

Individual Sleep Analysis Report

Subject ID: 25 | Healthy Control Study

Analysis Date: August 16, 2025 | Nights Analyzed: 2 | Report Generated by: Sleep-EDF Analysis System

Subject Information

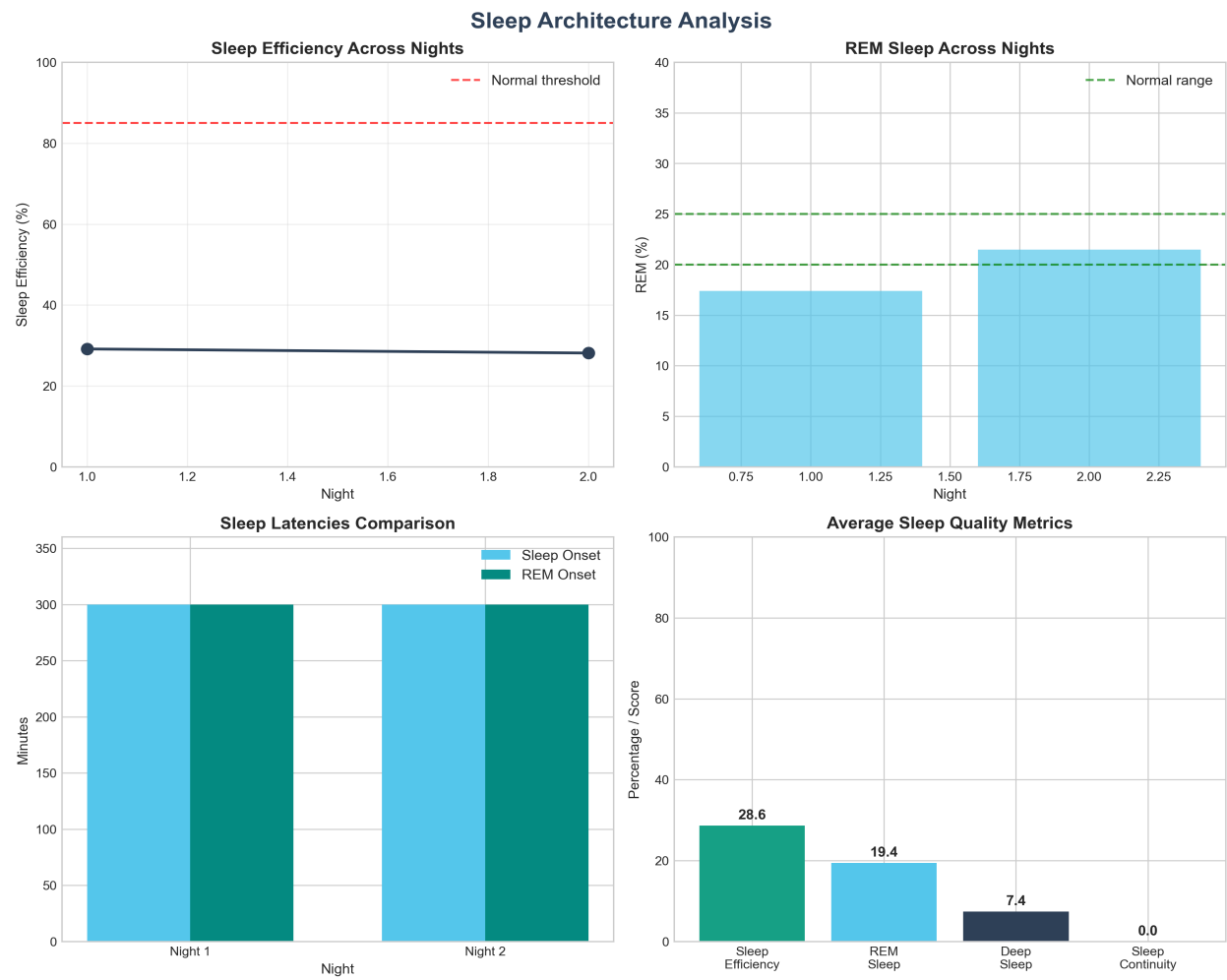
Subject ID	25
Age	56 years
Sex	F
Study Type	Healthy Controls
Number of Nights	2
Recording Dates	Multiple nights

Executive Summary

This report presents a comprehensive analysis of 2 night polysomnographic recordings for Subject 25, a 56-year-old F participant from the Sleep Cassette (healthy controls) study under nan condition.

