Supplementary material

Table 1. Descriptive statistics for the PS-weighted cohort for the time to second attack according to OC exposure.

	Never OC	OC after CIS	SMD
N, weighted instances	119.55	27.80	
Age at CIS (mean (SD))	28.89 (8.32)	29.18 (7.65)	0.037
CIS topography, n (%)			0.108
Optic nerve	37.1 (31.0)	8.6 (30.9)	
Brainstem	43.8 (36.6)	9.0 (32.3)	
Spinal cord	30.5 (25.5)	8.2 (29.6)	
Other	8.2 (6.9)	2.0 (7.1)	
MRI T2 lesions, n (%)			0.546
none	23.7 (19.8)	9.7 (34.7)	
1-3	16.7 (13.9)	5.3 (19.1)	
4-9	16.1 (13.5)	0.6 (2.2)	
>9	63.1 (52.8)	12.2 (44.0)	
MRI T2 lesions >9, n (%)	63.1 (52.8)	12.2 (44.0)	0.175
OB in CSF, n (%)			0.115
negative	35.9 (30.0)	7.0 (25.1)	
positive	66.1 (55.3)	16.2 (58.3)	
unknown	17.6 (14.7)	4.6 (16.7)	
MRI CEL lesions, n (%)			0.647
0 lesions	46.7 (39.1)	15.1 (54.4)	
1 lesion	13.1 (10.9)	4.3 (15.5)	
>1 lesions	26.3 (22.0)	0.7 (2.5)	
unknown	33.4 (28.0)	7.7 (27.6)	

Initiates treatment, n(%)	68.4 (57.2)	16.2 (58.3)	0.021
Early treated, n(%)	23.2 (19.4)	5.0 (18.0)	0.037
Parity ≥ 1, n(%)	68.6 (57.4)	18.1 (65.3)	0.163
Smoking status at CIS, n(%)	70.5 (59.0)	21.1 (75.8)	0.364
Body size at menarche, n(%)			0.325
Underweight (1-3)	62.7 (52.4)	17.0 (61.0)	
Normal weight (4-6)	42.5 (35.6)	9.8 (35.4)	
Overweight (7-9)	14.3 (12.0)	1.0 (3.6)	
Follow up years (mean (SD))	10.68 (5.49)	11.78 (5.28)	0.205

SMD: Standard Mean Difference

Table 2. Descriptive statistics for the PS-weighted cohort for the time to moderate disability (confirmed EDSS of 3.0) according to OC exposure.

	Never OC	**OC after CIS**	**SMD**
N, weighted instances	104.20	44.02	
Age at CIS (mean (SD))	28.88 (8.18)	29.45 (8.84)	0.068
CIS topography, n(%)			0.321
Optic nerve	32.1 (30.8)	12.1 (27.6)	
Brainstem	35.0 (33.6)	21.2 (48.2)	
Spinal cord	29.2 (28.0)	8.1 (18.5)	
Other	7.9 (7.6)	2.5 (5.7)	
MRI T2 lesions, n(%)			0.539
none	22.1 (21.2)	9.6 (21.9)	
1-3	12.5 (12.0)	11.6 (26.4)	
4-9	14.9 (14.3)	1.2 (2.7)	
>9	54.8 (52.6)	21.6 (49.0)	
MRI T2 lesions >9, n(%)	54.8 (52.6)	21.6 (49.0)	0.071

OB in CSF, n(%)			0.126
negative	31.8 (30.5)	16.0 (36.3)	
positive	59.0 (56.6)	23.2 (52.8)	
unknown	13.4 (12.9)	4.8 (10.9)	
MRI CEL lesions, n(%)			0.278
0 lesions	41.0 (39.3)	21.1 (48.0)	
1 lesion	11.1 (10.6)	4.1 (9.3)	
>1 lesions	21.8 (20.9)	5.0 (11.4)	
unknown	30.3 (29.1)	13.8 (31.3)	
Initiates treatment, n(%)	59.0 (56.6)	24.1 (54.7)	0.038
Early treated, n(%)	19.8 (19.0)	7.2 (16.4)	0.069
Parity ≥ 1, n(%)	61.0 (58.6)	29.3 (66.7)	0.168
Smoking status at CIS, n(%)	63.3 (60.8)	28.2 (64.0)	0.067
Body size at menarche, n(%)			0.174
Underweight (1-3)	54.8 (52.6)	26.9 (61.2)	
Normal weight (4-6)	38.0 (36.4)	13.1 (29.7)	
Overweight (7-9)	11.5 (11.0)	4.0 (9.1)	
Follow up years (mean (SD))	10.45 (5.59)	11.65 (5.37)	0.218

SMD: Standard Mean Difference