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Patient Data

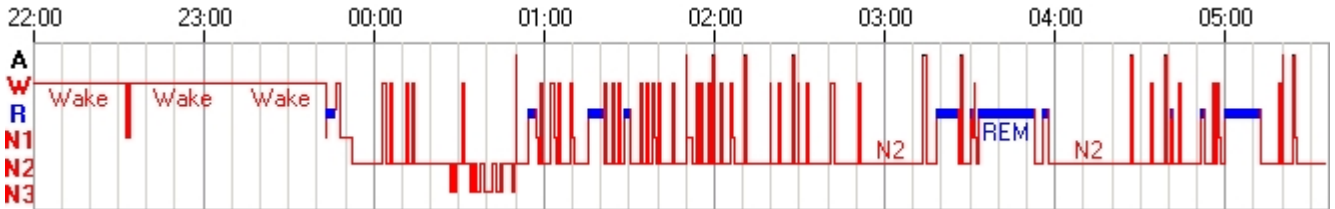
Last Name: SHD PSG	ID:	Height: 182 cm
First Name: AASM	Crit. 1:	Weight: 90,0 kg
Date of Birth: 02.07.1991	Crit. 2:	BMI: 27,2 kg/m²

Montage name: **Diagnostik SHD**

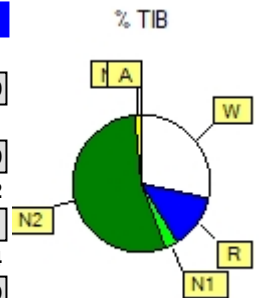
Description:

	from	to	Artefact	Duration
Recorded Time	09.09.2016 21:42:00	10.09.2016 05:37:00		07:55:00
TIB	09.09.2016 22:00:01	10.09.2016 05:35:24	00:00:11	07:35:23

Sleep Stages



		Sleep Stage	Duration	(%) TIB	(%) TST	(%) SPT
Total Sleep Time (TST)	05:23:24					
Sleep Efficiency [%]	71,0					
Sustained Sleep Eff. [%]	76,6	Artefact	00:00:11	0,0	-	0,0
Sleep Latency [m]	33,0	Wake	02:05:47	27,6	-	22,0
Sleep Latency N1 [m]	33,0	REM	01:00:00	13,2	18,6	14,2
Sleep Latency N2 [m]	112,5	N1	00:13:00	2,9	4,0	3,1
Deep Sleep Latency [m]	147,0	N2	04:02:24	53,2	75,0	57,4
REM latency [m]	70,5	N3	00:08:00	1,8	2,5	1,9
Total Sleep Period (SPT)	07:02:24					
Sleep Stage Change (Index)	148 (19,5)					
# Wake (Index)	37 (6,9)	Light Sleep	04:15:24	56,1	79,0	60,5
# Wake > 3 min (Index)	1 (0,2)	Deep Sleep	00:08:00	1,8	2,5	1,9
#Wake respiratory (Index)	-					
Wake duration SPT	01:32:48					
REM Density [%]	12					
WASO	01:32:48					



Respiratory Analysis

	Number (Index)
Obstructive	-
Mixed	-
Central	1 (0,2)
Undef Ap.	-
Total Ap.	1 (0,2)
Hypopnea	125 (23,2)
A+H	126 (23,4)
Limitation	-
RERAs	-
RDI	126 (23,4)

