

24 hour blood pressure monitoring results

Patient name: **SAMPL Activity**

Code: **L3C01**

Address:

Phone:

Notes: **Εñiîëüç. äiî. àóñéóëüðàòèâiúé iàðiä äëý éiîððieý äiñðiaäðiiñðè**

Age (years): **22** Sex: **M** Height (cm): **174** Length of aorta **50**

Weight (kg): **56** Patient card No.: Department Room:

Monitor: **#AB09095749 Rev.BP2005-1.3.1539**

Test start: **3/12/2011 (08:42)** Total monitoring time: **23:50**

Expected readings: **72**. Successful: **69 (96.0%)**. Analyzed: **69**.

Test correction completed

Daytime (07:00 - 23:00). Number of readings: 49

Average SYS	126 mmHg	Norm (109..139)
Average DIA	72 mmHg	Norm (66..89)
Time index SYS	2 %	Norm (<15%)
Time index DIA	0 %	Norm (<15%)
Variability SYS	8 mmHg	Norm (<15)
Variability DIA	6 mmHg	Norm (<14)

Nighttime (23:01 - 06:59). Number of readings: 20

Average SYS	114 mmHg	Norm (91..124)
Average DIA	59 mmHg	Norm (49..74)
Time index SYS	6 %	Norm (<15%)
Time index DIA	0 %	Norm (<15%)
Variability SYS	8 mmHg	Norm (<15)
Variability DIA	6 mmHg	Norm (<12)

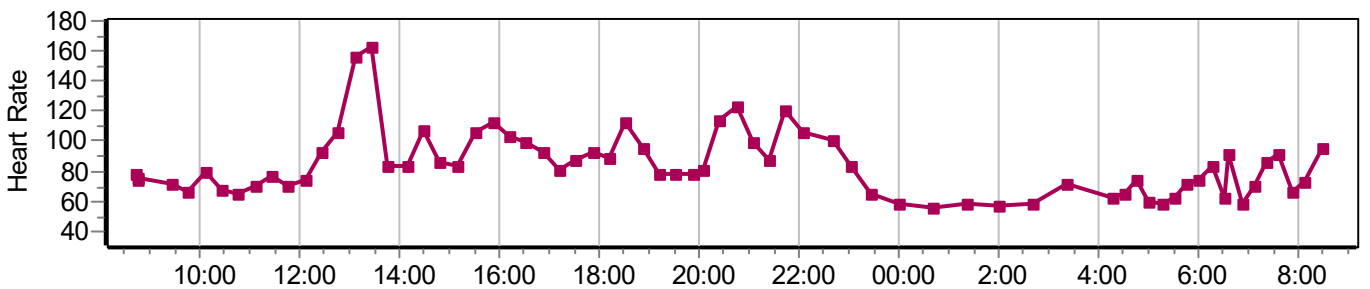
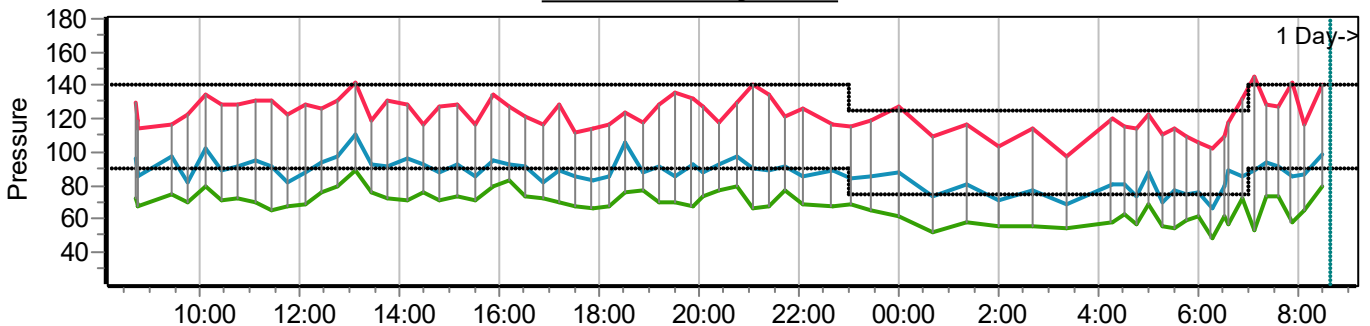
Average pulse pressure: **54 mmHg, High (>=53)**

Degree of nocturnal fall SYS: **10%, Dipper (10% ... 20%)**

Degree of nocturnal fall DIA: **17%, Dipper (10% ... 20%)**

Morning Surge Kario: **26 mmHg, Norm (<37)**

BP monitoring data



Physician: _____ Doctor: _____

Date: " ____ " _____ 20 ____ year

Reasons for test:

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Therapy:

Arm (L/R), Arm circumference, Cuff size: **Left, 26, Adult Humeral Medium**

Sleep quality: **Undefined**

Interpretation:

