Wang et al. (2013)	Motivation: music during PRT (6 weeks; 12 weeks)	I:18 C:18	GMFM: D	79.3 ± 13.4; 83.5 ± 8.7; 82.6 ± 11.6. p<0.05	79.9 ± 11.8; 80.3 ± 11.4; 80.9 ± 11.7. p<0.05	pre-post: p=0.004 ES=0.54. pre-follow up: p=0.06 ES=0.34
			GMFM: E	63.3 ± 23.4; 67.8 ± 23.4; 69.2 ± 22.8. p<0.05	62.0 ± 26.1; 64.0 ± 25.9; 65.4 ± 25.4. p<0.05	

**non-RCT with population with undefined wheelchair use**

Chen et al. 2012	Cycling in Virtual Reality (Home) (12 weeks)	I: 13, 15	C:	Gross motor function: The BOTMP	30.6 ± 13.2, 34.2 ± 23.2	26.8 ± 10.0, 22.9 ± 12.4	ANCOVA, effect size = 0.090, p = 0.130
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Crompton, J., et al 2007	PRT with functional exercises (plus upper body dexterity) (6 weeks; 6 weeks)	I: 6	C: 7		Lower Limb	Upper Limb	
				Gross Motor function 66, %	Median (25th;75th centile): 73.1 (70.0;76.8), 72.6 (70.0;79.9), 72.6 (71.7;80.9). Overall time effect p = 0.495	Median (25th;75th centile): 71.2 (62.3; 75.7); 71.4 (62.2; 79.7); 72.5(64;79.1). overall time effect: p = 0.244	Pre-Post: p=0.32 z=-1.0; Pre-follow-up: p=0.83 z = -0.22
Gross Motor Function Dimension D, %	Median (25th;75th centile): 82.1 (76.9;87.2); 84.6 (79.5;92.3); 87.2 (79.5;92.3). Overall time effect: p = 0.540	Median (25th;75th centile): 78.2 (67.3;82.1); 79.5 (67.3;85.9); 83.3 (75.6;86.5). Overall time effect: p = 0.01	Pre-Post: p = 0.89 z = -0.15. Pre-follow-up: p=0.28 z = -1.08				
Gross Motor Function Dimension E, %	Median (25th;75th centile): 83.3 (79.2;94.4); 83.3 (76.4;93.1); 80.6 (77.8;94.4). Overall time effect: p = 0.070	Median (25th;75th centile): 79.9 (51.0;88.5); 79.2 (48.6;92.7); 79.2 (49.5;91.9). Overall time effect: p = 0.834	Pre-Post: p=0.43 z = 0.79; Pre-follow-up: p=0.22 z = -1.22				

