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Patient Data

Last Name: NIBP	ID:	Height: 168 cm
First Name: 25h	Crit. 1	Weight: 62,0 kg
Date of Birth: 03.11.1991	Crit. 2	BMI: 22,0 kg/m²

Description

	from	to	Duration	Recorder
Recorded Time	02.08.2013 15:15:23	03.08.2013 16:15:23	25:00:00	SOMNOtouch NIBP
TIB	03.08.2013 02:22:00	03.08.2013 11:32:29	09:10:29	

Blood pressure Day/Night

Total report

	∅ Min.	Aver.	∅ Max.	SD	> Limit
Syst. [mmHg]	107	130	219	9,2	42,6 %
Diast. [mmHg]	68	87	112	5,3	56,9 %
HR [bpm]	44	79	153	19,4	45,1 %
MAP [mmHg]	81	101	145	6,3	56,8 %
PP [mmHg]	27	43	110	5,6	1,7 %

∅ Min and ∅ Max computed as mean value from 8 values.

No. BP Values: 90897 (90% TRT)

Day/Night Dipping

- Syst. [mmHg] -6,7 % Reverse Dipper
- Diast. [mmHg] -7,8 % Non-Dipper
- HR [bpm] -34,1 % Dipper
- MAP [mmHg] -6,7 % Extreme Dipper
- PP [mmHg] -4,5 %

Classification of BP Levels according to guideline of ESH (WHO)

- optimal
- normal
- high normal
- Grade 1 HT
- Grade 2 HT
- Grade 3 HT

Classification according to the mean blood pressure during day.

Day report

∅ Activity: low

	∅ Min.	Aver.	∅ Max.	SD	> Limit
Syst. [mmHg]	107	134	219	9,5	15,2 %
Diast. [mmHg]	68	90	112	4,7	38,8 %
HR [bpm]	49	88	153	15,3	64,7 %
MAP [mmHg]	81	104	145	5,9	33,5 %
PP [mmHg]	27	44	110	6,4	1,7 %

Limit: Syst=140, Diast=90, HR=80, MAP=105, PP=60

Night report

	∅ Min.	Aver.	∅ Max.	SD	> Limit
Syst. [mmHg]	111	125	152	5,3	89,7 %
Diast. [mmHg]	73	83	99	3,3	88,2 %
HR [bpm]	44	58	105	10,0	11,3 %
MAP [mmHg]	86	97	115	3,8	97,1 %
PP [mmHg]	29	42	59	3,2	1,6 %

