

Individual Sleep Analysis Report

Subject ID: 13 | Healthy Control Study

Analysis Date: August 16, 2025 | Nights Analyzed: 1 | Report Generated by: Sleep-EDF Analysis System

Subject Information

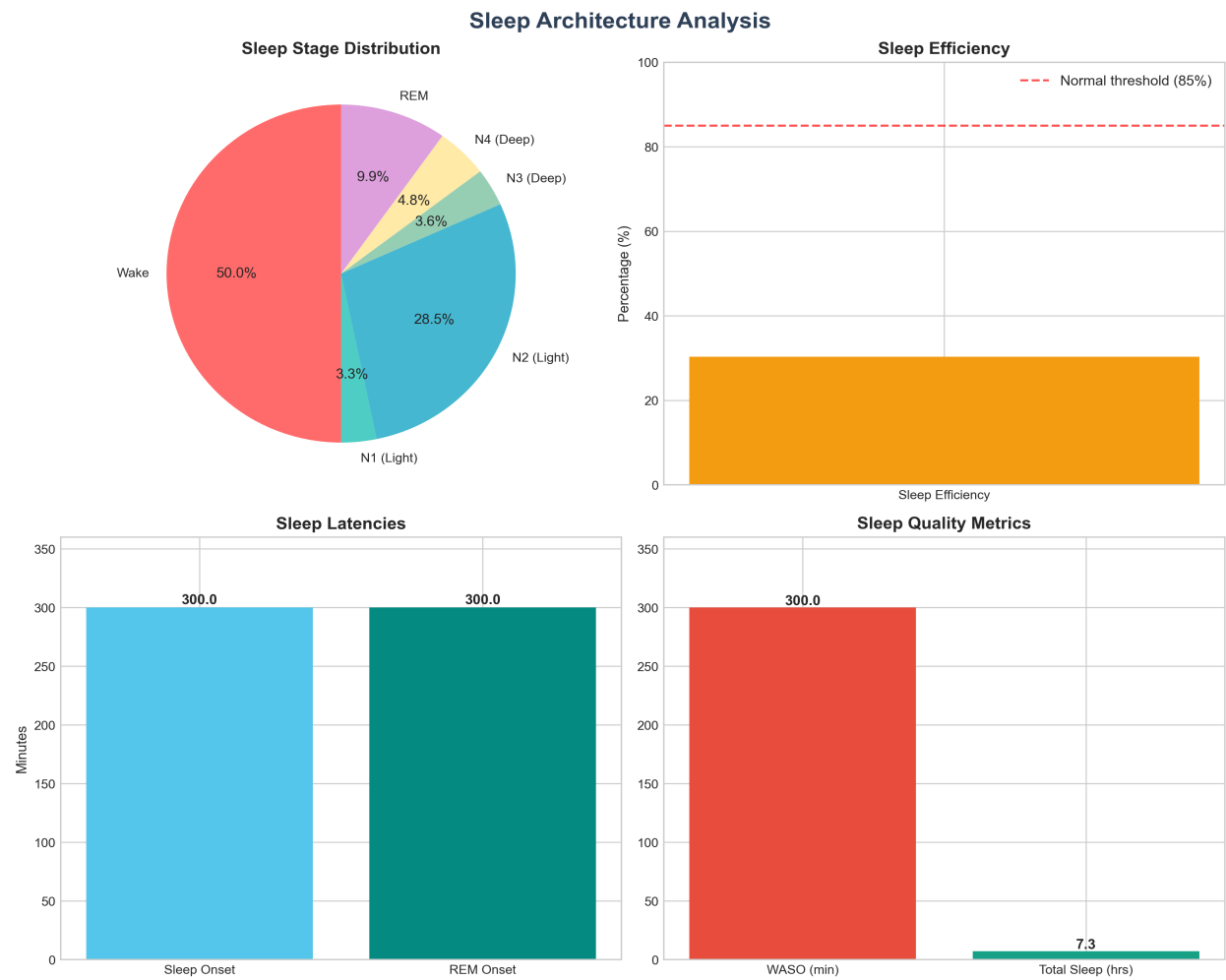
Subject ID	13
Age	27 years
Sex	M
Study Type	Healthy Controls
Number of Nights	1
Recording Dates	Single night

Executive Summary

This report presents a comprehensive analysis of a single night polysomnographic recording for Subject 13, a 27-year-old M participant from the Sleep Cassette (healthy controls) study.

