

## **Supplementary Materials**

We had problems with model convergence when simultaneously including all groups for several variables, likely as a result of redundant information (e.g., once we determine the proportion of the sample who identify as White American and Black American are known, then the proportion of the sample who identified our third racial group “other” is fully known and does not need to be estimated). For this reason, reported values for participants in the “other” group for race and clinical course and for the proportion of participants who never used tobacco regularly were not directly estimated from data, but rather were inferred as the remainder of the sample that did not endorse the other mutually exclusive categories. For summary statistics, percentages reflect the proportion of participants who endorsed an item relative to the total number of participants who contributed data to that measure.

Supplementary Table S1. Model Fit Indices from Sequential Runs of Latent Profile Analysis

Number of Classes	BIC	Percent Decrease in BIC from Prior Class	VLMR <i>p</i> -value	Entropy
1	244028			
2	222112	8.98	<0.0001	0.89
3	217499	2.08	<0.0001	0.84
4	215281	1.02	<0.0001	0.87
5	213790	0.69	<0.0001	0.84
6	212531	0.59	<0.0001	0.85
7	211918	0.29	0.0004	0.85
8	211250	0.32	0.0042	0.86
9	210715	0.25	0.0014	0.84
10	210335	0.18	0.0560	0.84
11	209963	0.18	0.4641	0.84
12	209637	0.16	0.1242	0.85

Supplementary Table S2. Hypothesis Tests Comparing Mobility PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	<0.00001*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	<0.00001*
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	<0.00001*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	<0.00001*
Cluster 2	Cluster 8	<0.00001*
Cluster 2	Cluster 9	<0.00001*
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	<0.00001*
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	<0.00001*
Cluster 3	Cluster 8	<0.00001*
Cluster 3	Cluster 9	<0.00001*
Cluster 4	Cluster 5	<0.00001*
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	<0.00001*
Cluster 4	Cluster 8	<0.00001*
Cluster 4	Cluster 9	<0.00001*
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	<0.00001*
Cluster 5	Cluster 8	<0.00001*
Cluster 5	Cluster 9	<0.00001*
Cluster 6	Cluster 7	0.00219*
Cluster 6	Cluster 8	<0.00001*
Cluster 6	Cluster 9	<0.00001*
Cluster 7	Cluster 8	0.01585*
Cluster 7	Cluster 9	0.00533*
Cluster 8	Cluster 9	0.68190

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S3. Hypothesis Tests Comparing Hand Function PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	0.00179*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	0.71330
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	<0.00001*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	<0.00001*
Cluster 2	Cluster 8	0.25276
Cluster 2	Cluster 9	<0.00001*
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	<0.00001*
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	0.03114*
Cluster 3	Cluster 8	0.00103*
Cluster 3	Cluster 9	<0.00001*
Cluster 4	Cluster 5	0.00003*
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	<0.00001*
Cluster 4	Cluster 8	<0.00001*
Cluster 4	Cluster 9	0.77461
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	<0.00001*
Cluster 5	Cluster 8	<0.00001*
Cluster 5	Cluster 9	0.00579*
Cluster 6	Cluster 7	<0.00001*
Cluster 6	Cluster 8	<0.00001*
Cluster 6	Cluster 9	<0.00001*
Cluster 7	Cluster 8	<0.00001*
Cluster 7	Cluster 9	<0.00001*
Cluster 8	Cluster 9	<0.00001*

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S4. Hypothesis Tests Comparing Tremor PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	<0.00001*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	<0.00001*
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	0.03190*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	0.03920*
Cluster 2	Cluster 8	<0.00001*
Cluster 2	Cluster 9	<0.00001*
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	<0.00001*
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	0.89626
Cluster 3	Cluster 8	<0.00001*
Cluster 3	Cluster 9	<0.00001*
Cluster 4	Cluster 5	<0.00001*
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	<0.00001*
Cluster 4	Cluster 8	<0.00001*
Cluster 4	Cluster 9	<0.00001*
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	<0.00001*
Cluster 5	Cluster 8	<0.00001*
Cluster 5	Cluster 9	<0.00001*
Cluster 6	Cluster 7	<0.00001*
Cluster 6	Cluster 8	<0.00001*
Cluster 6	Cluster 9	<0.00001*
Cluster 7	Cluster 8	<0.00001*
Cluster 7	Cluster 9	<0.00001*
Cluster 8	Cluster 9	0.00449*

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S5. Hypothesis Tests Comparing Spasticity PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	<0.00001*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	<0.00001*
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	<0.00001*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	<0.00001*
Cluster 2	Cluster 8	<0.00001*
Cluster 2	Cluster 9	<0.00001*
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	<0.00001*
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	0.07907
Cluster 3	Cluster 8	<0.00001*
Cluster 3	Cluster 9	<0.00001*
Cluster 4	Cluster 5	<0.00001*
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	0.00334*
Cluster 4	Cluster 8	<0.00001*
Cluster 4	Cluster 9	<0.00001*
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	<0.00001*
Cluster 5	Cluster 8	<0.00001*
Cluster 5	Cluster 9	0.07560
Cluster 6	Cluster 7	<0.00001*
Cluster 6	Cluster 8	0.00012*
Cluster 6	Cluster 9	<0.00001*
Cluster 7	Cluster 8	<0.00001*
Cluster 7	Cluster 9	<0.00001*
Cluster 8	Cluster 9	<0.00001*

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S6. Hypothesis Tests Comparing Bladder/Bowel PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	<0.00001*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	<0.00001*
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	0.03780*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	<0.00001*
Cluster 2	Cluster 8	<0.00001*
Cluster 2	Cluster 9	<0.00001*
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	<0.00001*
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	<0.00001*
Cluster 3	Cluster 8	<0.00001*
Cluster 3	Cluster 9	<0.00001*
Cluster 4	Cluster 5	0.11100
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	0.06737
Cluster 4	Cluster 8	<0.00001*
Cluster 4	Cluster 9	<0.00001*
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	0.78419
Cluster 5	Cluster 8	<0.00001*
Cluster 5	Cluster 9	<0.00001*
Cluster 6	Cluster 7	<0.00001*
Cluster 6	Cluster 8	<0.00008*
Cluster 6	Cluster 9	0.00403*
Cluster 7	Cluster 8	<0.00001*
Cluster 7	Cluster 9	<0.00001*
Cluster 8	Cluster 9	0.34144

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S7. Hypothesis Tests Comparing Pain PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	<0.00001*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	<0.00001*
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	<0.00001*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	<0.00001*
Cluster 2	Cluster 8	<0.00001*
Cluster 2	Cluster 9	<0.00001*
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	<0.00001*
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	<0.00001*
Cluster 3	Cluster 8	<0.00001*
Cluster 3	Cluster 9	0.71740
Cluster 4	Cluster 5	<0.00001*
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	<0.00001*
Cluster 4	Cluster 8	0.59022
Cluster 4	Cluster 9	<0.00001*
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	<0.00001*
Cluster 5	Cluster 8	<0.00001*
Cluster 5	Cluster 9	<0.00001*
Cluster 6	Cluster 7	<0.00001*
Cluster 6	Cluster 8	<0.00001*
Cluster 6	Cluster 9	<0.00001*
Cluster 7	Cluster 8	<0.00001*
Cluster 7	Cluster 9	<0.00001*
Cluster 8	Cluster 9	<0.00001*