Limit: Syst=120, Diast=80, HR=70, MAP=90, PP=50

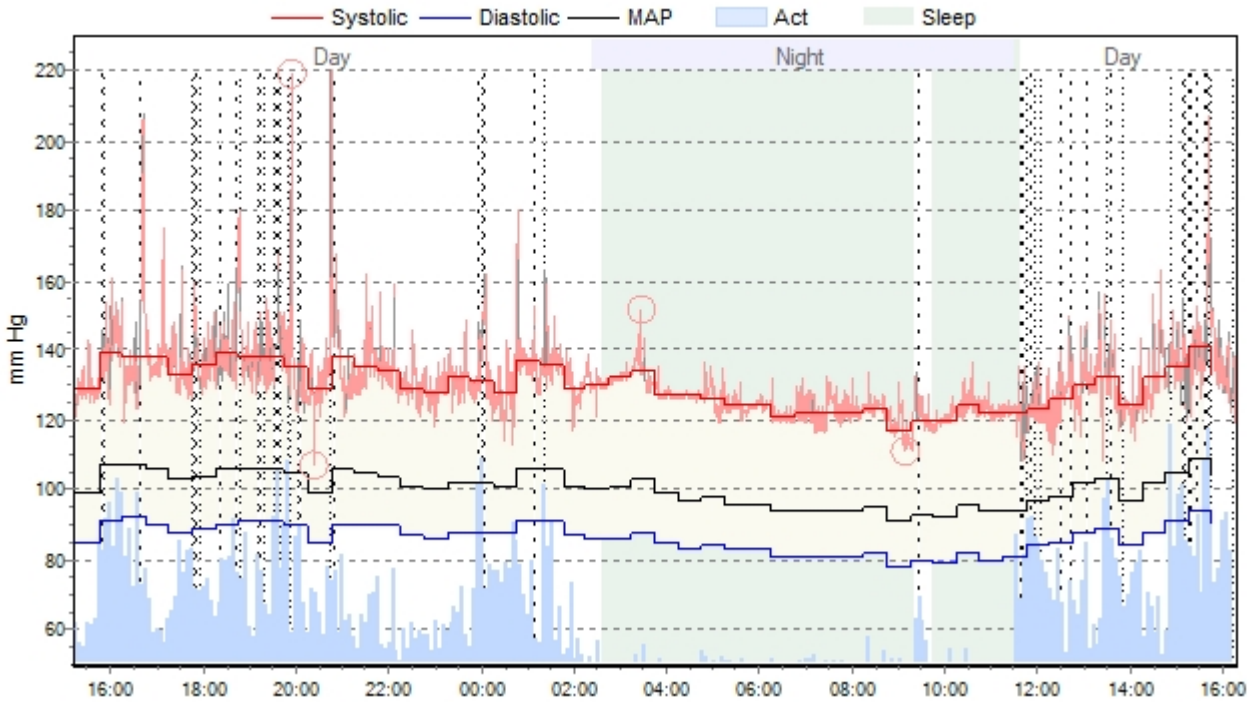
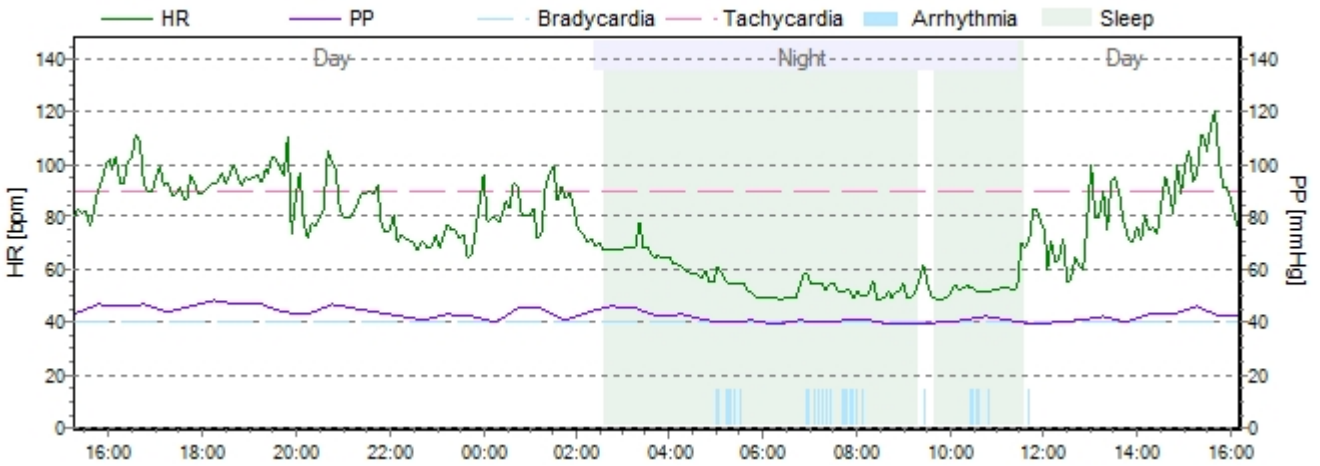


Image generated from means of 30 minutes intervals



Conventional BP recording

No. BP Values: 90897 (90% TRT)

Time	∅ BP [m m Hg]	BP [m m Hg]	∅ HR [bpm]	HR [bpm]	∅ Activity [mg]	Desat.
02.08.2013 15:30:00	130 / 86	127 / 84 (W)	81	79	51	-
15:45:00	130 / 86	127 / 88 (W)	85	82	129	-
16:00:00	140 / 92	143 / 100 (W)	100	116	227	-
16:15:00	137 / 92	A (W)	98	107	253	-
16:30:00	132 / 90	138 / 94 (W)	101	117	188	-
16:45:00	148 / 95	148 / 94 (W)	102	97	164	-
17:00:00	136 / 89	136 / 88 (W)	94	90	67	-
17:15:00	139 / 91	139 / 90 (W)	93	96	62	-
17:30:00	132 / 88	127 / 87 (W)	89	92	141	-
17:45:00	133 / 89	130 / 87 (W)	92	79	170	-
18:00:00	134 / 88	142 / 89 (W)	90	98	127	-
18:15:00	138 / 90	138 / 89 (W)	92	102	102	-
18:30:00	138 / 90	A (W)	95	101	157	-
18:45:00	143 / 92	166 / 102 (W)	97	108	181	-
19:00:00	136 / 90	135 / 93 (W)	95	100	126	-
19:15:00	136 / 90	135 / 95 (W)	96	88	133	-

