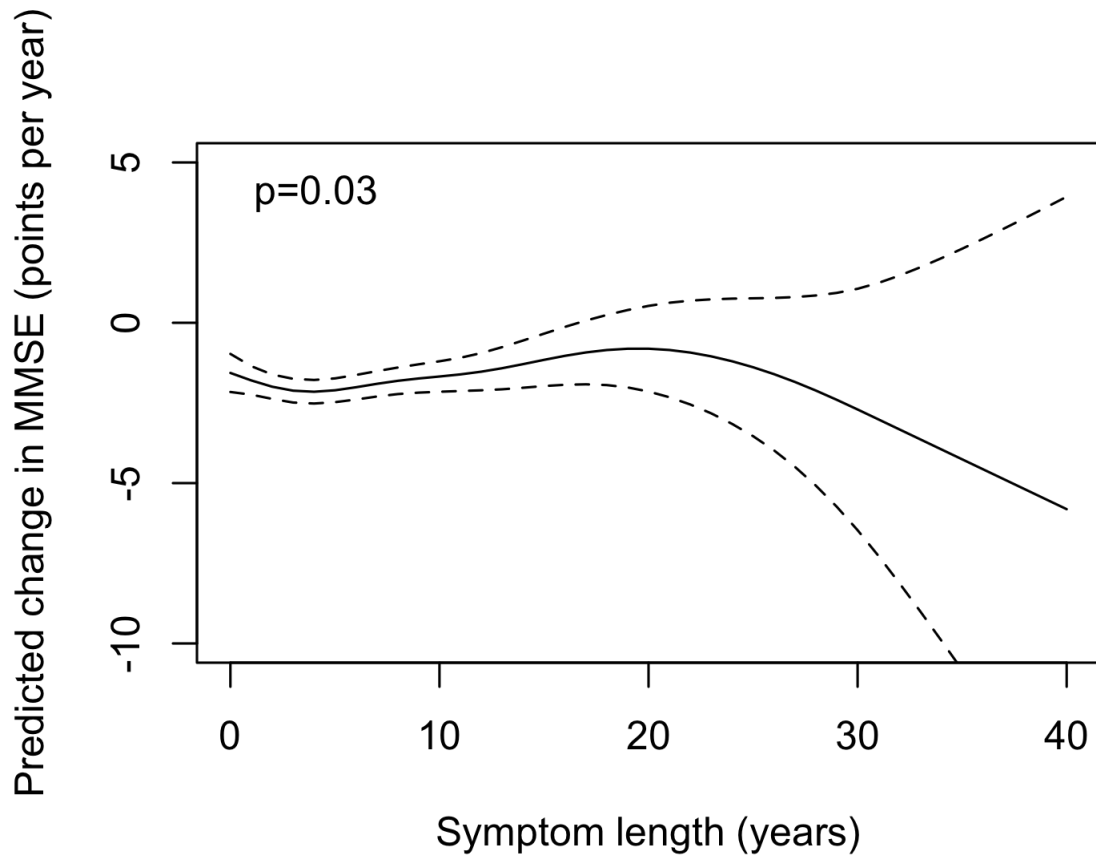


Supplementary Section



Supplementary figure 1: Plot of predicted change in MMSE (points per year) with 95% pointwise confidence intervals by symptom length. Predictions are for a female subject, with 14 years of education, an MMSE at presentation of 20 and one APOE  $\epsilon 4$  allele.

	Predictor(s) of interest in main results section, years	Outcome	
		MMSE	CDR
Longitudinal analyses	Age at presentation	Gender: -0.12 [0.12], p=0.3  Education: -0.05 [0.02], p=0.004	Gender: 0.11[0.07], p=0.1  Education: 0.02 [0.01], p=0.02
	Age of onset	Gender: -0.13 [0.12], p=0.3  Education: -0.05 [0.02], p=0.004	Gender: 0.12 [0.07], p=0.1  Education: 0.02 [0.01], p=0.02
	Symptom length	Gender: -0.10 [0.12], p=0.4  Education: -0.06 [0.02], p<0.001	Gender: 0.12 [0.07], p=0.1  Education: 0.02 [0.01], p=0.03
	Age at presentation and symptom length	Gender: -0.11 [0.12], p=0.4  Education: -0.05 [0.02], p=0.005	Gender: 0.11 [0.07], p=0.1  Education: 0.02 [0.01], p=0.03

Cross-sectional analyses	Age at presentation	Gender: -0.14 [0.16], p=0.4  Education: 0.34 [0.02], p<0.001	Gender: 0.20 [0.10], p=0.04  Education: -0.10 [0.01], p<0.001
	Age of onset	Gender: -0.20 [0.16], p=0.2  Education: 0.36 [0.02], p<0.001	Gender: 0.24 [0.10], p=0.01  Education: -0.12 [0.01], p<0.001
	Symptom length	Gender: -0.34 [0.15], p=0.02  Education: 0.34 [0.02], p<0.001	Gender: 0.37 [0.09], p<0.001  Education: -0.12 [0.01], p<0.001
	Age at presentation and symptom length	Gender: -0.32 [0.15], p=0.03  Education: 0.35 [0.02], p<0.001	Gender: 0.35 [0.09] p<0.001  Education: -0.11 [0.01], p<0.001

Supplementary table 1 Results from mutually-adjusted models for the effects of gender and education on outcomes. Longitudinal models were additionally adjusted for cognitive status at first visit (either MMSE for MMSE change outcomes, or CDR-SOB for CDR-SOB change outcomes), and ADC. Cross-sectional models were adjusted for ADC. Coefficients represent change in the outcome

for a 1-unit increase in the predictor [standard error], p value. For gender this represents the difference seen in women, compared with men.