**MOBILITY**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number	Outcomes	Intervention group	Control group	Intervention effectiveness
<b>RCTs with wheelchair users</b>						
Jansen, et al. (2013)	Cycling: arm and peddle (24 weeks; 24 weeks)	I: 17 C: 13	Raise from floor (s)	6.3 ± 4.6; 4.8 ± 1.6; NA	8.8 ± 5.3; 21.1 ± 18.0; NA	Pre-post: Δ=16.3. p=0.961.
			10m run (s)	6.4 ± 1.7; 7.4 ± 3.9; NA	8.2 ± 2.2; 7.3 ± 1.8; NA	Pre-post: Δ = -0.7. p=0.522.
Van Wely, et al. (2014) b	Complex: Life-style counselling and fitness training (6 months; 6 months)	I: 23 C: 23	1-min walk (m)	86 ± 20; 92 ± 25; 91 ± 25	92 ± 20; 96 ± 17; 93 ± 19	Δ (95%CI). pre-post: 2 (-4 - 9). pre-follow up: 3 (-43 - 10)
<b>RCT with population with undefined wheelchair use</b>						
DeGroot, J.F., 2011	Walking (treadmill with body weight support) (12 weeks)	I:18,C:14	Peak walking speed	5.2 ± 2.0, Δ = 0.9 ± 0.8, p < 0.05	5.7 ± 1.9, Δ = -0.06 ± 0.6, NS	p = 0.001, d =1.14
Dodd, K. J.; 2003	PRT with functional exercises (6 weeks; 12 weeks)	I: 11 C: 10	Self-selected walking speed, m/min	47.4 ± 23.3; 48.0 ± 21.2; 48.6 ± 23.3	49.5 ± 24.5; 50.5 ± 20.8; 51.4 ± 16.5	NA
			Timed stair, s	27.4 ± 34.7; 21.1 ± 25.6; 25.1 ± 33.6	22.4 ± 20.5; 21.7 ± 21.5; 19.7 ± 15.2	Pre-Post: p=0.10 F(1,19)=2.97. Pre-folow-up: NA
Fowler, E. G., 2010	Cycling / complex: strengthening and cardiorespiratory phases in each session (12 weeks)	I: 26, C: 26	600-Yard Walk-Run Test speed (m/min)	85.0 (69.7 - 100.4); 90.6 (75.4 - 105.7), p=0.008	81.6 (65.9 - 97.4); 84.1 (67.6 - 100.7) p=0.16	p = 0.24
			30s Walk Test speed (m/min)	66.9 (58.6 - 75.1); 68.0 (60.4 - 75.7), p = 0.64	58.7 (51.0 - 66.5); 62.1 (54.4 - 69.8), p = 0.18	p = 0.52
Katz-Leurer, M., 2009	Functional exercises at home (6 weeks; 6 weeks for intervention group only)	I:8, C:10	Balance performance FRF (cm)	18.7 ± 5.2, Δ = 3.0 ± 1.6; Δ = 0.1 ± 2.1, p = 0.89	19.3 ± 4.8, Δ = 1.9 ± 4.0	p = 0.01
			Balance performance FRP (cm)	11.0 ± 2.9, Δ = 4.0 ± 3.7; Δ = 1.1 ± 4.1, p = 0.49	14.3 ± 3.7, Δ = 0.3 ± 3.1	p = 0.01
			Balance performance FRNP (cm)	10.5 ± 5.3, Δ = 3.2 ± 2.9; Δ = 0.2 ± 5.0, p = 0.93	12.5 ± 3.1, Δ = 0.4 ± 1.0	p = 0.10
			TUG (m/s)	10.1 ± 3.0, Δ = 1.6 ± 2.1; Δ = 0.0 ± 0.9, p = 0.86	8.1 ± 1.6, Δ = 0.0 ± 0.7	p < 0.01
			Walking velocity (m/s)	0.96 ± 0.12, Δ = 0.04 ± 0.1; Δ = 0.05 ± 0.1, p = 0.88	1.02 ± 0.19, Δ = 0.01 ± 0.1	p = 0.84
			Two-minute walk test (m)	114.1 ± 23.9, Δ = 8.0 ± 13.5; Δ = 1.8 ± 11.1, p = 0.12	118.9 ± 22.2, Δ = 0.2 ± 22.4	p = 0.78
			Sit to stand	15.7 ± 5.8, Δ = 3.7 ± 3.5, p = 0.02; Δ = 1.0 ± 2.4, p = 0.65	NA, NA	NA
Scholtes, V. A., et al, 2010	PRT with functional exercises (12 weeks; 6 weeks)	I: 24 C: 23	STS test (reps)	12.9 ± 2.8; 13.6 ± 3.0; 14.3 ± 2.9	10.8 ± 3.0; 12.7 ± 4.3 ; 12.7 ± 4.6	Pre-Post: p = 0.32 Regression coefficient (95% CI) = -0.75 (-2.21-0.72); Pre-follow-up p = 0.97 Regression coefficient (95% CI) = 0.03 (-1.43-1.49)
			LSU test (reps)	15.6 ± 4.0; 17.0 ± 5.1; 17.5 ± 4.8	13.3 ± 5.4; 15.4 ± 4.3; 15.8 ± 6.6	Pre-Post: p = 0.9 Regression coefficient (95% CI) = 0.48 (-1.45-2.40); Pre-follow-up: p =NA Regression coefficient (95% CI) = 0.13 (-1.84-2.10)
			Comfortable Walking Speed (m/s)	0.95 ± 0.29; 1.03 ± 0.33; 1.00 ± 0.28	0.95 ± 0.28; 1.07 ± 0.38; 1.06 ± 0.34	pre-post: p=0.56 Regression coefficient (95% CI) = -0.04 ( -0.18-0.10); pre-follow-up: p = 0.25 Regression coefficient (95% CI) = -0.06 ( -0.17-0.04)

Scholtes, V. A; 2012	PRT with functional exercises (12 weeks; 6 weeks)	I: 24 C: 23	Cadans (Steps/min)	109.01 ± 20.67; 113.70 ± 19.52; 112.61 ± 21.38	103.58 ± 25.02; 111.07 ± 26.51; 109.60 ± 23.45	pre-Post: p=0.74 Regression coefficient (95% CI) = -1.80 (-12.22–8.62); pre-follow-up: p=0.55 Regression coefficient (95% CI) = -2.43 (-10.44–5.59)
			Step Length (m)	1.03 ± 0.22; 1.07 ± 0.26; 1.05 ± 0.20	1.09 ± 0.19; 1.13 ± 0.25; 1.14 ± 0.23	Pre-Post: p=0.82 Regression coefficient (95% CI) = -0.01 (-0.11–0.09); pre-follow-up: p=0.47 Regression coefficient (95% CI) = -0.03 (-0.10–0.05)
			Fast Walking Speed (m/s)	1.29 ± 0.45; 1.34 ± 0.48; 1.30 ± 0.45	1.25 ± 0.39; 1.23 ± 0.43; 1.26 ± 0.44	Pre-post: p=0.30 Regression coefficient (95% CI) = 0.04 (-0.04–0.12); pre-follow-up: p=0.78 Regression coefficient (95% CI) = -0.01 (-0.08–0.06)
			Timed stair test (s)	10.75 ± 15.93; 9.63 ± 12.06; 11.25 ± 17.34	14.08 ± 17.50; 12.14 ± 11.22; 11.71 ± 8.51	Pre-Post: p=0.64 Regression coefficient (95% CI) = 0.83 (-2.64–4.30); pre-follow-up: p=0.29 Regression coefficient (95% CI) = 2.87 (-2.41–8.16)

Verschuren, O., et al.;2007	Functional exercises (8 months)	I: 32 C: 33	Agility 10 x 5-m Sprint Test	Δ = -4.5 ± 4.1	Δ = 0.2 ± 4.4	p <0.001
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Wang et al. (2013)	Motivation: music during PRT (6 weeks; 12 weeks)	I:18 C:18	10 m walk speed (m/s)	52.0 ± 17.7; 55.4 ± 16.2; 56.8 ± 16.8. p<0.05	46.3 ± 20.8; 49.9 ± 22.1; 50.9 ± 21.5. p<0.05	pre-post: p=0.87 ES=0.03. pre-follow up: p=0.77 ES=0.05
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**Non-RCT with population with undefined wheelchair use**

