

Individual Sleep Analysis Report

Subject ID: 7 | Sleep Difficulty Study

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

Subject Information

Subject ID	7
Age	51 years
Sex	F
Study Type	Sleep Difficulty
Number of Nights	2
Recording Dates	Multiple nights
Study Conditions	placebo, temazepam

Executive Summary

This report presents a comprehensive analysis of 2 night polysomnographic recordings for Subject 7, a 51-year-old F participant from the Sleep Telemetry (sleep difficulty) study under placebo and temazepam conditions.

Metric	Value	Clinical Interpretation
Sleep Efficiency	66.6%	Below Normal (<85%)
Sleep Latency	13.2 min	Normal (≤30min)
REM Latency	92.8 min	Normal (60-120min)
REM Sleep	15.3%	Atypical
Wake After Sleep Onset	130.0 min	Elevated (>30min)

Sleep Architecture Analysis

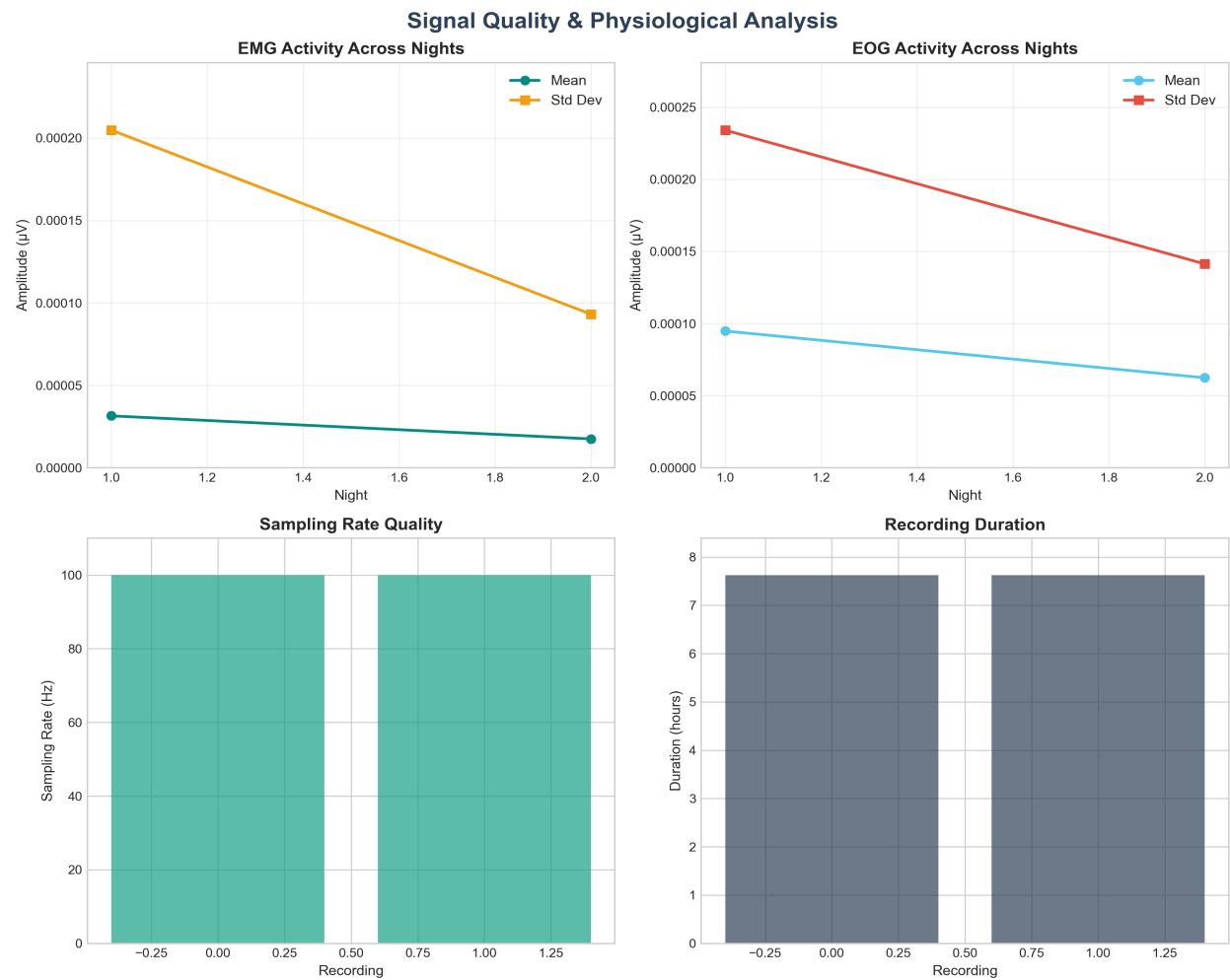


