

Supplementary Table 2: Association of relapses to baclofen treatment among incident and prevalent MS individuals.

Incident MS	E	PT	M1 HR	95% CI	M2 HR	95% CI	M3 HR	95% CI	M4 HR	95% CI	M5 HR	95% CI
Relapses												
No relapses	7	609	1.00		1.00		1.00		1.00		1.00	
1 relapse	56	4396	0.94	0.43,2.07	1.22	0.46,3.22	2.13	0.21,21.10	1.10	0.41,2.94	1.12	0.42,2.99
2 relapses	23	2054	0.98	0.41,2.31	1.35	0.49,3.74	2.52	0.25,24.87	1.09	0.38,3.10	1.10	0.39,3.15
Age at MS onset	82	6669			1.00	0.97,1.03	1.03	0.98,1.09	0.99	0.96,1.03	1.00	0.96,1.04
EDSS at study entry												
EDSS 0-2.5	22	2963					1.00					
EDSS 3-5.5	12	617					2.11	0.99,4.49				
EDSS 6+	1	35					1.98	0.21,18.59				
DMT use												
No DMT	3	659							1.00		1.00	
Moderately effective DMT	63	5275							2.70	0.83,8.79	2.77	0.82,9.33
Highly effective DMT	8	493							4.90	1.25,19.17	4.95	1.22,20.14

Individuals with incident MS diagnosed with RRMS with relapses (N=1146). Association of relapses at study entry to baclofen treatment. Model 1 adjusted for age, county of residence at MS diagnosis, and highest attained education. Model 2-5 additionally adjusted for number of years from MS onset to diagnosis and calendar year of MS diagnosis. Model 5 additionally adjusted for time with MS as an additional timescale. Disease modifying treatments are time-dependent variables. Note: varying number of individuals in each model due to missing values; Model 1 N=1146; Model 2 N=1077; Model 3 N=568; Model 4-5 N=908. Abbreviations: CI= confidence interval; DMT=disease modifying therapy; E=number of events; EDSS=Expanded Disability Severity Scale; HR=hazard ratio; M=model; PT=person-time. Reference category indicated by a hazard ratio of 1.00 with no confidence interval.

Prevalent MS	E	PT	M1 HR	95% CI	M2 HR	95% CI	M3 HR	95% CI	M4 HR	95% CI	M5 HR	95% CI
Relapses												
No relapse	11	516	1.00		1.00		1.00		1.00		1.00	
1 relapse	114	8053	0.75	0.40,1.41	0.77	0.41,1.44	1.25	0.30,5.23	0.88	0.44,1.75	0.90	0.45,1.79
2 relapses	33	2578	0.70	0.35,1.40	0.71	0.36,1.42	1.20	0.28,5.15	0.81	0.38,1.71	0.82	0.39,1.74
3 relapses	24	1552	0.83	0.40,1.72	0.85	0.41,1.76	1.03	0.23,4.63	0.88	0.40,1.93	0.89	0.40,1.96
4+ relapses	35	2445	0.79	0.40,1.58	0.80	0.40,1.58	1.44	0.34,6.13	0.90	0.43,1.91	0.92	0.43,1.94
Age at MS diagnosis	217	15144			0.99	0.95,1.04	0.99	0.94,1.05	0.99	0.95,1.04	1.05	0.94,1.18
EDSS at study entry												
EDSS 0-2.5	84	7629					1.00					
EDSS 3-5.5	43	2402					1.61	1.10,2.35				
EDSS 6+	11	155					6.54	3.44,12.45				
DMT use												
No DMT	16	1852							1.00		1.00	
Moderately effective DMT	183	11890							1.86	1.08,3.22	1.85	1.07,3.21
Highly effective DMT	5	240							2.81	1.00,7.88	2.77	0.99,7.79

Individuals with prevalent MS diagnosed with RRMS with relapses (N=1890). Association of relapses at study entry to baclofen treatment. Model 1 adjusted for age, county of residence at MS diagnosis, and highest attained education. Model 2-5 additionally adjusted for number of years from MS onset to diagnosis and calendar year of MS diagnosis. Model 5 additionally adjusted for time with MS as an additional timescale. Disease modifying treatments are time-dependent variables. Note: varying number of individuals in each model due to missing values. Model 1,2 N=1890, Model 3 N=1268 Models 4-5 N=1745. Abbreviations: CI= confidence interval; DMT=disease modifying therapy; E=number of events; EDSS=Expanded Disability Severity Scale; HR=hazard ratio; M=model; PT=person-time. Reference category indicated by a hazard ratio of 1.00 with no confidence interval.

