

# Individual Sleep Analysis Report

Subject ID: 56 | Healthy Control Study

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

## Subject Information

Subject ID	56
Age	72 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 56, a 72-year-old M participant from the Sleep Cassette (healthy controls) study under nan condition.

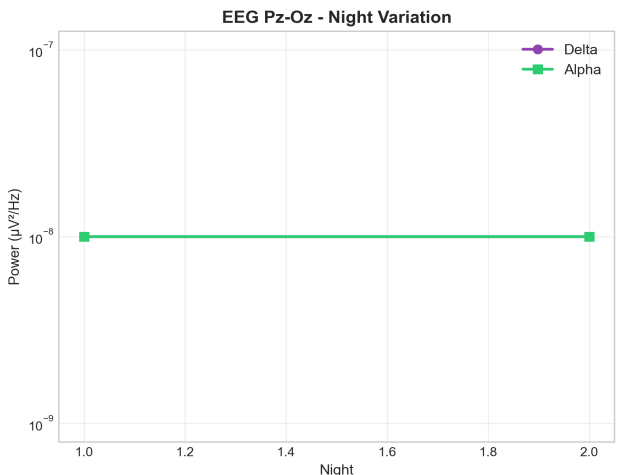
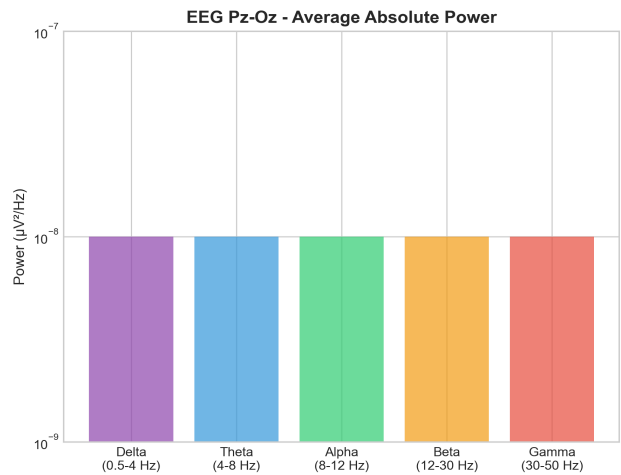
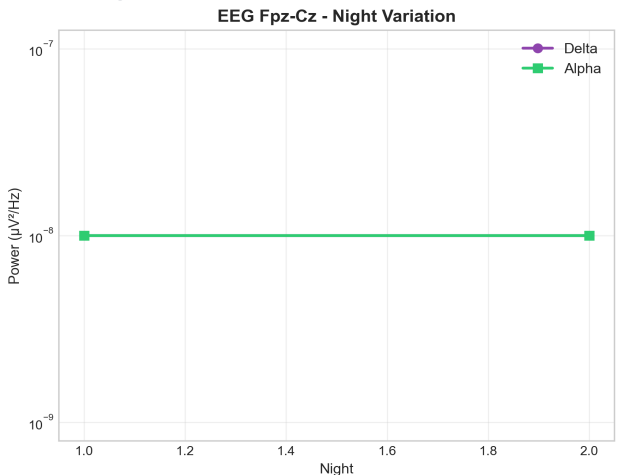
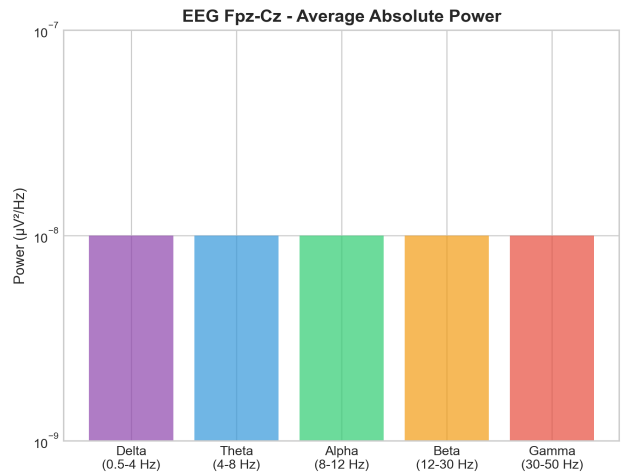
Metric	Value	Clinical Interpretation
Sleep Efficiency	31.6%	Below Normal (<85%)
Sleep Latency	479.0 min	Prolonged (>30min)
REM Latency	561.2 min	Atypical
REM Sleep	13.8%	Atypical
Wake After Sleep Onset	441.2 min	Elevated (>30min)