Blundell, S.W. et al; 2003	Functional exercises (6 weeks)	I: 7	L LSUT (repetitions)	3.3 ± 3.3; 7.9 ± 3.8; 6.8 ± 3.8		Pre-Post: p = 0.001 F(1,7) = 42.83; Post-follow-up: p = 0.065 F(1,7) = 4.77
			R LSUT (repetitions)	3.0 ± 3.5; 7.8 ± 3.8; 7.0 ± 3.5		Pre-Post: p = 0.001 F(1,7) = 48.60; Post-follow-up: p = 0.142 F(1,7) = 2.74
			MAS – STS Score	1.5 ± 1.8; 2.0 ± 4.0; 2.5 ± 3.5		Pre-Post: p = 0.014 F(1,7) = 6.00; Post-follow-up: p = 1.000 F(1,7) = 0.00
			Min. chair height (cm)	26.9 ± 15.3; 16.6 ± 11.5; 16.6 ± 13.5		Pre-Post: p = 0.002 F(1,7) = 24.99; Post-follow-up: p = 0.413 F(1,7) = 0.76
			Walking speed (m/s)	0.70 ± 0.35; 0.88 ± 0.36; 0.86 ± 0.48		Pre-Post: p = 0.079 F(1,7) = 4.21; Post-follow-up: p = 0.874 F(1,7) = 0.03
			Stride length (m)	0.67 ± 0.19; 0.82 ± 0.18; 0.79 ± 0.24		Pre-Post: p = 0.008 F(1,7) = 13.66; Post-follow-up: p = 0.637 F(1,7) = 0.24
			Cadence (steps/min)	118.1 ± 39.1; 123.8 ± 31.6; 121.5 ± 43.5		Pre-Post: p = 0.584 F(1,7) = 0.33; Post-follow-up: p = 0.812 F(1,7) = 0.06
			10-m walk test (s)	20.8 ± 14.3; 14.0 ± 7.7; 18.0 ± 14.3		Pre-Post: p = 0.049 F(1,7) = 5.68; Post-follow-up: p = 0.283 F(1,7) = 1.35
2-min walk test (m)	74.9 ± 32.4; 98.5 ± 46.2; 100.5 ± 48.7		Pre-Post: p = 0.108 F(1,7) = 3.40; Post-follow-up: p = 0.748 F(1,7) = 0.11			

Crompton, J., et al 2007	PRT with functional exercises (plus upper body dexterity) (6 weeks; 6 weeks)	I: 6 C: 7		<b>Upper Limb</b>	<b>Lower Limb</b>	Pre-Post: p=0.89 z = -0.14; Pre-follow-up: p=0.57 z = -0.57
			Timed up and go (TUG), seconds	Median (25th;75th centile): 8.45 (7.73;13.34); 8.43 (6.27;12.16); 8.83 (6.46;12.25). Overall time effect: p = 0.050	Median (25th;75th centile): 9.33 (6.91;11.53); 7.93 (6.82;8.89); 7.77 (6.43;8.67). Overall time effect: p = 0.135	

**STRENGTH**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number	Outcomes	Intervention group	Control group	Intervention effectiveness
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**RCTs with wheelchair users**

Jansen, et al. (2013)	Cycling: arm and peddle (24 weeks; 24 weeks)	I: 17 C: 13	MRC strength scale total	31.0 ± 5.5; 31.6 ± 1.4; NA	31.4 ± 4.4; 28.6 ± 5.7; NA	Pre-post: Δ (95%CI) = 1.4 (-0.3 - 3.1). P=0.098.
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Van Den Berg-Emons, R. J., et al 1998	Sport/games-based aerobic. (4 x per week no strength data) (9 months; 3 months)	I: 10, C: 10	Isokinetic muscle strength	NA	NA	NA
	Sport/games-based aerobic. (2 times per week participation in the training programme) (9 months)	I: 9, C: 9	Isokinetic muscle strength	Least affected limb flexion: pre-post: Δ = 39%, p<0.01. Most affected limb flexion pre-post: Δ = 28%, p<0.05. Least affected limb extension pre-post: Δ = 12%, p = 0.05. Most affected limb extension pre-post: Δ = 24%, p<0.05.	NS, no data reported	NA

Van Wely, et al. (2014) b	Complex: Life-style counselling and fitness training (6 months; 6 months)	I: 23 C: 23	Functional muscle strength (reps)	43 ± 16; 51 ± 20; 53 ± 18	42 ± 18; 53 ± 21; 56 ± 22	Δ (95%CI). pre-post: 0 (-5 - 5). pre-follow up: -4 (-9 - 2)
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**Non-RCTs with wheelchair users**

Andrade, C., et al 1991	Complex programme: PRT and cardiovascular exercise, inc psychosocial (10 weeks)	I: 7, C: 5	Isometric muscle (shoulder flexion): absolute torques (N°m)	9 ± 2.6; 10.3 ± 2.4, p = 0.1	12.5 ± 9.68; 12.5 ± 7.8, p <0.40	p <0.25
			Isometric strength (shoulder extension): absolute torques (N°m)	6.6 ± 1.6; 7.6 ± 1.9, p = 0.05	9.68 ± 6; 10 ± 7.3, p <0.40	p <0.25
			Isometric strength (shoulder abduction): absolute torques (N°m)	10.7 ± 4.9; 11.3 ± 4.7, p < 0.25	12.4 ± 5.8; 13 ± 7.8, p <0.40	p <0.40
			Isometric strength (elbow flexion): absolute torques (N°m)	16.8 ± 8.3; 20.3 ± 7.6, p < 0.0025	21.6 ± 5.1; 21.2 ± 4.3, p <0.40	p<0.01
			Isometric strength (elbow extension): absolute torques (N°m)	17.8 ± 8.5; 19.2 ± 8.7, p <0.005	21.7 ± 3.1; 22.2 ± 4.3, p <0.40	NA