Physician: _____

Doctor: _____

Date: "___" _____ 20 _____ year

24/48 hours results. Number of readings: 69

	Minimum	Average	Maximum	Variability	Correct.variab.	
Systolic BP	98	123	145	10	8	mmHg
Diastolic BP	48	68	89	8	6	mmHg
Mean BP	66	88	110	8	6	mmHg
Pulse Pressure	41	54	92	9	---	mmHg
Heart Rate	56	84	163	21	---	Beats/min
Double Product	56	100	215	29	---	mmHg/min

Number of readings SYS > **4 (6%)**

AASI=0.519 Norm (<0.70)

Number of readings DIA > **0 (0%)**

Median BP(SYS/DIA):122/69

Daytime (07:00 - 23:00). Number of readings: 49

	Minimum	Average	Maximum	Variability	Correct.variab.	
Systolic BP	112	126	145	8	---	mmHg
Diastolic BP	53	72	89	6	---	mmHg
Mean BP	82	91	110	6	---	mmHg
Pulse Pressure	41	55	92	10	---	mmHg
Heart Rate	65	91	163	21	---	Beats/min
Double Product	78	111	215	26	---	mmHg/min

Number of readings SYS > **3 (6%)**

Number of readings DIA > 90 **0 (0%)**

Nighttime (23:01 - 06:59). Number of readings: 20

	Minimum	Average	Maximum	Variability	Correct.variab.	
Systolic BP	98	114	132	8	---	mmHg
Diastolic BP	48	59	72	6	---	mmHg
Mean BP	66	78	89	7	---	mmHg
Pulse Pressure	43	54	66	6	---	mmHg
Heart Rate	56	67	92	10	---	Beats/min
Double Product	56	73	105	11	---	mmHg/min

Number of readings SYS > **2 (10%)**

Number of readings DIA > 75 **0 (0%)**

Special period (04:00 - 08:00). Number of readings: 16

	Minimum	Average	Maximum	Variability	Correct.variab.	
Systolic BP	102	120	145	12	---	mmHg
Diastolic BP	48	61	74	8	---	mmHg
Mean BP	66	81	94	8	---	mmHg
Pulse Pressure	44	59	92	13	---	mmHg
Heart Rate	58	71	92	11	---	Beats/min
Double Product	62	82	113	16	---	mmHg/min

Number of readings SYS > **2 (13%)**

Number of readings DIA > 90 **0 (0%)**

24/48 hours results. Number of readings: 69

	Pressure	At HR	Time
Maximum SYS	145 mmHg	70 Beats/min	07:06
Maximum DIA	89 mmHg	156 Beats/min	13:06
Minimum SYS	98 mmHg	72 Beats/min	03:20
Minimum DIA	48 mmHg	83 Beats/min	06:15

Maximum HR: **163 Beats/min In 13:26**Minimum HR: **56 Beats/min In 00:40****Daytime (07:00 - 23:00). Number of readings: 49**

	Pressure	At HR	Time
Maximum SYS	145 mmHg	70 Beats/min	07:06
Maximum DIA	89 mmHg	156 Beats/min	13:06
Minimum SYS	112 mmHg	88 Beats/min	17:31
Minimum DIA	53 mmHg	70 Beats/min	07:06

Maximum HR: **163 Beats/min In 13:26**Minimum HR: **65 Beats/min In 10:46****Nighttime (23:01 - 06:59). Number of readings: 20**

	Pressure	At HR	Time
Maximum SYS	132 mmHg	59 Beats/min	06:51
Maximum DIA	72 mmHg	59 Beats/min	06:51
Minimum SYS	98 mmHg	72 Beats/min	03:20
Minimum DIA	48 mmHg	83 Beats/min	06:15

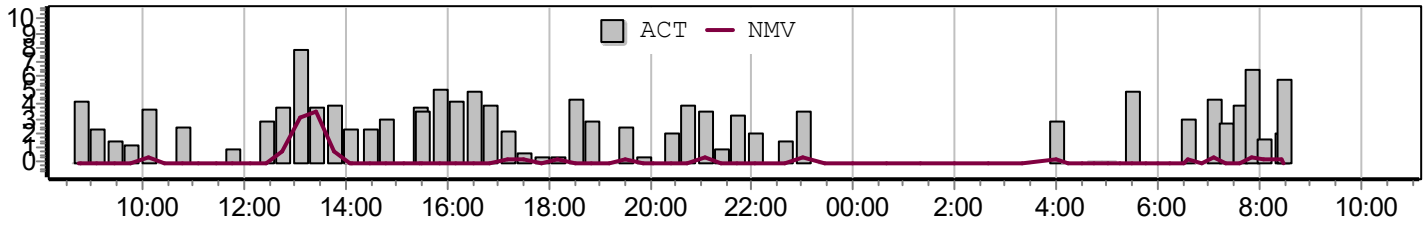
Maximum HR: **92 Beats/min In 06:36**Minimum HR: **56 Beats/min In 00:40****Special period (04:00 - 08:00). Number of readings: 16**

	Pressure	At HR	Time
Maximum SYS	145 mmHg	70 Beats/min	07:06
Maximum DIA	74 mmHg	86 Beats/min	07:21
Minimum SYS	102 mmHg	83 Beats/min	06:15
Minimum DIA	48 mmHg	83 Beats/min	06:15

