

# Individual Sleep Analysis Report

## Subject ID: 70 | Healthy Control Study

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

### Subject Information

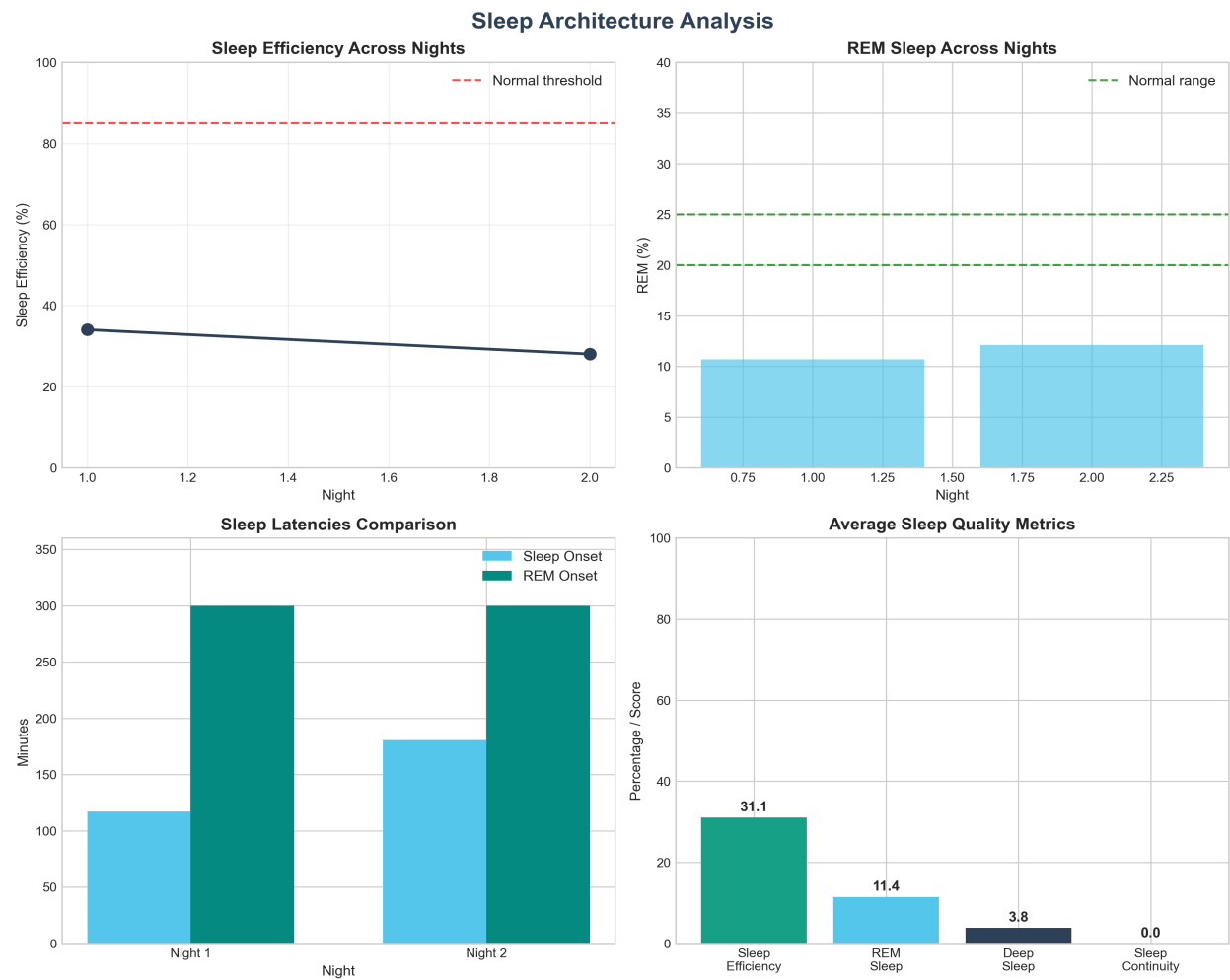
Subject ID	70
Age	89 years
Sex	M
Study Type	Healthy Controls
Number of Nights	2
Recording Dates	Multiple nights

### Executive Summary

This report presents a comprehensive analysis of 2 night polysomnographic recordings for Subject 70, a 89-year-old M participant from the Sleep Cassette (healthy controls) study under nan condition.

