Individual Sleep Analysis Report

Subject ID: 50 | Healthy Control Study

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

Subject Information

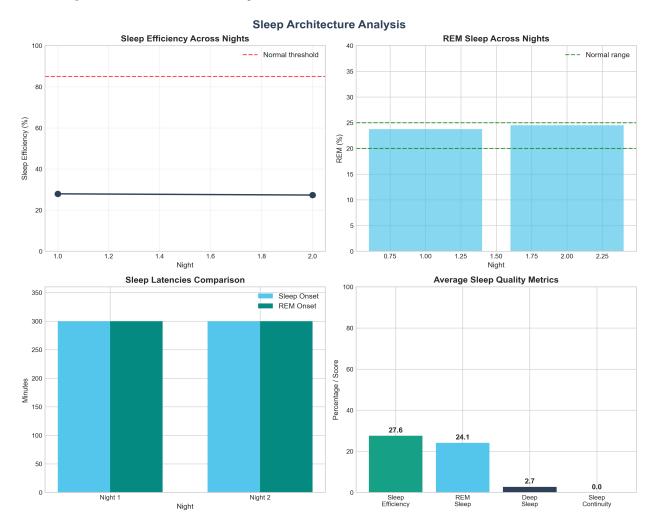
Subject ID	50
Age	71 years
Sex	M
Study Type	Healthy Controls
Number of Nights	2
Recording Dates	Multiple nights

Executive Summary

This report presents a comprehensive analysis of 2 night polysomnographic recordings for Subject 50, a 71-year-old M participant from the Sleep Cassette (healthy controls) study under nan condition.

Metric	Value	Clinical Interpretation
Sleep Efficiency	27.6%	Below Normal (<85%)
Sleep Latency	429.2 min	Prolonged (>30min)
REM Latency	636.8 min	Atypical
REM Sleep	24.1%	Normal (20-25%)
Wake After Sleep Onset	553.0 min	Elevated (>30min)

Sleep Architecture Analysis

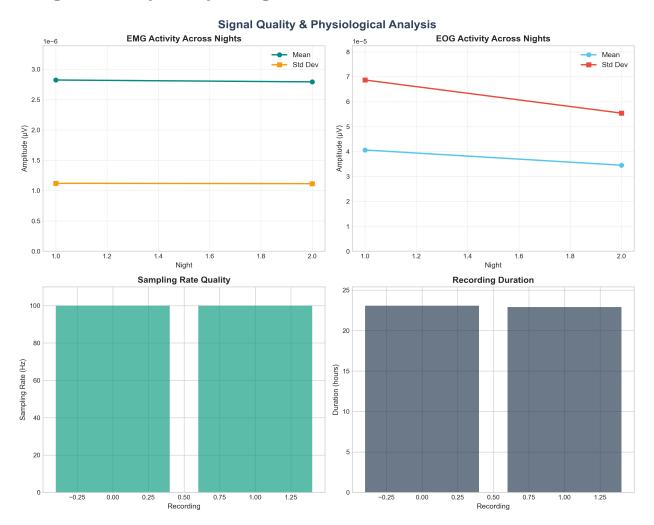


Neurophysiological Analysis - EEG Power Spectrum

EEG Power Spectral Analysis



Signal Quality & Physiological Assessment



Population Comparative Analysis

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

Healthy Controls

Healthy Controls

Sleep Difficulty

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: 27.6% (Below normal)

REM Sleep: 24.1% (Normal)Deep Sleep: 2.7% (Reduced)

• Sleep Continuity: Fragmented (WASO: 553.0 min)

Key Findings

- **Reduced Sleep Efficiency**: At 27.6%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Normal REM Sleep**: REM sleep comprises 24.1% of total sleep, which is within the normal range.
- **Reduced Deep Sleep**: Deep sleep stages (N3+N4) comprise 2.7% of sleep, which may indicate reduced sleep restoration.

Recommendations

- Consider sleep hygiene counseling and evaluation of factors affecting sleep quality
- 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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