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level



Supplementary Table S8. Hypothesis Tests Comparing Sensory Symptom PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	<0.00001*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	0.00430*
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	<0.00001*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	<0.00001*
Cluster 2	Cluster 8	<0.00001*
Cluster 2	Cluster 9	0.89037
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	0.09310
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	<0.00001*
Cluster 3	Cluster 8	0.75915
Cluster 3	Cluster 9	<0.00001*
Cluster 4	Cluster 5	<0.00001*
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	<0.00001*
Cluster 4	Cluster 8	<0.00001*
Cluster 4	Cluster 9	<0.00001*
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	<0.00001*
Cluster 5	Cluster 8	0.10740
Cluster 5	Cluster 9	<0.00001*
Cluster 6	Cluster 7	<0.00001*
Cluster 6	Cluster 8	<0.00001*
Cluster 6	Cluster 9	<0.00001*
Cluster 7	Cluster 8	<0.00001*
Cluster 7	Cluster 9	0.00041*
Cluster 8	Cluster 9	<0.00001*

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S9. Hypothesis Tests Comparing Vision PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	0.00179*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	0.71330
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	<0.00001*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	<0.00001*
Cluster 2	Cluster 8	0.25276
Cluster 2	Cluster 9	<0.00001*
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	<0.00001*
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	0.03114*
Cluster 3	Cluster 8	0.00103*
Cluster 3	Cluster 9	<0.00001*
Cluster 4	Cluster 5	0.00003*
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	<0.00001*
Cluster 4	Cluster 8	<0.00001*
Cluster 4	Cluster 9	0.77461
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	<0.00001*
Cluster 5	Cluster 8	<0.00001*
Cluster 5	Cluster 9	0.00579*
Cluster 6	Cluster 7	<0.00001*
Cluster 6	Cluster 8	<0.00001*
Cluster 6	Cluster 9	<0.00001*
Cluster 7	Cluster 8	<0.00001*
Cluster 7	Cluster 9	<0.00001*
Cluster 8	Cluster 9	<0.00001*

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S10. Hypothesis Tests Comparing Fatigue PRO Responses Across Clusters

Cluster Test Comparison		P-Value	
Cluster 1	Cluster 2	<0.00001*	
Cluster 1	Cluster 3	<0.00001*	
Cluster 1	Cluster 4	<0.00001*	
Cluster 1	Cluster 5	<0.00001*	
Cluster 1	Cluster 6	<0.00001*	
Cluster 1	Cluster 7	<0.00001*	
Cluster 1	Cluster 8	<0.00001*	
Cluster 1	Cluster 9	<0.00001*	
Cluster 2	Cluster 3	<0.00001*	
Cluster 2	Cluster 4	<0.00001*	
Cluster 2	Cluster 5	<0.00001*	
Cluster 2	Cluster 6	<0.00001*	
Cluster 2	Cluster 7	<0.00001*	
Cluster 2	Cluster 8	<0.00001*	
Cluster 2	Cluster 9	<0.00001*	
Cluster 3	Cluster 4	<0.00001*	
Cluster 3	Cluster 5	<0.00001*	
Cluster 3	Cluster 6	<0.00001*	
Cluster 3	Cluster 7	<0.00001*	
Cluster 3	Cluster 8	<0.00001*	
Cluster 3	Cluster 9	<0.00001*	
Cluster 4	Cluster 5	0.00003*	
Cluster 4	Cluster 6	<0.00001*	
Cluster 4	Cluster 7	<0.00001*	
Cluster 4	Cluster 8	0.00083*	
Cluster 4	Cluster 9	0.43254	
Cluster 5	Cluster 6	<0.00001*	
Cluster 5	Cluster 7	<0.00001*	
Cluster 5	Cluster 8	<0.00001*	
Cluster 5	Cluster 9	0.00005*	
Cluster 6	Cluster 7	<0.00001*	
Cluster 6	Cluster 8	<0.00001*	
Cluster 6	Cluster 9	<0.00001*	
Cluster 7	Cluster 8	<0.00001*	
Cluster 7	Cluster 9	<0.00001*	
Cluster 8	Cluster 9	0.05184	

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S11. Hypothesis Tests Comparing Cognitive Symptom PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	<0.00001*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	0.14993
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	<0.00001*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	<0.00001*
Cluster 2	Cluster 8	<0.00001*
Cluster 2	Cluster 9	<0.00001*
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	<0.00001*
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	<0.00001*
Cluster 3	Cluster 8	0.58263
Cluster 3	Cluster 9	<0.00001*
Cluster 4	Cluster 5	<0.00001*
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	<0.00001*
Cluster 4	Cluster 8	<0.00001*
Cluster 4	Cluster 9	0.02664*
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	<0.00001*
Cluster 5	Cluster 8	<0.00001*
Cluster 5	Cluster 9	<0.00001*
Cluster 6	Cluster 7	<0.00001*
Cluster 6	Cluster 8	<0.00001*
Cluster 6	Cluster 9	<0.00001*
Cluster 7	Cluster 8	<0.00001*
Cluster 7	Cluster 9	<0.00001*
Cluster 8	Cluster 9	<0.00001*

\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S12. Hypothesis Tests Comparing Depression PRO Responses Across Clusters

Cluster Test Comparison		P-Value
Cluster 1	Cluster 2	<0.00001*
Cluster 1	Cluster 3	<0.00001*
Cluster 1	Cluster 4	<0.00001*
Cluster 1	Cluster 5	<0.00001*
Cluster 1	Cluster 6	<0.00001*
Cluster 1	Cluster 7	<0.00001*
Cluster 1	Cluster 8	<0.00001*
Cluster 1	Cluster 9	<0.00001*
Cluster 2	Cluster 3	<0.00001*
Cluster 2	Cluster 4	<0.00001*
Cluster 2	Cluster 5	<0.00001*
Cluster 2	Cluster 6	<0.00001*
Cluster 2	Cluster 7	<0.00001*
Cluster 2	Cluster 8	0.62133
Cluster 2	Cluster 9	<0.00001*
Cluster 3	Cluster 4	<0.00001*
Cluster 3	Cluster 5	<0.00001*
Cluster 3	Cluster 6	<0.00001*
Cluster 3	Cluster 7	0.00006*
Cluster 3	Cluster 8	0.00026*
Cluster 3	Cluster 9	<0.00001*
Cluster 4	Cluster 5	0.01151*
Cluster 4	Cluster 6	<0.00001*
Cluster 4	Cluster 7	<0.00001*
Cluster 4	Cluster 8	<0.00001*
Cluster 4	Cluster 9	0.81458
Cluster 5	Cluster 6	<0.00001*
Cluster 5	Cluster 7	<0.00001*
Cluster 5	Cluster 8	<0.00001*
Cluster 5	Cluster 9	0.05998
Cluster 6	Cluster 7	<0.00001*
Cluster 6	Cluster 8	<0.00001*
Cluster 6	Cluster 9	<0.00001*
Cluster 7	Cluster 8	<0.00001*
Cluster 7	Cluster 9	<0.00001*
Cluster 8	Cluster 9	<0.00001*