**RCT with population with undefined wheelchair use**

DeGroot, J.F. 2011	Walking (treadmill with body weight)	I: 18 C: 14	Muscle Strength (Handgrip, N)	73.9 ± 46.9, Δ = 1.6 ± 9.9, NS	86.4 ± 55.4, Δ = -3.0 ± 7.6, NS	p = 0.2 d = NA
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DEGROOT, J. J., 2011	support) (12 weeks)	I:10, C:17	Muscle Strength (Quadriceps, N)	155.2 ± 62.8, Δ = -8.7 ± 71.7, NS	157.9 ± 51.0, Δ = -27.2 ± 27.2, p < 0.05	p = 0.7 d = NA
Dodd, K. J.; 2003	PRT with functional exercises (6 weeks; 12 weeks)	I: 11 C: 10	Strength of the ankle plantarflexors, kg	11.0 ± 15.8; 11.1 ± 12.5; 16.6 ± 15.2	17.5 ± 13.1; 15.4 ± 11.6; 13.8 ± 9.0	NA
			Strength of the knee extensors, kg	27.5 ± 10.9; 33.1 ± 15.8; 32.5 ± 11.4	23.7 ± 11.5; 25.5 ± 9.9; 25.2 ± 7.8	NA
			Strength of the hip extensors, kg	7.9 ± 7.6; 10.6 ± 10.2; 10.8 ± 9.1;	8.5 ± 8.4; 11.5 ± 10.7; 10.6 ± 8.3	NA
			Ankle plantarflexors + Knee extensors, kg	38.5 ± 23.2; 44.2 ± 25.5; 49.2 ± 25.3	41.1 ± 20.0; 40.9 ± 20.2; 38.9 ± 15.0	Pre-Post: p=0.046 F(1,19)=4.58; Pre-follow-up: p=0.041 F(1,18)=6.25
			Total extensor, kg	46.5 ± 29.6; 54.8 ± 34.5; 60.0 ± 33.0	49.6 ± 25.9; 52.4 ± 27.7; 49.5 ± 21.1	Pre-Post: p=0.094 F(1,19)=3.12; Pre-follow-up: p=0.087 F(1,18)=3.28
Fowler, E. G., 2010	Cycling / complex: strengthening and cardiorespiratory phases in each session (12 weeks)	I: 26, C: 26	Knee extensor moments (N.m/kg) 0°/s	1.24 (1.04 - 1.45) ; 1.25 (1.10 - 1.41), p= 0.88	1.14 (1.0 - 1.28) ; 1.19 (1.02 - 1.36), p=0.25	p = 0.55
			Knee extensor moments (N.m/kg) 30°/s	1.05 (0.91 - 1.19); 1.09 (0.95 - 1.22), p = 0.39	1.09 (0.91 - 1.27); 1.01 (0.83 - 1.19), p = 0.13	p = 0.08
			Knee extensor moments (N.m/kg) 60°/s	0.88 (0.76 - 0.99) ; 0.89 (0.76 - 1.0), p = 0.76	0.88 (0.72 - 1.05); 0.86 (0.69 - 1.04), p = 0.63	p = 0.58
			Knee extensor moments (N.m/kg) 120°/s	0.66 (0.57 - 0.75); 0.75 (0.64 - 0.85), p = 0.006	0.72 (0.60 - 0.84); 0.75 (0.59 - 0.92), p = 0.45	p = 0.27
			Knee flexor moments (N.m/kg) 0°/s	0.46 (0.36 - 0.57); 0.47 (0.36 - 0.58), p = 0.69	0.40 (0.26 - 0.54); 0.45 (0.32 - 0.58), p = 0.11	p = 0.41
			Knee flexor moments (N.m/kg) 30°/s	0.30 (0.23 - 0.37); 0.35 (0.27 - 0.42), p = 0.025	0.34 (0.23 - 0.44); 0.35 (0.24 - 0.46), p = 0.57	p = 0.31
			Knee flexor moments (N.m/kg) 60°/s	0.29 (0.22 - 0.36); 0.29 (0.21 - 0.36), p = 0.95	0.28 (0.19 - 0.36); 0.27 (0.18 - 0.37), p = 0.94	p = 0.99
			Knee flexor moments (N.m/kg) 120°/s	0.21 (0.16 - 0.26); 0.26 (0.19 - 0.32), p = 0.09	0.20 (0.13 - 0.28); 0.28 (0.17 - 0.38), p = 0.01	p = 0.43
Katz-Leurer, M., 2009	Functional exercises at home (6 weeks; 6 weeks for intervention group only)	I:8,C:10	Hip abduction	2.5 ± 2.5, Δ = 0.7 ± 1.9; Δ = 0.3 ± 1.4, p = 0.89	3.7 ± 2.5, Δ = 0.8 ± 1.1	p = 0.88
			Hip extension	4.1 ± 3.7, Δ = 1.6 ± 2.2; Δ = 0.6 ± 1.2 p = 0.22	5.7 ± 3.6, Δ = 0.7 ± 1.3	p = 0.36
			Knee extensors	4.9 ± 3.5, Δ = 0.2 ± 4.4; Δ = 0.0 ± 0.8 p = 0.75	6.6 ± 3.7, Δ = 0.0 ± 0.7	p = 0.63
			Knee flexors	3.0 ± 3.2, Δ = 0.0 ± 3.0; Δ = 0.3 ± 1.4 p = 0.46	4.2 ± 2.2, Δ = 0.1 ± 1.0	p = 0.88
Scholtes, V. A., et al, 2010	PRT with functional exercises (12 weeks; 6 weeks)	I: 24 C: 23	Knee Extensors (N/Kg)	4.78 ± 1.12; 5.39 ± 1.10; 5.20 ± 1.04	4.36 ± 1.05; 4.48 ± 1.12; 4.46 ± 1.20	p , Regression coefficient (95% CI). pre-post: p = 0.01, 0.56 (0.13-0.99) ; pre-follow-up: p = 0.16, 0.35 (-0.16-0.85)
			Knee Flexors (N/Kg)	2.73 ± 0.79; 2.76 ± 0.75; 2.67 ± 0.86	2.25 ± 0.96; 2.27 ± 1.02; 2.33 ± 0.90	p , Regression coefficient (95% CI). pre-post: p = 0.71, 0.05 (-0.25-0.36). Pre-follow-up: p = 0.58, -0.10 (-0.43-0.24)
			Hip Flexors (N/Kg)	3.96 ± 0.75; 4.43 ± 0.99; 4.46 ± 0.90	3.76 ± 0.99; 4.12 ± 0.99; 4.43 ± 0.86	p , Regression coefficient (95% CI). pre-post: p = 0.41, 0.16 (-0.22-0.55); Pre-follow-up: p = 0.55, -0.12 (-0.50-0.27)
			Hip Abductors (N/Kg)	2.66 ± 0.76; 2.78 ± 0.85; 2.90 ± 0.99	2.41 ± 0.74; 2.28 ± 0.70; 2.45 ± 0.94	p , Regression coefficient (95% CI). pre-post: p = 0.05, 0.27 (0.00-0.54); pre-follow-up: p = 0.17, 0.23 (-0.10-0.56)