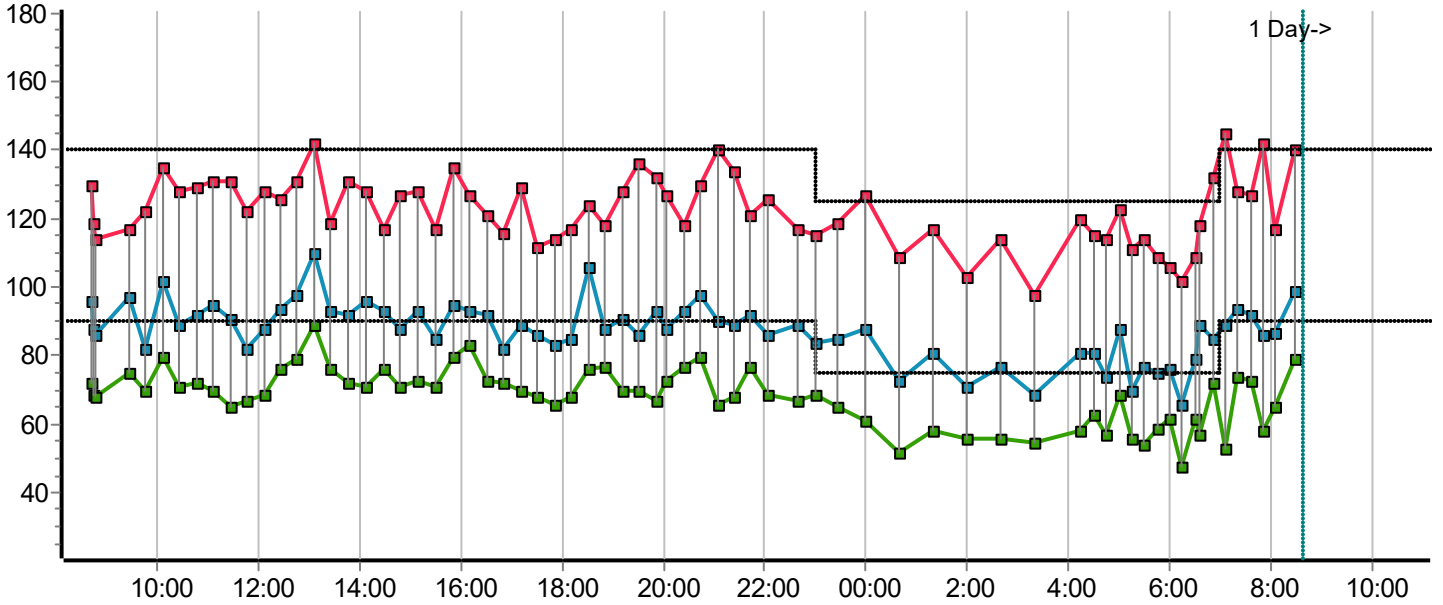
Maximum HR: **92 Beats/min In 06:36**Minimum HR: **58 Beats/min In 05:15**