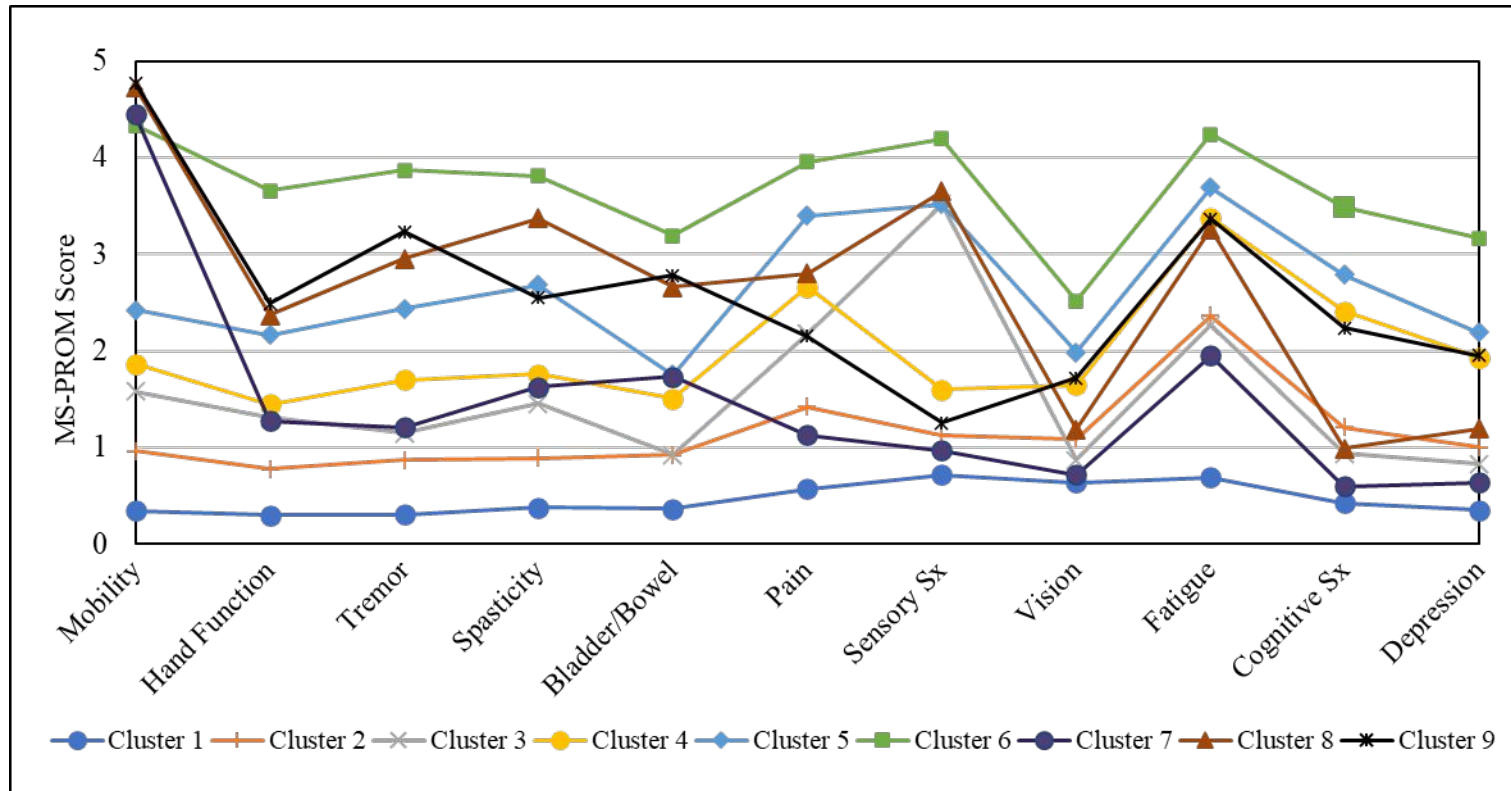
\*Reflects significance after adjusting for the false discovery rate at the  $p < .05$  level

Supplementary Table S13. Comparison of Covariates Associated with Cluster Membership Based on Models Estimate With and Without Propensity Score Weights.

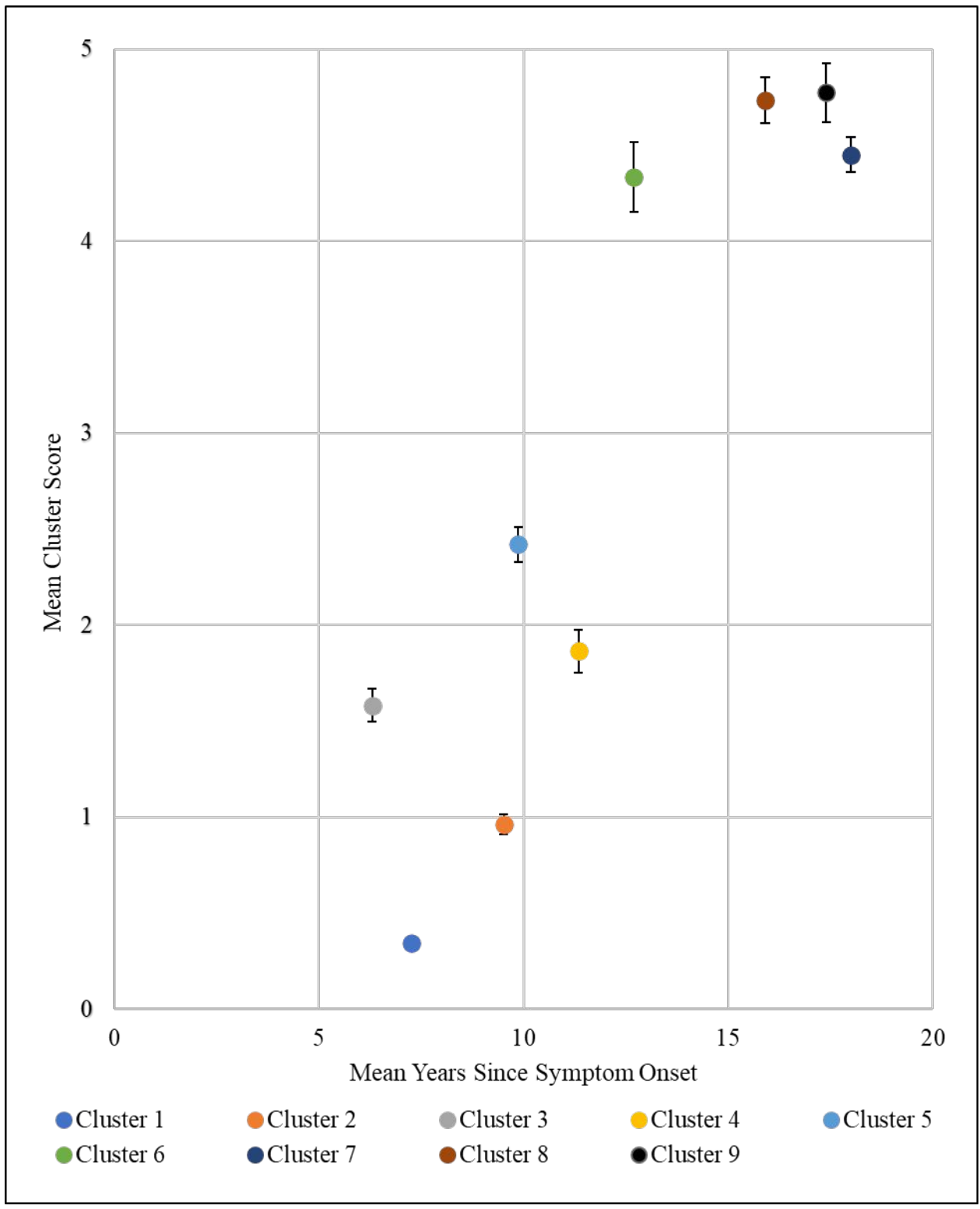
Attribute Outcome	Low Mobility Impairment								Moderate Mobility Impairment		High Mobility Impairment								
	Cluster 1 Normal Functioning		Cluster 2 Mild Fatigue		Cluster 3 Sensory Symptoms		Cluster 4 Somatic Symptoms		Cluster 5 Somatic & Cognitive		Cluster 6 Severe Disability		Cluster 7 Mobility-Specific		Cluster 8 Moderate Disability		Cluster 9 Physical Symptoms		
	UW	PW	UW	PW	UW	PW	UW	PW	UW	PW	UW	PW	UW	PW	UW	PW	UW	PW	
<b>Symptoms and Functioning</b>																			
Timed 25-Ft Walk	5.05	5.05	5.54	5.18	6.43	6.93	7.03	7.03	7.85	7.69	11.9	11.5	18.2	16.9	15.8	16.3	13.8	11.4	
9-Hole Peg Test	20.9	22.6	23.9	24.2	22.6	23.3	24.7	24.8	27.3	27.2	37.2	35.3	31.1	31.8	42.2	37.3	35.8	31.2	
EQ5D	0.88	0.87	0.76	0.77	0.69	0.69	0.64	0.64	0.54	0.55	0.34	0.33	0.70	0.70	0.50	0.51	0.53	0.54	
PHQ-9	2.41	2.29	7.52	6.96	7.49	7.11	12.5	12.4	15.1	14.9	19.3	19.5	3.58	4.27	9.28	10.5	11.9	12.9	
<b>Health Conditions</b>																			
Hypertension	7.50	11.6	6.70	7.20	8.80	8.30	12.7	12.3	10.0	10.7	12.5	13.5	16.4	14.5	10.1	4.30	6.90	6.00	
Tobacco - Current	12.6	11.5	19.9	17.5	22.7	22.4	26.4	27.0	38.5	38.5	37.3	39.9	14.3	22.3	18.3	21.1	13.5	23.7	
Tobacco - Former	26.6	27.9	31.6	34.2	30.9	31.2	32.4	32.0	28.4	27.8	34.2	34.1	39.4	28.0	34.1	38.4	46.7	35.5	
Tobacco - Never	60.8	60.6	48.4	48.3	46.4	46.4	41.2	41.0	33.2	33.6	28.5	26.1	46.3	49.7	47.5	40.5	39.8	40.9	

