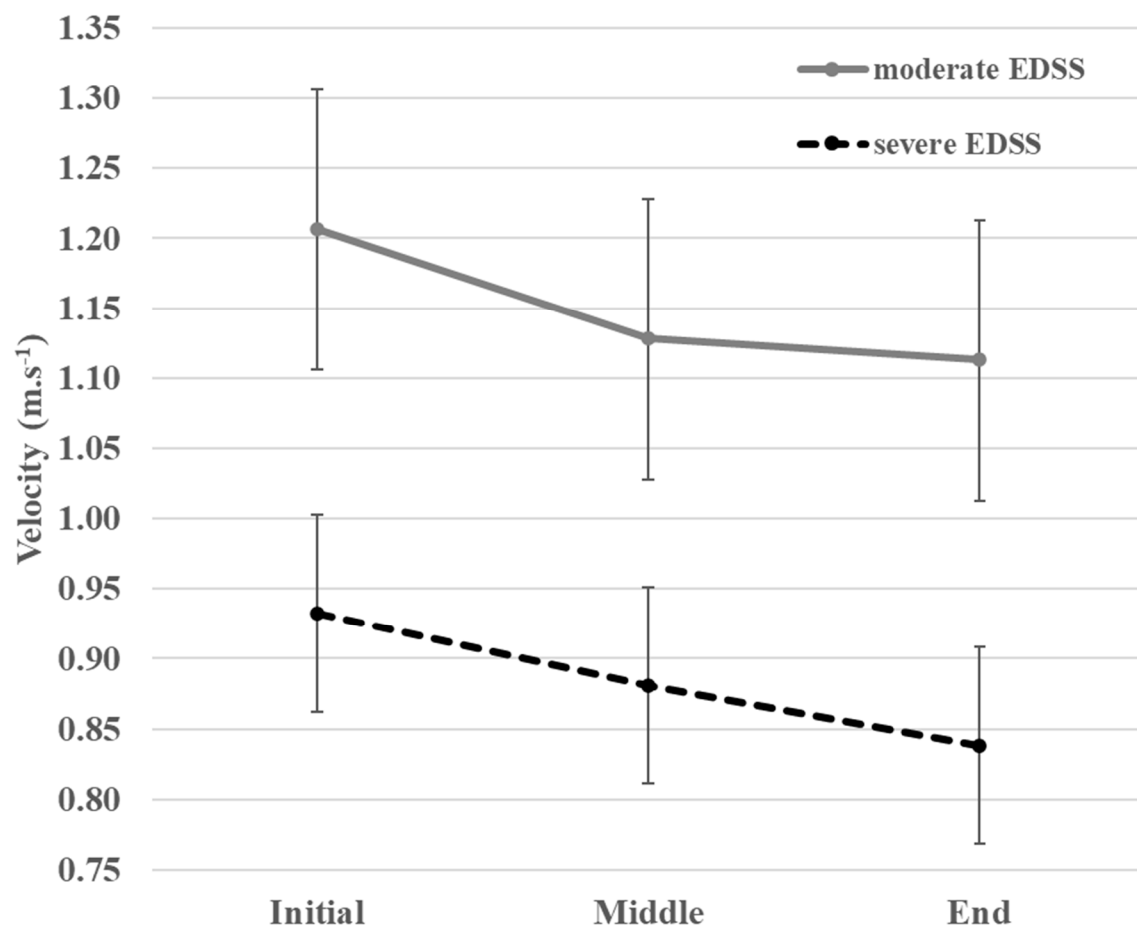


**Supplementary data SA:** Spatio-temporal variables during each interval of the 6MWT for PwMS with moderate and severe MS.