24 hour graphs of BP, HR and activity, Day 1

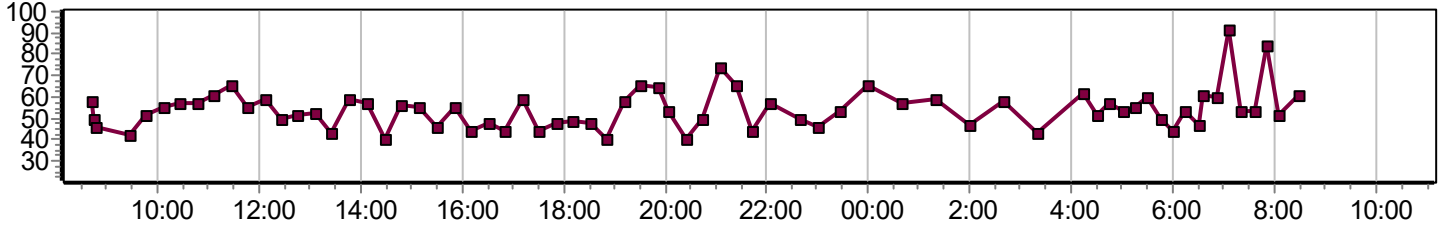
Activity parameters



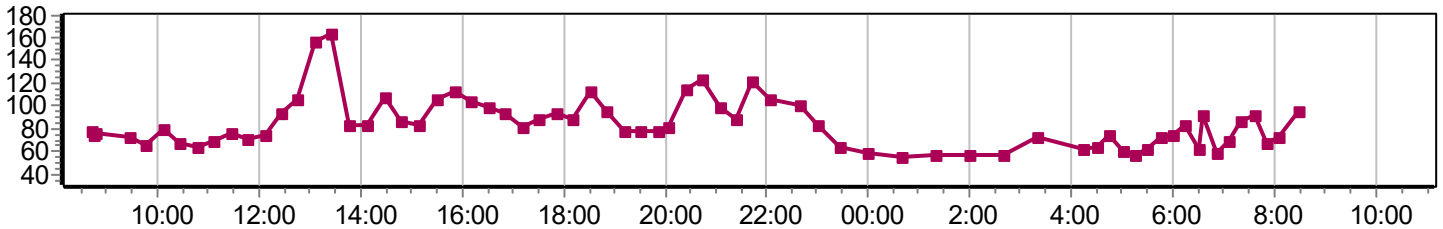
SYS, DIA and MBP, mmHg



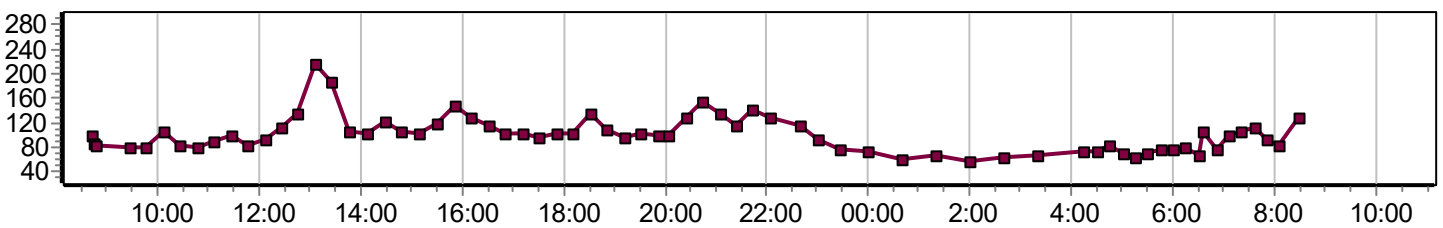
Pulse Pressure, mmHg



Heart Rate, Beats/min



Double Product Index (DPI), mmHg/min



Verification readings

Before monitoring		After monitoring	
Physician	Monitor	Physician	Monitor
125/65	126/68	140/55	138/54
115/65	115/65	115/60	113/61
110/65	110/64	135/75	136/75

Deflation mode correction: 4 mmHg

SYS difference: 4 mmHg

DIA difference: 4 mmHg

Correction has been completed

ABPM Data

No.	Time	Caus	Pos	Act	N_mv	Pressure						HR	DP	Q	EX	Comment
						SYS	SYS_A	MBP	DIA	DIA_A	PP					
1	08:42	5	0			130	170	96	72	32	58	78	98			
2	08:44	5	5	0.0	0.0	119	151	88	69	34	50	75	86			
3	08:46	5	5	4.3	0.0	114	129	86	68	41	46	76	84			
4	09:06	1	2	2.4	0.0	E83: Air leak								#	EE	
5	09:26	1	13	1.5	0.0	117	123	97	75	80	42	72	81	?		
6	09:46	1	13	1.3	0.0	122	104	82	70	74	52	66	78			
7	10:06	1	2	3.7	0.4	135	138	102	80	61	55	80	105			
8	10:26	1	2	0.0	0.0	128	173	89	71	47	57	68	84			
9	10:46	1	2	2.5	0.0	129	130	92	72	44	57	65	81			
10	11:06	1	2	0.0	0.0	131	139	95	70	51	61	70	89			
11	11:26	1	13	0.0	0.0	131	146	91	65	47	66	77	98			
12	11:46	1	5	0.9	0.0	122	125	82	67	54	55	71	84			
13	12:06	1	2	0.0	0.0	128	143	88	69	48	59	75	93			
14	12:26	1	2	2.9	0.0	126	108	94	76	63	50	93	113			
15	12:46	1	2	3.8	0.8	131	141	98	79	63	52	106	135			
16	13:06	1	5	8.0	3.2	142	151	110	89	75	53	156	215			
17	13:26	1	13	3.8	3.6	119	163	93	76	68	43	163	187	?		
18	13:46	1	2	4.0	0.8	131	119	92	72	69	59	84	107			
19	14:06	1	2	2.4	0.0	E96: Pulse not found								#	EE	
20	14:08	6	2	0.0	0.0	128	117	96	71	54	57	84	104			