	WEEKS, 0 WEEKS)		Ankle plantarflexors (N/Kg)	3.90 ± 1.43; 4.53 ± 2.16; 5.01 ± 2.26	3.11 ± 0.87; 3.54 ± 0.94; 4.38 ± 1.49	p , Regression coefficient (95% CI). pre-post: p = 0.51, 0.23 (-0.47-0.93); pre-follow-up: p = 0.72, -0.16 (-1.01-0.69)
			Total	18.04 ± 3.52; 19.88 ± 4.13; 20.39 ± 4.49	15.94 ± 3.57; 16.65 ± 4.11; 17.80 ± 4.01	p , Regression coefficient (95% CI). pre-post: p = 0.04, 1.30 (0.56-2.54); pre-follow-up: p = 0.58, 0.40 (-1.02-1.83)
			Six-repetition maximum on leg press (% body weight)	112.78 ± 21.28 ; 135.63 ± 31.87; 129.90 ± 32.15	93.76 ± 20.18; 102.88 ± 26.76 ; 111.99 ± 26.17	p , Regression coefficient (95% CI). Pre-Post: p = 0.02, 14.17 (1.99-26.35); pre-follow-up: p = 0.58, 3.42 (-8.62-15.46)

Verschuren, O., et al.;2007	Functional exercises (8 months)	I: 32 C: 33	Muscle strength left	Δ = 6.9 ± 7.2	Δ = -1.9 ± 8.7	p <0.001
			Muscle strength right	Δ = 7.7 ± 9.0	Δ = -1.9 ± 10.0	p <0.001

Wang et al. (2013)	Motivation: music during PRT (6 weeks; 12 weeks)	I:18 C:18	1-RM sit-to-stand (kg)	12.0 ± 5.3; 17.5 ± 7.0; 16.6 ± 7.1. p<0.05	10.9 ± 6.1; 13.9 ± 6.0; 13.6 ± 4.7. p<0.05	pre-post: p=0.06 ES=0.34. pre-follow up: p=0.15 ES=0.25
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**Non-RCT with population with undefined wheelchair use**