# Sleep Architecture Analysis

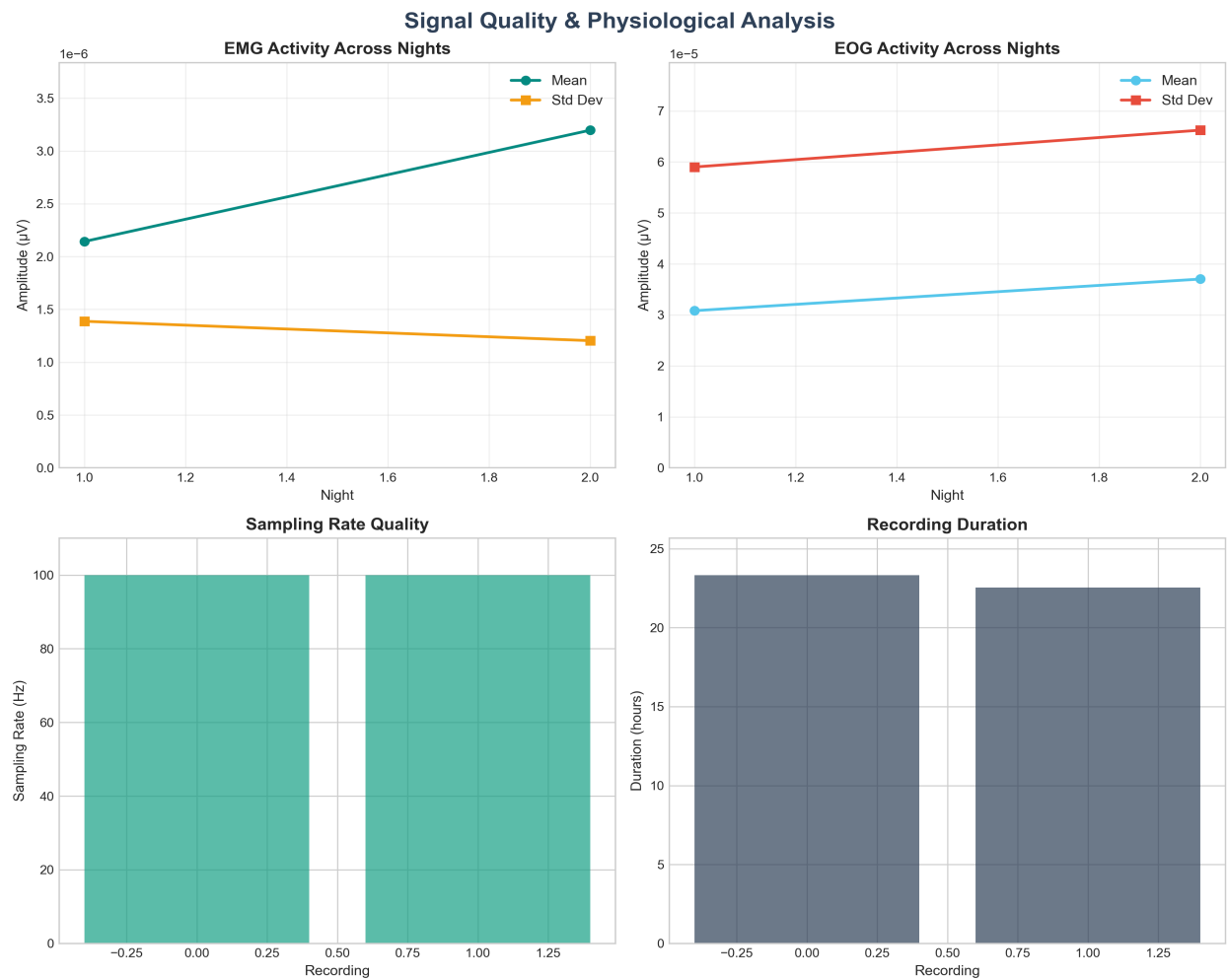


# Neurophysiological Analysis - EEG Power Spectrum

# EEG Power Spectral Analysis

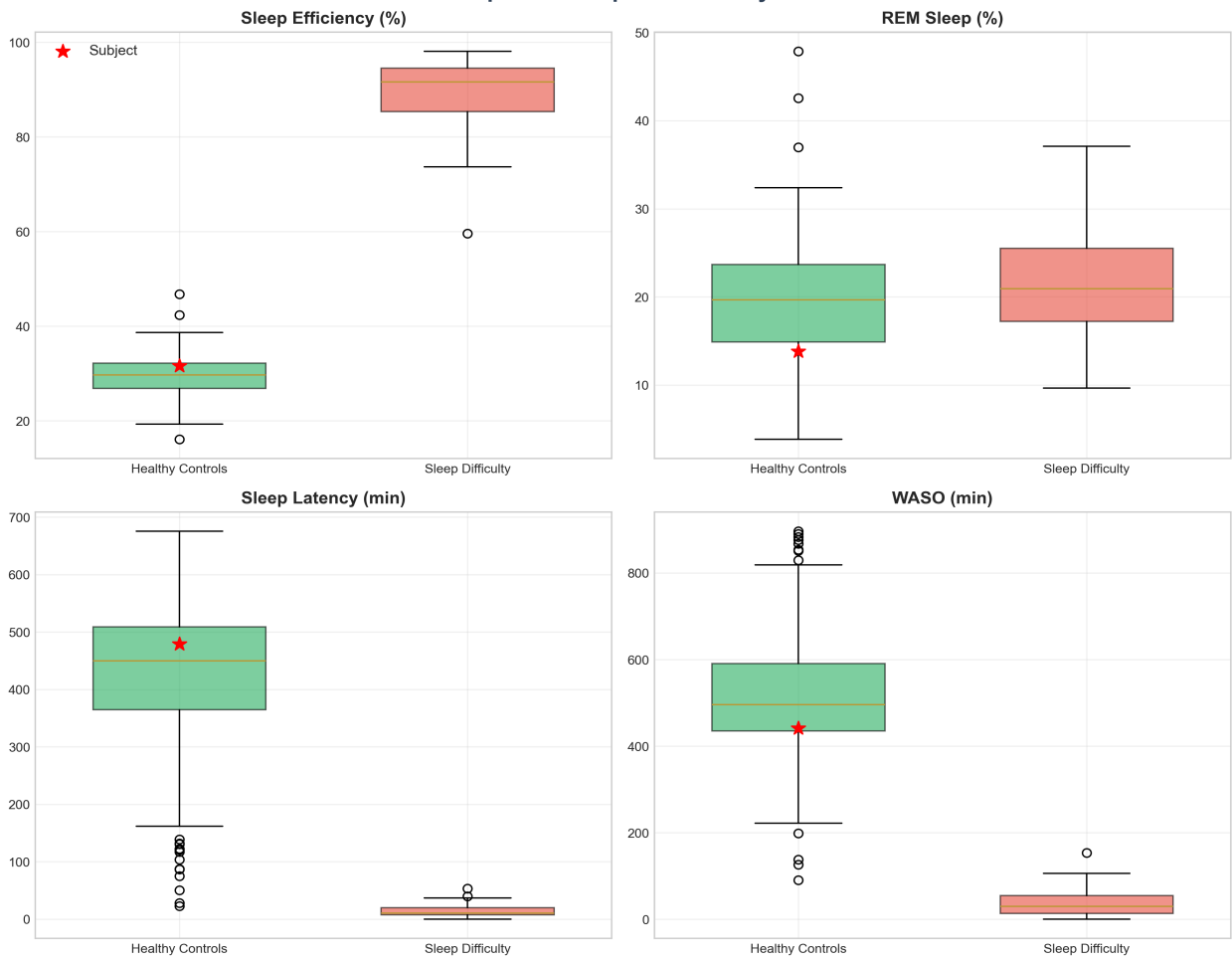


# Signal Quality & Physiological Assessment



## 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: 31.6% (Below normal)
- REM Sleep: 13.8% (Atypical)
- Deep Sleep: 4.2% (Reduced)
- Sleep Continuity: Fragmented (WASO: 441.2 min)

### Key Findings

- **Reduced Sleep Efficiency:** At 31.6%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Reduced REM Sleep:** REM sleep comprises 13.8% of total sleep, which is below the normal range of 20-25%.
- **Reduced Deep Sleep:** Deep sleep stages (N3+N4) comprise 4.2% 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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