ABPM Data

No.	Time	Caus	Pos	Act	N_mv	Pressure						HR	DP	Q	EX	Comment
						SYS	SYS_A	MBP	DIA	DIA_A	PP					
21	14:28	1	2	2.4	0.0	117	136	93	76	70	41	107	121			
22	14:48	1	2	3.0	0.0	127	104	88	71	48	56	86	106			
23	15:08	1	2	0.0	0.0	128	148	93	73	63	55	83	103			
24	15:28	1	2	3.8	0.0	136	144	115	110	114	26	105	139		DB	
25	15:31	2	2	3.6	0.0	117	151	85	71	61	46	106	120			
26	15:51	1	2	5.2	0.0	135	124	95	80	72	55	113	148			
27	16:11	1	2	4.3	0.0	127	135	93	83	74	44	104	128			
28	16:31	1	2	5.1	0.0	121	150	92	73	61	48	99	116			
29	16:51	1	2	4.0	0.0	116	127	82	72	63	44	93	104			
30	17:11	1	5	2.3	0.2	129	138	89	70	54	59	81	101			
31	17:31	1	5	0.6	0.2	112	143	86	68	62	44	88	95			
32	17:51	1	2	0.4	0.0	114	127	83	66	50	48	93	102			
33	18:11	1	5	0.4	0.2	117	135	85	68	55	49	89	101			
34	18:31	1	2	4.4	0.0	124	139	106	76	63	48	113	136	?		
35	18:51	1	2	2.9	0.0	118	143	88	77	68	41	95	108			
36	19:11	1	2	0.0	0.0	128	186	91	70	45	58	78	97			
37	19:31	1	5	2.5	0.2	136	144	86	70	63	66	78	103			
38	19:51	1	2	0.4	0.0	132	156	93	67	55	65	78	100			
39	20:04	6	2	0.0	0.0	127	103	88	73	72	54	81	100			
40	20:24	1	2	2.1	0.0	118	148	93	77	59	41	114	130			
41	20:44	1	2	4.0	0.0	130	119	98	80	60	50	123	155			
42	21:04	1	2	3.6	0.4	140	132	90	66	46	74	99	135			
43	21:23	6	2	0.9	0.0	134	134	89	68	55	66	88	114			
44	21:43	1	2	3.3	0.0	121	136	92	77	66	44	121	142			
45	22:03	1	2	2.0	0.0	126	136	86	69	71	57	106	129			
46	22:39	6	2	1.5	0.0	117	127	89	67	58	50	101	114			
47	23:01	6	2	3.6	0.4	115	119	84	69	54	46	83	92			
48	23:26	6	2	0.0	0.0	119	135	85	65	43	54	65	75			
49	24:00	6	2	0.0	0.0	127	179	88	61	96	66	59	73			
50	00:40	1	2	0.0	0.0	109	148	73	52	40	57	56	59			
51	01:20	1	2	0.0	0.0	117	117	81	58	58	59	58	66			

ABPM Data

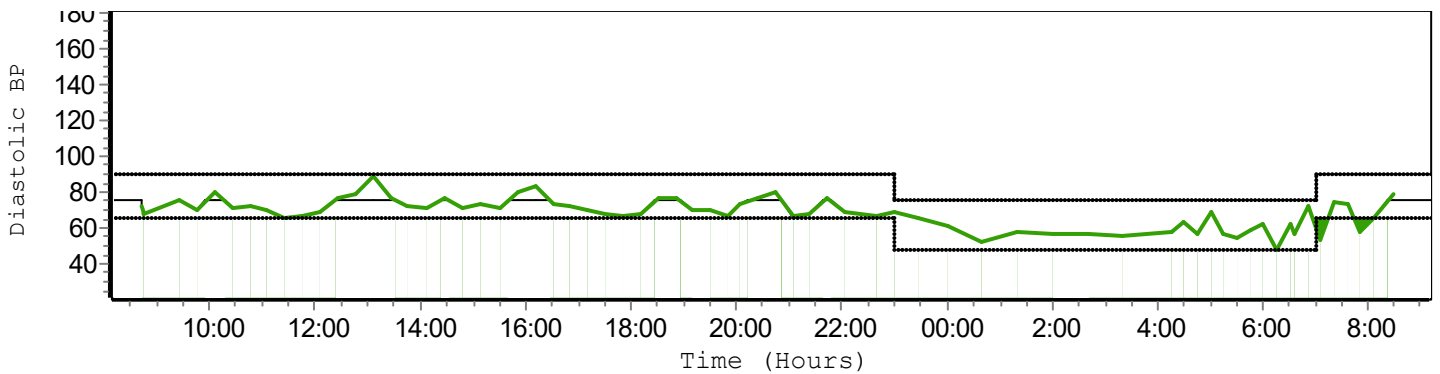
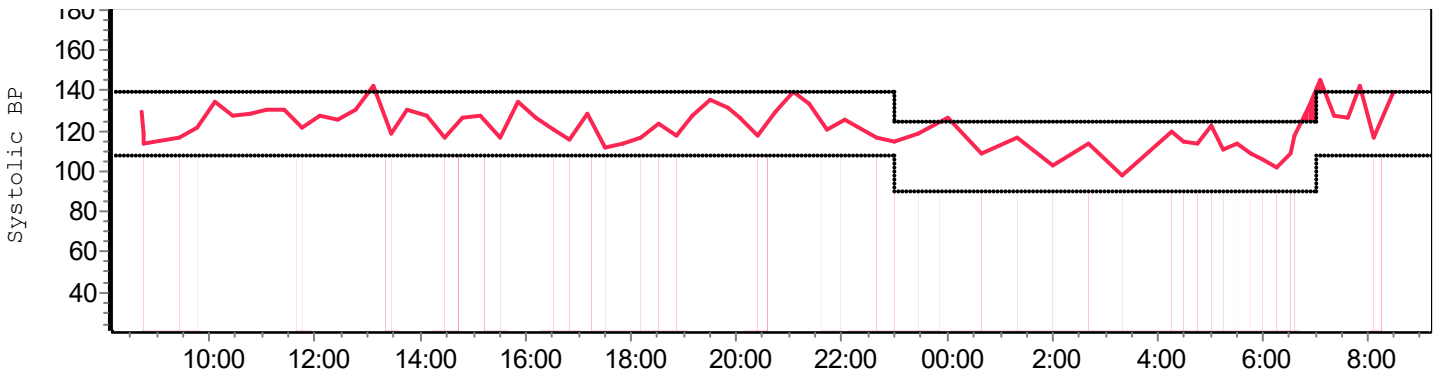
No.	Time	Caus	Pos	Act	N_mv	Pressure						HR	DP	Q	EX	Comment
						SYS	SYS_A	MBP	DIA	DIA_A	PP					
52	02:00	1	13	0.0	0.0	103	139	71	56	37	47	57	56			
53	02:40	1	13	0.0	0.0	114	126	77	56	62	58	58	64			
54	03:20	1	13	0.0	0.0	98	96	69	55	45	43	72	68			
55	04:00	1	2	2.9	0.2	E84: Tube compressed								#	EE	
56	04:15	1	2	0.0	0.0	120	114	81	58	51	62	62	72			
57	04:30	1	2	0.0	0.0	115	142	81	63	49	52	65	72			
58	04:45	1	2	0.1	0.0	114	135	74	57	41	57	75	82			
59	05:00	1	13	0.1	0.0	123	136	88	69	56	54	60	71			
60	05:15	1	13	0.0	0.0	111	134	70	56	63	55	58	62			
61	05:30	1	13	5.1	0.0	114	119	77	54	85	60	63	69			
62	05:45	1	13	0.0	0.0	109	121	75	59	43	50	72	76			
63	06:00	1	13	0.0	0.0	106	100	76	62	54	44	74	75			
64	06:15	1	13	0.0	0.0	102	118	66	48	34	54	83	81			
65	06:30	1	13	0.0	0.0	109	105	79	62	63	47	63	66			
66	06:36	4	2	3.0	0.2	118	119	89	57	42	61	92	105	?		
67	06:51	1	5	0.0	0.0	132	141	85	72	85	60	59	76			
68	07:06	1	2	4.4	0.4	145	64	89	53	37	92	70	99			
69	07:21	1	2	2.8	0.0	128	159	94	74	52	54	86	107			
70	07:36	1	2	4.0	0.0	127	150	92	73	63	54	92	113			
71	07:51	1	5	6.5	0.4	142	131	86	58	39	84	67	92			
72	08:06	1	5	1.6	0.2	117	164	87	65	51	52	73	82	?		
73	08:26	1	5	2.0	0.2	E96: Pulse not found								#	EE	
74	08:29	2	2	5.8	0.0	140	140	99	79	74	61	95	129			

