## **PSG DIAGNOSTIC REPORT**

### Acronym definitions

Reports in Alice software use sleep medicine terminology. Below is a list of items and explanations:

**AHI** – **A**pnea **H**ypopnea Index, total of all scored apnea and hypopnea divided by the total hours of sleep, or total sleep time (TST, see below) expressed as events per hour

**RDI** – **R**espiratory **D**isturbance Index, total of all apneas, hypopneas, and Respiratory Effort Related Arousals (RERA, see below) divided by the total hours of sleep, or total sleep time (TST, see below) expressed as events per hour

**RERA** – **R**espiratory **E**ffort **R**elated **A**rousals, when there are 10 seconds or more of increased breathing effort, or flattening of the pressure flow waveform leading to arousal from sleep

**TST** – **T**otal **S**leep **T**ime, total of time in stage N1, N2, N3, and REM sleep

**TRT** – **T**otal **R**ecording **T**ime, time from lights out to lights on (also TIB)

**TIB** – **T**ime In **B**ed, time from lights out to lights on (also TRT)

**WASO** – Wake After Sleep Onset, total time a patient is awake after falling asleep and before the final awakening.

# G3 report, page 1, upper tables

The standard Polysomnography Report from Sleepware G3 provides the statistics calculated from the scoring of the test, whether manual or auto scored. First, the patient information, along with the testing times, referring and interpreting physicians and a description of the test performed.

	Polysomnography Report								
Recording Ident	ification								
Patient name: First name: Sex: Birth date: Patient age: Height: BMI: Neck: Recording Tech: CPT Code:	Patient Sample Male 1/20/1944 67 years 70.0 in. 35.9 lb/in <sup>2</sup> 18 in. Recording Tech 95810	Acq #: Type: Started: Stopped: Duration: Weight: Epworth: Referring physician: Interpreting physician: Scoring Tech: CPT Code Description:	20005 Adult 5/11/2011 at 9:18:55 PM 5/12/2011 at 4:19:19 AM 7:00:24 hours (420.4 min) 250.0 lbs. 17 / 24 Referring, Physician Interpreting, Physician Scoring Tech Attended Polysomnography 4 or more channels						
Dynamic									

#### Procedure

Polysomnography was conducted on the night of 5/11/2011. The following parameters were monitored: frontal, central and occipital EEG, electrooculogram (EOG), submentalis EMG, nasal and oral airflow, anterior tibialis EMG, body position and electrocardiogram. Additionally, thoracic and abdominal movements were recorded by inductance plethysmography. Oxygen saturation (SpO2) was monitored using a pulse oximeter. The tracing was scored using 30 second epochs. Hypopneas were scored per AASM definition VIII.4.B (3% desaturation).

## G3 report, page 1, lower tables

The next section shows the stages of sleep, time to stages from lights out, duration of each stage, sleep efficiency and distribution of sleep for this test.

Sleep Data						
LIGHTS OFF (LC	D) : 9:40:25	PM		LIGHTS ON (LON) : 4:11:	:13 AM	
LATENCIES	Fr	om Lights Off	(min)			
Sleep Onset N1 : N2 :	9.0	) min ) min .0 min				
N3 : REM :	34	.5 min .5 min				
DURATIONS Time in Bed: Sleep Period Tin Total Sleep Tim SWS Time: REM Time: NREM Time:	39 ne: 36 44 73 22	0.8 min 1.5 min 5.5 min .5 min .0 min 2.5 min		Sleep Efficiency: WASO: TWK Time (tot): Inter-Sleep WK: Stage Shifts:	75.6% 86.3 min 95.3 min 18.3% 91	
Sleep Stag	e Distrib	ution				
WK (SPT): WK (TIB) : REM: N1 : N2 :	Episodes (# of) 18 20 11 20 23 17	Duration (min) 66.0 95.3 73.0 96.5 81.5 44.5	<b>TIB</b> (%) 24.4 18.7 24.7 20.9 11.4	TST (%) 24.7 32.7 27.6 15.1		

#### G3 report, page 2, upper tables

On the second page begins the tabulation of the scoring results from the respiratory channels.

Calculations of the numbers of each event type, lengths of events, totals, and association with REM NREM stages.

Respiratory Da	ta							
	CA	OA	MA	Apnea	Hypop*	A+ H	RERA	Total
Number:	0	3	0	3	58	61	0	61
Mean Dur : (sec)	0.0	15.2	0.0	15.2	15.3	15.3	0.0	15.3
Max Dur (sec):	0.0	17.0	0.0	17.0	20.5	20.5	0.0	20.5
Total Dur (min) :	0.0	0.8	0.0	0.8	14.8	15.5	0.0	15.5
% of TST:	0.0	0.3	0.0	0.3	5.0	5.3	0.0	5.3
ndex (#/h TST) :	0.0	0.6	0.0	0.6	11.8	12.4	0.0	12.4
REM Count:	0	0	0	0	9	9	0	9
NREM Count:	0	3	0	3	49	52	0	52
REM Index (#/h):	0.0	0.0	0.0	0.0	7.4	7.4	0.0	7.4
NREM Index (#/h):	0.0	0.8	0.0	0.8	13.2	14.0	0.0	14.0
*/	Above Index V	alues Based on 1	Total Sleep Tim	e 🔳 Hypopneas so	cored based on 3	% or greater d	esaturation	

#### G3 report, page 2, lower tables

Next is the oximetry report summary, followed by the snoring summary. These tables and graphs on page 2 provide a look at the level of possible sleep disordered breathing recorded during this test.

