Individual Sleep Analysis Report

Subject ID: 0 | Healthy Control Study

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

Subject Information

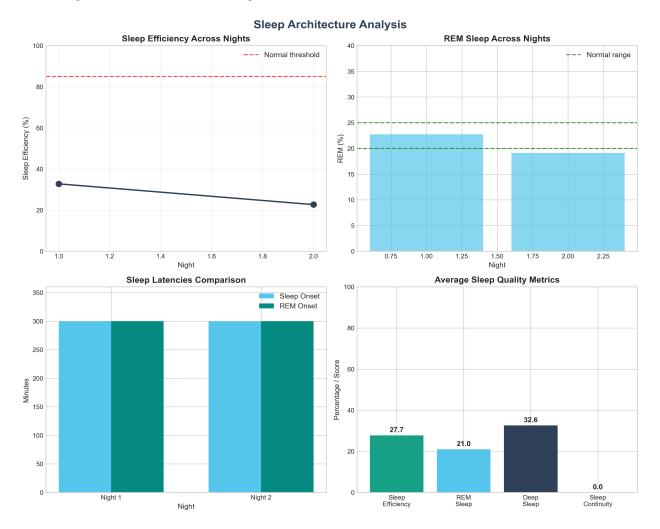
Subject ID	0
Age	33 years
Sex	F
Study Type	Healthy Controls
Number of Nights	2
Recording Dates	Multiple nights

Executive Summary

This report presents a comprehensive analysis of 2 night polysomnographic recordings for Subject 0, a 33-year-old F participant from the Sleep Cassette (healthy controls) study under nan condition.

Metric	Value	Clinical Interpretation
Sleep Efficiency	27.7%	Below Normal (<85%)
Sleep Latency	472.5 min	Prolonged (>30min)
REM Latency	550.0 min	Atypical
REM Sleep	21.0%	Normal (20-25%)
Wake After Sleep Onset	498.0 min	Elevated (>30min)

Sleep Architecture Analysis

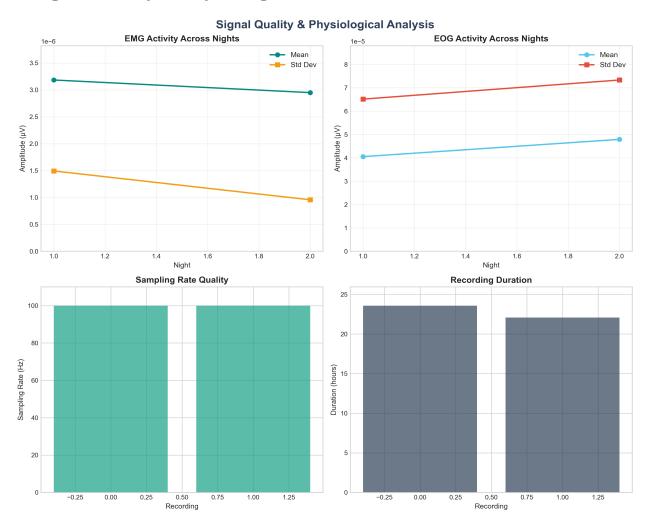


Neurophysiological Analysis - EEG Power Spectrum

EEG Power Spectral Analysis



Signal Quality & Physiological Assessment



Population Comparative Analysis

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

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Healthy Controls

Sleep Difficulty

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: 27.7% (Below normal)

REM Sleep: 21.0% (Normal)Deep Sleep: 32.6% (Adequate)

• Sleep Continuity: Fragmented (WASO: 498.0 min)

Key Findings

- **Reduced Sleep Efficiency**: At 27.7%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Normal REM Sleep**: REM sleep comprises 21.0% of total sleep, which is within the normal range.
- Adequate Deep Sleep: Deep sleep stages comprise 32.6% of sleep, indicating good restorative sleep.

Recommendations

- Consider sleep hygiene counseling and evaluation of factors affecting sleep quality
- Investigation of factors causing sleep fragmentation may be beneficial