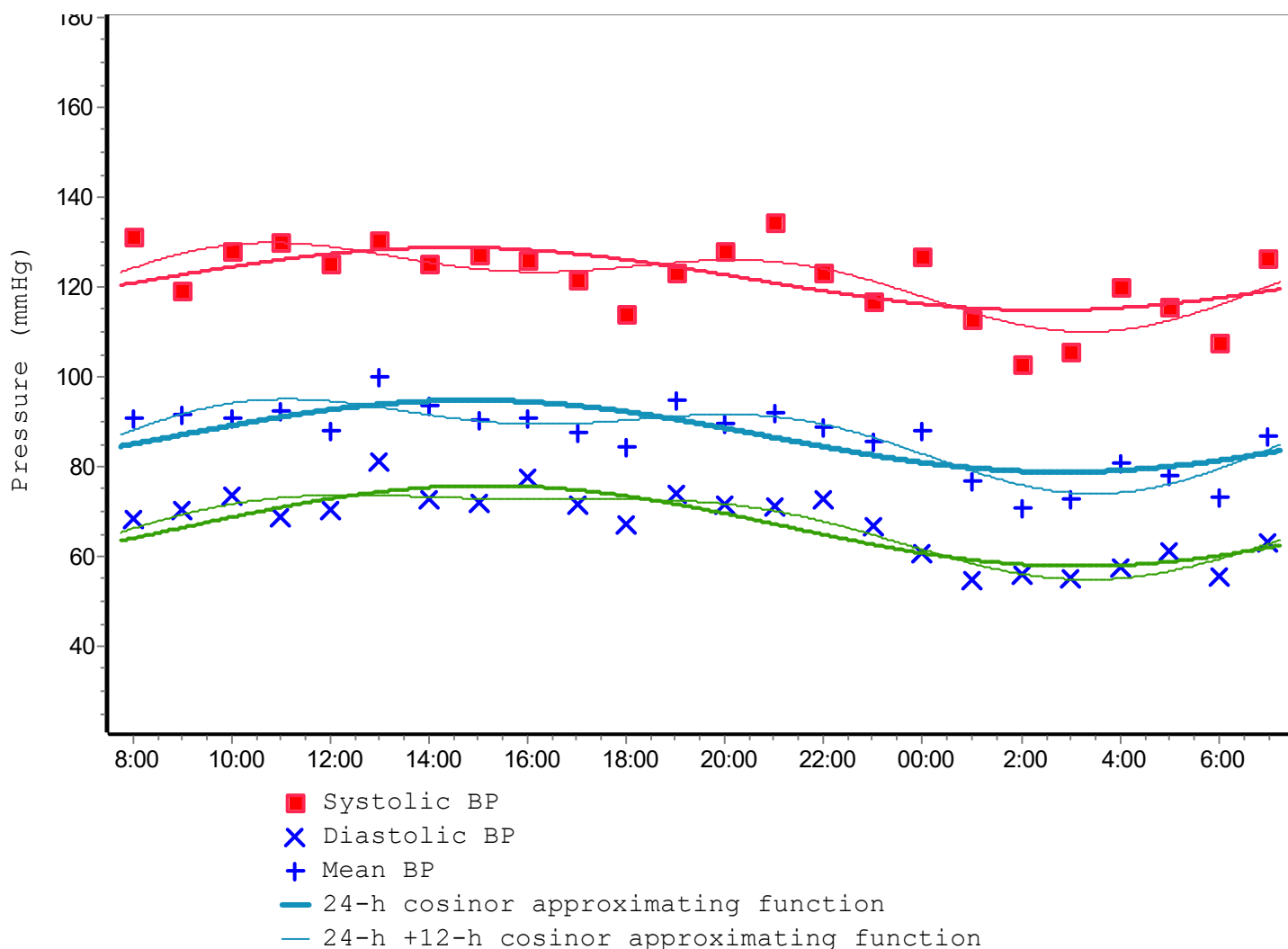
Pressure load (hypertension episodes)