*Note:* For results that used propensity score weights, clusters were conditioned on years since symptom onset and MS type. The sample for this analysis (N=5,009) reflects participants who had data available on these conditioning variables. Percentages are reported for dichotomous variables (Health Conditions) and means are reported for continuous variables (Symptoms and Functioning). UW = Unweighted; PW = Propensity score weighted.

Supplementary Figure S1. Single Profile Plot of PROs for All Observed Patient Clusters

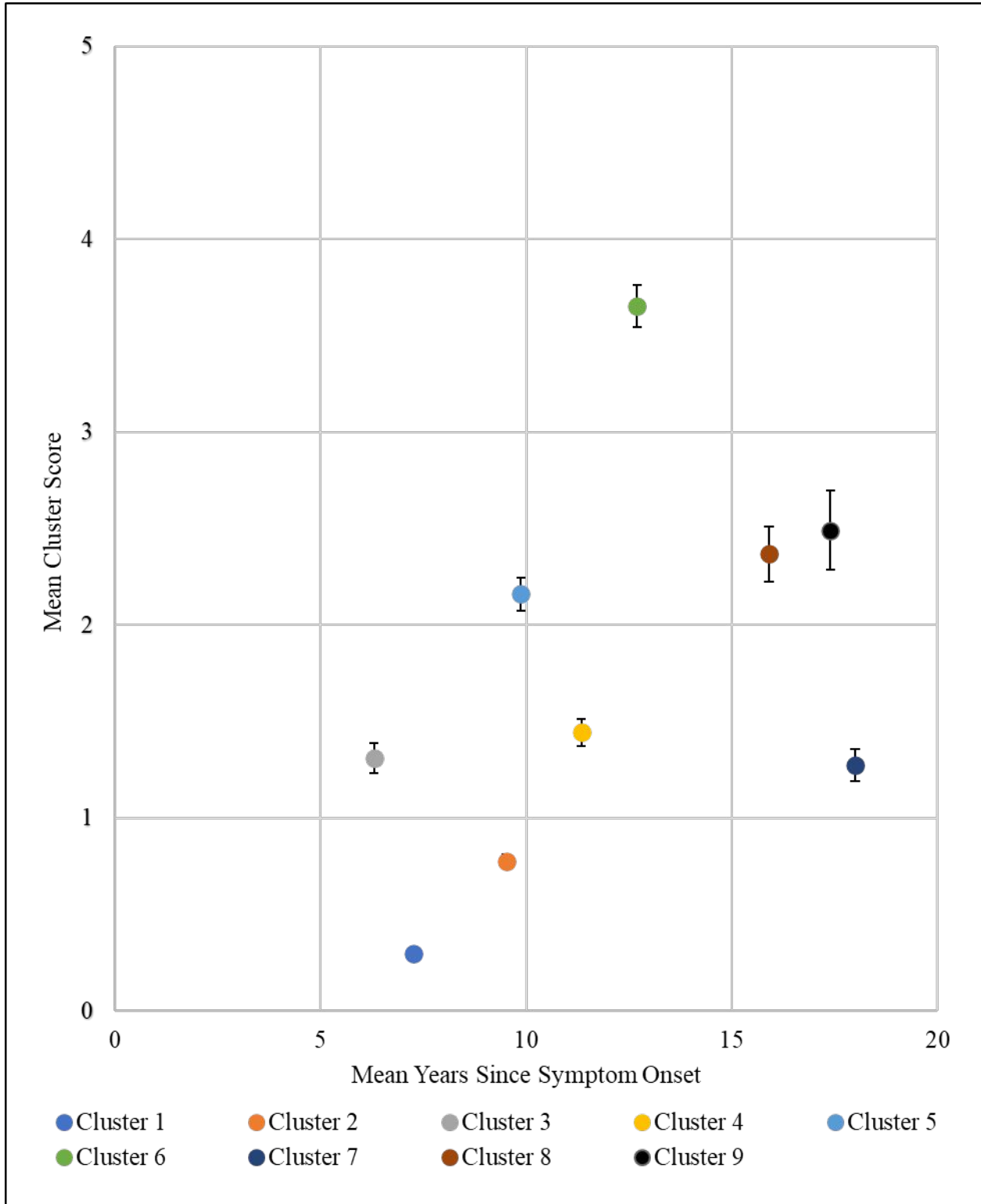


Supplementary Figure S2. Scatterplot of Mobility PRO Means by Cluster and Years Since MS Symptom Onset