Average SpO2 (TST):	95.50%		tal Sleep Time 90 - 10	294.20 min	
Average SpO2 (TIB):	96%		rcent Sleep Time 90 -	99.56%	
# Desaturations: Desaturation Index:	2 0.3 /hr		tal Sleep Time 80 - 89		1.30 min
Desaturation Index: Min SpO2 Value During TIB:	0.5 /nr 85%		rcent Sleep Time 80 - tal Sleep Time <88%:	0.44% 0.30 min	
Min SpO2 value During TST:	85%		rcent Sleep Time <88 rcent Sleep Time <88		
Dximetry Evolution					
SpO2,% WWStage	R	N1 R W	W	IRIRI	R W W
W W5tage	R W N2	N1 R W			R W W
	R W 11 PM	N1 R W N2 12 AM 1 A	W M 2AM	JIR I R J J AM	R W W 4 AM
97 WStage W WStage N1 N2 N3 9:40:25 PM	NZ	NZ	W M 2AM	JIR IR JAM	R W W 4 AM
9:40:25 PM Snoring Episodes:	11 PM	12 AM 1 A	M 2AM	3 AM	R W W 4 AM
9:40:25 PM	11 PM 7 1.42 /hr o	12 AM 1 A	M 2AM	3 AM	R W W 4 AM

#### G3 report, page 3, upper tables

#### The third page starts with the movement, arousal, and position summaries.

Patient, Sample Study Date: 5/11/2	011										Page 3	
Leg Movem	ents Su	mmary	1									
Total Leg Mover PLMS: PLMS Arousals:			<b>Cou</b> 12 8 0	int	Ind 2.0 1.3 N/A							
Arousal Su					1907							
Alousalou	REM		NRE	M	Aro	usals	Awa	kenings	Ar +	Aw	Ar + A	w Index
Respiratory:	1		1		2	doulo	0	literinge	2		0.3	
Leg Movements	: 0		0		0		0		0		0.0	
Snore:	0		0		0		0		0		0.0	
Spontaneous:	1		1		3		0		3		0.5	
Total:	2		2		5		0		5		0.8	
Arousal Index: Events occurring duri	1.6 ng Wake are n	ot included i	0.5 n the table a	bove.**	0.8		0.0		0.8			
Body Positi	-											
	Sleep (min)	TST (%)	REM (min)	NREM (min)	CA (#)	OA (#)	MA (#)	HYP (#)	AHI (#/h)	RERA (#)	RDI (#/h)	Desat (#)
Supine	19.4	6.57	0.0	19.4	0	0	0	8	12.7	0	12.7	0
Non-Supine	276.10	93.43	73.00	203.10	0.00	3.00	0.00	53.00	12.17	0	12.17	2.00
Left:	205.7	69.61	52.5	153.2	0	0	0	26	6.2	0	6.2	2
Right:	70.4	23.82	20.5	49.9	0	3	0	27	25.6	0	25.6	0

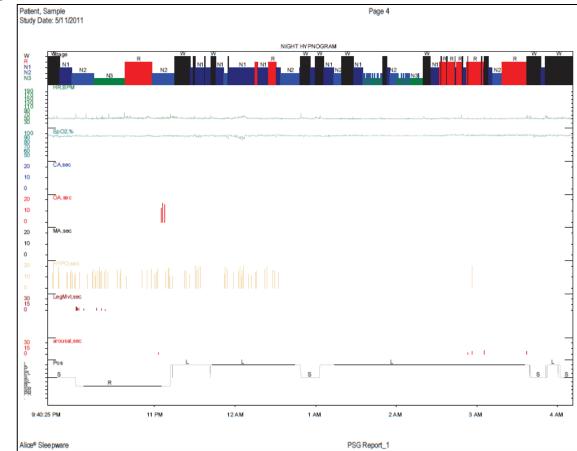
#### G3 report, page 3, lower tables

The last table is the Cardiac Summary and Cardiac Event Observations. The event observations are from the scored cardiac events noted during scoring of the test.

Cardiac Summary						
Average Pulse Rate During Sleep (T	ST):		92 bpm			
Highest Pulse Rate During Sleep (TST):			101 bpm			
Highest Pulse Rate During Recordin	· ·		112 bpm			
Cardiac Event Observatio	ns					
Туре	Yes	No	Rate / Duration			
Bradycardia:	~		Lowest HR Scored: 49 bpm			
Unclassified Tachycardia:	~		Highest HR Scored: 51 bpm			
Sinus Tachycardia During Sleep:		~	Highest HR Scored: N/A			
Narrow Complex Tachycardia:	~		Highest HR Scored: 50 bpm			
Wide Complex Tachycardia:	✓		Highest HR Scored: 52 bpm			
Asystole:		✓	Longest Pause: N/A			
Atrial Fibrillation:	1		Duration Longest Event: 8.5 sec			

#### G3 report, page 4, hypnograms

This last page contains a hypnogram showing the stages of sleep, heart rate, oxygen saturation, each type of breathing event with duration, limb movements, arousals, and body positions. All displayed by time of occurrence. Altogether this report shows the basics to allow the interpreting physician to understand the results and use this information to make an accurate diagnosis.



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