	24 hour	Day	Night	Special	
SYS limits	---	140	125	140	mmHg
DIA limits	---	90	75	90	mmHg
Area under curve SYS	3	1	2	2	mmHg
Norm. area under curve SYS	0	0	0	1	mmHg
Time index SYS	3	2	6	12	%
Readings index SYS	7	6	10	19	%
Area under curve DIA	0	0	0	0	mmHg
Norm. area under curve DIA	0	0	0	0	mmHg
Time index DIA	0	0	0	0	%
Readings index DIA	0	0	0	0	%

Hypotension load

	24 hour	Day	Night	Special	
SYS limits	---	108	90	100	mmHg
DIA limits	---	65	48	60	mmHg
Area under curve SYS	0	0	0	0	mmHg
Norm. area under curve SYS	0	0	0	0	mmHg
Time index SYS	0	0	0	0	%
Readings index SYS	0	0	0	0	%
Area under curve DIA	3	3	0	3	mmHg
Norm. area under curve DIA	0	0	0	1	mmHg
Time index DIA	3	4	0	12	%
Readings index DIA	3	4	0	12	%





Chronobiological analysis (cosinor method)

	MESOR (mmHg)	24-h. amplitude (mmHg)	24-h. acrophase (Hour)	12-h. amplitude (mmHg)	12-h. acrophase (Hour)
SYS	122	7 (2)	14:29 (01:03)	5 (2)	21:37 (00:39)
DIA	67	9 (1)	15:10 (00:26)	3 (1)	21:29 (00:37)
MBP	87	8 (1)	14:50 (00:35)	5 (1)	21:44 (00:30)

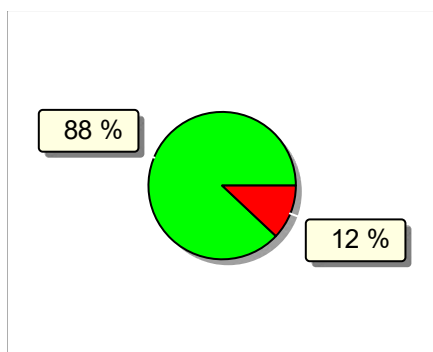
Morning trend (6:00 - 12:00)

	Systolic BP	Conclusion	Diastolic	Conclusion	Unit
Morning Surge Kario	26	Norm (<37)	---		mmHg
Amplitude of morning raise	43	Norm (<56)	31	Norm (<36)	mmHg
Velocity of morning raise	51	High (>=10)	14	High (>=6)	mmHg/hour
Morning Max.	145		80		mmHg
Morning Max/night average	127		135		%
Trend deviation	10		5		mmHg
Over-regulation %	126		120		%
Max. velocity	19		8		mmHg/hour
Morning index Max.	530		335		(mmHg/min)^2

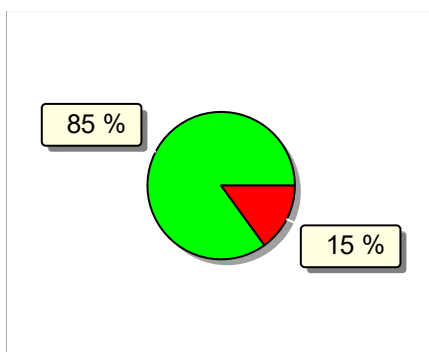
Hourly average

Hours	SYS	DIA	HR	Measurements
1 - 2h	120	71	75	4
2 - 3h	128	74	71	3
3 - 4h	130	69	71	3
4 - 5h	125	71	80	3
5 - 6h	131	81	142	3
6 - 7h	125	73	92	3
7 - 8h	124	72	92	3
8 - 9h	128	79	105	3
9 - 10h	119	70	87	3
10 - 11h	118	70	98	3
11 - 12h	127	72	84	3
12 - 13h	127	74	99	4
13 - 14h	130	70	104	4
14 - 15h	117	67	83	3
15 - 16h	118	56	58	2
16 - 17h	110	57	58	2
17 - 18h	106	56	65	2
18 - 19h	116	59	67	3
19 - 20h	114	60	63	4
20 - 21h	113	60	74	5
21 - 22h	136	64	79	4