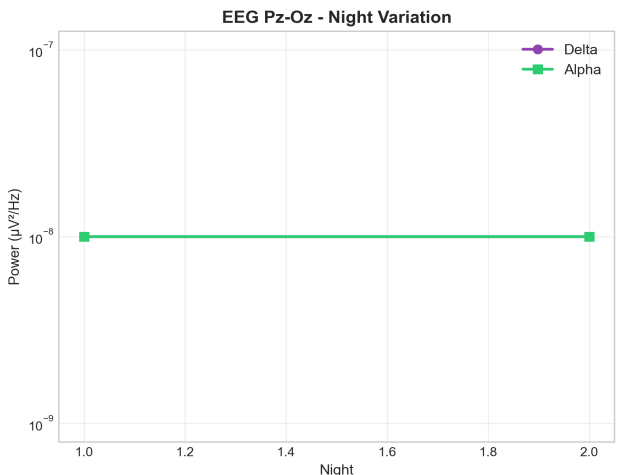
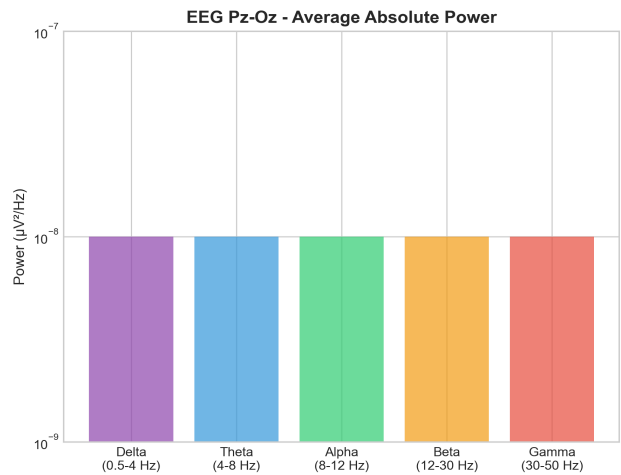
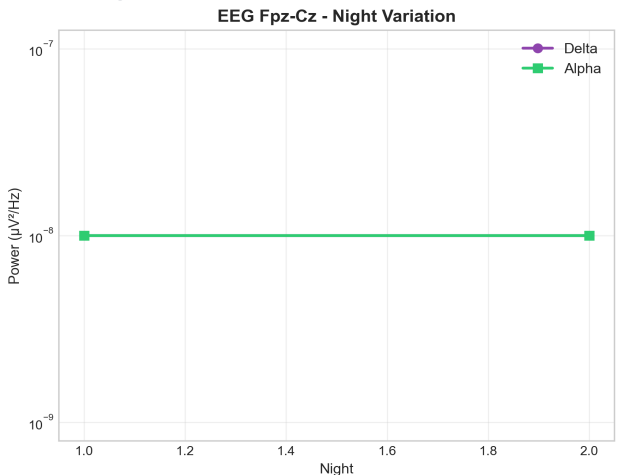
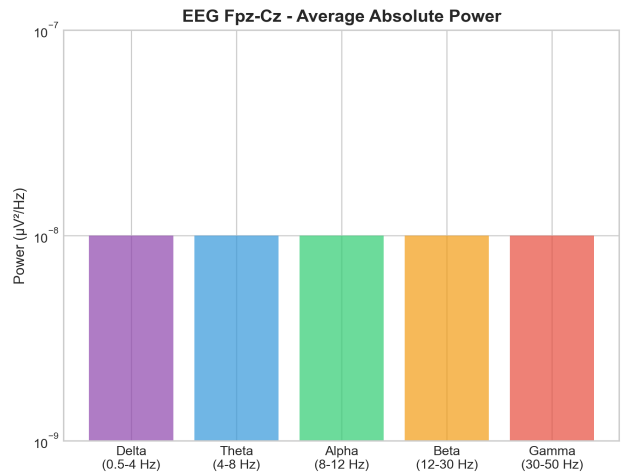
Metric	Value	Clinical Interpretation
Sleep Efficiency	31.1%	Below Normal (<85%)
Sleep Latency	148.8 min	Prolonged (>30min)
REM Latency	517.5 min	Atypical
REM Sleep	11.4%	Atypical
Wake After Sleep Onset	729.8 min	Elevated (>30min)

