

Table 2: Pre-test, mid test and Post-test values of MTUG test, GMFM, gait stride length (RT and LT) of task specific training with strengthening exercise (N=12) on spastic diplegia children.

N	Age/ Sex	Gross Motor Function Classification System (GMFCS)- Level II			
		Modified Timed Up and Go test (Seconds)	Gross Motor Function Measure	Gait Stride Length	
			Walking (Score)	Right Lower limb (centimetres)	Left Lower limb (centimetres)

Pre Mid Post Pre Mid

Figure 1: Flow chart representation.

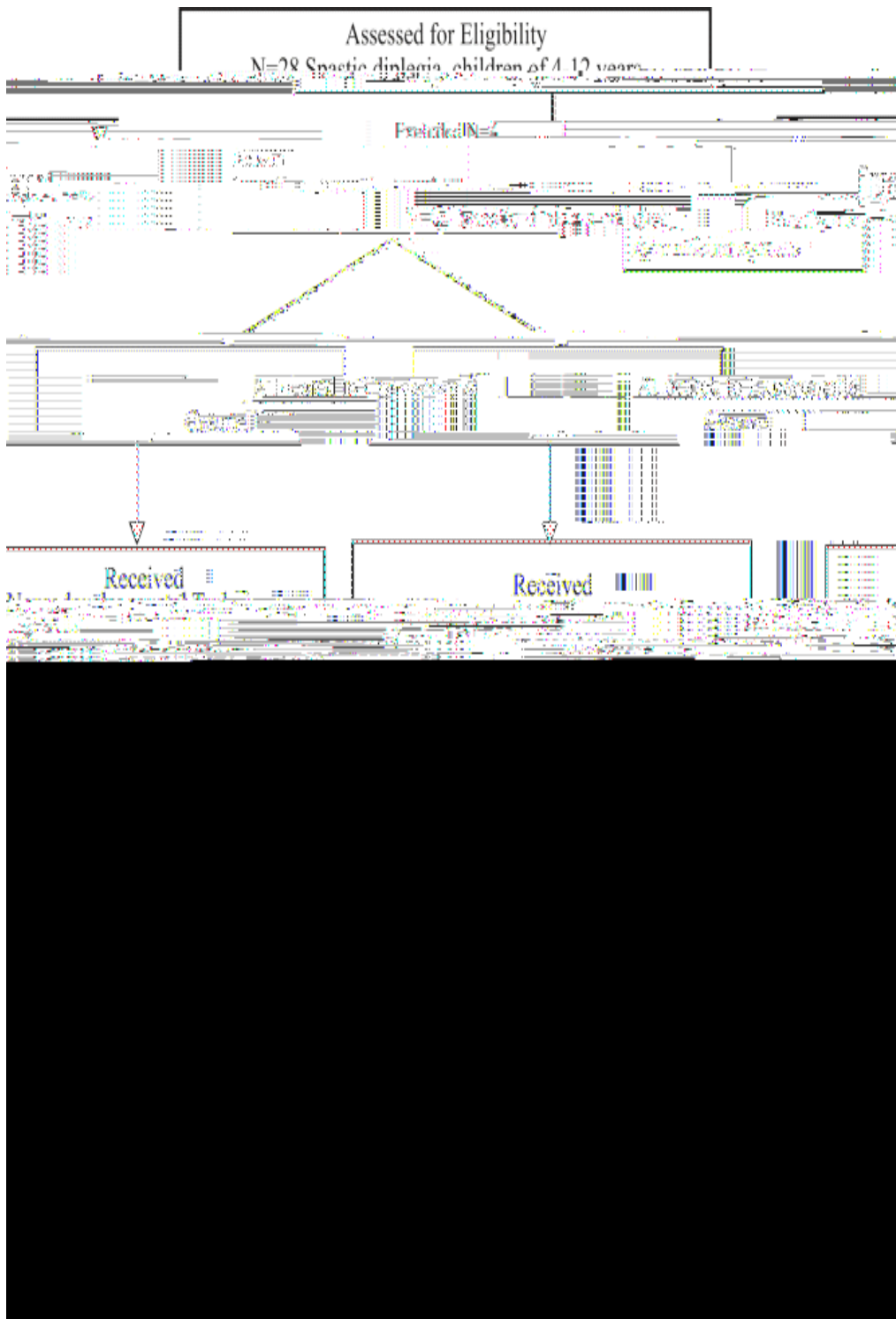


Table 3: Mean and standard deviation of pre-test, mid test and post test scores of GMFM walking of

