

## Apnea Analysis

Name: A. PATIENT  
Birth Date: 07/12/1944  
Age: 66 years old  
Sex: male  
Referred By: A. DOCTOR, MD

Height: 5' 8 "  
Weight: 225lb  
BMI: 34  
Neck Circ.: 44 cm  
Test Date: 02/13/2011

**History:** Observed Apnea, chronic snoring, reports being sleepy during the day

**Comment:**

Total recording time 442 Min.

Analyzed sleep time 398 Min.

**Apnea Data:**

Total Number of Hypopneas (4%):	38	Total Number of Hypopneas:	110
Total Number of Apneas (obs & cen):	127	Average Hypopnea (sec):	18
Average Apnea (sec):	29	Hypopnea Index:	16.6
Apnea Index (obs & cen):	19.1	Central Apnea Index:	1.1
Total Number of Central Apneas:	7		
Apnea Max Dens. Index (>10 Min):	42.4	RDI(AHI) Max Dens. Index (>10 Min):	90.8
RDI (AHI) 4%	24.9	<b>RDI(AHI):</b>	<b>35.7</b>

**APNEA ANALYSIS SUMMARY:**

During the recording period the following was identified:

- Total of 127 apneas (7 of which were Central) and 110 hypopneas were identified.
- The Apnea Index (central and obstructive apnea) was 19.1 per hour.
- The RDI (AHI) was 35.7 per hour. The Central Apnea Index was 1.1 per hour.

**Note:** During some portions of the recording (for a period >10 Min) the Apnea Index was elevated up to 42.4 and the RDI(AHI) was elevated up to 90.8.

If CPAP therapy is considered appropriate, the predicted initial pressure is 8 cm H<sub>2</sub>O (after Miljeteig and Hoffstein).

**INTERPRETATION:**

There was evidence of severe sleep apnea



## Snoring Analysis

Name: A. PATIENT  
Birth Date: 07/12/1944  
Age: 66 years old  
Sex: male  
Referred By: A. DOCTOR, MD

Test 4 Height: 5' 8 "  
Weight: 225lb  
BMI: 34  
Neck Circ.: 44 cm  
Test Date: 02/13/2011

**Comment:** Observed Apnea.

### Snoring Data:

Snoring Index: 426  
Primary Vibration Frequency: 58 Hz  
Palatal like Vibration Frequency (type1 2): 49 Hz

### Overall Snoring Loudness:

Max Relative Loudness: 21dB (Marked degree)  
Average Relative Loudness: 12 dB (Marked degree)

### Snoring Distribution by Type:

Type 1:	101	95 %
Type 2:	1	1 %
Type 3:	1	1 %
Type 4:	0	0 %
Type WL:	3	3 %

### Snoring Distribution by Loudness:

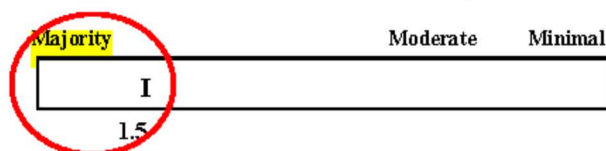
Ampl.Dist.Index(RESP85%): 21dB (Marked)  
Ampl.Dist.Index(34W85%): 21dB (Marked)  
Resistance Occurrence Percentage 65 %  
(% of respiratory events with 1-4 or WL Type sound)

### SNORING ANALYSIS SUMMARY:

- The patient snored at a rate of approximately 426 snores per hour.
- The snoring distribution suggests that vibration patterns which are similar to typical palatal snoring patterns (type 1,2), dominated 96 % of the snoring events.
- The maximum relative snoring loudness (increase over respiratory baseline) was measured to be approximately 21dB (Marked degree).
- The average relative snoring loudness (increase over respiratory baseline) was measured to be approximately 12 dB (Marked degree).
- The typical palatal snoring patterns were 21dB louder than all other respiratory sounds, and in particular 21dB louder than the non palatal snoring events.

### INTERPRETATION:

#### Estimated Palatal Component





## Oximetry Analysis

Name: A. PATIENT  
Birth Date: 07/12/1944  
Age: 66 years old  
Sex: male  
Referred By: A. DOCTOR, MD

Test 4 Height: 5' 8 "  
Weight: 225lb  
BMI: 34  
Neck Circ.: 44 cm  
Test Date: 02/13/2011

### History:

Total recorded sleep time (minutes) 442 min

Recorded oximetry time 398 Min

Oximetry Baseline was 98%

### Oximetry Data:

Mean O2: 96 %  
High O2: 98%  
Number of Desaturations: 46  
Lowest O2: 80%

Percent time under 88%: 7 % 28 Min

### SpO2 vs. Percent of Time:

95 - 100:	64%	255 Min
90 - 94:	26 %	103 Min
85 - 89:	5 %	20 Min
80 - 84:	5 %	20 Min
75 - 79:	0 %	0 Min
70 - 74:	0 %	0 Min
Under 70:	0 %	0 Min

Mean Pulse Rate: 85

### OXIMETRY SUMMARY:

During the recording period

- Total of 46 desaturations
- Oxygen level was under 88% for 7% of the time
- Lowest O2 level was 80%