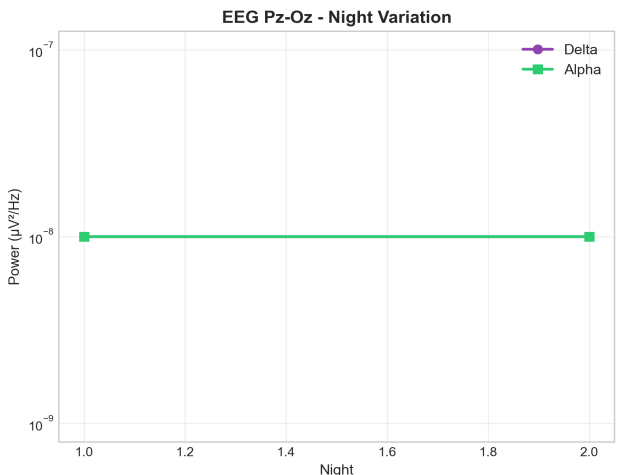
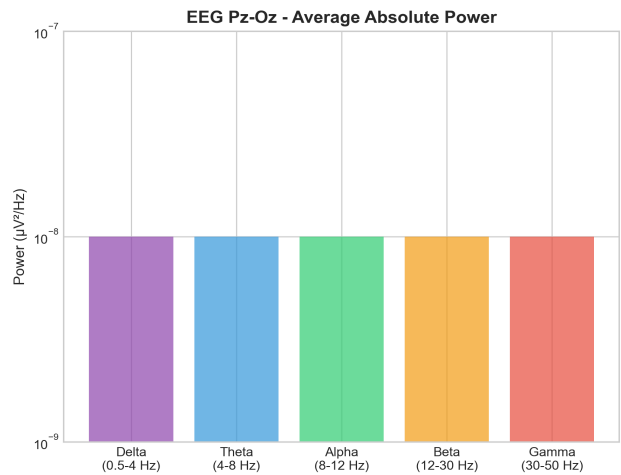
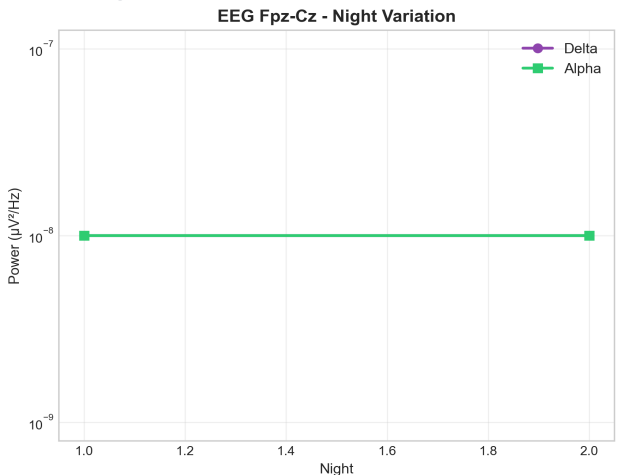
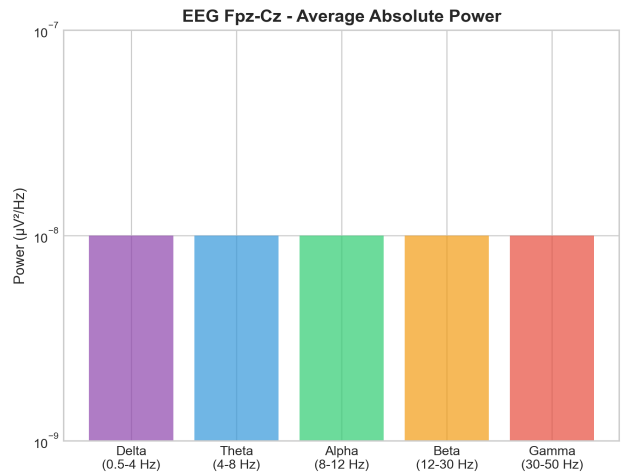
Metric	Value	Clinical Interpretation
Sleep Efficiency	28.6%	Below Normal (<85%)
Sleep Latency	504.0 min	Prolonged (>30min)
REM Latency	675.5 min	Atypical
REM Sleep	19.4%	Atypical
Wake After Sleep Onset	440.0 min	Elevated (>30min)