Figure 2: Graphical representation of pre-test, mid test and post-test mean scores of GMFM walking of neurodevelopmental technique group

(F=63.067)

I.b. Data analysis of modified time Up and Go test of neurodevelopmental technique group

Table 6: Mean and standard deviation of pre-test, mid test and post test scores of modified TUG of neurodevelopmental technique group

Variable	Mean	Std. Deviation	N
MTUG-			

Source	Sum of Squares	Df	Mean Square	F	Sg.
Between Periods	121.500	2	60.750	92.172	*
Error	14.500	22	.659		

*Significant difference: F-ratio value 92.172 is greater than the table value of 3.443 at 5% level

(F=92.172)

Analysis of gait right stride length of neurodevelopmental technique group

Table 9: Mean and standard deviation of pre-test, mid test and post test scores of gait right stride of neurodevelopmental technique group.

Variable	Mean	Std. Deviation	N
Gait Right Stride – Pre	62.2083	3.5768	12
Gait Right Stride – Mid			

Table 10: Repeated Measures ANOVA for Gait Right stride of Neurodevelopmental

(F=38.315)

I.d.

Significant difference exists between pre-test and mid test, mid test and post-test and pre-test and post-test scores of Gait Left stride for Neurodevelopmental Technique group at 0.05% level.

Table 14.1: ANCOVA results of pre-test, post-test and adjusted post-test means and Standard Deviation of Pre-test and post-test of gait left stride of neurodevelopmental technique (NDT) and task specific training with strengthening exercise (TASK).

Techniques	Gait Lt stride- Pre Test			Gait Lt stride- Post Test			Adjusted Post Test
	Mean	S.D	No.	Mean	S.D	No.	Mean
Conventional Group I	61.83	3.61	12	64.88	2.96	12	65.26
Experimental Group II	62.83	3.51	12	66.63	3.02	12	66.23

Table 14.2: ANCOVA results for gait left stride length.

Source	Sum of Squares	df	Mean Square	F	Sig.
Covariate- GAIT Lt Stride -Pre-test	185.723	1	185.723	163.648	*

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* Significant difference: F-ratio value 100.180 is greater than the table value of 3.443 at 0.05% level of significance.

Table 20: Newman- difference between treatment means of MTUG scores for task specific training with strengthening exercise group.

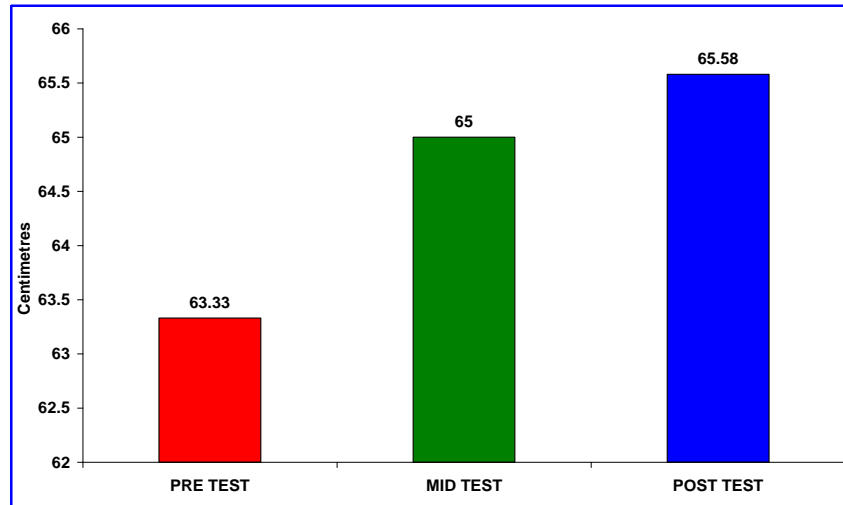
Treatment		Pre	Mid	Post	r	RCV
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II.c. Data analysis of gait right

RCV		0.570	0.690		
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Significant difference between pre-test and mid test, mid test and post-test and pre-test and post-test scores of Gait Right stride for Task specific training with strengthening exercise group at 0.05% level.