Blundell, S.W. et al; 2003	Functional exercises (6 weeks)	I: 7	L Hip Extensors (N)	57.1 ± 12.1; 93.1 ± 37.9; 88.2 ± 34.9		Pre-Post: p = 0.018 F(1,7) = 10.4; Post-follow-up: p = 0.113 F(1,7) = 3.43
			R Hip Extensors	51.2 ± 9.4; 89.2 ± 35.6; 90.2 ± 29.2		Pre-Post: p = 0.017 F(1,7) = 10.56; Post-follow-up: p = 0.936 F(1,7) = 0.01
			L Hip Flexors	25.9 ± 5.9; 39.2 ± 11.7; 45.3 ± 14.5		Pre-Post: p = 0.007 F(1,7) = 15.71; Post-follow-up: 0.198 F(1,7) = 2.10
			R Hip Flexors	26.2 ± 6.7; 42.8 ± 14.8; 45.4 ± 13.6		Pre-Post: p = 0.005 F(1,7) = 17.91; Post-follow-up: p = 0.513 F(1,7) = 0.48
			L Knee Extensors	39.7 ± 11.6; 52.2 ± 17.5; 58.9 ± 21.0		Pre-Post: p = 0.016 F(1,7) = 10.06; Post-follow-up: p = 0.121 F(1,7) = 3.11
			R Knee Extensors	40.1 ± 10.8; 55.4 ± 17.3; 60.9 ± 22.9		Pre-Post: p = 0.002 F(1,7) = 23.96; Post-follow-up: p = 0.229 F(1,7) = 1.74
			L Knee Flexors	26.2 ± 9.6; 35.6 ± 14.4; 41.9 ± 17.5		Pre-Post: p = 0.104 F(1,7) = 3.48; Post-follow-up: p = 0.354 F(1,7) = 0.99
			R Knee Flexors	25.2 ± 9.5; 34.5 ± 13.7; 42.1 ± 15.7		Pre-Post: p = 0.055 F(1,7) = 5.30; Post-follow-up: p = 0.169 F(1,7) = 2.35
			L Plantarflexors	45.6 ± 18.8; 57.1 ± 21.9; 61.5 ± 24.2		Pre-Post: p = 0.041 F(1,7) = 6.24; Post-follow-up: p = 0.626 F(1,7) = 0.26
			R Plantarflexors	43.1 ± 24.1; 57.3 ± 22.6; 56.0 ± 17.3		Pre-Post: p = 0.165 F(1,7) = 2.41; Post-follow-up: p = 0.892 F(1,7) = 0.02
			L Dorsiflexors	16.6 ± 8.0; 25.3 ± 13.6; 19.5 ± 9.0		Pre-Post: p = 0.063 F(1,7) = 4.88; Post-follow-up: p = 0.089 F(1,7) = 3.89
			R Dorsiflexors	13.0 ± 7.9; 20.7 ± 11.0; 22.2 ± 12.1		Pre-Post: F(1,7) = 13.19 p = 0.008; Post-follow-up: p = 0.389 F(1,7) = 0.85

Chen et al. 2012	Cycling in Virtual Reality (Home) (12 weeks)	I: 13, C: 15	Knee extensor torque 60°/s	1.53 ± 0.64 , 1.63 ± 0.78	1.38 ± 0.50 , 1.35 ± 0.55	ANCOVA, effect size = 0.149, p = 0.045
			Knee extensor torque 120°/s	1.09 ± 0.53 , 1.42 ± 0.60	1.11 ± 0.45 , 1.04 ± 0.59	ANCOVA, effect size = 0.250, p = 0.008
			Knee flexion torque 60°/s	0.50 ± 0.29, 0.47 ± 0.30	0.71 ± 0.40, 0.48 ± 0.33	ANCOVA, effect size = 0.179, p = 0.028
			Knee flexion torque 120°/s	0.47 ± 0.26, 0.64 ± 0.37	0.48 ± 0.21 , 0.39 ± 0.28	ANCOVA, effect size = 0.300, p = 0.003

Crompton, J., et al 2007	PRT with functional exercises (plus upper body dexterity) (6 weeks; 6 weeks)	I: 6 C: 7		<b>Lower Limb</b>	<b>Upper Limb</b>	
			Isometric knee extensor strength with handheld dyno. N/Kg (less impaired side)	Median (25th;75th centile): 2.82 (1.80;2.95); 2.15 (1.58;3.05); 3.00 (2.45;3.97). Overall time effect: p = 0.180	Median (25th;75th centile): 1.88 (1.38;2.66); 2.00 (1.42;3.86); 2.65 (1.44;3.23). Overall time effect: p = 0.513	Pre-Post: p=0.48 z = -0.71; Pre-follow-up: p=0.67 z = 0.43



	weeks)		Isometric knee extensor strength with handheld dyno. N/Kg (More impaired side)	Median (25th;75th centile): 2.45 (1.80;3.15); 2.38 (1.88;3.13); 2.83 (2.39;3.09). Overall time effect: p = 0.867	Median (25th;75th centile): 2.02 (1.60;2.45); 2.59 (1.48;3.67); 2.75 (2.24;3.98). Overall time effect: p = 0.006	Pre-Post: p=0.15 z = -1.43; Pre-follow-up: p=0.09 z = -1.71
Damiano, D. L., 1995	PRT (6 weeks)	I: 14	Quadriceps 90 degrees	115.8 ± 26.6; 173.1 ± 51.8		p < 0.001
			Quadriceps 60 degrees	88.2 ± 27.1; 162.9 ± 48.2		p < 0.001
			Quadriceps 30 degrees	54.4 ± 23.2; 134.0 ± 44.7		p < 0.001
			Hamstrings	Pre-3 weeks: 56.8 ± 31.8; 67.7 ± 32.1		p = 0.085

**PHYSICAL ACTIVITY LEVELS**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number	Outcomes	Intervention group	Control group	Intervention effectiveness s
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**RCTs with wheelchair users**

Van Den Berg-Emons, R. J., et al 1998	Sport/games-based aerobic.(4 times per week participation in the training programme) (9 months; 3 months)	I : 10, C: 10	Level of daily physical activity (calculated as the ratio of TEE to SMR or RMR)	1.34 ± 0.25; 1.55 ± 0.18; NA. p = 0.07	1.24 ± 0.21; 1.34 ± 0.20; NA. NS	NS
	Sport/games-based aerobic. (2 times per week participation in the training programme) (9 months)	I: 9, C: 9	Level of daily physical activity (calculated as the ratio of TEE to SMR or RMR)	1.18 ± 0.2; 1.29 ± 0.2; NA. p<0.05	1.24 ± 0.21; 1.34 ± 0.20. NS	NS

