

	Memantine group (n=13)				Placebo group (n=11)				p-value of the interaction (adjusted effect size for the group STN stimulation)
	STN stimulation (8)		No STN stimulation (5)		STN stimulation (7)		No STN stimulation (4)		
	Study entry	Study end	Study entry	Study end	Study entry	Study end	Study entry	Study end	
Gait (optoelectronic analysis)									
Stride length (m)	1.1 [1-1.2]	1.1 [1-1.2]	0.9 [0.7-1.2]	0.8 [0.7-1.1]	1.1 [0.8-1.2]	1.2 [0.9-1.4]	0.8 [0.7-1.1]	0.8 [0.7-1.2]	F _(1,19) =0.46; p=0.51 (0.1)
Velocity (m/s)	1.05 [1-1.1]	1.1 [1-1.2]	1.05 [1-1.2]	1.1 [1-1.1]	1.1 [1-1.1]	1.1 [1-1.1]	1.1 [1-1.1]	1.1 [1-1.1]	F _(1,19) =0.14; p=0.71 (-0.4)
Cadence (steps/min)	114 [111-125]	110 [96-125]	114 [103-125]	111 [108-115]	113 [105-119]	112 [108-114]	111 [110-112]	113 [111-120]	F _(1, 19) =0.09; p=0.77 (-0.4)
Motor handicap (motor UPDRS score)									
Axial subscore	10 [8-11]	8 [6-10]	12 [9-14]	9 [7-13]	11 [10-14]	10 [9-15]	8 [8-10]	9 [8-10]	F _(1,19) =4; p=0.06 (-2)
Overall score	22.5 [18-37]	21 [15-32]	30 [20-43]	28 [19-40]	25 [22-35]	27 [23-35]	30 [25-36]	30 [25-35]	F _(1,19) =1.23; p=0.28 (-1.2)
Dyskinesia (on the Dyskinesia Rating Scale)									
Axial subscore	3 [2-3]	1 [0-2]	2 [2-4]	1 [0-1]	3 [1.5-3.5]	3 [1.5-3.5]	2.5 [1-4]	2 [1-3]	F _(1,19) =0.46; p=0.51(-1.4)
Overall score	7 [3-9]	4 [1-7]	4 [4-5]	0 [0-3]	7 [6-9]	8 [6-11]	3.5 [1-7]	3.5 [1-7]	F _(1, 19) =0.39; p=0.54 (-2)
Trunk hypertonia (isokinetic dynamometer)									
Flexor (J)	5 [4-6]	3.5 [2.5-5]	3.5 [3-4]	2.5 [2-3]	5 [4-7]	5 [4-7]	4 [3-7]	5 [4-7]	F _(1,19) =1.58; p=0.22 (-2.7)
Extensor (J)	3.5 [2-8]	2.5 [2-4]	4.5 [2-8]	3.5 [1-7]	5 [4-5]	5 [5-5.5]	4 [2-5]	4 [4-5]	F _(1,19) =0.13; p=0.72 (-2)
Trunk flexor and extensor strength (isokinetic dynamometer)									
Flexor (J)	20 [15-25]	30 [20-31]	25 [20-30]	38 [35-48]	30 [22-33]	28 [26-31]	20 [13-28]	19 [15-24]	F _(1,16) =0.03; p=0.86 (1.8)
Extensor (J)	26 [15-40]	33 [28-38]	25 [19-25]	32 [20-38]	24 [17-36]	23 [17-34]	20 [17-26]	21 [17-28]	F _(1,16) =0.87; p=0.37 (1.4)