

Results

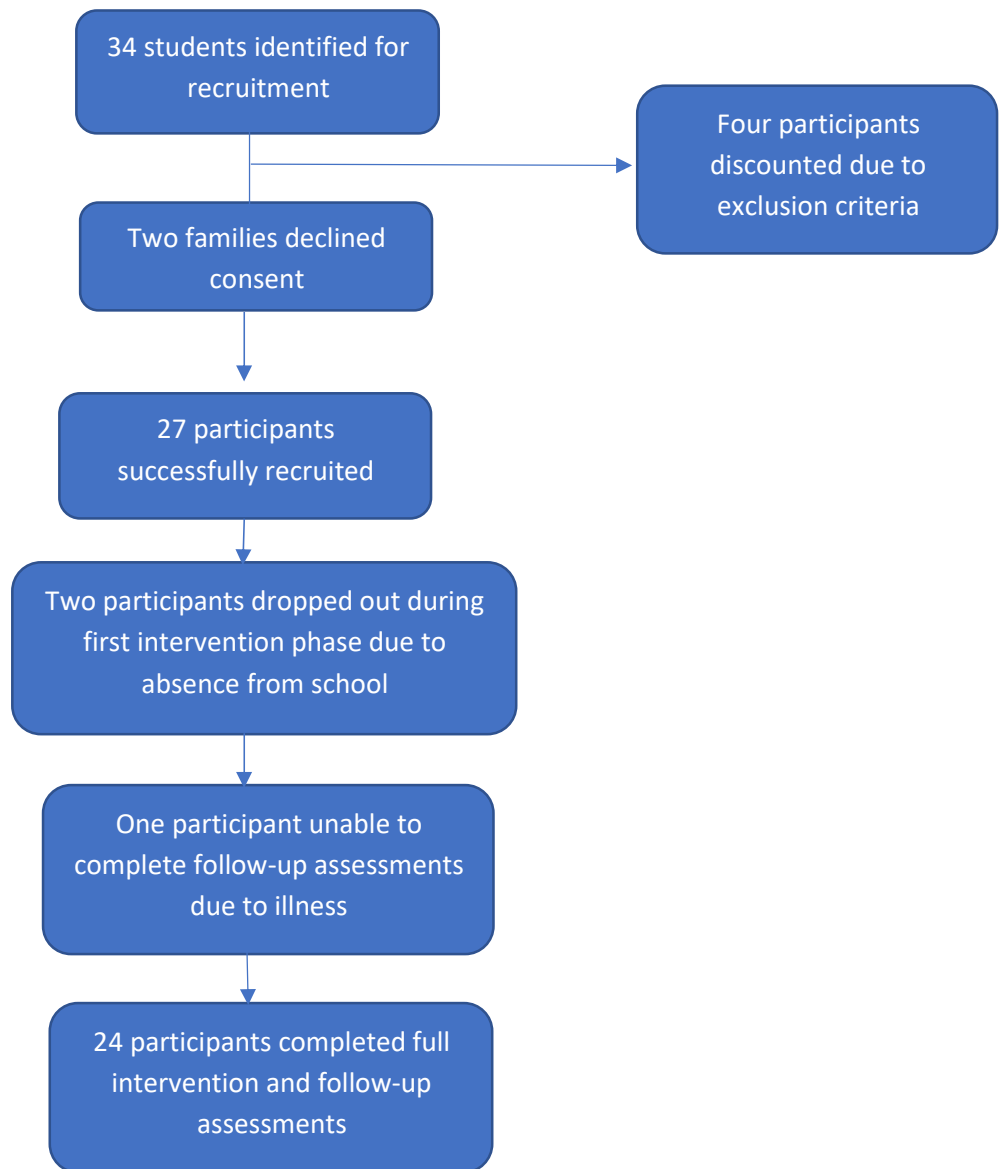


Table 1: Demographic summary of patient group

Variable	n	Category	Summary
Gender	27	Female	10 (37%)
		Male	17 (63%)

Age	27	-	12.7 ± 4.0
School phase	27	Primary	11 (41%)
		Secondary	16 (59%)
GMFCS	27	IV	15 (56%)
		V	12 (44%)

Baseline characteristics for participant. Summary statistics are: number (percentage) or mean ± standard deviation

Table 2: Changes in CPCHILD, GAS, ROM, and spasticity pre and post Innowalk Intervention

	Timepoint One Pre-Intervention (n=27)	Timepoint Two Immediately Post-Intervention (n=25)	Timepoint Three Six-weeks post-intervention (n=24)	Timepoint Four Three-months post-intervention (n=24)	P-value (overall)
CPCHILD	60.4 (13.6)	63.5 (12.3)*	66.0 (12.5)*	64.8 (11.7) *	0.004
GAS score	-2.0 (0.0)	1.0 (1.2)**	0.2 (1.2)**	-0.3 (1.3)**	<0.001
Left Hip extension (Median)	15	15	15.5	11.5	0.02
Right Hip extension (Median)	13	14	14	11	0.05
Left knee extension (Median)	-5	-5	-10	-12	0.02

Right Knee extension (Median)	-9	-10	-9	-14.5	0.17
Left Ankle extended (Median)	0	-2	-5	3	0.02
Right Ankle extended (Median)	-5	0	-5.5	1.75	0.03
Left Ankle flexed (Median)	16	13	10	15	0.004
Right Ankle flexed (Median)	15	12	9.5	13	0.08
Left gastrocnemius Spasticity (Median)	-12	-10	-15.5	-8	0.02
Right gastrocnemius Spasticity (Median)	-13	-12	-10	-7.5	0.27
Left Soleus spasticity (Median)	0	0	-3	0.75	0.25
Right Soleus spasticity (Median)	0	0	4	4	0.19

$P < 0.05$ * $P < 0.01$ ** $P < 0.001$ Measurements were taken pre and post the six-week intervention (timepoints one & two), six-weeks post intervention (timepoint three) and three-months post intervention (timepoint four). ROM was measured in degrees. Spasticity of rectus femoris, hamstrings, were also measured and found to be non-significant. Full assessment details are available from the author.

Table 3: Changes in CPCHILD sub-components

Variable	Timepoint 1 (n=27)	Timepoint 2 (n=25)	Timepoint 3 (n=24)	Timepoint 4 (n=24)	P-value (overall)
Component 1 Personal Care/ ADL	40.1 ± 13.1	42.8 ± 13.4	43.9 ± 12.6	43.1 ± 15.0	0.32
Component 2, Positioning, Transferring & Mobility	38.5 ± 13.2*	44.0 ± 13.2	44.1 ± 12.8	44.4 ± 14.5	0.006
Component 3, Comfort and Emotions	73.7 ± 21.6*	83.1 ± 12.7	82.7 ± 18.7	81.3 ± 18.9	0.006
Component 4, Communication & Social Interaction	57.1 ± 20.1	57.6 ± 19.9	60.7 ± 19.8	59.8 ± 17.8	0.77
Component 5, Health	65.1 ± 16.7	69.3 ± 19.0	73.6 ± 14.8	69.7 ± 15.6	0.04
Component 6, Overall QoL	62.3 ± 25.5	64.0 ± 21.6	72.5 ± 24.2	70.0 ± 22.1	0.06
Component 7, Importance of items to QOL	83.9 ± 9.2	84.1 ± 9.7	84.4 ± 10.7	84.5 ± 11.3	0.97

P < 0.05 * P < 0.01 ** P < 0.001