19:30:00	137 / 90	131 / 96 (W)	100	91	170		-
19:45:00	143 / 94	153 / 96 (W)	100	106	233		-
20:00:00	135 / 90	125 / 82 (W)	89	74	181		-
20:15:00	128 / 86	125 / 84 (W)	79	76	112		-
20:30:00	127 / 84	128 / 87 (W)	79	73	99		-
20:45:00	145 / 94	A (W)	101	146	129		-
21:00:00	134 / 90	131 / 88 (W)	83	85	117		-
21:15:00	131 / 87	134 / 90 (W)	82	77	61		-
21:30:00	136 / 90	158 / 97 (W)	89	99	72		-
21:45:00	138 / 91	134 / 90 (W)	88	93	113		-
22:00:00	134 / 90	132 / 93 (W)	79	78	72		-
22:30:00	129 / 87	128 / 87 (W)	71	74	45		-
23:00:00	128 / 86	126 / 86 (W)	71	76	50		-
23:30:00	132 / 88	130 / 89 (W)	73	72	81		-
03.08.2013 00:00:00	131 / 88	144 / 99 (W)	80	96	176		-
00:30:00	128 / 88	118 / 78 (W)	83	85	163		-
01:00:00	137 / 91	139 / 91 (W)	82	79	131		-
01:30:00	136 / 90	129 / 88 (W)	90	98	147		-
02:00:00	129 / 88	130 / 91 (W)	81	84	44		-
02:30:00	130 / 86	130 / 85 (W)	70	69	11		-
03:00:00	132 / 86	135 / 86 (S)	68	68	0		0 (0,0)
03:30:00	134 / 88	137 / 91 (S)	69	67	12		0 (0,0)
04:00:00	127 / 85	126 / 85 (S)	64	64	3		0 (0,0)
04:30:00	127 / 83	129 / 84 (S)	59	59	0		0 (0,0)
05:00:00	126 / 84	131 / 88 (S)	58	61	12		0 (0,0)
05:30:00	124 / 83	126 / 83 (S)	54	54	6		1 (2,0)
06:00:00	124 / 83	127 / 83 (S)	50	50	0		0 (0,0)
06:15:00	123 / 83	125 / 84 (S)	50	50	4		0 (0,0)
06:30:00	120 / 80	122 / 81 (S)	49	50	0		0 (0,0)
06:45:00	121 / 81	121 / 80 (S)	52	51	2		0 (0,0)
07:00:00	123 / 81	121 / 82 (S)	57	62	10		1 (4,0)
07:15:00	119 / 79	125 / 82 (S)	54	47	10		0 (0,0)
07:30:00	123 / 83	127 / 86 (S)	54	60	5		0 (0,0)
07:45:00	122 / 81	121 / 81 (S)	52	54	5		0 (0,0)
08:00:00	122 / 81	125 / 82 (S)	51	47	2		0 (0,0)
08:15:00	122 / 82	123 / 82 (S)	52	53	7		0 (0,0)
08:30:00	123 / 82	124 / 85 (S)	51	48	10		0 (0,0)
08:45:00	121 / 80	125 / 80 (S)	51	48	10		0 (0,0)
09:00:00	118 / 79	118 / 80 (S)	52	52	7		0 (0,0)
09:15:00	115 / 77	114 / 75 (S)	51	49	13		0 (0,0)
09:30:00	122 / 83	125 / 84 (W)	58	68	82		-
09:45:00	118 / 78	120 / 78 (S)	49	48	10		0 (0,0)
10:00:00	120 / 80	122 / 80 (S)	51	52	4		0 (0,0)
10:15:00	122 / 80	122 / 82 (S)	54	48	8		1 (4,0)
10:30:00	125 / 83	122 / 83 (S)	54	52	11		0 (0,0)
10:45:00	123 / 81	127 / 82 (S)	51	48	3		0 (0,0)
11:00:00	122 / 81	124 / 83 (S)	53	51	2		1 (4,0)
11:15:00	122 / 80	126 / 80 (S)	53	53	1		0 (0,0)
11:30:00	122 / 81	121 / 82 (S)	63	51	86		0 (0,0)
11:45:00	122 / 82	125 / 82 (W)	74	92	191		-
12:00:00	124 / 85	125 / 89 (W)	76	83	204		-
12:15:00	123 / 82	137 / 83 (W)	66	82	138		-
12:30:00	126 / 86	127 / 89 (W)	63	71	119		-

