

Sleep Profiler™

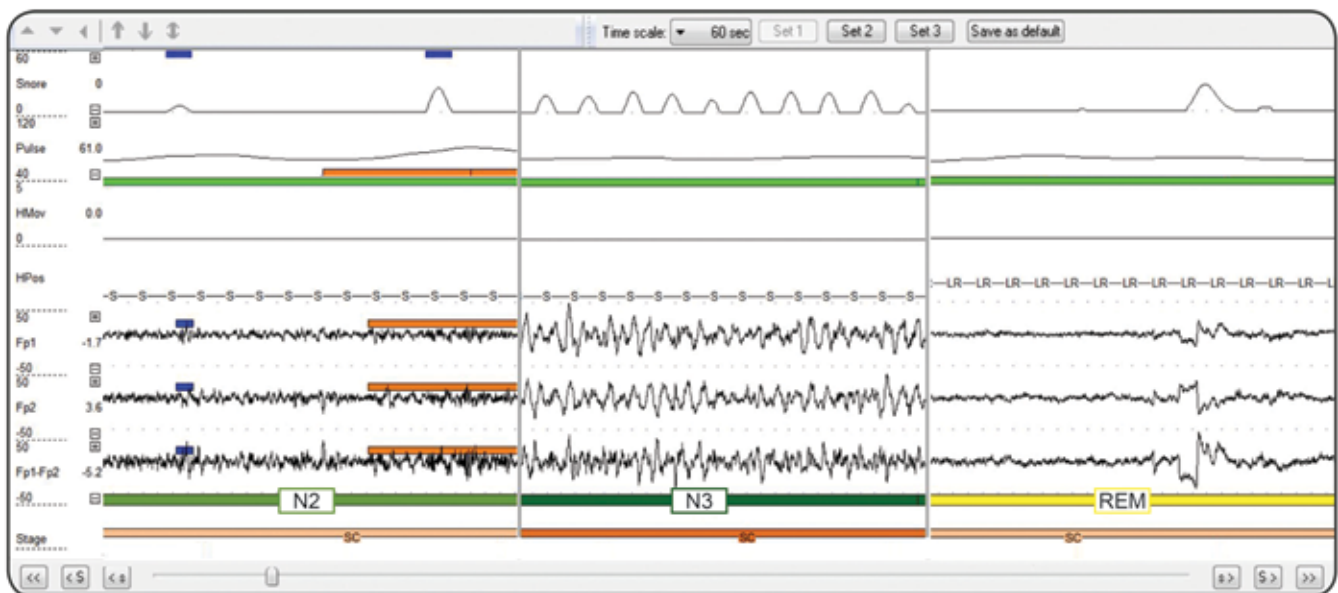
Night-to-night comparisons of sleep quality using validated algorithms to assist the physician with editing and interpretation

- Electroencephalography (EEG)
- Electrooculography (EOG)
- Electromyography (EMG)
- Electrocardiography (ECG)
- Pulse rate
- Quantitative Snoring
- Head movement & position
- Voice alerts to manage signal quality



Key sleep parameters are provided via web-based editing and report generation:

- Total time and percentage sleep, REM, and SWS
- Sleep, REM, and SWS latency
- Sleep efficiency
- Total and average hourly number of cortical, sympathetic, and behavioral arousals
- Frequency and intensity of snoring



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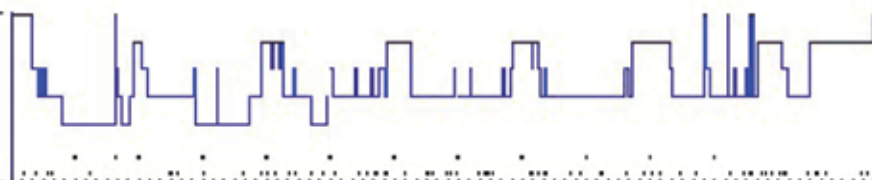
Sample Sleep Profiler Report

Sleep Profiler Sleep Study Report

Patient Name	SAMPLE PATIENT			Study Date	05/10/2012
Record time (hr)	6.8	Sleep time (hr)	6.5	Sleep Efficiency (%)	96
Latencies	Min	Valid Sleep Time	%	Sleep Cycles	No.
Sleep Onset	10	Stage R	24.6	Number cycles	6
Stage R	48	Stage N3	15.6	Average cycle (min)	58.7
Stage N3	14	Stage N2	52.1	Predicted OSA risk	High
Awake	14.5	Stage N1	7.7	Predicted OSA severity	Moderate

Sleep Staging

Wake
REM
N1
N2
N3
Sleep
Exclude
Arousals



Time(hr)

Record 6.8
Sleep 6.5
% Eff. 96
Exclude 0
Arousal/hr 10.6

Pulse Rate

Pulse
BPM



Mean 72
Min 53
Max 109
Arousal/hr 31.1

Snoring Level

Snoring Level
dB



% >30dB 18.9
% >40dB 8.6
% >50dB 2.5

Head Position

Supine
Left
Right
Prone
Upright



Supine
Time(hr) 3.1
% time 48.2
Arousal/hr 15.3

Medical History

Age	48	High Blood Pressure	Yes	Snoring Frequency	Rarely
Gender	Female	Diabetes	No	Wake up choking	Never
Height (in)	64	Sleep Apnea	No	Told stopped breathing	Never
Weight (lb)	159	Insomnia	Yes	Falling or staying asleep	Sometimes
Body mass index	27	Restless leg syndrome	No	Hard keeping legs still	Rarely
Neck size (in)	15.7	Narcolepsy	No	Nightmares	Sometimes
Epworth score	12	PTSD/TBI	No	Night sweats/hot flashes	Yes
Heart Disease	No	Depression	No	A.M. headaches	Yes
Stroke	No	Rx Pain medication	No	Sleeping pills	Yes

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