Figure 8: Graphical representation of pre-test, mid test and post-test mean scores of gait right stride of task specific training with strengthening exercise group.



4.10.b Data analysis of gait left stride length of task specific training with strengthening exercise group (TASK).

Table 24: Mean and standard deviation of pre-test, mid test and post-test scores of gait left stride of task specific training with strengthening exercise group.

Variable	Mean	Std. Deviation	N
Gait Left Stride – Pre	62.8333	3.5054	12
Gait Left Stride – Mid	65.0000	3.4112	12
Gait Left Stride – Post	66.6250	3.0161	12

Table 25: Repeated measures ANOVA for gait left stride of task specific training with strengthening exercise group.

Source	Sum of Squares	Df	Mean Square	F	Sig.
Between Periods	86.847	2	43.424	102.508	*
Error	9.319	22	.424		

* Significant difference: F-ratio value 102.508 is greater than the table value of 3.443 at 0.05% level of significance.

Table 26: Newman-K test on d

Source	Sum of Squares	Df	Mean Square	F	Sig.
Covariate- GMFM Walking -Pre-test	3.279	1	3.279	1.866	Ns
Between Groups	19.665	1	19.665	11.195	*

training with strengthening exercise (TASK).

Table 29: ANCOVA results on pre-test, post-test and adjusted post-test means and

Figure 11: Graphical representation of pre-test, post-test and adjusted post-test means of modified timed Up and Go test of neurodevelopmental technique (NDT) and task specific training with strengthening exercise (TASK).

III.c. Comparison of pre-test, post-test and adjusted post-test means of gait right stride between neurodevelopmental technique group (NDT) and task specific training with strengthening exercise (TASK)

Table 31: ANCOVA results on pre-test, post-test and adjusted post-test means and standard deviation of pre-test and post-test of gait right stride of neurodevelopmental technique (NDT) and task specific training with strengthening exercise (TASK).

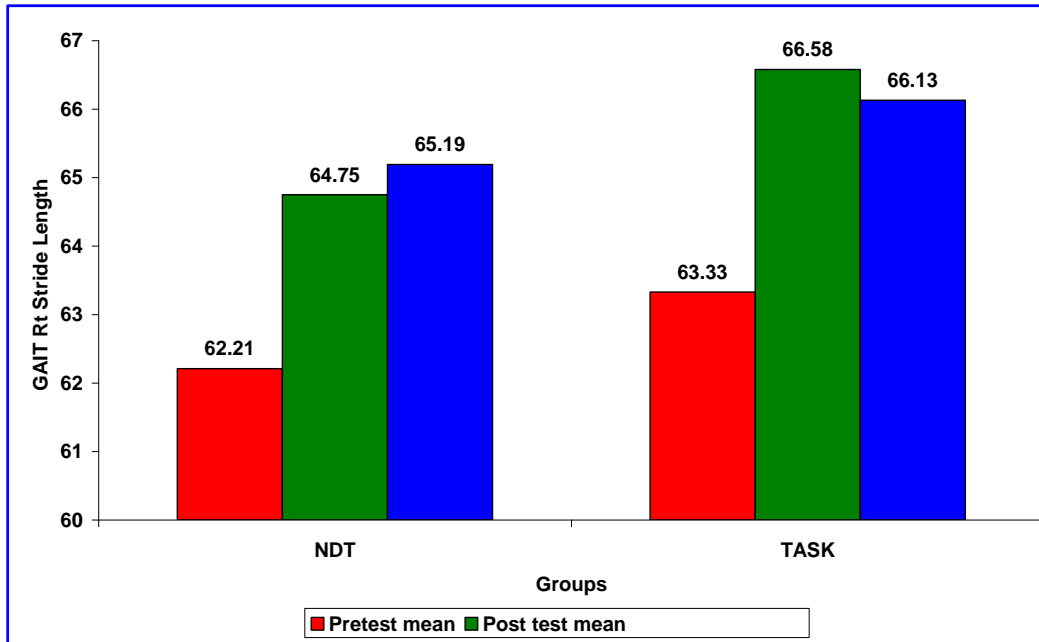
Techniques	Gait Rt Stride- Pre Test			Gait Rt Stride- Post Test			Adjusted Post Test
	Mean	S.D	No.	Mean	S.D	No.	Mean
Conventional Group I	62.21	3.58	12	64.75	2.72	12	65.19
Experimental Group II	63.33	3.34	12	66.58	3.03	12	66.13

