



Azienda Ospedaliera  
**Ospedale Niguarda Ca'Granda**

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**Dipartimento di Scienze Neurologiche**  
**Centro per la Diagnosi e Cura dei Disturbi del Sonno**  
**Centro per la Chirurgia dell'Epilessia e del Parkinson "Claudio Munari"**  
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Milano, lì 20.12.2012

**Nome:** Kruger Giorgio  
**Data di nascita:** 05.03.1945

**Polisonnografia**  
**(monitoraggio cardio respiratorio)**

Esame eseguito durante trattamento con dispositivo BiPAP ASV a pressione EPAPmin:8cmH2O, EPAPmax:10cmH2O, PSmin:6cmH2O, PSmax:10cmH2O.  
Controllo a circa tre mesi dall'inizio della terapia

**Indice Apnea-Ipopnea/ora:** 0.4  
**Indice di Desaturazione/ora:** 0.4  
**SpO2 media:** 92%  
**Min SpO2:** 88%  
**Saturazione < 90%:** 0.8%

L'esame conferma la buona risposta al trattamento ventilatorio.

Si consiglia valutazione clinica tra sei mesi presso il Centro di Medicina del Sonno (per prenotazioni telefonare al numero 0264442421)

Dr Lino Nobili

Ft Andrea Lanza

# Sleep Report

## Ospedale Niguarda "Cà Granda"

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64442868

Total Recording Time: 5 hours 39 minutes ( 339 minutes )  
Lights Off Clock Time: 13/12/2012 0.10  
Lights On Clock Time: 13/12/2012 5.49

## Patient Information

Name:	Kruger, Giorgio	Date of Birth:	05/03/1945
ID:	KrGi.cardio.ft	Age:	67
Address:		Gender:	Male
City:		Height:	1.82 m
Zip Code:		Weight:	92.0 kg
E-Mail:		BMI:	27.8
Phone:	/ 3356046776	Cheyne Stokes Breathing:	No

## Sleep Summary

### Apnea/Hypopnea

Index Time:	319.8	minutes	
Apnea + Hypopnea (A+H):	2		0.4 / h
Supine A+H:	1		6.0 / h
Non-Supine A+H:	1		0.2 / h

### Position

Supine Time:	10.1	minutes	3.1 %
Non-Supine Time:	309.7	minutes	96.9 %
Upright Time:	8.8	minutes	2.8 %
Movement Time:	10.1	minutes	3.2 %