# Sleep Architecture Analysis

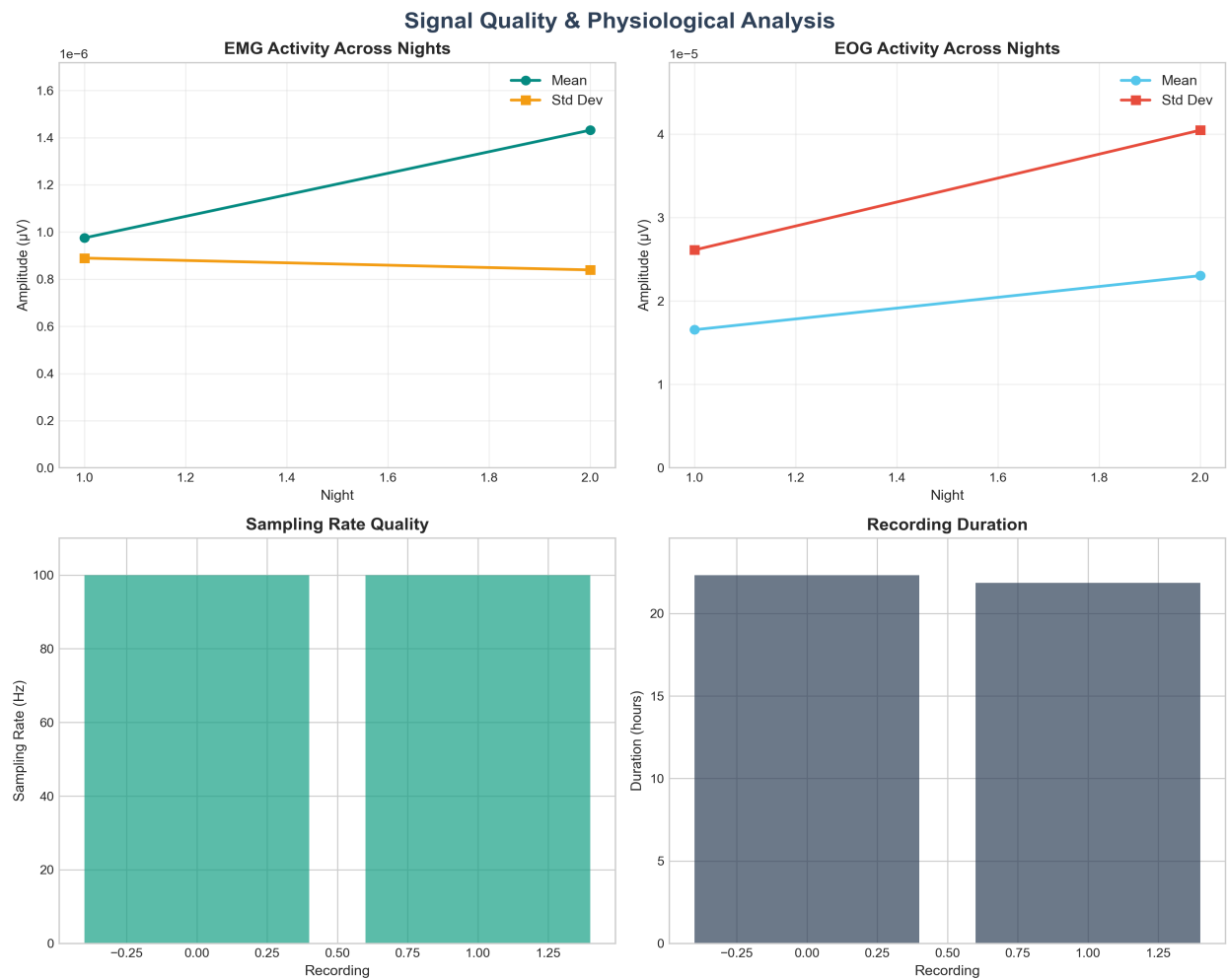


## Neurophysiological Analysis - EEG Power Spectrum

# EEG Power Spectral Analysis

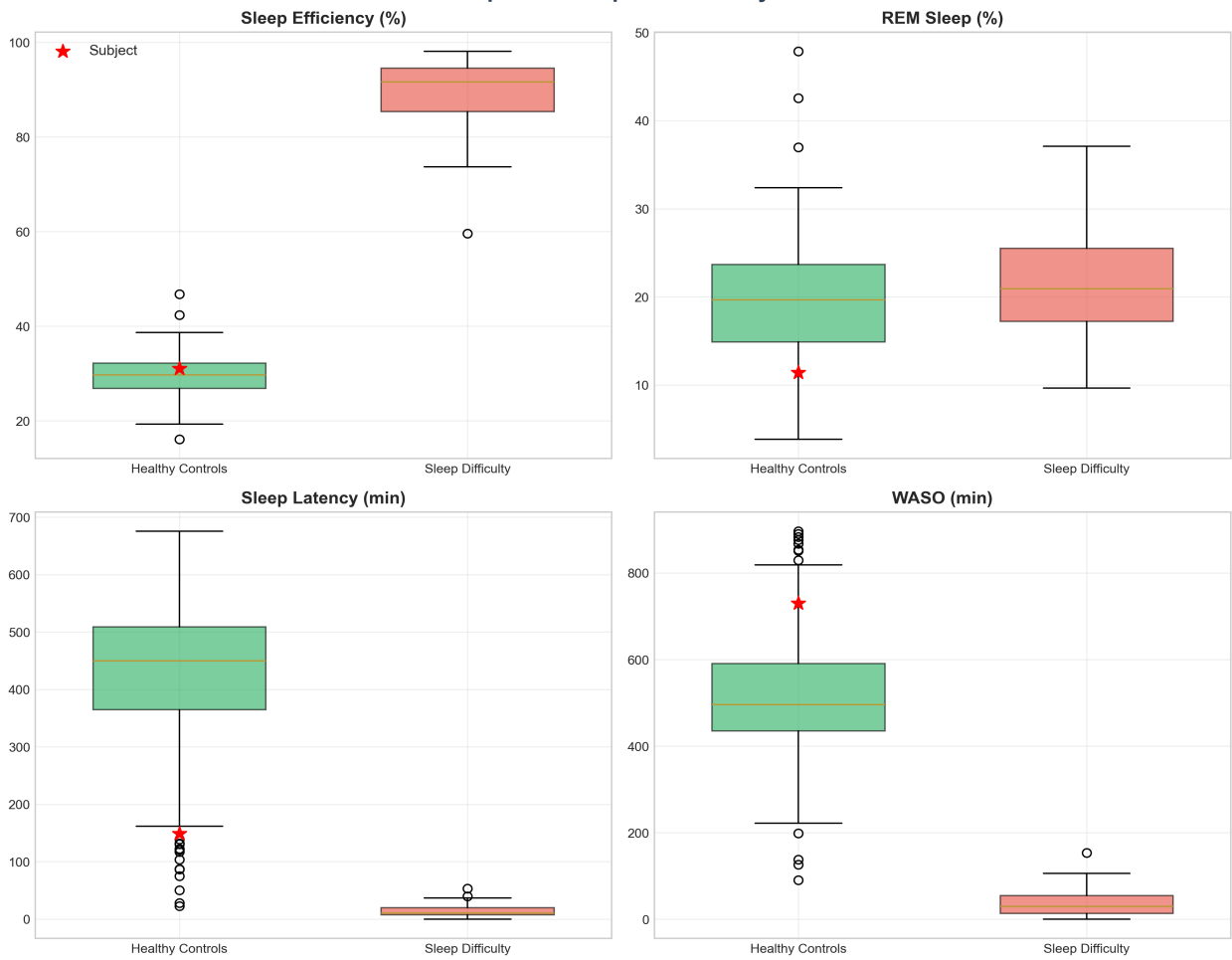


# Signal Quality & Physiological Assessment



## 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: 31.1% (Below normal)
- REM Sleep: 11.4% (Atypical)
- Deep Sleep: 3.8% (Reduced)
- Sleep Continuity: Fragmented (WASO: 729.8 min)

### Key Findings

- **Reduced Sleep Efficiency:** At 31.1%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Reduced REM Sleep:** REM sleep comprises 11.4% of total sleep, which is below the normal range of 20-25%.
- **Reduced Deep Sleep:** Deep sleep stages (N3+N4) comprise 3.8% 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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