

# Individual Sleep Analysis Report

Subject ID: 59 | Healthy Control Study

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

## Subject Information

Subject ID	59
Age	67 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 59, a 67-year-old M participant from the Sleep Cassette (healthy controls) study under nan condition.

Metric	Value	Clinical Interpretation
Sleep Efficiency	29.6%	Below Normal (<85%)
Sleep Latency	460.2 min	Prolonged (>30min)
REM Latency	545.8 min	Atypical
REM Sleep	23.9%	Normal (20-25%)
Wake After Sleep Onset	328.5 min	Elevated (>30min)

# Sleep Architecture Analysis

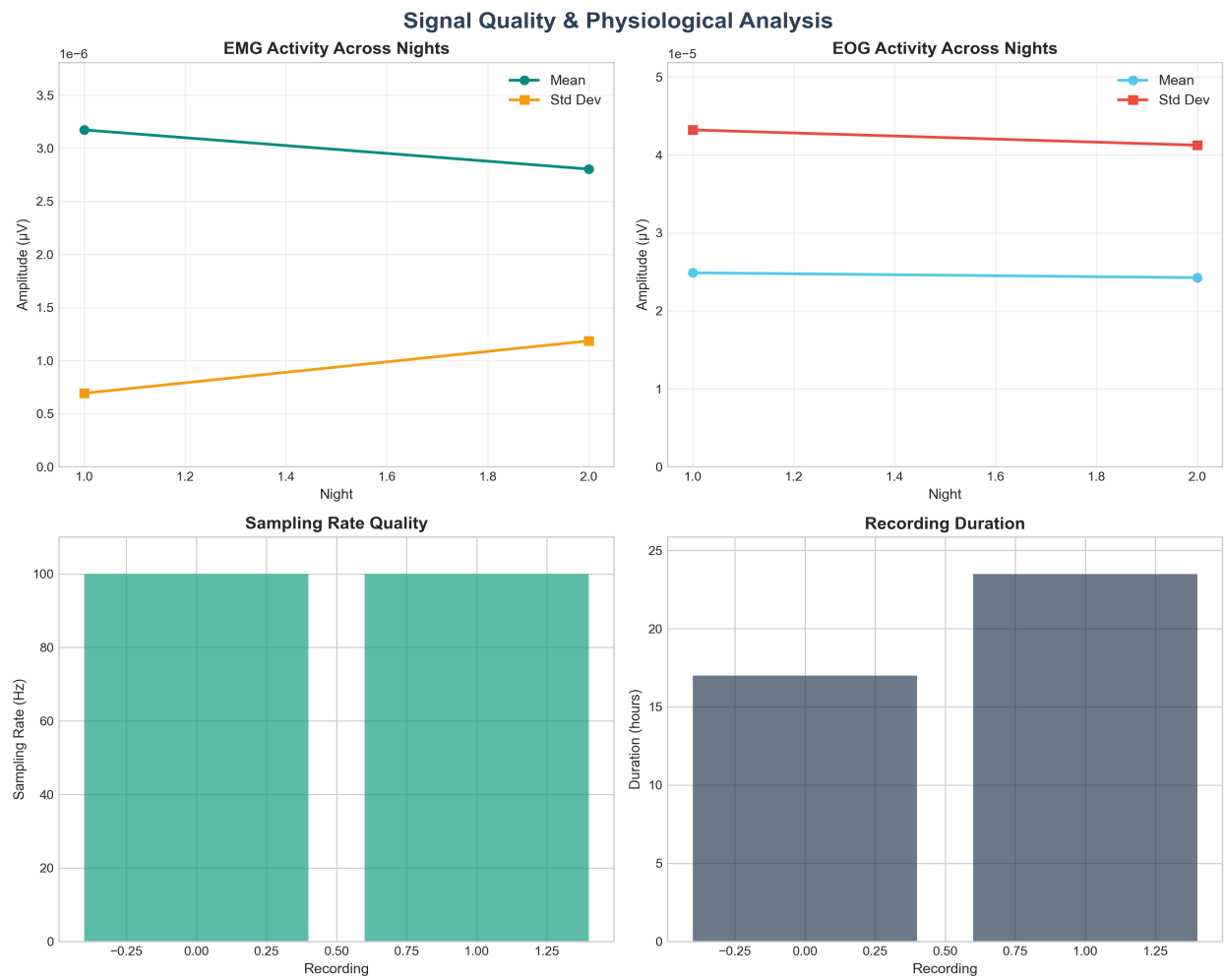


# Neurophysiological Analysis - EEG Power Spectrum

EEG Power Spectral Analysis