Neurophysiological Analysis - EEG Power Spectrum

EEG Power Spectral Analysis

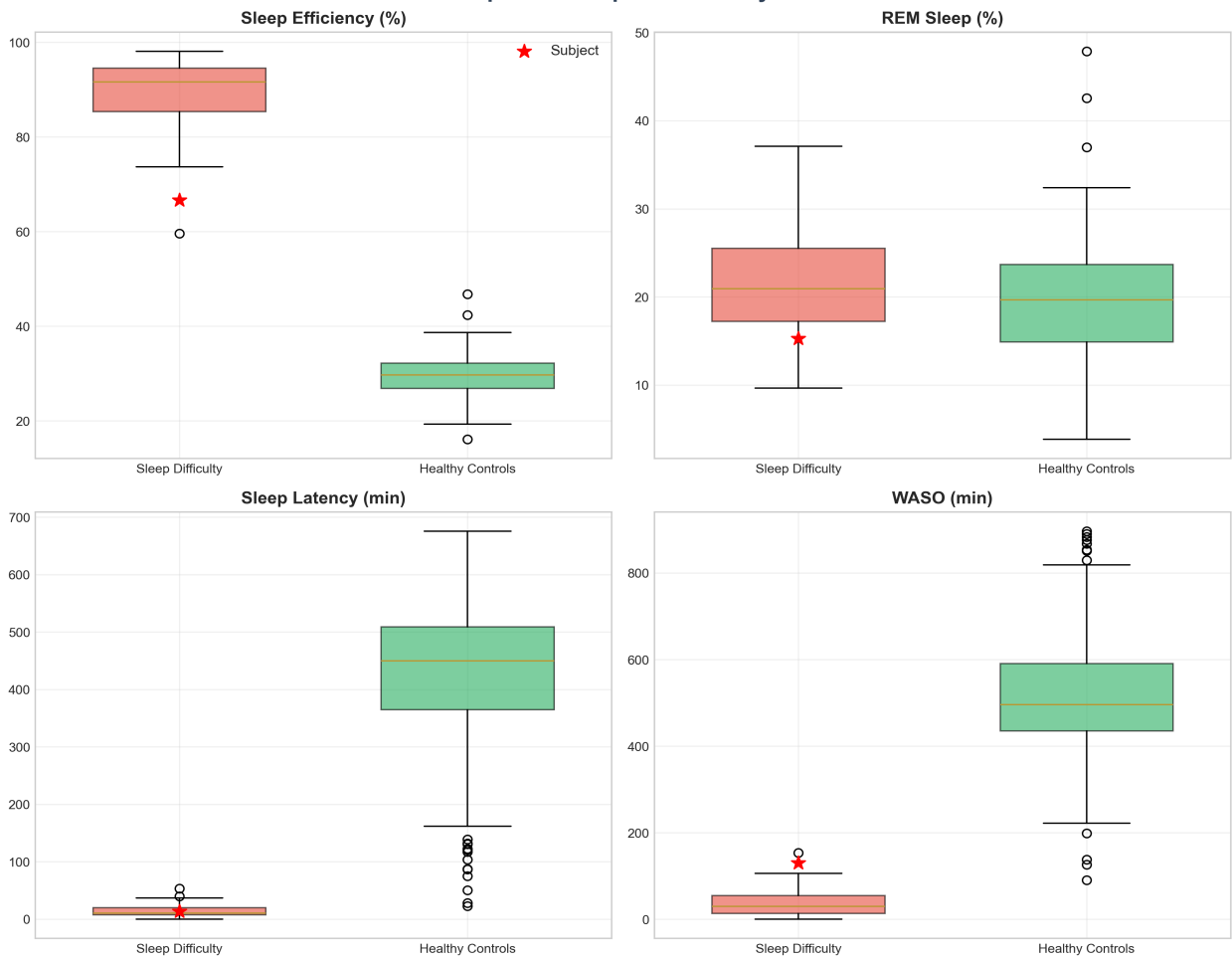


Signal Quality & Physiological Assessment



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: 66.6% (Below normal)
- REM Sleep: 15.3% (Atypical)
- Deep Sleep: 25.4% (Adequate)
- Sleep Continuity: Fragmented (WASO: 130.0 min)

Key Findings

- **Reduced Sleep Efficiency:** At 66.6%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Reduced REM Sleep:** REM sleep comprises 15.3% of total sleep, which is below the normal range of 20-25%.
- **Adequate Deep Sleep:** Deep sleep stages comprise 25.4% of sleep, indicating good restorative sleep.
- **Medication Effect:** Temazepam improved sleep efficiency by 14.1% compared to placebo night.

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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