12:45:00	128 / 87	124 / 89 (W)	61	71	96	-
13:00:00	131 / 88	137 / 92 (W)	83	87	131	-
13:15:00	133 / 91	134 / 91 (W)	84	72	50	-
13:30:00	131 / 88	137 / 94 (W)	88	91	231	-
13:45:00	127 / 85	124 / 86 (W)	80	89	156	-
14:00:00	123 / 83	122 / 85 (W)	73	70	129	-
14:15:00	127 / 85	123 / 86 (W)	77	81	126	-
14:30:00	130 / 88	136 / 89 (W)	80	99	89	-
14:45:00	137 / 91	126 / 92 (W)	91	81	101	-
15:00:00	138 / 94	139 / 99 (W)	97	102	269	-
15:15:00	132 / 91	136 / 95 (W)	98	98	210	-
15:30:00	138 / 93	140 / 94 (W)	109	113	199	-
15:45:00	149 / 96	166 / 102 (W)	110	120	289	-
16:00:00	133 / 91	A (W)	89	94	189	-
16:15:00	127 / 87	126 / 86 (W)	78	85	195	-
∅ Day (6-22 o'clock)	130 / 86	131 / 87	77	79	102	
∅ Night (22-6 o'clock)	130 / 87	131 / 88	73	74	60	
∅ Record	130 / 87	131 / 87	76	78	94	

∅ BP [mmHg], ∅ HR[bpm]: Mean of all single values in the respective interval

BP [mmHg], HR [bpm]: Value at the given time index

∅ Activity[mg]: Mean of all single values in the respective interval classified according to the thresholds from the Activityanalysis

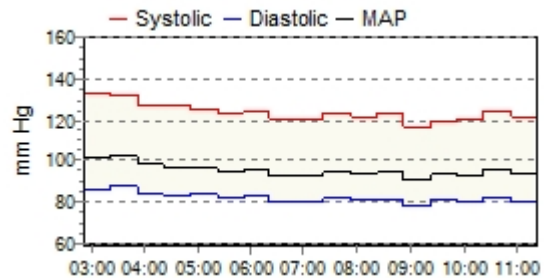
Desat.: Number (Index) of desaturations according to the thresholds from the SpO2 analysis, if patient asleep

(W/S): Sleep/Wake state at the given time index

Green rows: Intervals the patient spent predominantly in sleep

Nocturnal Blood Pressure Fluctuations (NBPF)

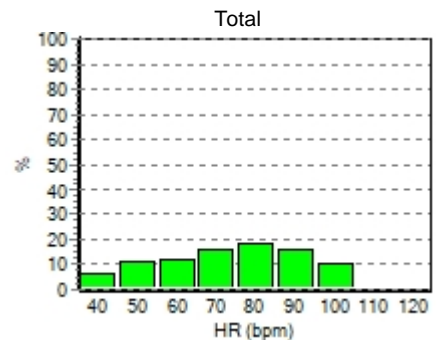
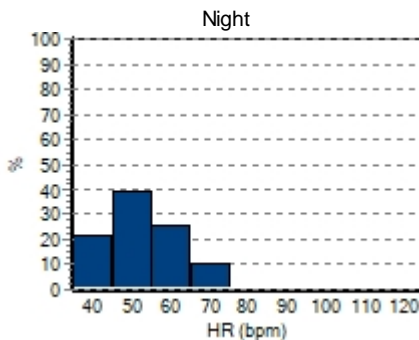
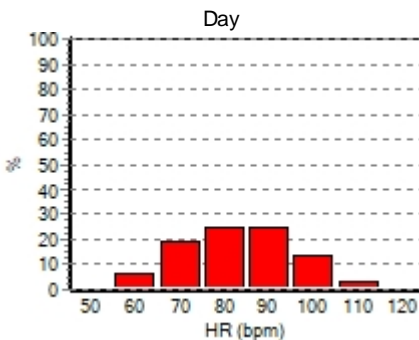
	Number (Index)	Time
Inc. (Index)	39 (4,5)	
Maximum Increase (mmHg)	26	09:19:50
Average Increase (mmHg)	14	
Max. Systolic (mm Hg)	152	03:26:04
Min. Systolic (mm Hg)	111	09:07:33
Average Systolic (mmHg)	126	
Artefact (min)	1,9 (0,4%)	