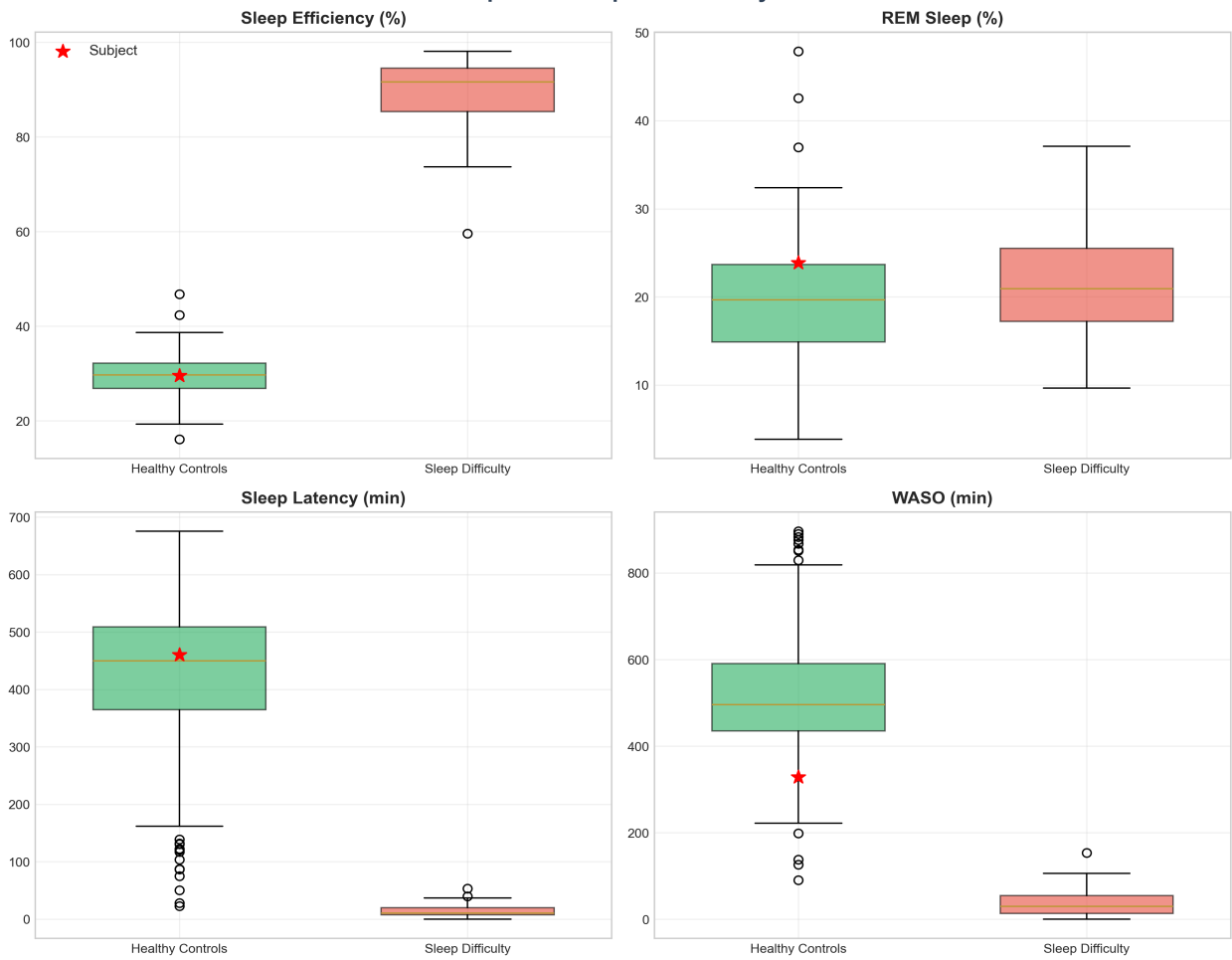


# Signal Quality & Physiological Assessment



## 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: 29.6% (Below normal)
- REM Sleep: 23.9% (Normal)
- Deep Sleep: 15.0% (Reduced)
- Sleep Continuity: Fragmented (WASO: 328.5 min)

### Key Findings

- **Reduced Sleep Efficiency:** At 29.6%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Normal REM Sleep:** REM sleep comprises 23.9% of total sleep, which is within the normal range.
- **Reduced Deep Sleep:** Deep sleep stages (N3+N4) comprise 15.0% 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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