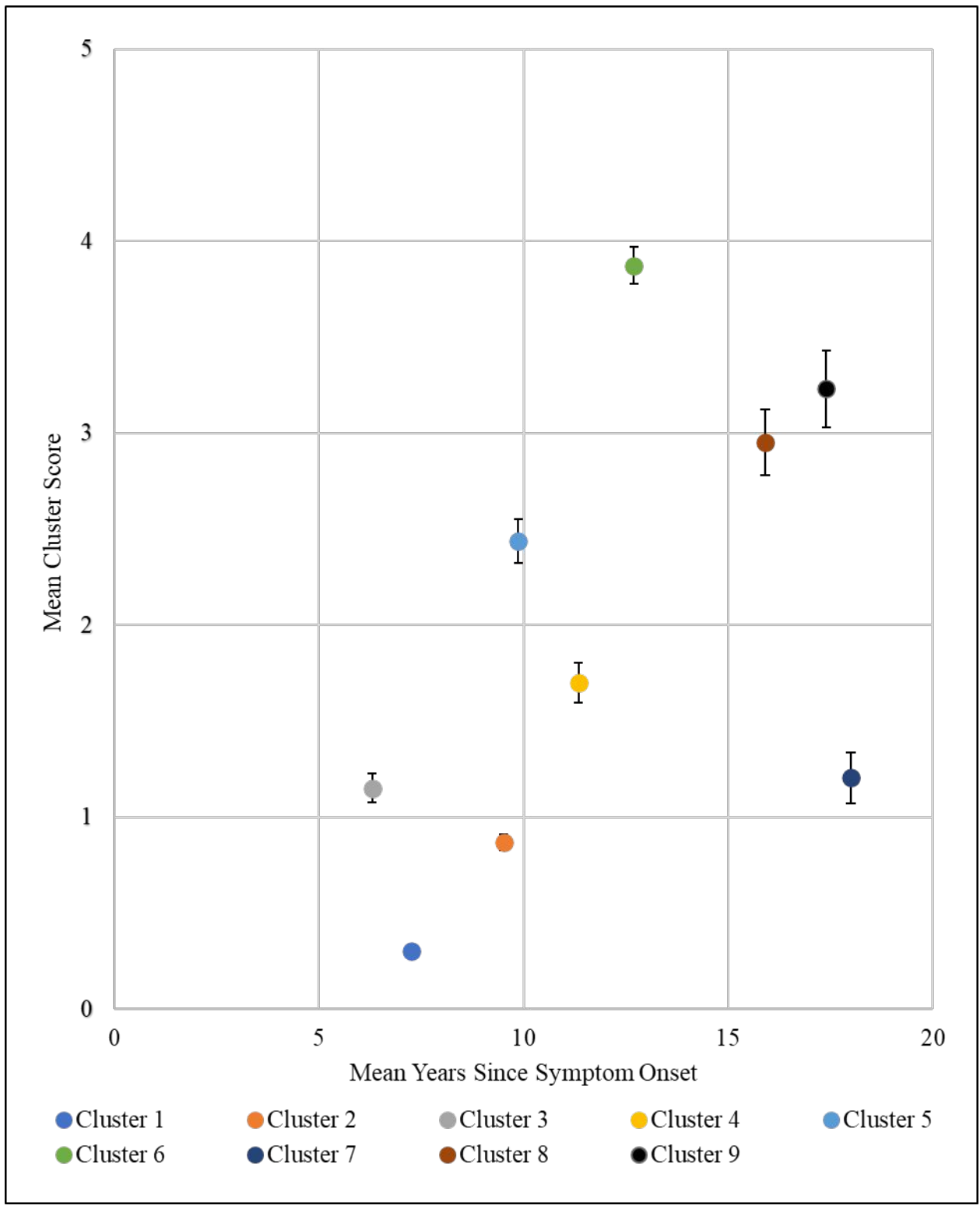




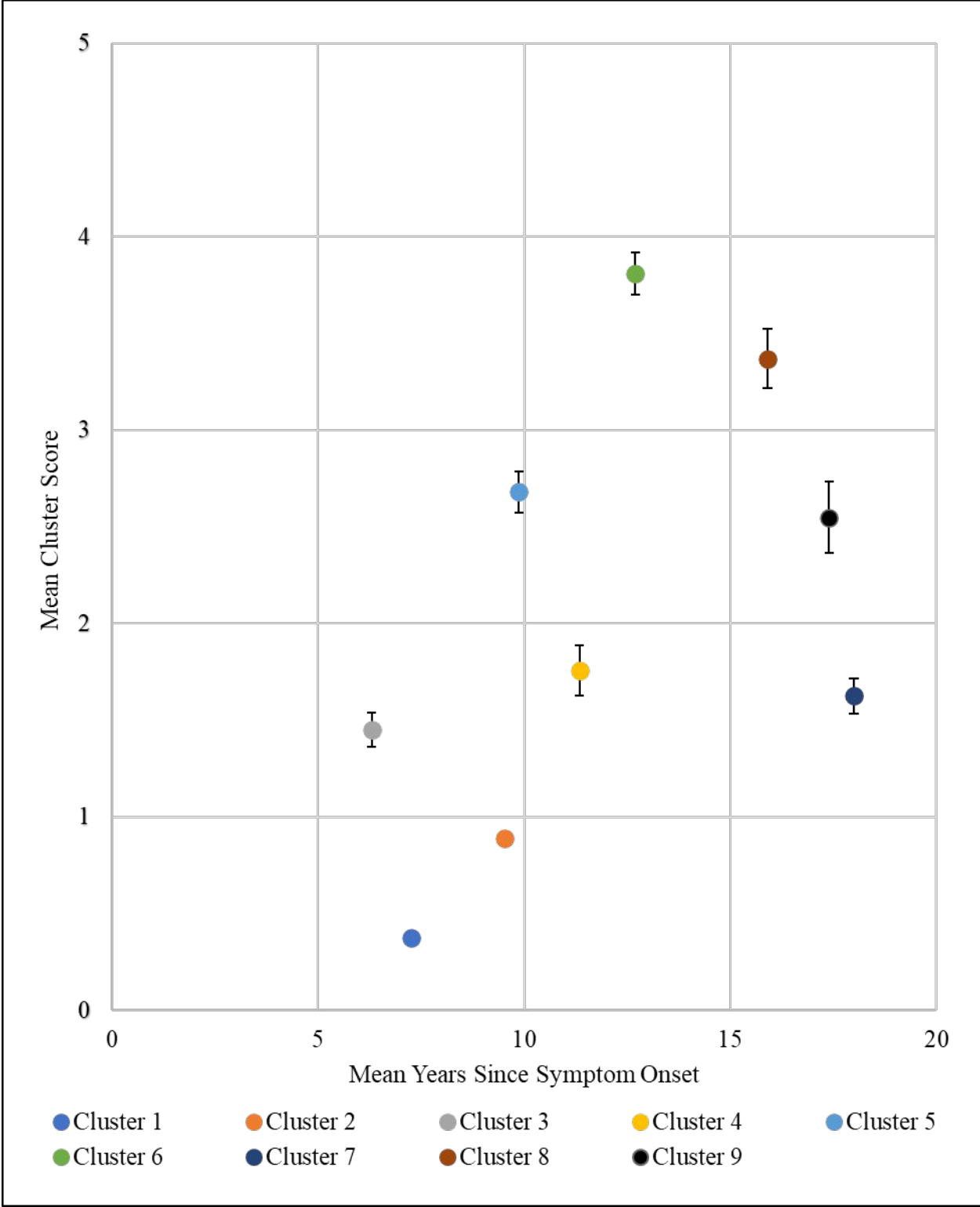
Supplementary Figure S3. Scatterplot of Hand Function PRO Means by Cluster and Years Since MS Symptom Onset



