



Figure S3: Power spectral density measures vs. age: Power vs. age and corresponding youngest vs. oldest quartile box plot for the delta power(A), the theta power (B), EEG alpha power (C) and the EEG beta power (D).

- A) Delta power decreased with age ($p<0.001$, t-statistic -10.99) and age had an excellent and significant ($p<0.001$, (AUC=0.94 [0.89 0.98])) effect as depicted in the Y25 vs. O25 boxplot.
- B) Theta power decreased with age ($p<0.001$, t-statistic -13.13) and age had an excellent and significant ($p<0.001$, (AUC=0.93 [0.86 0.98])) effect as depicted in Y25 vs. O25 boxplot.
- C) Power in the alpha-band significantly ($p<0.001$, t-statistic -12.25) decreased with age. Age had had an excellent and significant ($p<0.001$, AUC=0.92 [0.86 0.98]) effect on absolute alpha-band power as depicted in Y25 vs. O25 boxplot
- D) EEG beta power significantly ($p<0.001$, t-statistic -9.74) decreased with age. had an excellent and significant (AUC=0.90 [0.83 0.96]) and significant ($p<0.001$) 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