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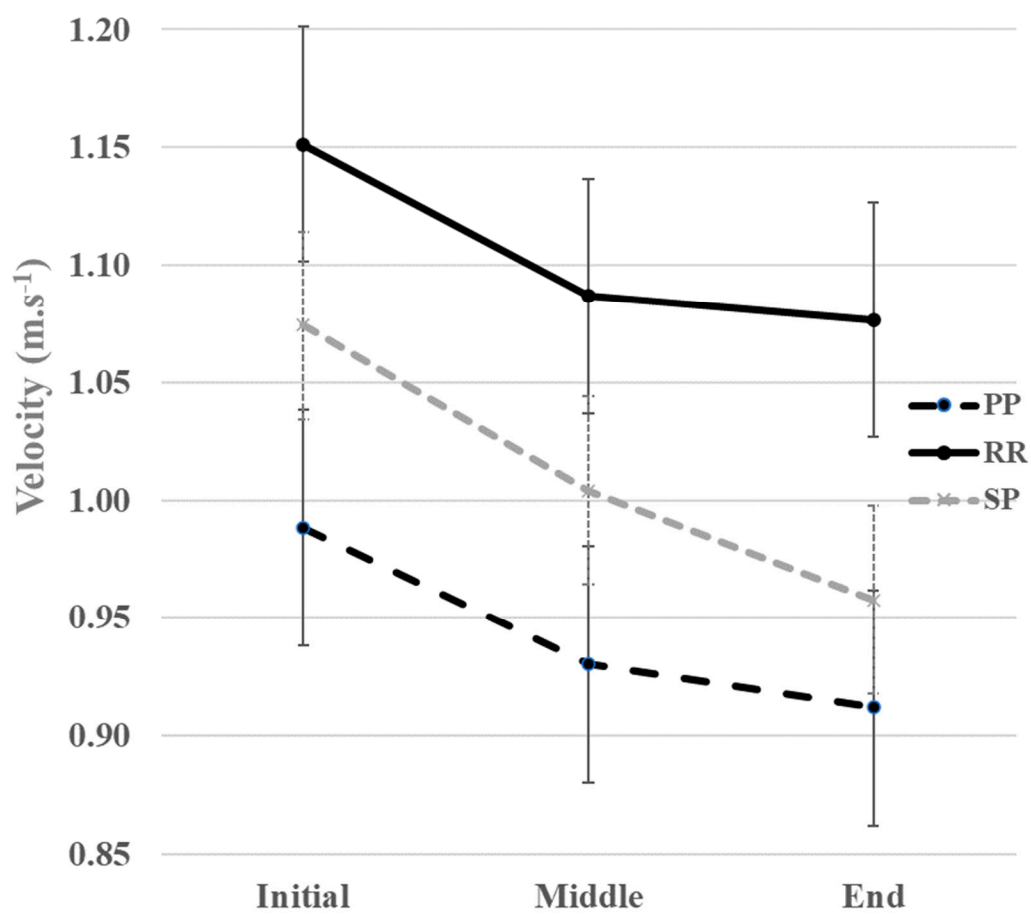


Moderate EDSS [4] (n=22)			
6MWT interval			
ST variables	Initial	Middle	End
<i>Velocity (m.s<sup>-1</sup>)</i>	1.21 (0.24)	1.13 (0.24)	1.11 (0.24)
<i>Cadence (step.min<sup>-1</sup>)</i>	111.32 (10.52)	107.93 (9.48)	106.36 (9.88)
<i>Stride length (m)</i>	1.29 (0.20)	1.27 (0.21)	1.25 (0.21)
<i>Stride width (m)</i>	0.14 (0.04)	0.15 (0.04)	0.15 (0.04)
<i>Double support time (% GC)</i>	31 (4.18)	32 (4.21)	32 (4.62)

Severe EDSS [4.5-6.5] (n=23)			
6MWT interval			
ST variables	Initial	Middle	End
<i>Velocity (m.s<sup>-1</sup>)</i>	0.93 (0.23)	0.88 (0.23)	0.84 (0.23)
<i>Cadence (step.min<sup>-1</sup>)</i>	100.06 (13.27)	95.11 (13.42)	91.97 (13.90)
<i>Stride length (m)</i>	1.11 (0.19)	1.06 (0.19)	1.02 (0.19)
<i>Stride width (m)</i>	0.14 (0.05)	0.15 (0.04)	0.15 (0.04)
<i>Double support time (% GC)</i>	34 (6.16)	36 (6.55)	37 (6.68)

**Supplementary data SB:** Spatio-temporal variables during each interval of 6MWT for PwMS with PP, RR and SP phenotype

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6MWT interval									
ST variables <sup>a</sup>	PwMS with PP phenotype (n= 14)			PwMS with RR phenotype (n= 11)			PwMS with SP phenotype (n= 20)		
	Initial	Middle	End	Initial	Middle	End	Initial	Middle	End
<i>Velocity (m.s<sup>-1</sup>)</i>	0.98 (0.31)	0.93 (0.32)	0.91 (0.31)	1.15 (0.22)	1.09 (0.25)	1.08 (0.20)	1.07 (0.26)	1.00 (0.25)	0.96 (0.27)
<i>Cadence (step.min<sup>-1</sup>)</i>	101.98 (15.16)	97.66 (15.49)	96.61 (15.46)	109.63 (7.00)	105.78 (6.88)	104.30 (7.02)	105.83 (14.12)	101.55 (13.96)	98.06 (14.62)
<i>Stride length (m)</i>	1.14 (0.27)	1.12 (0.27)	1.11 (0.28)	1.25 (0.20)	1.22 (0.23)	1.21 (0.20)	1.21 (0.17)	1.17 (0.18)	1.14 (0.19)
<i>Stride width (m)</i>	0.14 (0.03)	0.15 (0.04)	0.15 (0.04)	0.12 (0.03)	0.13 (0.03)	0.14 (0.03)	0.14 (0.06)	0.15 (0.05)	0.15 (0.05)
<i>Double support time (% GC)</i>	35 (7.31)	36 (7.91)	37 (7.85)	32 (4.27)	33 (4.40)	34 (4.44)	31 (4.07)	32 (4.25)	32 (4.72)