

Table S1: Results of Statistical Analysis

Variable	Participant Groups						
	HC (n=125)	PLW-UVD(I) (n=49)	PLW-UVD(C) (n=45)	PLW-Mild-MS(L) (n=64)	PLW-Mild-MS(H) (n=79)	PLW-Mod-MS(L) (n=64)	PLW-Mod-MS(H) (n=79)
	median (interquartile range)						
VOR Gain	0.97 (0.90 - 1.02)	0.35 (0.31 - 0.40)	0.80 (0.75 - 0.84)	0.90 (0.84 - 0.94)	0.95 (0.90 - 1.00)	0.43 (0.29 - 0.59)	0.66 (0.54 - 0.78)
GPE	0.5 (-0.3 - 0.9)	7.0 (6.0 - 8.2)	2.4 (2.0 - 3.1)	1.2 (0.6 - 2.2)	0.5 (0.0 - 1.2)	9.5 (7.6 - 11.7)	4.9 (3.0 - 7.7)
Frequency	1.0 (0.0 - 1.0)	2.0 (1.0 - 2.0)	1.0 (1.0 - 2.0)	1.0 (1.0 - 2.0)	1.0 (1.0 - 2.0)	1.0 (0.8 - 2.0)	2.0 (1.0 - 2.5)
Latency	151.0 (72.0 - 261.0)	178.7 (159.0 - 198.0)	166.7 (101.5 - 196.0)	244.0 (195.5 - 293.0)	230.0 (183.0 - 305.0)	168.0 (113.5 - 217.0)	240.0 (193.3 - 291.3)
Peak Velocity	99.9 (48.0 - 141.8)	169.7 (127.8 - 209.9)	96.7 (73.2 - 149.1)	78.2 (54.3 - 113.3)	58.7 (19.9 - 101.3)	63.0 (49.7 - 74.5)	159.8 (122.9 - 221.4)

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These data for vestibular and compensatory oculomotor metrics are presented as median (inter-quartile range). HC = healthy control. PLW-UVD(I) = people living with unilateral deafferentation, ipsilesional side. PLW-UVD(C) = people living with unilateral deafferentation, contralesional side. PLW-Mild-MS(L) = people living with mild multiple sclerosis, side with lower VOR gain. PLW-Mild-MS(H) = people living with mild multiple sclerosis, side with higher VOR gain. PLW-mod-MS(L) = people living with moderate multiple sclerosis, side with lower VOR gain. PLW-moderate-MS(H) = people living with moderate multiple sclerosis, side with higher VOR gain. VOR = vestibulo-ocular reflex. GPE = gaze position error.

Table S1: Results of Statistical Analysis (Continued)

Variable	Pairwise Comparisons																				
	Overall	HC v UVD(I)	HC v UVD(C)	HC v Mild-MS(L)	HC v Mild-MS(H)	HC v Mod-MS(L)	HC v Mod-MS(H)	UVD(I) v Mild-MS(L)	UVD(I) v Mild-MS(H)	UVD(C) v Mild-MS(L)	UVD(C) v Mild-MS(H)	UVD(I) v Mod-MS(L)	UVD(I) v Mod-MS(H)	UVD(C) v Mod-MS(L)	UVD(C) v Mod-MS(H)	Mild-MS(L) v Mild-MS(H)	Mild-MS(L) v Mod-MS(L)	Mild-MS(L) v Mod-MS(H)	Mild-MS(H) v Mod-MS(L)	Mild-MS(H) v Mod-MS(H)	
	p-values from a Kruskal-Wallis test with pairwise comparisons, adjusted using Holm's method																				
VOR Gain	<0.001	<0.001	<0.001	<0.001	0.338	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.248	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
GPE	<0.001	<0.001	<0.001	<0.001	0.428	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Frequency	<0.001	<0.001	0.003	<0.001	0.074	0.001	<0.001	0.032	<0.001	>0.999	0.74	0.57	>0.999	>0.999	0.086	0.329	>0.999	0.013	0.609	<0.001	0.183
Latency	<0.001	>0.999	>0.999	<0.001	0.008	>0.999	<0.001	<0.001	0.005	<0.001	0.011	>0.999	<0.001	>0.999	<0.001	>0.999	<0.001	>0.999	0.005	>0.999	<0.001
Peak Velocity	<0.001	<0.001	>0.999	0.695	0.02	0.003	<0.001	<0.001	<0.001	0.247	0.006	<0.001	>0.999	<0.001	<0.001	0.107	0.065	<0.001	>0.999	<0.001	<0.001

HC = healthy control. PLW-UVD(I) = people living with unilateral deafferentation, ipsilesional side. PLW-UVD(C) = people living with unilateral deafferentation, contralesional side. PLW-Mild-MS(L) = people living with mild multiple sclerosis, side with lower VOR gain. PLW-Mild-MS(H) = people living with mild multiple sclerosis, side with higher VOR gain. PLW-mod-MS(L) = people living with moderate multiple sclerosis, side with lower VOR gain. PLW-moderate-MS(H) = people living with moderate multiple sclerosis, side with higher VOR gain. VOR = vestibulo-ocular reflex. GPE = gaze position error.