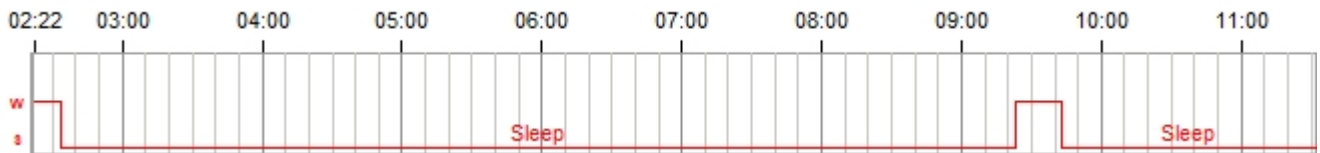
Def. NBPF: Continuous blood pressure increase higher than 12 mmHg within 3 – 30 seconds. Min and Max computed as mean value from 8 values.

Heart Rate Day/Night

	Total	Day	TIB	
			Sleep	Wake
Acceleration (Index)	766 (90,9)	559 (36,1)	190 (22,0)	17 (32,8)
Deceleration (Index)	761 (82,7)	625 (40,4)	119 (13,8)	17 (32,8)
Arrhythmia (Index)	39 (6,3)	1 (0,1)	37 (4,3)	1 (1,9)
Maximum HR (bpm)	153	153 (20:44:51)	105 (03:25:12)	105 (09:24:52)
Minimum HR (bpm)	44	49 (12:30:43)	44 (07:50:19)	45 (09:42:02)
Average HR (bpm)	79	88	57	64



Sleep/Wake

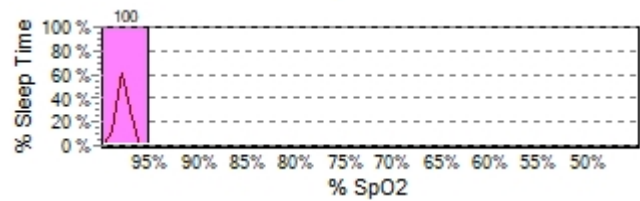
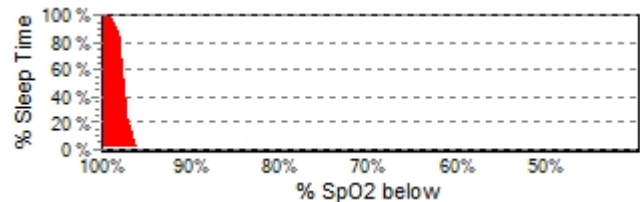


