Tests of Between-Groups Effects – All Groups

MANOVA-

				No covariate			Controlling for gait speed		
Sensor Location	Plane	df	Statistic	F#/H p Ŋ ²		F	р	n^2	
Sacrum	3D	3	F	3.406	.022	.127	3.51	0.02	0.132
	Mediolateral	3	F	2.897	.041	.11	2.695	0.053	0.105
	Anteroposterior	3	F	1.592	.199	.064	1.587	0.200	0.065
	Vertical	3	Н	9.942	.019^	.129	2.885	0.042	0.111
Sternum	3D	3	F	7.555	.000	.245	3.884	0.013	0.144
	Mediolateral	3	F	8.818	.000	.274	2.293	0.086	0.091
	Anteroposterior	3	Н	18.104	.000^	.24	2.998	0.037	0.115
	Vertical	3	Н	11.599	.009^	.17	4.045	0.010	0.150

^{*}transformed variable

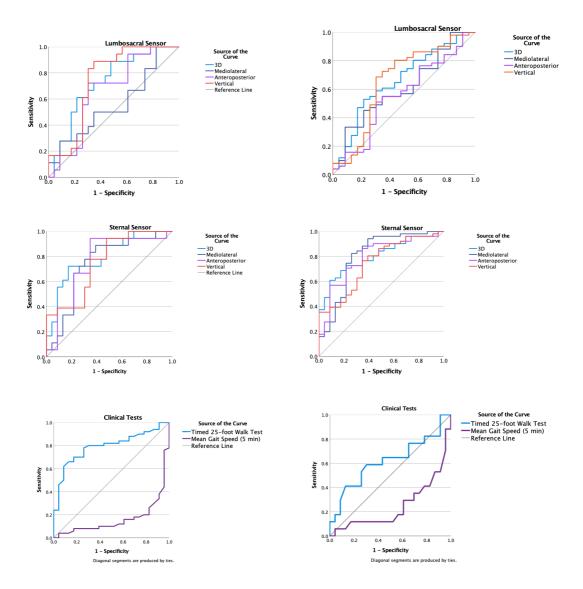
[#] Tukey adjusted

Tests of Between-Group Effects										
Healthy Controls versus EDSS 0-1										
MANOVA			No covariat	e	Controlling for gait speed					
Sensor Location	Plane	F	р	η^2	F	р	η²			
Sacrum	3D	4.772	.035	.109	5.895	0.02	0.134			
	Mediolateral	0.844	.364	.021	1.138	0.293	0.029			
	Anteroposterior	3.000	.091	.071	4.213	0.047	0.100			
	Vertical	6.078	.018	.141	3.679	0.063	0.088			
Sternum	3D	11.846	.001	.233	10.5	0.002	0.216			
	Mediolateral	6.695	.014	.147	2.432	0.127	0.060			
	Anteroposterior	6.586	.014	.152	5.573	0.023	0.128			
	Vertical	10.559	.002	.219	13.277	0.001	0.259			
			No covariat	e						
Clinical Tests	Timed 25 ft walk	2.487	.123	.061						
	Average Gait Speed over 5 min (m/s)	5.390	.026	.124						

 $^{^{\}wedge}$ Bonferroni correction for multiple comparisons requires p<0.0083

Spearman's Correlations

·		EDSS	Kurtzke Functional System Score						
		total	pyramidal	cerebellar	brainstem	sensory	bowel & bladder	visual	mental
		r	r	r	r	r	r	r	r
		(p)	(p)	(p)	(p)	(p)	(p)	(p)	(p)
Clinical Tests	Timed 25 ft walk	.486**	.348*	.475**	0.029	.357*	0.042	0.134	0.087
		(< .001)	0.013	(< .001)	0.839	0.011	0.773	0.352	0.548
	Mean Gait Speed	459**	427**	391**	0.08	324*	-0.065	-0.065	-0.083
		0.001	0.002	0.005	0.577	0.02	0.651	0.649	0.565
Sacrum	3D	.099	.138	130	.198	.198	112	055	.012
Sensor		(.489)	(.335)	(.365)	(.165)	(.163)	(.435)	(.702)	(.931)
	Mediolateral	.280*	.137	074	.241	.362**	008	075	.216
		(.046)	(.337)	(.606)	(.089)	(.009)	(.954)	(.599)	(.129)
	Anteroposterior	083	.131	074	.085	.089	222	089	.029
		(.561)	(.358)	(.605)	(.554)	(.534)	(.117)	(.534)	(.843)
	Vertical	.084	.157	.043	046	.061	051	082	.059
		(.559)	(.272)	(.766)	(.748)	(.672)	(.722)	(.566)	(.68)
Sternum	3D	.330*	.447**	.139	.142	.248	.036	130	.027
Sensor		(.018)	(.001)	(.330)	(.320)	(.079)	(.802)	(.362)	(.851)
	Mediolateral	.360**	.397**	.061	.125	.293*	.004	.021	.116
		(.010)	(.004)	(.671)	(.381)	(.037)	(.980)	(.886)	(.418)
	Anteroposterior	.304*	.281*	.175	.219	.270	106	.014	046
		(.030)	(.046)	(.219)	(.123)	(.055)	(.459)	(.924)	(.750)
	Vertical	.104	.254	.001	.115	.128	.016	048	.058
		(.468)	(.072)	(.997)	(.421)	(.371)	(.912)	(.738)	(.688)



Figures 2a-f.