**Supplementary Figure 1.**

Participant recruitment. There was no difference between the patients included in the analysis and those excluded with respect to sex, race, and socioeconomic status. Mean age at ADS onset was significantly younger in the excluded group (6.5 years) as compared with the sample included in the current analyses; however, of the 12 patients who were at least 5.5 years at onset (inclusion for current study), age at onset did not differ from the group included in the analysis. Of the 12 patients who met inclusion criteria but did not participate in the study, only two (16.7%) had a diagnosis of MS, which is proportionally lower than the number of patients with MS included in the current analysis (12; 33%); nine had monophasic ADS and one had relapsing non-MS. Baseline EDSS score was significantly higher in the excluded group (median = 7.5; SD = 2.4). The presenting phenotype at baseline among the 12 patients who were excluced included: monofocal demyelination (n=9), ADEM (n=2) and polyfocal demyelination (n=1).