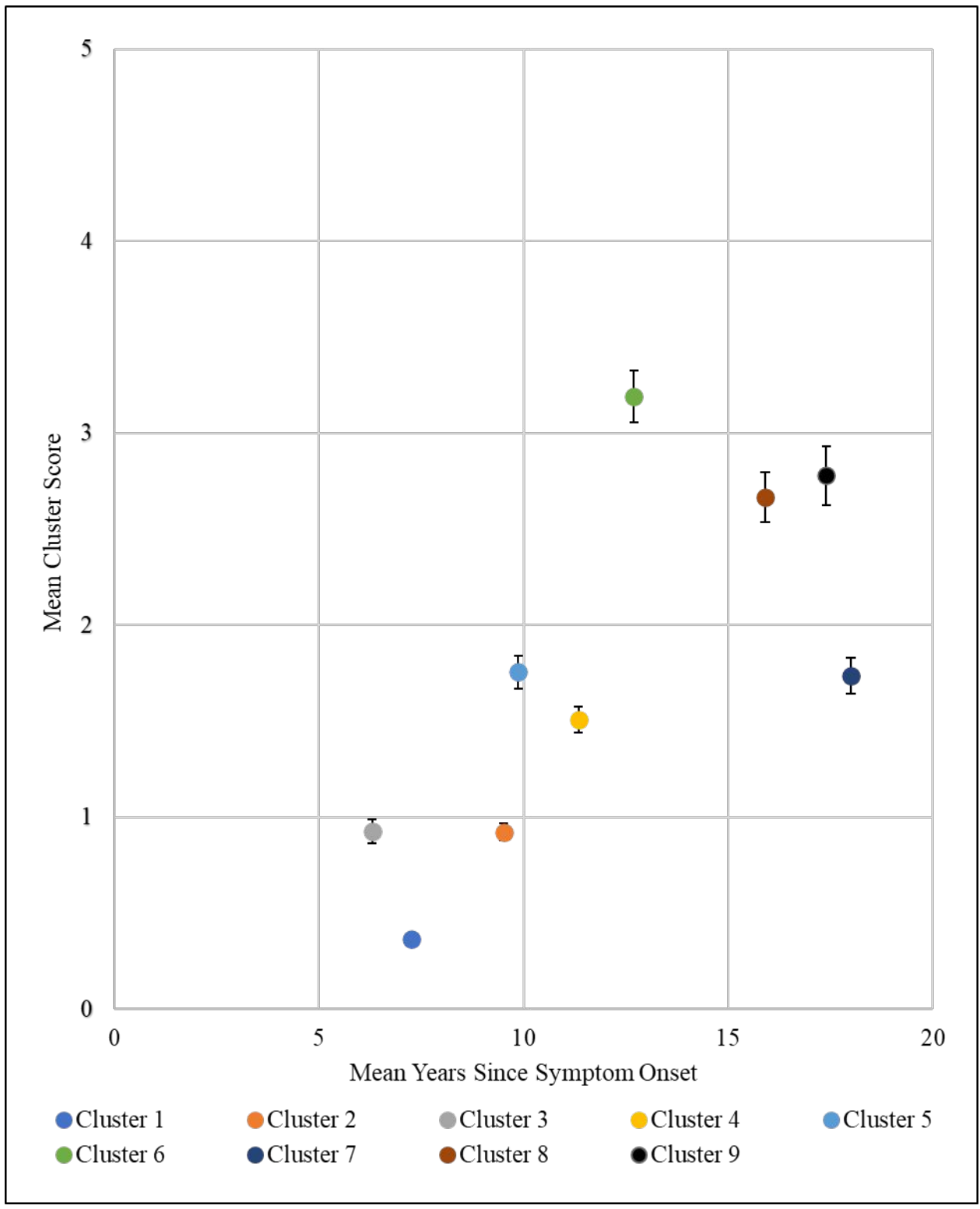
Supplementary Figure S4. Scatterplot of Tremor PRO Means by Cluster and Years Since MS Symptom Onset



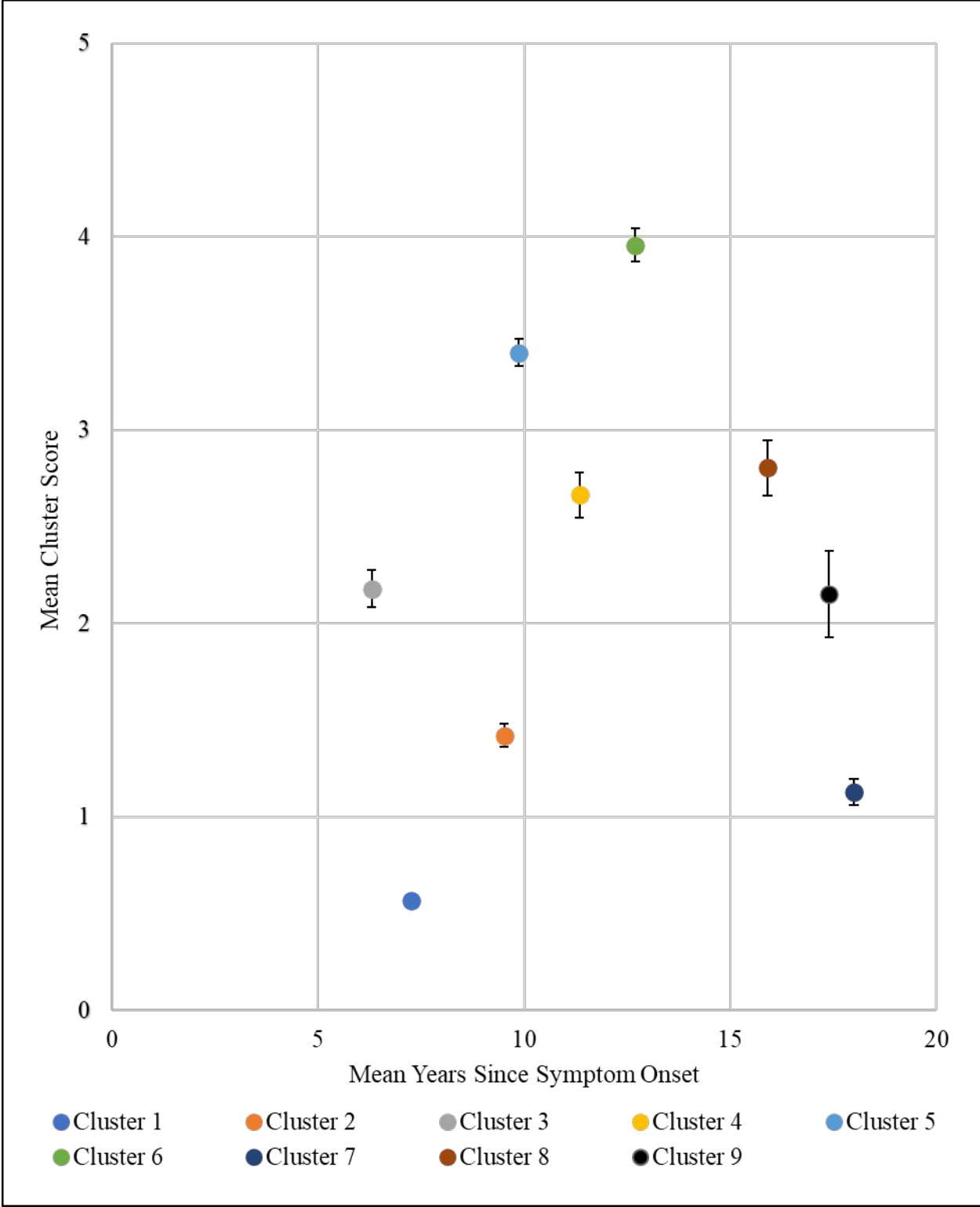
Supplementary Figure S5. Scatterplot of Spasticity PRO Means by Cluster and Years Since MS Symptom Onset



