

# Individual Sleep Analysis Report

Subject ID: 48 | Healthy Control Study

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

## Subject Information

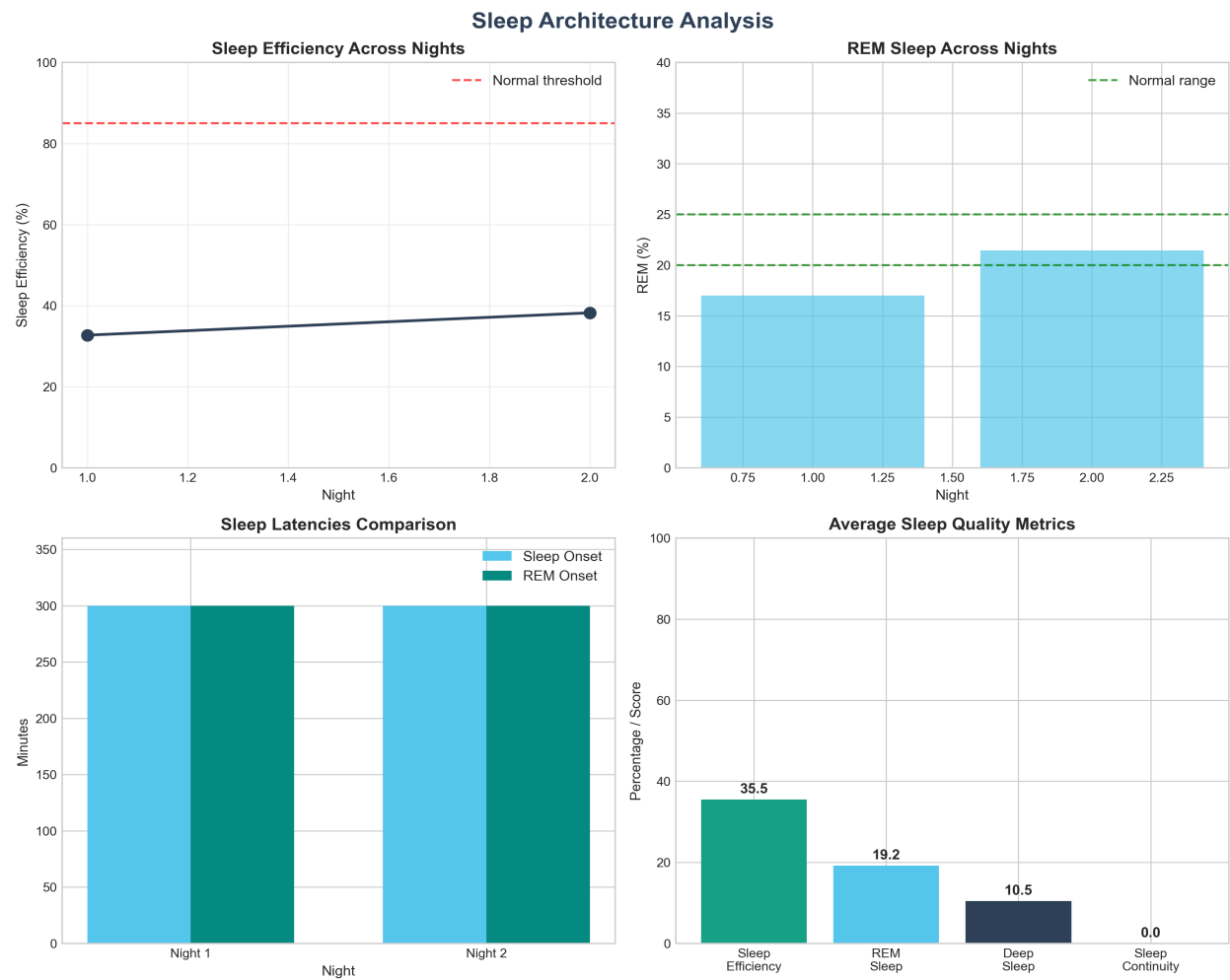
Subject ID	48
Age	67 years
Sex	F
Study Type	Healthy Controls
Number of Nights	2
Recording Dates	Multiple nights

## Executive Summary

This report presents a comprehensive analysis of 2 night polysomnographic recordings for Subject 48, a 67-year-old F participant from the Sleep Cassette (healthy controls) study under nan condition.

