Supplementary Table S2: Association between the severity of overall cognitive impairment (ACE-R scores) and EEG characteristics in the MCI-LB and MCI-AD groups using Spearman’s correlations. P-values are FDR-corrected for multiple comparisons.

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| --- | --- | --- |
|  | Correlation with ACE-R scores in MCI-AD | Correlation with ACE-R scores in MCI-LB |
| Delta power | ρ=-0.12, pFDR=0.51 | ρ=-0.22 , pFDR=0.21 |
| Theta power | ρ=-0.23 , pFDR=0.21 | ρ=-0.37 , pFDR=0.03 |
| Pre-alpha power | ρ=-0.42 , pFDR=0.02 | ρ=-0.34 , pFDR=0.06 |
| Alpha power | ρ=0.42 , pFDR=0.02 | ρ=0.49 , pFDR=0.006 |
| Beta power | ρ=0.11 , pFDR=0.54 | ρ=0.29 , pFDR=0.09 |
| Theta/alpha ratio | ρ=-0.33 , pFDR=0.07 | ρ=-0.50 , pFDR=0.006 |
| DF, all electrodes | ρ=0.52 , pFDR=0.006 | ρ=0.42 , pFDR=0.02 |
| DF, occipital electr. | ρ=0.52 , pFDR=0.006 | ρ=0.48 , pFDR=0.007 |
| ACE-R, Addenbrooke’s Cognitive Examination – Revised; DF, dominant frequency; FDR, false discovery rate corrected; MCI-AD, mild cognitive impairment with Alzheimer’s disease; MCI-LB, mild cognitive impairment with Lewy bodies. | | |