Individual Sleep Analysis Report

Subject ID: 41 | Healthy Control Study

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

Subject Information

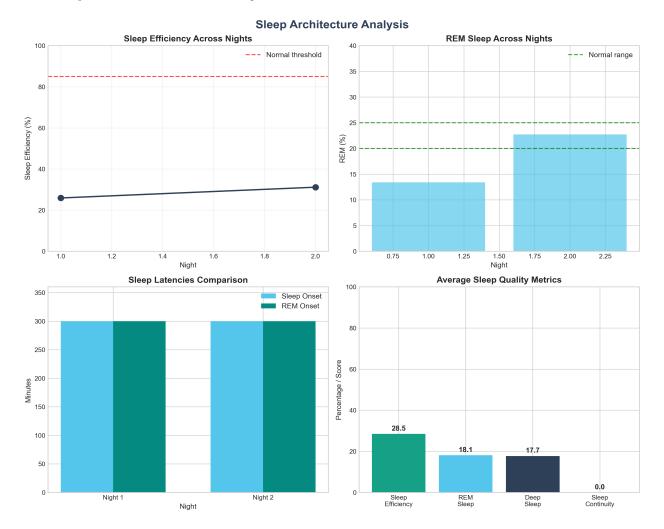
Subject ID	41
Age	66 years
Sex	F
Study Type	Healthy Controls
Number of Nights	2
Recording Dates	Multiple nights

Executive Summary

This report presents a comprehensive analysis of 2 night polysomnographic recordings for Subject 41, a 66-year-old F participant from the Sleep Cassette (healthy controls) study under nan condition.

Metric	Value	Clinical Interpretation
Sleep Efficiency	28.5%	Below Normal (<85%)
Sleep Latency	424.8 min	Prolonged (>30min)
REM Latency	486.0 min	Atypical
REM Sleep	18.1%	Atypical
Wake After Sleep Onset	537.8 min	Elevated (>30min)

Sleep Architecture Analysis

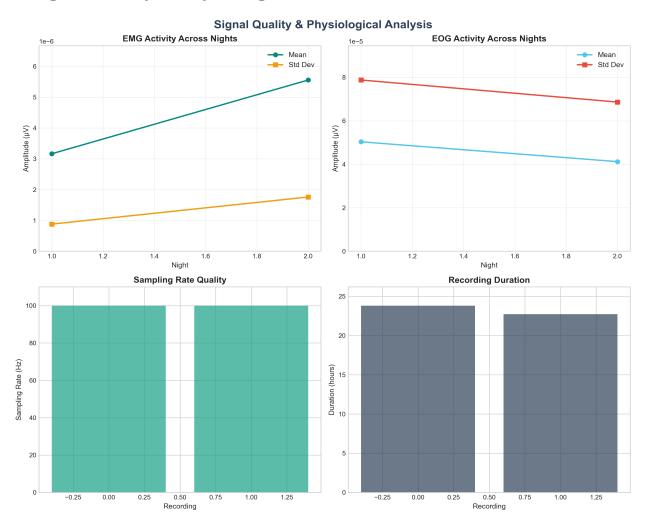


Neurophysiological Analysis - EEG Power Spectrum

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

Sleep Difficulty

Healthy Controls

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: 28.5% (Below normal)

REM Sleep: 18.1% (Atypical)Deep Sleep: 17.7% (Adequate)

• Sleep Continuity: Fragmented (WASO: 537.8 min)

Key Findings

- **Reduced Sleep Efficiency**: At 28.5%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Reduced REM Sleep**: REM sleep comprises 18.1% of total sleep, which is below the normal range of 20-25%.
- Adequate Deep Sleep: Deep sleep stages comprise 17.7% 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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Report Version: 1.0 | Generated: August 16, 2025 at 08:59 PM