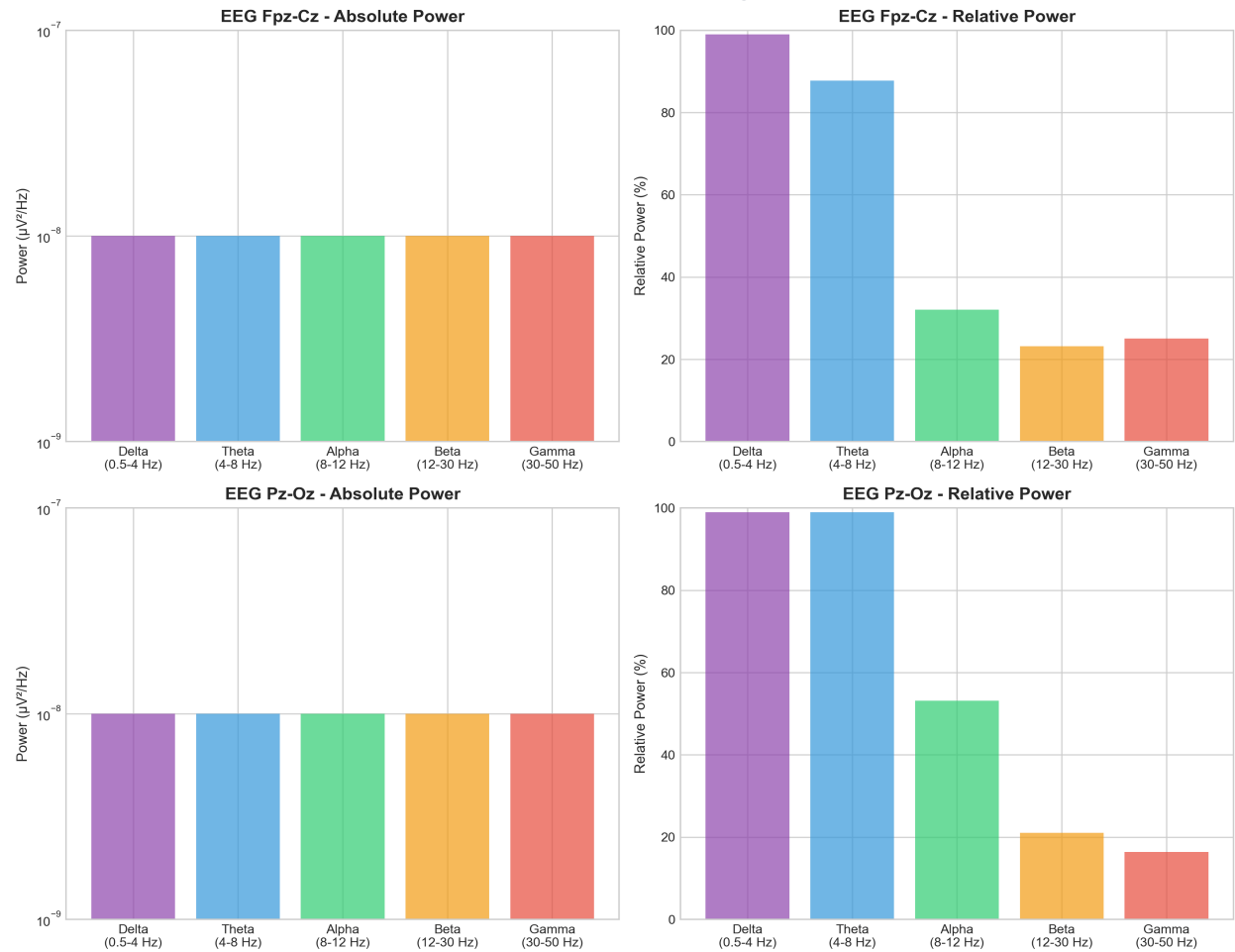
Metric	Value	Clinical Interpretation
Sleep Efficiency	30.3%	Below Normal (<85%)
Sleep Latency	481.0 min	Prolonged (>30min)
REM Latency	638.0 min	Atypical
REM Sleep	19.7%	Atypical
Wake After Sleep Onset	489.5 min	Elevated (>30min)