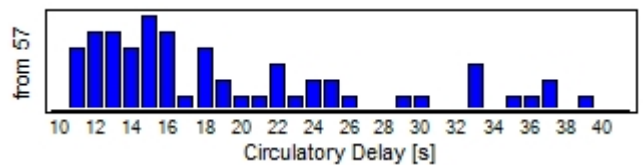
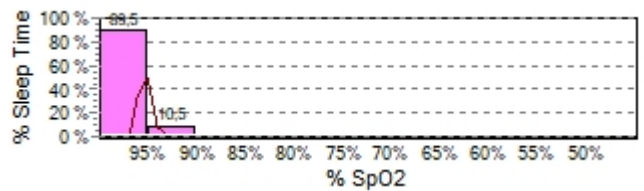
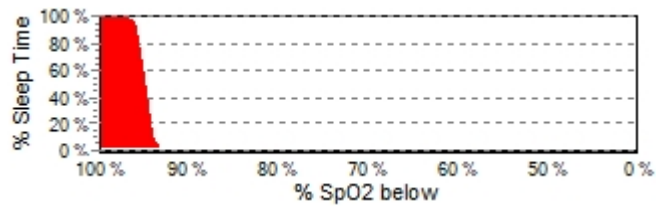
Hypopnea-rules 1: Desaturation 3 %, Ratio 70 %.

	REM	Non-REM	Sleep
Apnea (Index)	1 (1,0)	-	1 (0,2)
Hypopnea (Index)	19 (19,0)	106 (24,1)	125 (23,2)
AHI / RDI [/h]	20,0 / 20,0	24,1 / 24,1	23,4 / 23,4
Flow Limitation (Index)	-	-	-
RERAs (Index)	-	-	-
Max. Apnea Duration [s]	11	-	11
Max. Hypopnea Duration [s]	93	112	112
Average Apnea Dur. [s]	11,0	-	11,0
Average Hypopnea Dur. [s]	32,1	28,2	28,8
Artefact [min]	-	-	-

Position	Supine	not Supine	Left	Right	Prone	Upright
Sleep Time Fraction [%]	63,9	36,1	36,1	-	-	-
RDI	108 (31,4)	18 (9,2)	18 (9,2)	-	-	-
Obstructive Apnea (Index)	-	-	-	-	-	-
Central Apnea (Index)	1 (0,3)	-	-	-	-	-
Mixed Apnea (Index)	-	-	-	-	-	-
Hypopnea (Index)	107 (31,1)	18 (9,2)	18 (9,2)	-	-	-
Flow Limitation (Index)	-	-	-	-	-	-
RERAs (Index)	-	-	-	-	-	-
Number of Desaturations (Index)	57 (16,6)	5 (2,6)	5 (2,6)	-	-	-

O2 Saturation

	Number (Index)	Time
Number of Desaturations	62 (11,5)	
Minimal SpO2 [%]	90	05:05:10
Baseline O2 Saturation	95	
Average SpO2 [%]	95	
Number desaturations < 90 %	-	0,0 %
Number desaturations < 80 %	-	0,0 %
SpO2 Time < 90 %	-	-
Biggest Desaturation [%]	7	05:04:40
Average Desaturation [%]	3,6	34,5 s
Longest Desaturation [s]	118,5	05:24:48
Average Min. Saturation [%]	93	
Deepest Desaturation [%]	90	05:05:10
Sum all desaturation	00:35:38	11,0 %
Average Circulatory delay [s]	19,6	
Artefact [min]	0,0 (0,0%)	



Spindle report

Spindle source: C4:A1

	Wake	Sleep	REM	N1	N2	N2 + N3	Deep Sleep	Total
Number (Index)	116 (55,3)	411 (76,2)	33 (33,0)	6 (27,7)	359 (88,9)	372 (89,1)	13 (97,5)	527 (70,4)
Ø Number/epoch	0,5	0,6	0,3	0,2	0,7	0,7	0,8	0,6
Ø Spindle freq. ±SD [Hz]	13,4 ±0,7	13,5 ±0,6	13,3 ±0,8	12,4 ±0,5	13,6 ±0,6	13,6 ±0,6	13,6 ±0,5	13,5 ±0,6
Ø Duration ±SD [s]	0,6 ±0,18	0,6 ±0,19	0,6 ±0,23	0,6 ±0,14	0,6 ±0,19	0,6 ±0,19	0,6 ±0,22	0,6 ±0,19
Max. Ampl. ±SD [µV]	126 ±71,1	74 ±45,4	76 ±69,7	51 ±18,3	74 ±42,5	74 ±43	80 ±57,6	85 ±56,3

