Individual Sleep Analysis Report

Subject ID: 22 | Sleep Difficulty Study

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

Subject Information

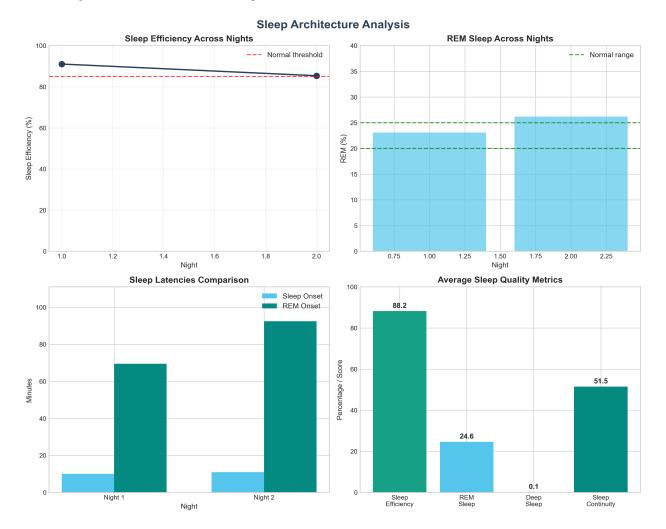
Subject ID	22	
Age	56 years	
Sex	M	
Study Type	Sleep Difficulty	
Number of Nights	2	
Recording Dates	Multiple nights	
Study Conditions	temazepam, placebo	

Executive Summary

This report presents a comprehensive analysis of 2 night polysomnographic recordings for Subject 22, a 56-year-old M participant from the Sleep Telemetry (sleep difficulty) study under temazepam and placebo conditions.

Metric	Value	Clinical Interpretation
Sleep Efficiency	88.2%	Normal (≥85%)
Sleep Latency	10.5 min	Normal (≤30min)
REM Latency	81.0 min	Normal (60-120min)
REM Sleep	24.6%	Normal (20-25%)
Wake After Sleep Onset	48.5 min	Elevated (>30min)

Sleep Architecture Analysis

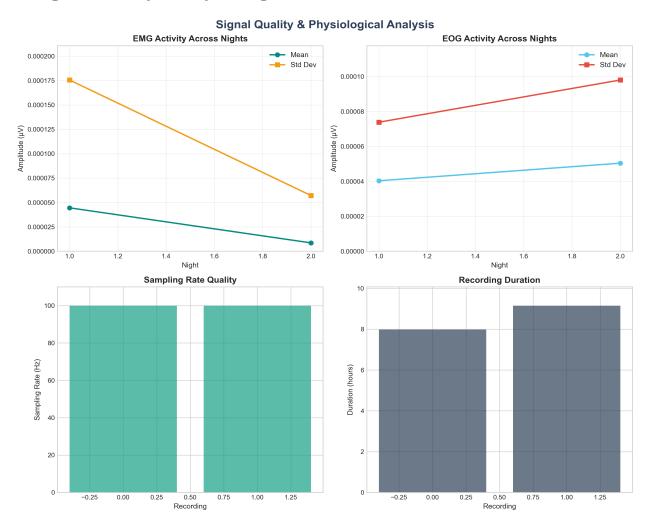


Neurophysiological Analysis - EEG Power Spectrum

EEG Power Spectral Analysis



Signal Quality & Physiological Assessment



Population Comparative Analysis

Comparative Population Analysis Sleep Efficiency (%) REM Sleep (%) ★ Subject Sleep Difficulty Healthy Controls Sleep Difficulty Healthy Controls WASO (min) Sleep Latency (min) Ö

Sleep Difficulty

Healthy Controls

Healthy Controls

Clinical Interpretation & Recommendations

Overall Sleep Health Assessment

Sleep Quality Level: FAIR

Fair sleep quality with some metrics outside normal ranges. The subject's sleep architecture shows:

Sleep Efficiency: 88.2% (Normal)REM Sleep: 24.6% (Normal)

• Deep Sleep: 0.1% (Reduced)

• Sleep Continuity: Fragmented (WASO: 48.5 min)

Key Findings

- Good Sleep Efficiency: At 88.2%, sleep efficiency is within normal range, indicating good sleep quality.
- **Normal REM Sleep**: REM sleep comprises 24.6% of total sleep, which is within the normal range.
- **Reduced Deep Sleep**: Deep sleep stages (N3+N4) comprise 0.1% of sleep, which may indicate reduced sleep restoration.
- **Medication Effect**: Temazepam improved sleep efficiency by 5.7% compared to placebo night.

Recommendations

- 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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