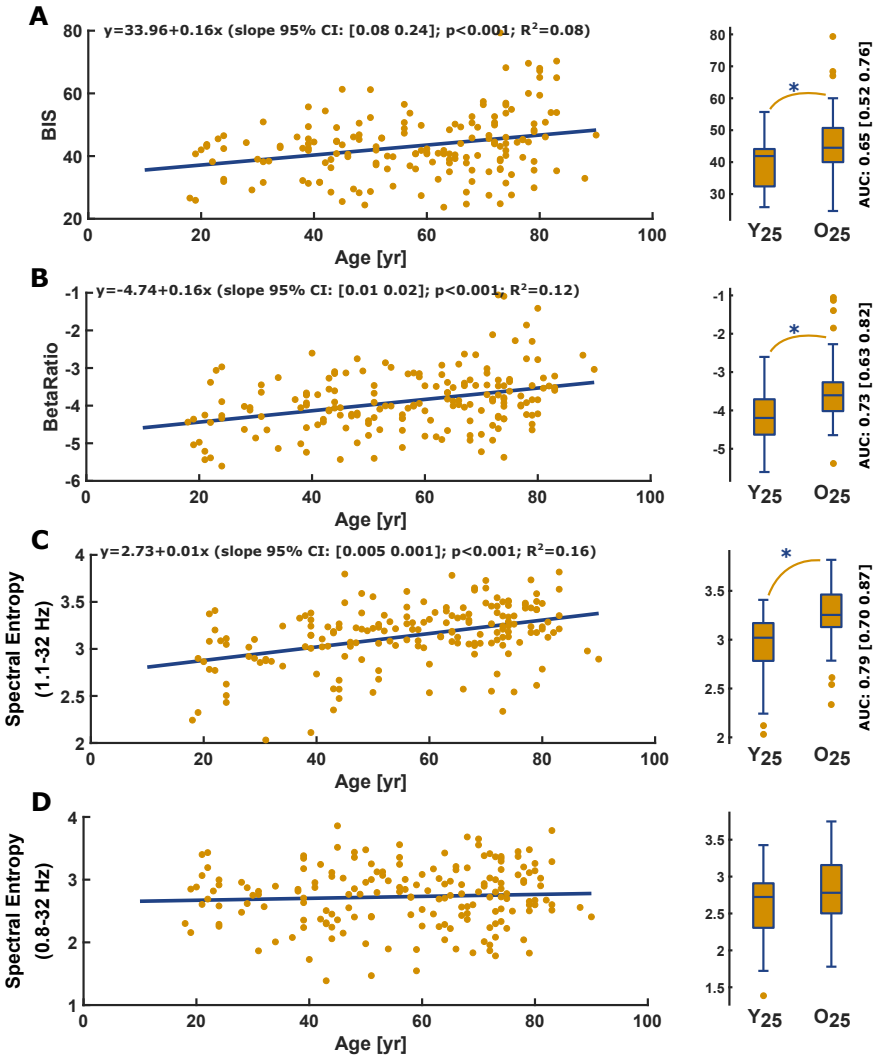

Figure S7: Age induced-change of (A) bispectral index (BIS), (B) BetaRatio, and spectral entropy for (C) the 0.8-32 Hz and (D) the 1.1-32 Hz range.

A) BIS values increased with age (p<0.001, t-statistic 3.84) and age had a “poor” but significant (p=0.026, AUC=0.65 [0.52 0.76]) effect as depicted in Y25 vs. O25 boxplot.

B) The beta ratio as subparameter of the BIS increased (p<0.001, t-statistic: 5.00) with age. Age had a “fair” and significant (p<0.001, AUC=0.73 [0.63 0.82]) effect on beta ratio as depicted in Y25 vs. O25 boxplot.

C) Spectral entropy for the 1.1-32 Hz range as proxy for the state entropy index from the Entropy Module increased (p<0.001, t-statistic: 5.81) with age. Age had a “fair” to “good” and significant (p<0.001, AUC=0.79 [0.70 0.87]) effect as depicted in the youngest 25% Y25 vs. the oldest 25% O25 boxplot.

D) Spectral entropy for the 0.8-32 Hz range as proxy for the state entropy index from the did not show a significant influence of age on spectral entropy (p=0.433, t-statistic: 0.79) with age. Age no effect (p=0.201, AUC=0.58 [0.47 0.68]) effect as depicted in Y25 vs. O25 boxplot.

In the regression plots, the yellow dots present the single patients and the blue line the linear fit.
Y25: youngest 25% O25: oldest 25%; yr: year