Metric	Value	Clinical Interpretation
Sleep Efficiency	35.5%	Below Normal (<85%)
Sleep Latency	470.8 min	Prolonged (>30min)
REM Latency	569.2 min	Atypical
REM Sleep	19.2%	Atypical
Wake After Sleep Onset	458.5 min	Elevated (>30min)

# Sleep Architecture Analysis

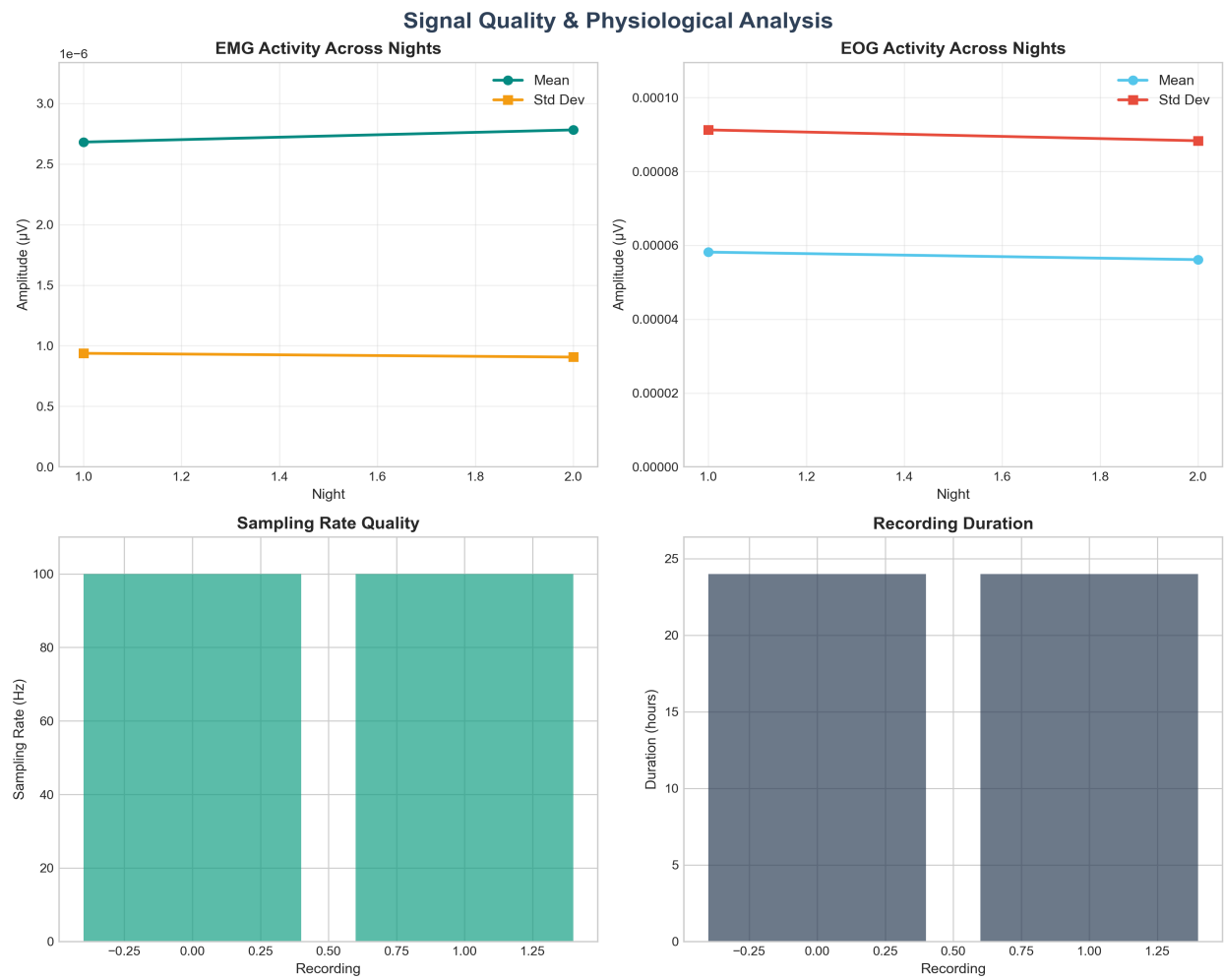


# Neurophysiological Analysis - EEG Power Spectrum

# EEG Power Spectral Analysis

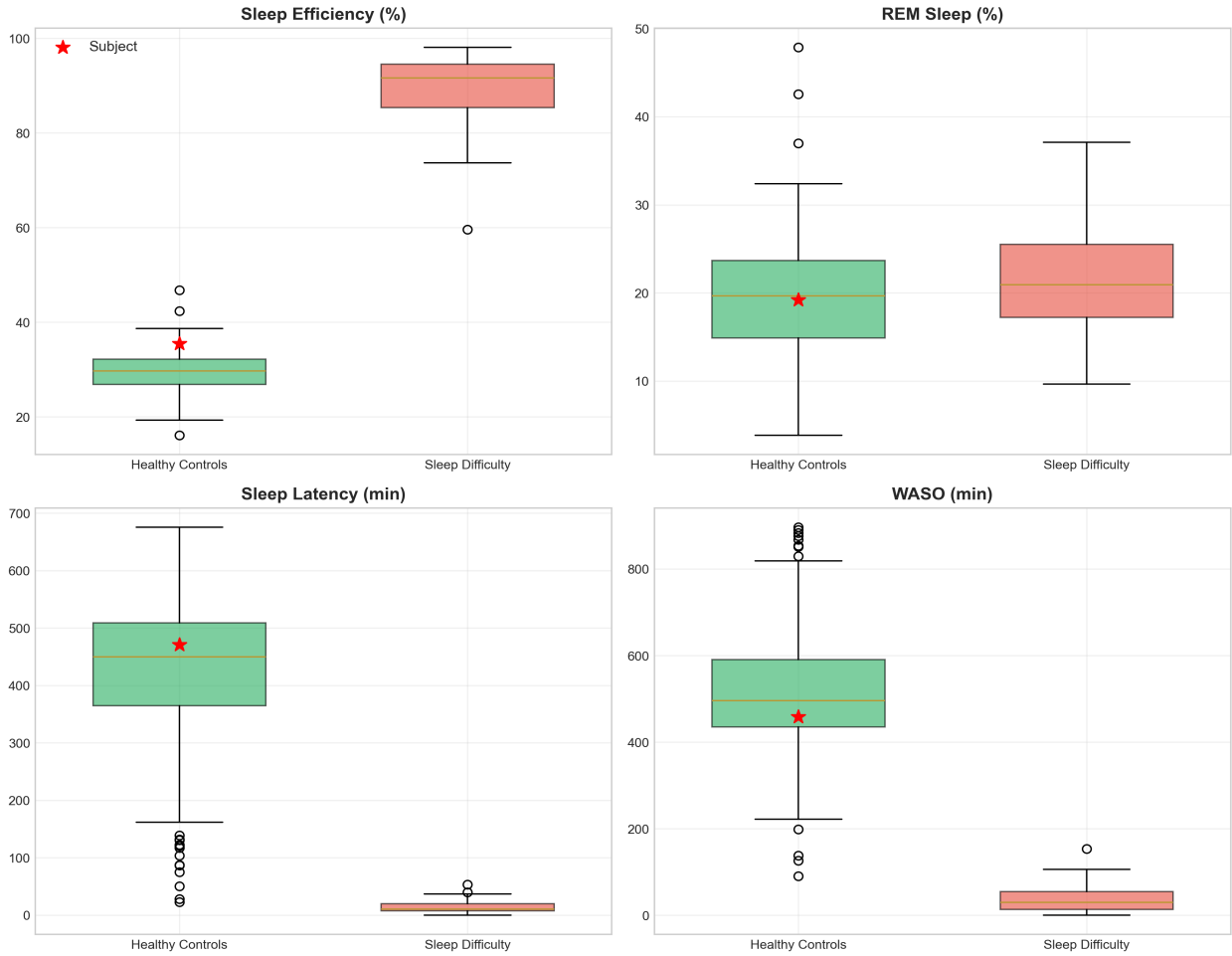


# Signal Quality & Physiological Assessment



## Population Comparative Analysis

Comparative Population Analysis



# 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: 35.5% (Below normal)
- REM Sleep: 19.2% (Atypical)
- Deep Sleep: 10.5% (Reduced)
- Sleep Continuity: Fragmented (WASO: 458.5 min)

## Key Findings

- **Reduced Sleep Efficiency:** At 35.5%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Reduced REM Sleep:** REM sleep comprises 19.2% of total sleep, which is below the normal range of 20-25%.
- **Reduced Deep Sleep:** Deep sleep stages (N3+N4) comprise 10.5% of sleep, which may indicate reduced sleep restoration.

## Recommendations

- Consider sleep hygiene counseling and evaluation of factors affecting sleep quality
- Evaluate for potential REM sleep disorders or medications affecting REM sleep
- 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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