Van Wely, et al. (2014) b	Complex: Life-style counselling and fitness training (6 months; 6 months)	I: 23 C: 23	Strides (n/day)	347 ± 98; 369 ± 97; 393 ± 92	354 ± 95; 347 ± 77; 381 ± 81	Δ (95%CI) pre-post: 26 (-10 to 61). pre-follow up: 22 (-19 - 62)
			Objective Inactive time (minutes/day)	347 ± 98; 369 ± 97; 393 ± 92	354 ± 95; 347 ± 77; 381 ± 81	Δ (95%CI). pre-post: 26 (-10 - 61). pre-follow up: 22 (-19 - 62)
			Parent reported: Moderate to vigorous activity (min/wk)	Median (IQR): 365 (110–490); 780 (303–1093); 378 (179–623)	Median (IQR): 400 (160–635); 317 (71–668); 360 (215–590)	Δ (95%CI). pre-post: 2.2 (1.1 - 4.4). pre-follow up: 1.1 (0.7 - 1.8)
			Parent reported: Inactive (min/wk)	2653 ± 1065; 2199 ± 996; 2223 ± 944	2659 ± 812; 2170 ± 1320; 2783 ± 1058	Δ (95%CI). pre-post: 140 (-550 - 831). pre-follow up: -494 (-1099 - 111)
			Children's attitude disadvantages	Median (IQR): 4.0 (3.7–4.4); 4.0 (3.6–4.5); 4.1 (3.6–4.4)	Median (IQR): 4.0 (3.7–4.6); 4.0 (3.4–4.3); 3.9 (3.5–4.5)	pre-post: p = 0.08. pre-follow up: p = 0.04
			Children's attitude advantages	Median (IQR): 3.5 (3.0–3.8); 3.7 (3.1–4.2); 4.0 (3.6–4.3)	Median (IQR): 3.8 (3.5–4.2); 3.7 (3.1–4.2); 3.7 (3.3–4.1)	pre-post: p = 0.02. pre-follow up: p = 0.56
			Parents' attitude disadvantages	Median (IQR): 4.13 (0.60); NA; 4.07 (0.56)	Median (IQR): 4.22 (0.58); NA; 4.19 (0.46)	Δ (95%CI). pre-follow up: -0.08 (-0.36 - 0.21)
			Parents' attitude advantages	Median (IQR): 3.40 (0.48); NA; 3.34 (0.67)	Median (IQR): 3.47 (0.50); NA; 3.48 (0.67)	Δ (95%CI). pre-follow up: -0.11 (-0.53 - 0.31)

**non-RCTs with wheelchair users**

Gordon, et al. (2013)	Nintendo Wii (6weeks; -)	I:7 C: -	Percentage attendance	100% amongst 6 completers		NA
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**RCT with population with undefined wheelchair use**

DeGroot, J.F., 2011	Walking (treadmill with body weight support) (12 weeks)	I:18 ,C:14	Self-reported physical activity (min/wk)	415.4 ± 171 , Δ = -8.3 ± 273.1. NS	335.2 ± 176.2, Δ = -22.4 ± 145.3. NS	p = 0.66 d = NA
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Maher, C.A., 2010	Internet-based education (10 weeks; 10 weeks)	I:41, C:41	Weekly Step counts	59329 ± 28102; 61749 ± 20972; 68803 ± 30085	60558 ± 22203; 48369 ± 21390; 57202 ± 28340	Pre-post: p = 0.06 F = 3.9; pre-follow-up: p = 0.14 F = 2.1
			Weekly MVPA minutes	140.8 ± 89.7,210.4 ± 76.2,241.1 ± 119.1	139 ± 83.0,146.5 ± 78.4,196.6 ± 122.0	Pre-post: p = 0.06 F = 3.7; pre-follow-up: p = 0.27, F = 1.3
			Weekly Distance	42.3 ± 23.4, 45.3 ± 17.5 ,49.3 ± 22.8	44.6 ± 18.8,35.5 ± 16.0,40.5 ± 21.4	Pre-post: p = 0.05 F = 4.1; pre-follow-up: p = 0.09 F = 2.5
			Average daily physical activity level (MARCA)	1.46 ± 0.18,1.43 ± 0.14 ,1.47 ± 0.16	1.46 ± 0.14,1.45 ± 0.14,1.48 ± 0.15	Pre-post: p= 0.56 F = 0.4; pre-follow-up: p = 0.83 F = 0.2
			Average daily MVPA (minutes MARCA)	76.7 ± 69.3,66.6 ± 55.7,77.2 ± 60.2	86.7 ± 59.6, 64.2 ± 36.6, 85.7 ± 71.0	Pre-post: p= 0.88 F = 0.9; pre-follow-up: p = 0.78 F = 0.3