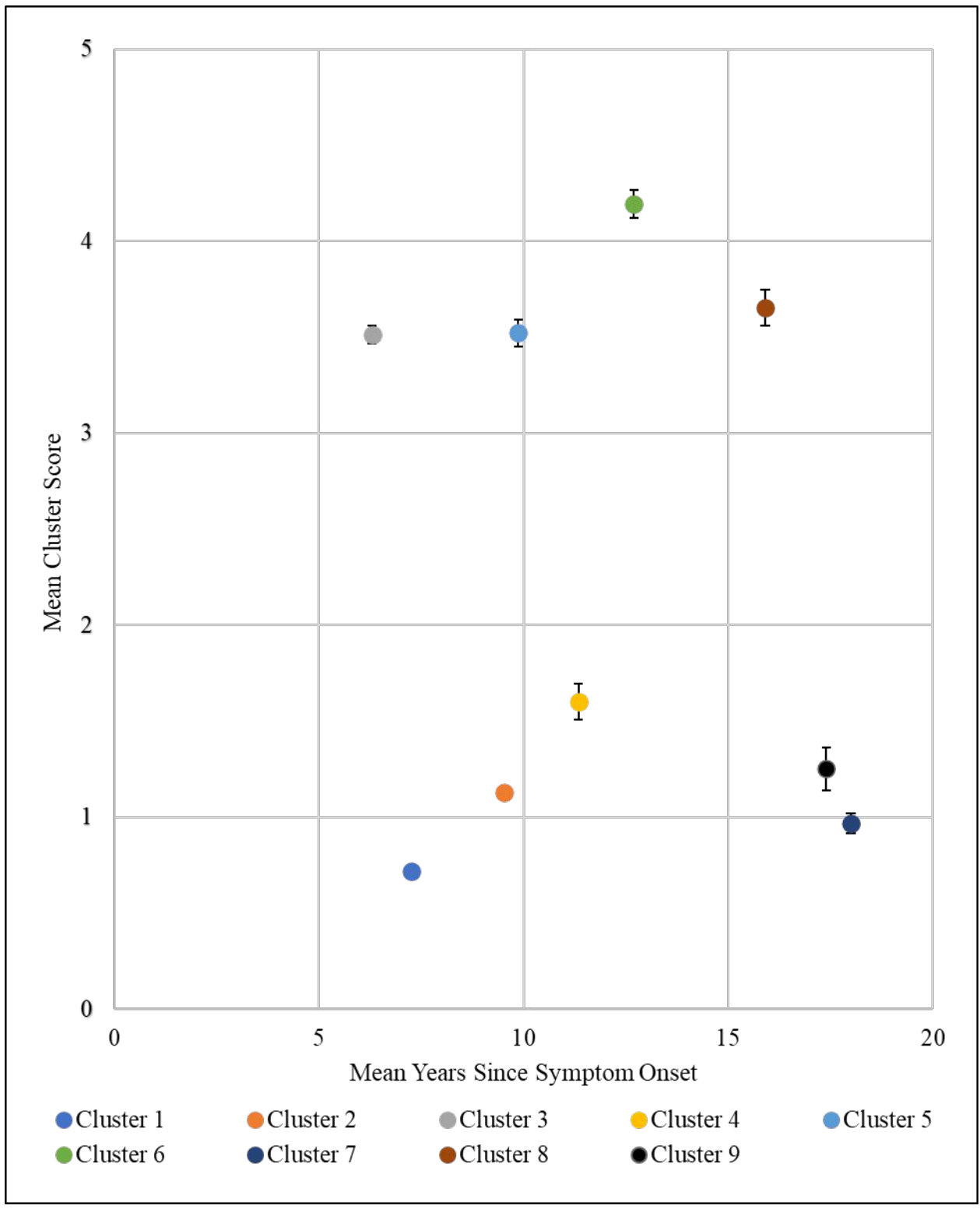
Supplementary Figure S6. Scatterplot of Bladder/Bowel PRO Means by Cluster and Years Since MS Symptom Onset



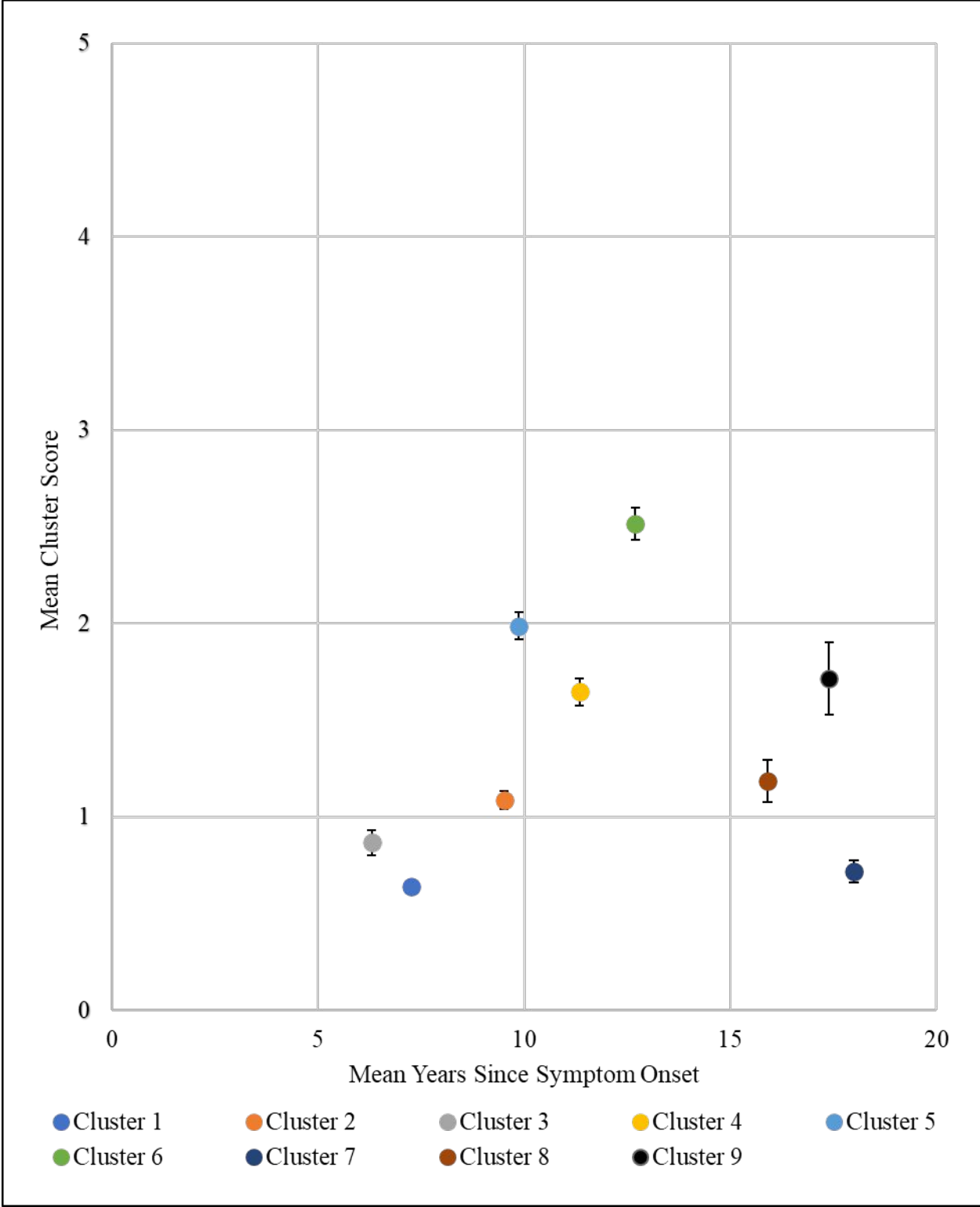
Supplementary Figure S7. Scatterplot of Pain PRO Means by Cluster and Years Since MS Symptom Onset