Table 32: ANCOVA results for gait right stride length.

Source	Sum of Squares	df	Mean Square	F	Sig.
Covariate- Gait Rt Stride -Pre-test	180.504	1	180.504	227.536	**
Between Groups	5.170	1	5.170	6.517	*
Within groups	16.659	21	.793		
Total	202.333	23			

* Significant difference: F ratio values between groups is 6.517. The Critical value is 4.325.

Figure 12: Graphical representation of pre-test, post-test and adjusted post-test means of gait right stride length of neurodevelopmental technique (NDT) and task specific training with strengthening exercise (TASK).



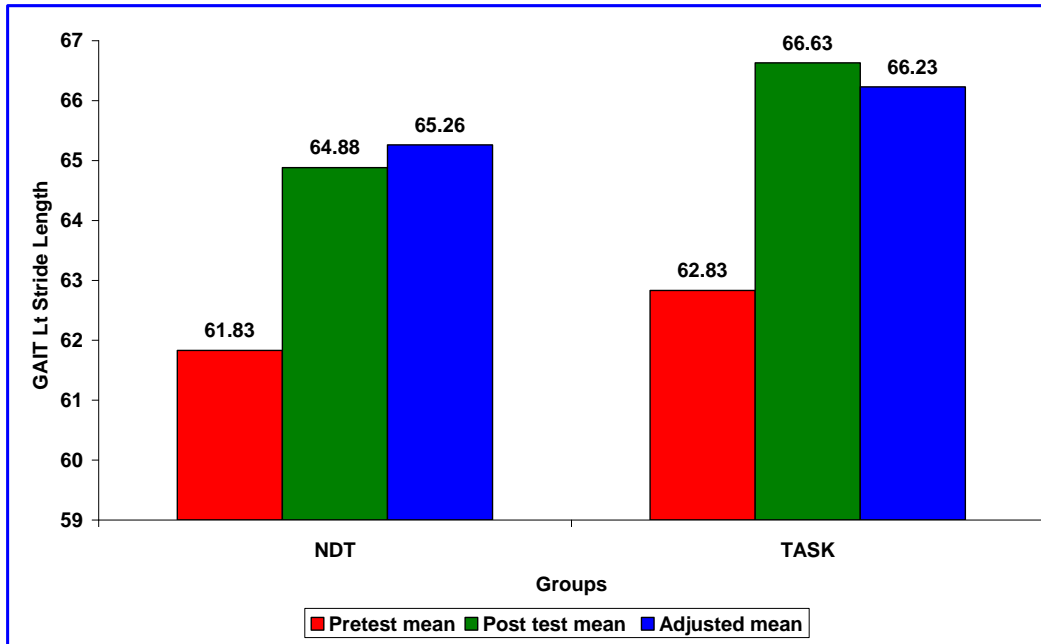
(F=6.517)

NDT- Neurodevelopmental technique

TASK- Task specific training with strengthening exercise

III.d. Comparison of pre-test, post-test and adjusted post-test means of gait left stride between neurodevelopmental technique group (NDT) and task specific training with strengthening exercise (TASK).

Figure 13: Graphical representation of pre-test, post-test and adjusted post-test means of gait left stride length of neurodevelopmental technique (NDT) and task specific training with strengthening exercise (TASK).



(F=4.798)

NDT- Neurodevelopmental technique

TASK- Task specific training with strengthening exercise