Total Sleep Time (TST)	08:38:59
Sleep efficiency (%)	94,3
Sleep Latency [m]	12,0

% Sleep Time	94,3
% Wake Time	5,7

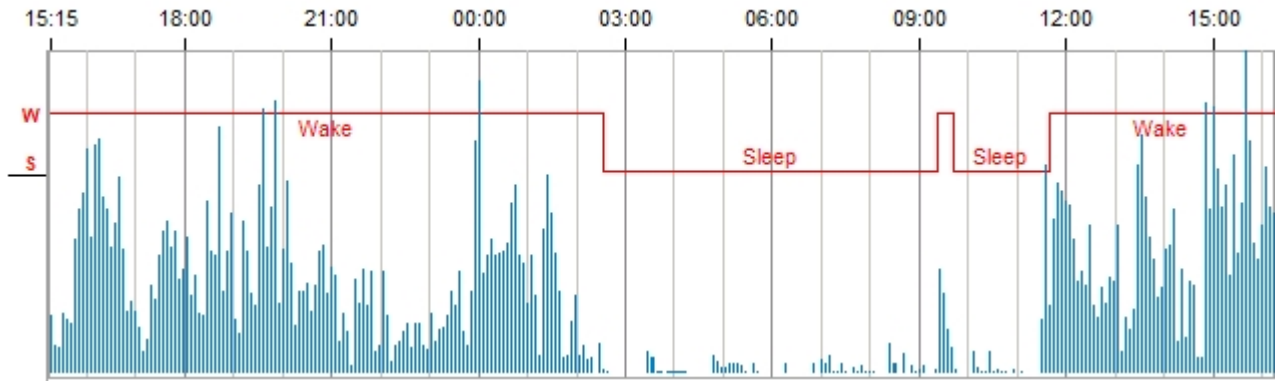
O2 saturation

	Number (Index)	Time
Number of Desaturations	4 (0,5)	
Minimum SpO2 (%)	95	10:58:10
Baseline O2 Saturation	98	
Average SpO2	98	
Number < 90 %	-	0,0 %
Number < 80 %	-	0,0 %
Time < 90 %	-	-
Biggest Desaturation (%)	5	10:57:49
Average Desaturation [%]	4,3	26,3 s
Longest Desaturation (s)	35,0	10:11:04
Average Min. Desaturation	96	
Deepest Desaturation (%)	95	10:58:10
Sum all desaturation	00:01:45	0,3 %
Average SpO2 Delay (s)	-	
Artefact (min)	0,1 (0,0%)	

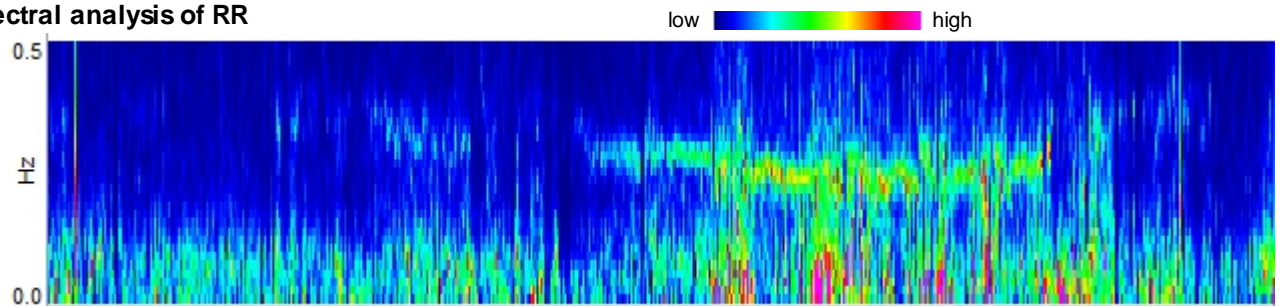


Stress report

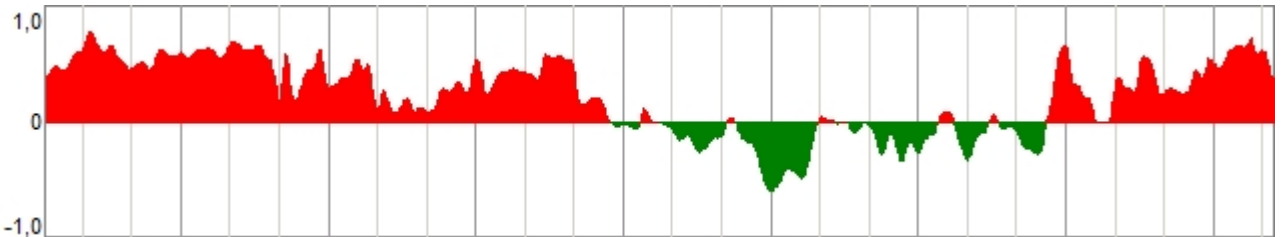
Sleep profile - Activity



Spectral analysis of RR



Stress



Recover

Heart Rate