			Average daily screen time (minutes; MARCA)	280.1 ± 104.5, 292.3 ± 136.7, 283.1 ± 120.6	220.1 ± 83.1, 272.9 ± 109.1, 248.5 ± 119.3	Pre-post: p= 0.17 F = 1.9 ; pre-follow-up: p = 0.39 F = 1.0
Verschuren, O., et al.;2007	Functional exercises (8 months)	I: 32 C: 33	Participation (CAPE) - Physical activities	Δ = 0.3 ± 0.8	Δ = -0.3 ± 0.7	p = 0.005
<b>Non-RCT with population with undefined wheelchair use</b>						
Crompton, J., et al 2007	PRT with functional exercises (plus upper body dexterity) (6 weeks; 6 weeks)	I: 6 C: 7		<b>Lower Limb</b>	<b>Upper Limb</b>	pre-post: p=0.19 z=-1.29; pre-follow-up: p=1.0 z=0.0
			Time spent upright (standing/walking) by positional activity	Median (25th;75th centile): 5.60 (4.64;6.77); 5.18 (4.29;6.28); 4.38 (3.84;6.65). Overall time effect: p = 0.066	Median (25th;75th centile): 4.66 (3.78;5.50); 3.93 (3.01;4.63); 3.77 (3.47;5.94). Overall time effect: p=0.311	
Lancioni, G.E., 2004	Emotional stimulation (~7 months)	I:2, C:-	Frequency of half pedalling cycles	Participant 1: 309; 900. Participant 2: 381; 610	NA	p<0.05
			Frequency of step contact	Participant 1: 43; 144. Participant 2: 107; 173	NA	p<0.05
Slaman, et al. (2014)	Complex: Life-style counselling and cardio-pulmonary fitness (6 months; 6 months)	I:17 C:19	Objective sedentary time (% wakening day)	41.09 ± 16.77; 43.91 ± 4.90; 38.69 ± 6.67	46.16 ± 12.67; 46.05 ± 13.07; 46.76 ± 12.52	NS
			Objective dynamic activities (% 24h)	8.80 ± 3.12; 8.53 ± 4.30; 9.13 ± 3.35	8.26 ± 2.94; 7.88 ± 3.77; 7.92 ± 4.63	NS
			Physical Activity Scale for Individuals with Physical Disabilities	12.75 ± 8.09; 20.29 ± 14.07; 17.09 ± 10.86	12.56 ± 8.69; 14.12 ± 10.38; 15.78 ± 11.48	pre-post: p=0.05. pre-follow up: NS



**UNCONVENTIONAL REPORTING STATS**

Study	Intervention type (duration pre-post; post-follow up [when available])	Subject number	Outcomes
Buffart, L.M; et al (2010)	Complex programme personalised activities (10 weeks)	Sample: 2 disabled participants - one ambulatory and other non-ambulatory)	
			Ambulatory status
			Attendance rate of the fitness training
			Self-reported physical activity scale - Rating of perceived exertion
			PASIPD (Physical Activity Scale for Individuals with Physical Disabilities) total (kJ/kg/day)
			Distance 6MWD (m)
			Peak V_ O2 (L/min)
			PeakW (W)
			PeakHR (bpm)
			PeakRER
			Satisfaction with the intervention. Numeric scale (0-10)
			Energy expenditure index (EEI)
			EEI - walking speed
			Hip abductor strength
			14-26

Fragala-Pinkham, M., (2005)	PRT vs Complex programme: PRT and aerobic exercise. With follow up at home (14 weeks supervised group; 12 weeks home)	group = 9; home = 7	Ankle plantar-flexor strength
			Self-perception profile (SPP)
			Functional and Gross Motor Abilities (GMFM - 66 or below)
			The Mobility domain of the Functional Skills part of the Pediatric Evaluation of Disability Inventory (PEDI)
			Bruininks-Oseretsky Test of Motor Proficiency (BOTMP)
			Shuttle run (s)
			1-mile run (min)
			curl ups (count)
			modified push-ups (count)
			sit and reach (cm)

Kelly, M & Legg, D. (2009).	Complex programme: PRT, aerobic exercise and sports	n = 5 Measures per individual child in relation to "defined level of chance". No combined results. See Pages 12-15.	Plantar flexion
			Knee extension
			Hip extension
			overall interpretation of strength

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Energy efficiency index (EEI)
Canadian Occupational Performance Measure (COPM)
Satisfaction ratings

Intervention group	Control group	Intervention effectiveness
<b>Boy</b>	<b>Girl</b>	<b>Change</b>
Nonfunctional ambulator	Ambulated without limitations	
67%	83%	
8; 10	5; 9	
43; 65.0	33.9; 59.4	Boy; 51% increase. Girl: 76% increase.
698; 810	507; 550	Boy: 16% increase . Girl: 9% increase.
1.94; 2.70	2.2; 2.13	Boy: 39% increase. Girl: No improvement.
120; 160	180; 180	
184; 184	179; 181	
1.17; 1.14	1.14; 1.22	
NA; 10	NA; 7	

<b>Minimal detectable change: See Table 2 p.1188.</b>		
± 0.18bpm		0-14 weeks: 6/9 decreased; 14-26 weeks 3/7 increased, 0/7 decreased
± 11.7m/min		0-14 weeks: 6/9 increased. 0-26 weeks: not different
± 3.0 kg		0-14 weeks: 3/9 increased. 14-26 weeks: 1/7 decreased 0/7 increased.
± 2.05 kg		0-14: 7/9 increased. 14-12: 2 that improved decreased



± 2.98 kg		0-14: 7/9 increased, 1/9 decreased. 14-26: 4/6 that improved no change, 2/6 decreased
± 1.21		no changes
± 2.11		0-14: 6/9 improved GMFM-66 or BOTMP; 14-26: 4/6 that improved decreased to baseline
± 7.0		
± 8.5		
2 sec		0-14: 5/8. 14-26: all maintained
30 sec		0-14 weeks: 4/4 improved. 14-26: 4/4 declined
	5	0-14: 4/9 improved; 14-26: 2/4 that improved improved, 1 declined
	5	0-14: 4/5 improved; no further changes
	3	0-14 weeks: 5/8 improved. 14-26: 2/6 decreased - both had improved

		4/6 children demonstrated increased strength beyond defined level of chance.
		Muscle strength outcomes were variable within and across children.
		Muscle strength outcomes were variable within and across children.
		4/6 increased some strength parameter. All increased in at least 3/6 strength measures.

		6/6 demonstrated some improvements. 4/6 change beyond chance
		Improvements noted for all (5) children.
		Satisfaction scores ranged from 2-8 out of 10 at baseline and from 8-10 post-intervention.

