

Sleep Variables and Cognitive/MRI Outcomes Analysis Report

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Data Summary

- Total subjects: 522
- Total observations: 2088
- Mean visits per subject: 4.0

Model Specifications

Model 1 (Sociodemographic):

- Predictors: Adjusted_Age, DX_1, DX_2, PTEDUCAT, PTETHCAT_2, PTGENDER_1, PTMARRY, PTRACCAT_1

Model 2 (Full):

- Additional predictors: APOE4, BMI, Medical History

Cognitive Results

- Total tests: 15
- Significant (FDR): 5 (33.3%)
- Significant (Bonferroni): 1 (6.7%)
- Significant findings by sleep variable:
 - MHSleep: 3
 - NPIK: 1
 - NPIKSEV: 1

Mri Results

- Total tests: 138
- Significant (FDR): 3 (2.2%)
- Significant (Bonferroni): 2 (1.4%)
- Significant findings by sleep variable:
 - MHSleep: 2
 - NPIKSEV: 1

Generated Files

Tables:

- cognitive_corrected_results_model1.csv
- cognitive_corrected_results_model2.csv
- mri_corrected_results_model1.csv

- mri_corrected_results_model2.csv
- supplementary_cognitive_all_results_model1.csv
- supplementary_cognitive_all_results_model2.csv
- supplementary_cognitive_diagnostics_model1.csv
- supplementary_cognitive_diagnostics_model2.csv
- supplementary_mri_all_results_model1.csv
- supplementary_mri_all_results_model2.csv
- supplementary_mri_diagnostics_model1.csv
- supplementary_mri_diagnostics_model2.csv
- table1_sample_characteristics.csv
- table1_sleep_prevalence.csv
- table2_cognitive_results_model1.csv
- table2_cognitive_results_model2.csv
- table3_mri_results_model1.csv
- table3_mri_results_model2.csv
- table4_model_comparison.csv

Figures:

- main_results_model1.pdf
- main_results_model2.pdf

Model Files:

- cognitive_outcomes_MHSleep_model1.pkl
- cognitive_outcomes_MHSleep_model2.pkl
- cognitive_outcomes_NPIKSEV_model1.pkl
- cognitive_outcomes_NPIKSEV_model2.pkl
- cognitive_outcomes_NPIK_model1.pkl
- cognitive_outcomes_NPIK_model2.pkl
- mri_outcomes_MHSleep_model1.pkl
- mri_outcomes_MHSleep_model2.pkl
- mri_outcomes_NPIKSEV_model1.pkl
- mri_outcomes_NPIKSEV_model2.pkl
- mri_outcomes_NPIK_model1.pkl
- mri_outcomes_NPIK_model2.pkl