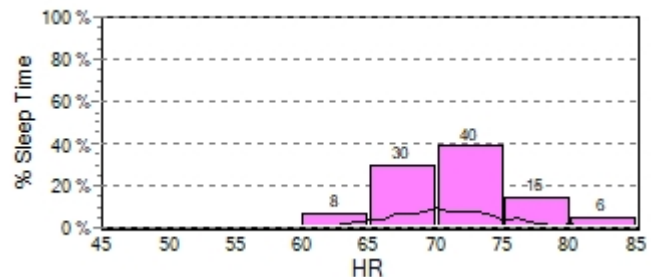
K-Complex report

K-Complex source: C4:A1

	Wake	Sleep	REM	N1	N2	N2 + N3	Deep Sleep	Total
Number (Index)	3 (1,4)	37 (6,9)	-	-	35 (8,7)	37 (8,9)	2 (15,0)	40 (5,3)
Ø Number/epoch	0,0	0,1	-	-	0,1	0,1	0,1	0,0
Slope ±SD [µV/s]	364,4 ±164,	368,1 ±147,	-	-	369,6 ±150,	368,1 ±147,	342,0 ±81,0	367,8 ±146,
Ø Duration ±SD [s]	1,0 ±0,14	1,0 ±0,21	-	-	1,0 ±0,22	1,0 ±0,21	1,0 ±0,17	1,0 ±0,21
Max. Ampl. ±SD [µV]	129 ±13,2	136 ±40,2	-	-	137 ±41,1	136 ±40,2	120 ±15,6	136 ±38,8

Heart Rate

	Number (Index)	Time
Wide complex tachycardia	-	
Narrow complex tachycardia	1 (0,2)	
Asystole (Index)	-	
Longest Asystole [s]	-	-
Maximum HR [bpm]	100	05:12:13
Minimum HR [bpm]	58	00:50:55
Average HR [bpm]	71	
Std. deviation [bpm]	5,4	
Artefact [min]	-	



Periodic Leg Movement (PLM)

	Sleep	REM	Non-REM	Wake	Total
Total LMs (Index)	179 (33,2)	49 (49,0)	130 (29,6)	224 (106,8)	403 (53,8)
Isolated-LMs (Index)	54 (10,0)	20 (20,0)	34 (7,7)	79 (37,7)	133 (17,8)
PLMs (Index)	125 (23,2)	29 (29,0)	96 (21,9)	145 (69,2)	270 (36,1)
Resp-LMs (Index)	49 (9,1)	8 (8,0)	41 (9,3)	39 (18,6)	88 (11,8)
Body Position-LMs (Index)	-	-	-	19 (9,1)	19 (2,5)

PLMs Distribution

Time	Sleep	Wake
09.09 22:00 - 23:00	2 (2,00)	55 (55,02)
23:00 - 00:00	6 (6,00)	71 (71,00)
10.09 00:00 - 01:00	46 (46,00)	4 (4,00)
01:00 - 02:00	35 (35,00)	8 (8,00)
02:00 - 03:00	5 (5,00)	0 (0,00)
03:00 - 04:00	12 (12,00)	2 (2,00)
04:00 - 05:00	0 (0,00)	0 (0,00)
05:00 - 05:35	19 (32,19)	5 (8,47)

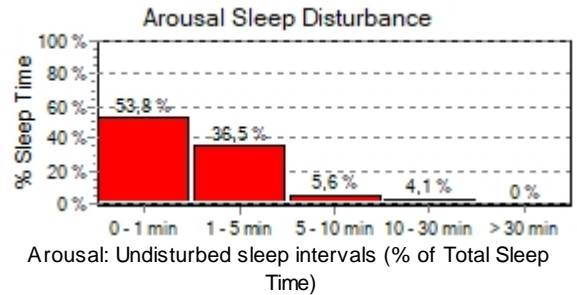
Snore Analysis

	All	Prone	Supine	Left	Right	Upright
Snore (Index)	-	-	-	-	-	-
Absolute Snore [min]	-	-	-	-	-	-
Snore episodic [min]	-	-	-	-	-	-

