

SUPPLEMENTARY MATERIAL

Evaluation of MR Elastography as a Non-Invasive Diagnostic Test for Spontaneous Intracranial Hypotension

A. Age modeling

Figure S1 shows plots of mean stiffness and damping ratio versus age of participants in this study. We reproduced the decline of brain stiffness with aging that has been demonstrated in past MRE studies. The mechanical properties were affected by age as can be seen in plots (a) and (b) of figure S1. However, the effects were different for geriatric versus younger participants. For example, there was no major decline in stiffness up to age 50, after which stiffness started to decline more rapidly with age. The damping ratio surprisingly increased up to age 40 and started to decline after that. Therefore, a quadratic model was more appropriate for accounting the age effect. The model is shown with 5% confidence intervals in the plots.

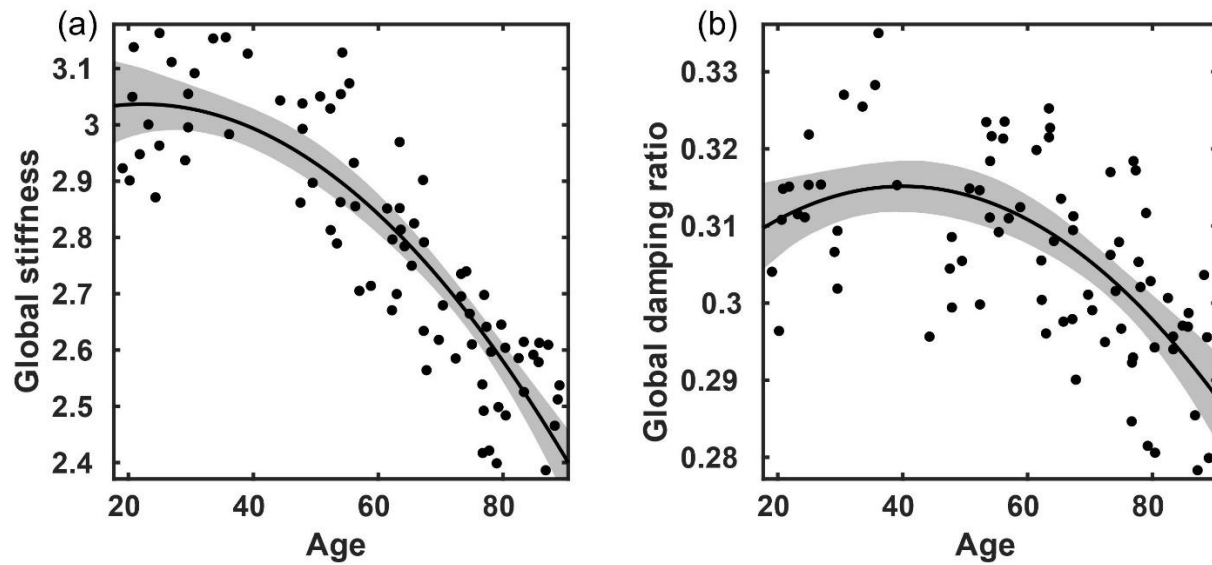


Figure S1. Age modeling for stiffness (a) and damping ratio (b). The quadratic model fitted to the data is $y(t)=A+Bt+Ct^2$, where t is the age and A, B, and C are fit parameters.