Sleep Architecture Analysis

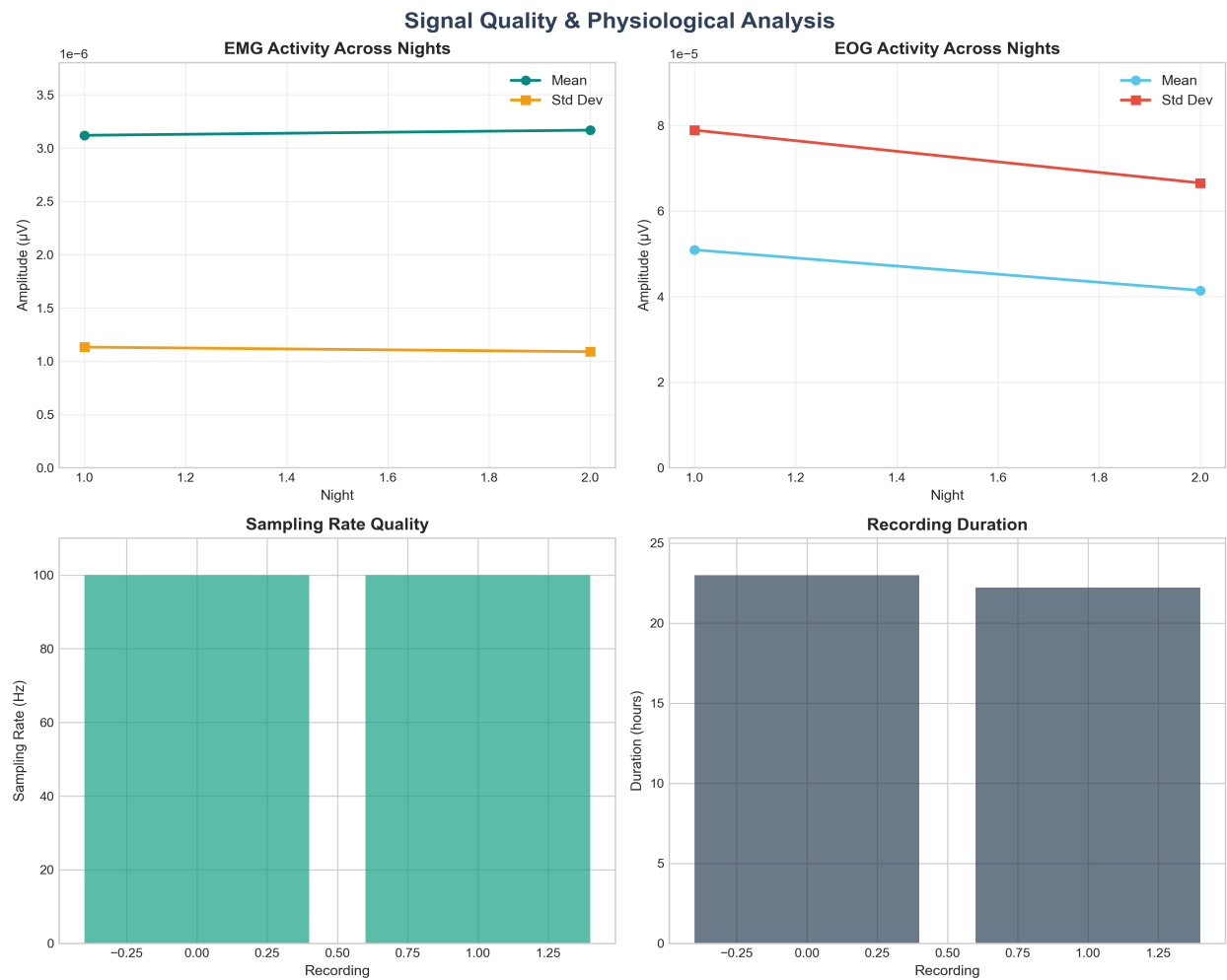


Neurophysiological Analysis - EEG Power Spectrum

EEG Power Spectral Analysis

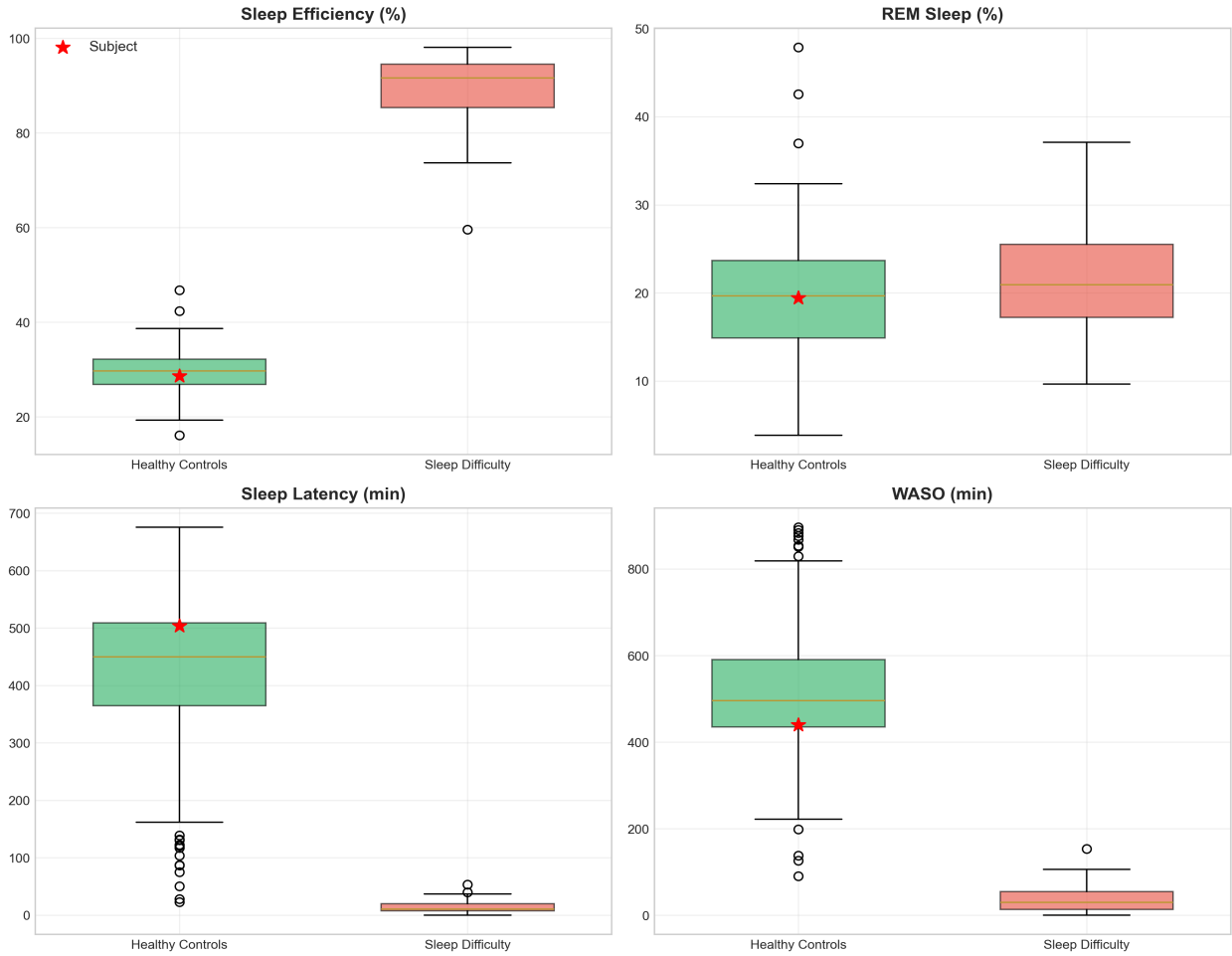


Signal Quality & Physiological Assessment



Population Comparative Analysis

Comparative Population Analysis



Clinical Interpretation & Recommendations

Overall Sleep Health Assessment

Sleep Quality Level: POOR

Poor sleep quality with multiple metrics outside normal ranges. The subject's sleep architecture shows:

- Sleep Efficiency: 28.6% (Below normal)
- REM Sleep: 19.4% (Atypical)
- Deep Sleep: 7.4% (Reduced)
- Sleep Continuity: Fragmented (WASO: 440.0 min)

Key Findings

- **Reduced Sleep Efficiency:** At 28.6%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Reduced REM Sleep:** REM sleep comprises 19.4% of total sleep, which is below the normal range of 20-25%.
- **Reduced Deep Sleep:** Deep sleep stages (N3+N4) comprise 7.4% of sleep, which may indicate reduced sleep restoration.

Recommendations

- Consider sleep hygiene counseling and evaluation of factors affecting sleep quality
- Evaluate for potential REM sleep disorders or medications affecting REM sleep
- Assess sleep environment and factors that may be disrupting deep sleep stages
- Investigation of factors causing sleep fragmentation may be beneficial

Report Analysis and Generation:

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Report Version: 1.0 | Generated: August 16, 2025 at 08:58 PM