Snore episodic [% TST] -

Microarousal

	REM	Non-REM	Sleep	%
Total	45 (45,3)	337 (77,5)	382 (71,5)	100
EEG Arousal	33 (33,2)	322 (74,0)	355 (66,4)	92,9
EMG Arousal	12 (12,1)	15 (3,4)	27 (5,1)	7,1
Artefact [min]	0,4	2,5	2,9	0,9



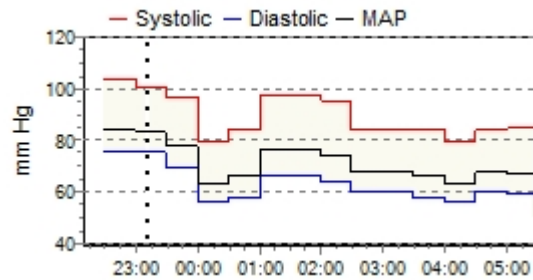
Pulse Transit Time

Inc./Dec. (Index) 427 (80,3)

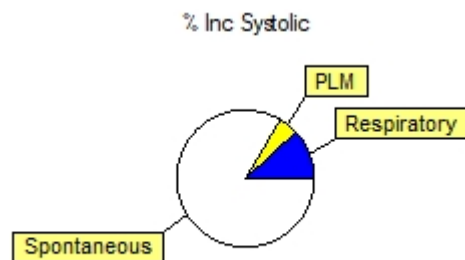
Nocturnal Blood Pressure Fluctuations (NBPF)

	Number (Index)	Time
Inc. (Index)	220 (41,4)	
Maximum Increase [mmHg]	51	00:54:11
Average Increase [mmHg]	15	
Max. Systolic [mmHg]	136	00:54:25
Min. Systolic [mmHg]	66	05:22:43
Average Systolic [mmHg]	88	
Artefact [min]	4,2 (1,3%)	

Def. NBPF: Continuous blood pressure increase higher than 12 mmHg within 3 - 30 seconds.

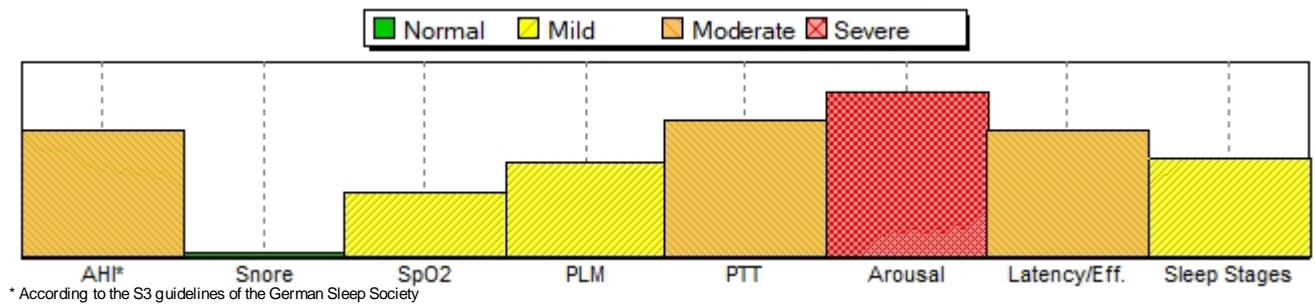


Blood Pressure Inc.	Number (Index)	%
Total	220 (41,4)	100,0
Respiratory Systolic	27 (5,1)	12,3
Flow Limitation	-	-
PLM Systolic	10 (1,9)	4,5
Snore Systolic	-	-
Heart Rate Systolic	-	-
Body Position Systolic	-	-
Spontaneous Systolic	183 (34,4)	83,2
RERAs Systolic	-	-



Position	Supine	not Supine	Left	Right	Prone	Upright
Systolic [mmHg]	92	79	79	-	-	-
Diastolic [mmHg]	64	56	56	-	-	-
MAP [mmHg]	73	64	64	-	-	-

Summary



Case History

Findings

Diagnosis

Comments