### Oxygen Saturation

Average Oxygen Saturation:	92.0	%	
Oxygen Desaturation Events (OD):	2		0.4 / h

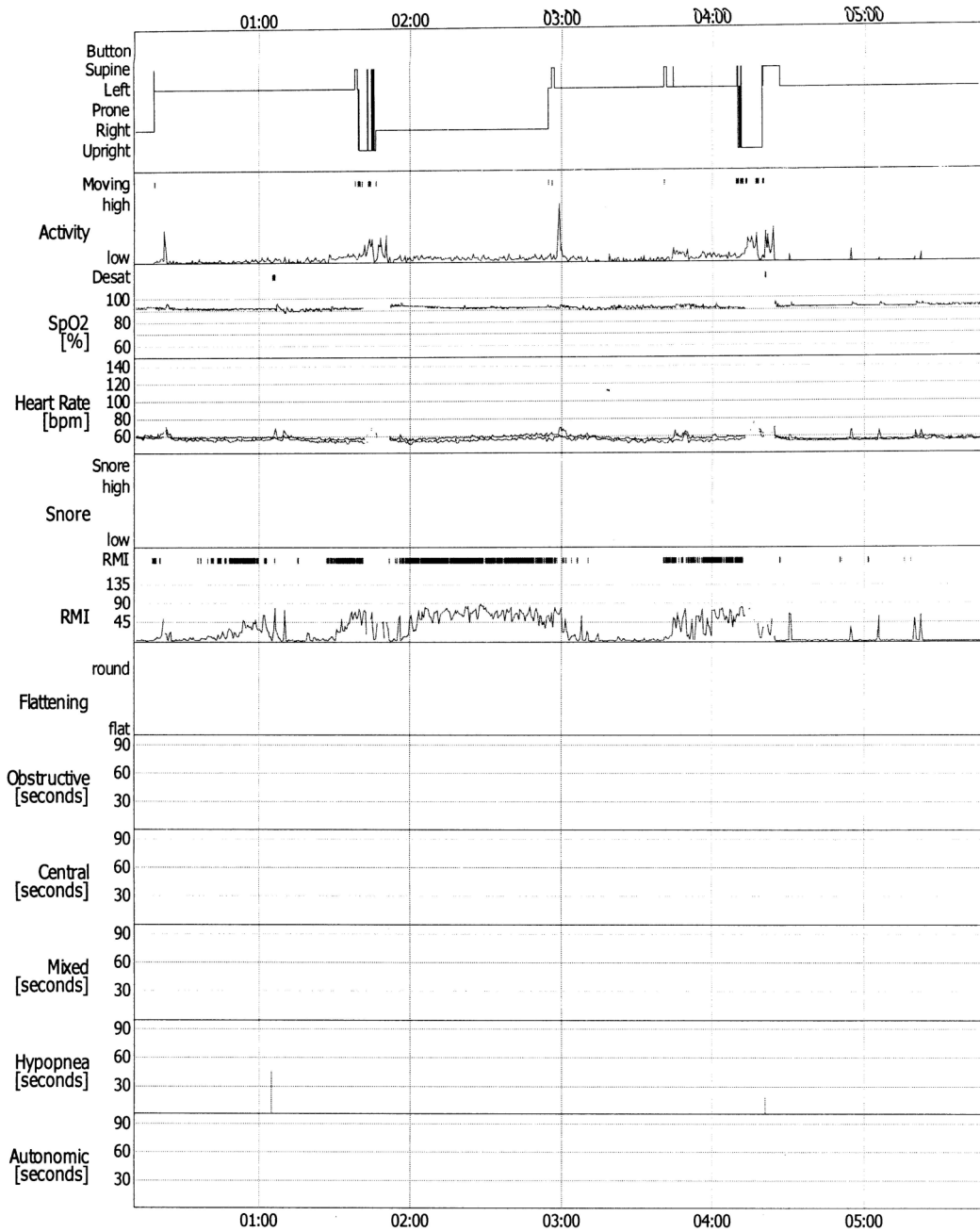
### Snoring

Snore Time:	-	minutes	- %
Number of Snoring Episodes:	-		

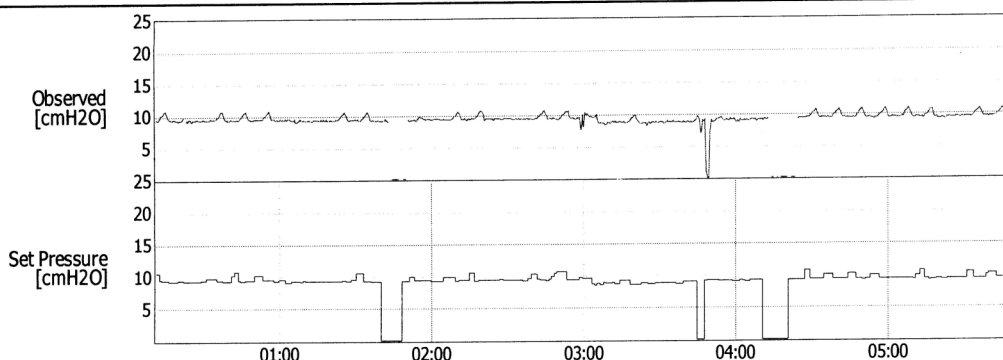
### Plethysmogram

Autonomic Arousal	0		0.0 / h
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## Summary Graph



### CPAP Statistics



Median Pressure: 9.5 cmH2O                      95% Pressure: 10.6 cmH2O  
 Maximum Pressure: 11.0 cmH2O

### Apnea/Hypopnea Statistics

Respiration	Number	%	A or H/h	Supine	Non-Supine	Mean [seconds]	Longest [seconds]
Apnea	0	0.0	0.0	0	0	0.0	0.0
Obstructive	0	0.0	0.0	0	0	0.0	0.0
Central	0	0.0	0.0	0	0	0.0	0.0
Mixed	0	0.0	0.0	0	0	0.0	0.0
Hypopnea (All):	2	100.0	0.4	1	1	31.8	45.7
Obstructive	-	-	-	-	-	-	-
Central	-	-	-	-	-	-	-
Mixed	-	-	-	-	-	-	-
<b>Total</b>	<b>2</b>		<b>0.4</b>	<b>1</b>	<b>1</b>	<b>31.8</b>	<b>45.7</b>

### Apnea-Desaturation Relation

Desaturation	Apnea	Obstructive	Central	Mixed	Hypopnea	Total
>90%	0	0	0	0	1	1
81-90%	0	0	0	0	1	1
71-80%	0	0	0	0	0	0
61-70%	0	0	0	0	0	0
51-60%	0	0	0	0	0	0
<50%	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>

### Breath Statistics

Breath Type	Total	Supine Position	Non-Supine Position
Normal Breath [#]	5949	189	5760
Breath with flow limitation [#]	0	0	0
& no snore [#]	0	0	0
& snore [#]	0	0	0
All Breaths [#]	5949	189	5760
<b>Flow Limitation Index [%]</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Data Source: **XFlow**

### Position Statistics

Position	Index time [minutes]	Relative [%]	Transitions	A+H/h	Autonomic Arousal/h
Supine	10.1	3.1		6.0	0.0
Left	229.2	69.7		0.3	0.0
Prone	0.0	0.0		-	-
Right	80.5	24.5		0.0	0.0
Upright	8.8	2.7		0.0	0.0
Unknown	0.0	0.0		-	-
<b>Total</b>	<b>328.6</b>	<b>100.0</b>	<b>33 (6/h)</b>		<b>0.0</b>

### SpO2 Statistics

Mean Oxygen Saturation:	92.0 %	Saturation < 90%:	2.4 minutes	0.8 %
Lowest Oxygen Saturation:	88.0 %	Saturation < 80%:	-	- %
Average Desaturation:	4.5 %	Saturation < 70%:	-	- %

Range\Position	Supine [minutes]	Cumul. Supine [minutes]	Non-Supine [minutes]	Cumul. Non-Supine [minutes]	Upright [minutes]	Cumul. Upright [minutes]
98-100 %	0.0	7.4	0.0	306.4	0.0	0.0
95-97 %	0.4	7.4	4.6	306.4	0.0	0.0
90-94 %	7.0	7.0	299.3	301.8	0.0	0.0
80-89 %	0.0	0.0	2.4	2.4	0.0	0.0
70-79 %	0.0	0.0	0.0	0.0	0.0	0.0
60-69 %	0.0	0.0	0.0	0.0	0.0	0.0
50-59 %	0.0	0.0	0.0	0.0	0.0	0.0
< 50 %	0.0	0.0	0.0	0.0	0.0	0.0