# **Individual Sleep Analysis Report**

## Subject ID: 76 | Healthy Control Study

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

### **Subject Information**

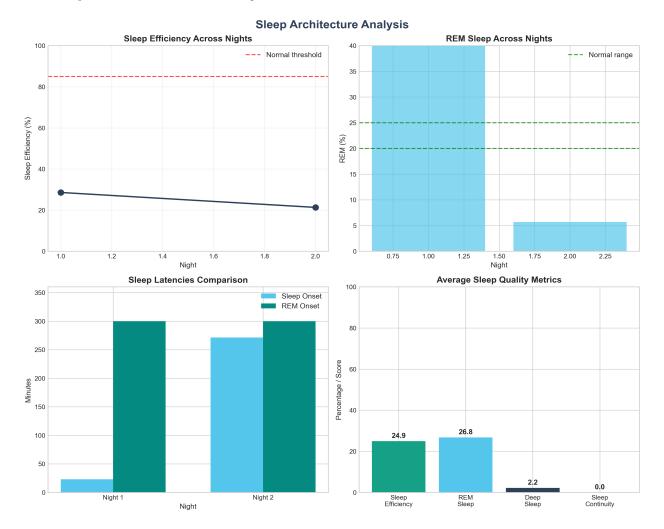
Subject ID	76
Age	90 years
Sex	M
Study Type	Healthy Controls
Number of Nights	2
Recording Dates	Multiple nights

### **Executive Summary**

This report presents a comprehensive analysis of 2 night polysomnographic recordings for Subject 76, a 90-year-old M participant from the Sleep Cassette (healthy controls) study under nan condition.

Metric	Value	Clinical Interpretation
Sleep Efficiency	24.9%	Below Normal (<85%)
Sleep Latency	147.2 min	Prolonged (>30min)
REM Latency	734.5 min	Atypical
REM Sleep	26.8%	Atypical
Wake After Sleep Onset	811.5 min	Elevated (>30min)

## **Sleep Architecture Analysis**

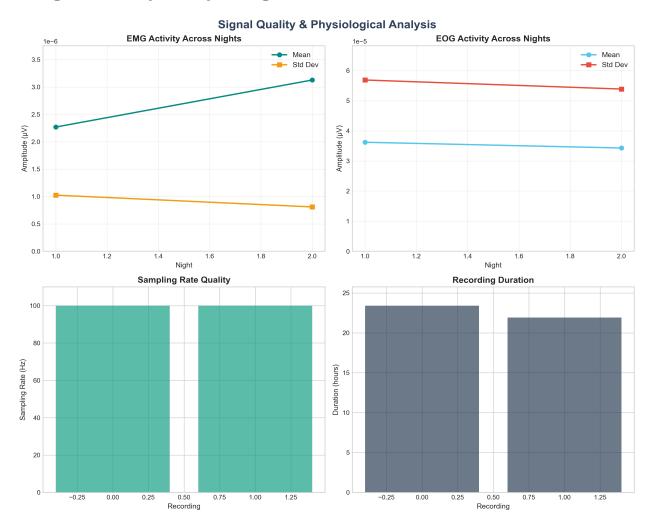


Neurophysiological Analysis - EEG Power Spectrum

#### **EEG Power Spectral Analysis**



## **Signal Quality & Physiological Assessment**



**Population Comparative Analysis** 

#### **Comparative Population Analysis** 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: 24.9% (Below normal)

REM Sleep: 26.8% (Atypical)Deep Sleep: 2.2% (Reduced)

• Sleep Continuity: Fragmented (WASO: 811.5 min)

#### **Key Findings**

- **Reduced Sleep Efficiency**: At 24.9%, sleep efficiency is below the normal threshold of 85%, indicating potential sleep quality issues.
- **Elevated REM Sleep**: REM sleep comprises 26.8% of total sleep, which is above the typical range of 20-25%.
- **Reduced Deep Sleep**: Deep sleep stages (N3+N4) comprise 2.2% 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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