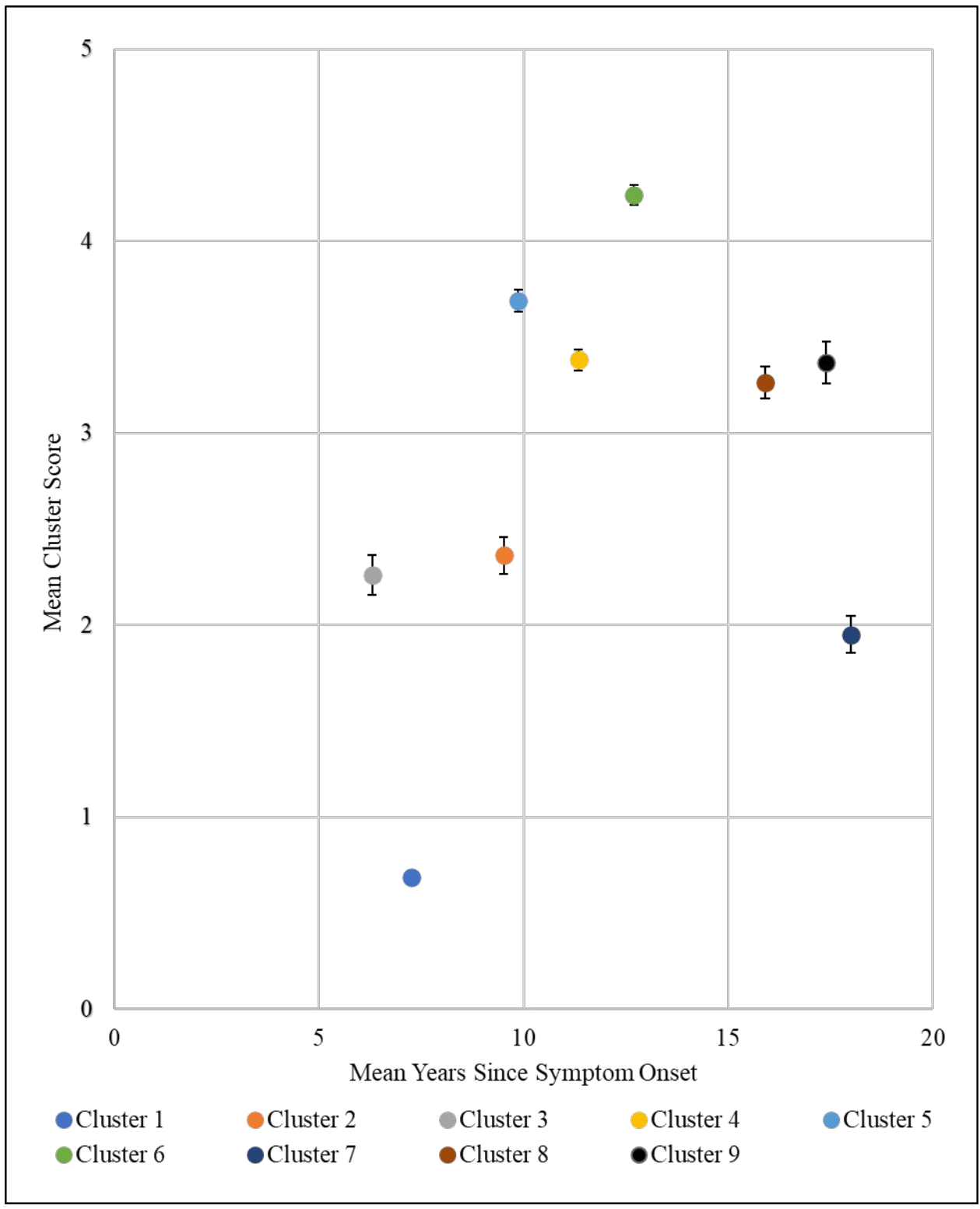
Supplementary Figure S8. Scatterplot of Sensory Symptom PRO Means by Cluster and Years Since MS Symptom Onset



Supplementary Figure S9. Scatterplot of Vision PRO Means by Cluster and Years Since MS Symptom Onset

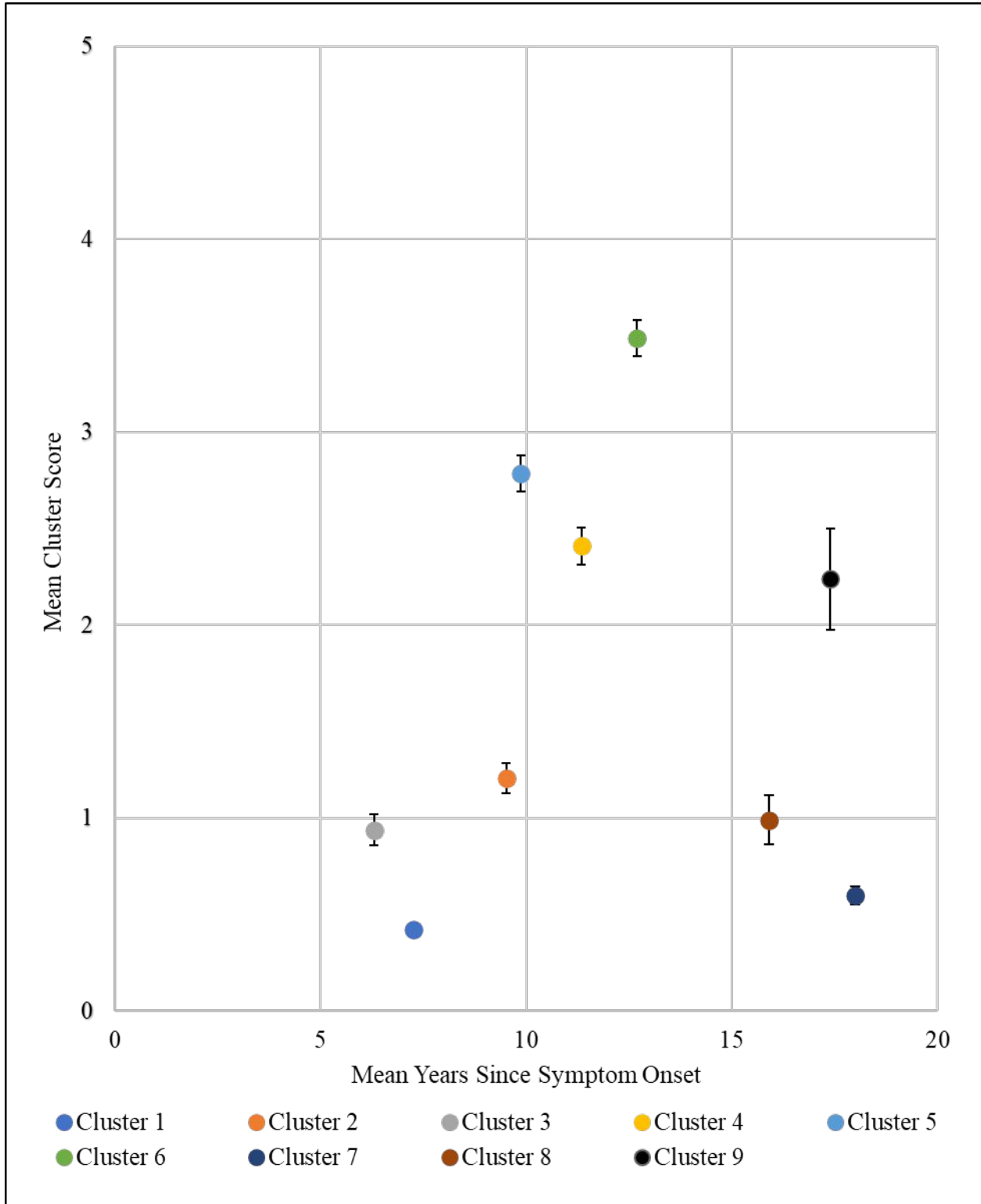


Supplementary Figure S10. Scatterplot of Fatigue PRO Means by Cluster and Years Since MS Symptom Onset





Supplementary Figure S11. Scatterplot of Cognitive Symptom PRO Means by Cluster and Years Since MS Symptom Onset



Supplementary Figure S12. Scatterplot of Depression PRO Means by Cluster and Years Since MS Symptom Onset