Sleep Architecture Analysis

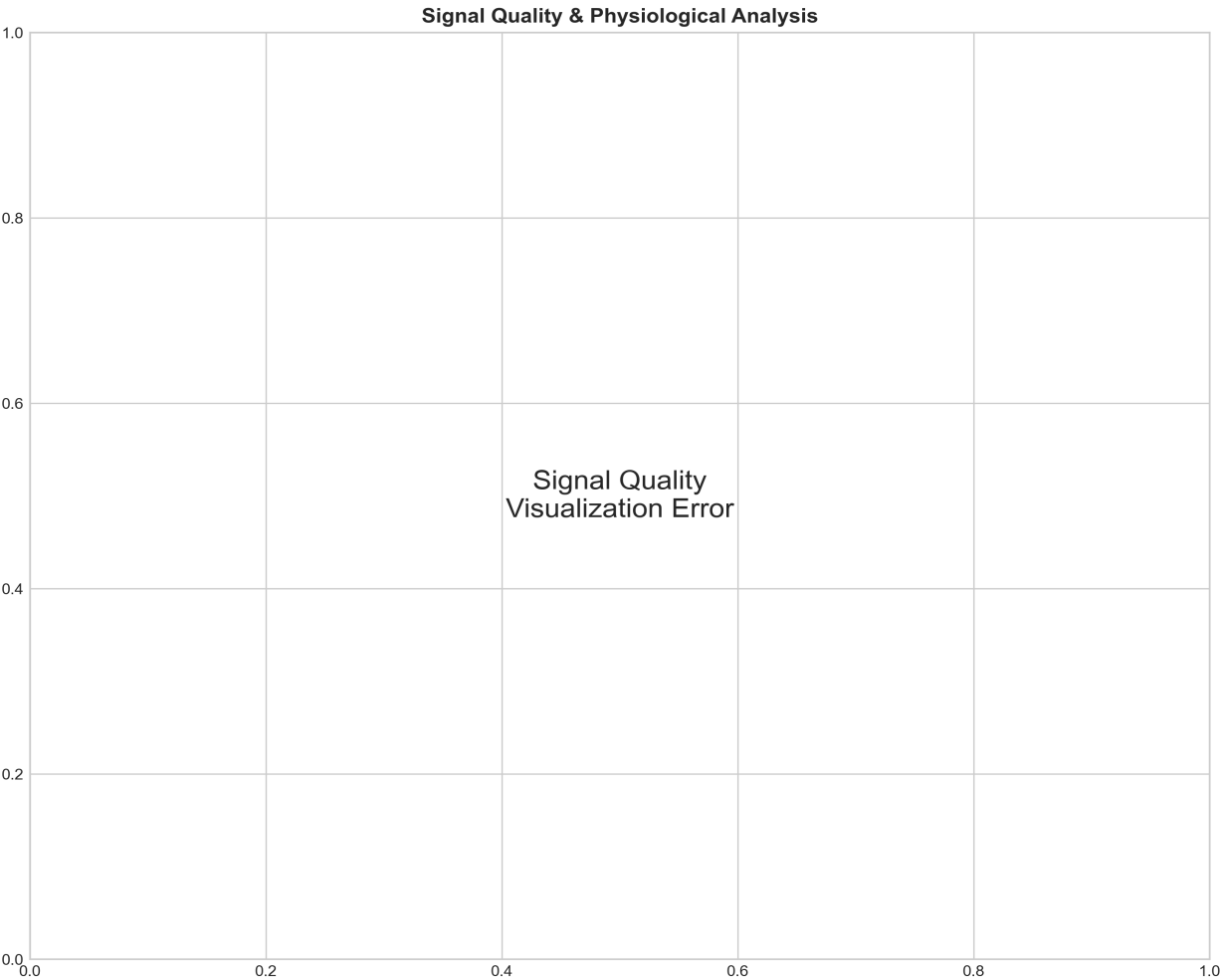


Neurophysiological Analysis - EEG Power Spectrum

EEG Power Spectral Analysis

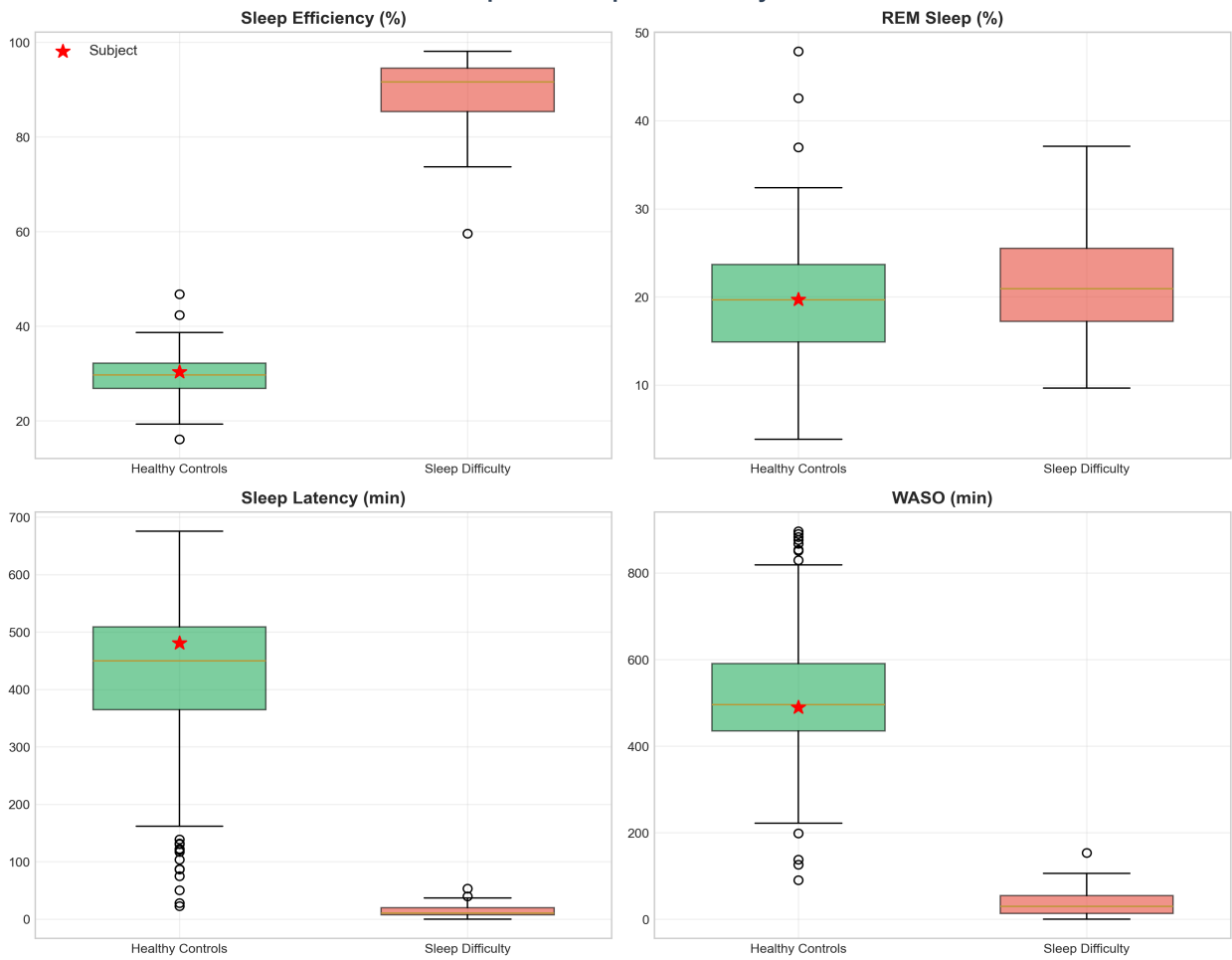


Signal Quality & Physiological Assessment



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: 30.3% (Below normal)
- REM Sleep: 19.7% (Atypical)
- Deep Sleep: 16.8% (Adequate)
- Sleep Continuity: Fragmented (WASO: 489.5 min)

Key Findings

- **Reduced Sleep Efficiency:** At 30.3%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Reduced REM Sleep:** REM sleep comprises 19.7% of total sleep, which is below the normal range of 20-25%.
- **Adequate Deep Sleep:** Deep sleep stages comprise 16.8% of sleep, indicating good restorative sleep.

Recommendations

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

Report Analysis and Generation:

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