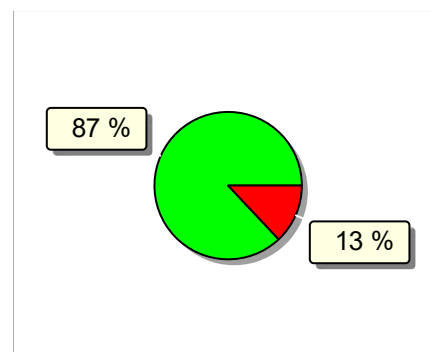
Values above the limit



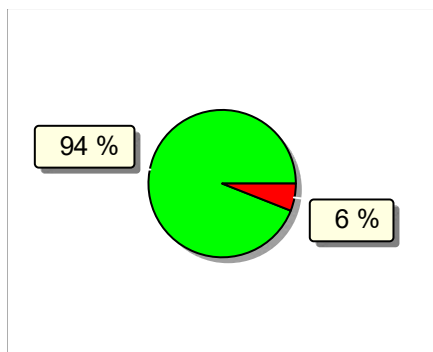
SYS (day)



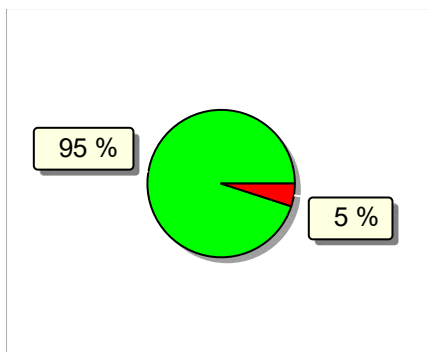
SYS (night)



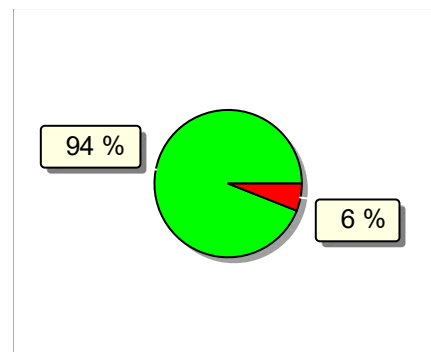
SYS (total)



DIA (day)

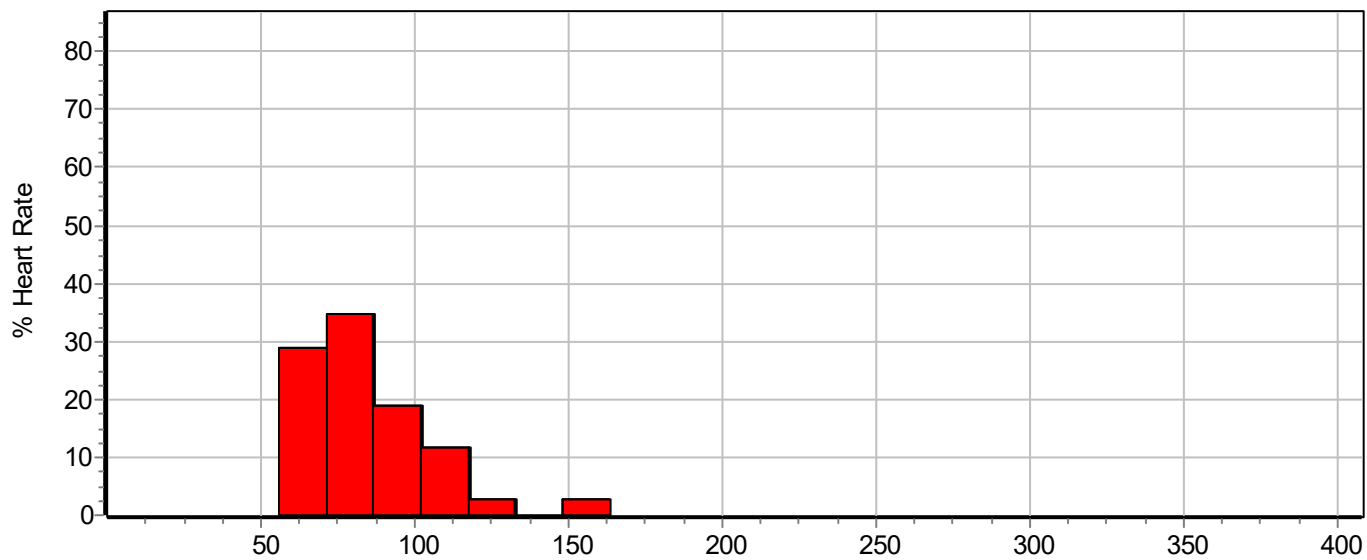
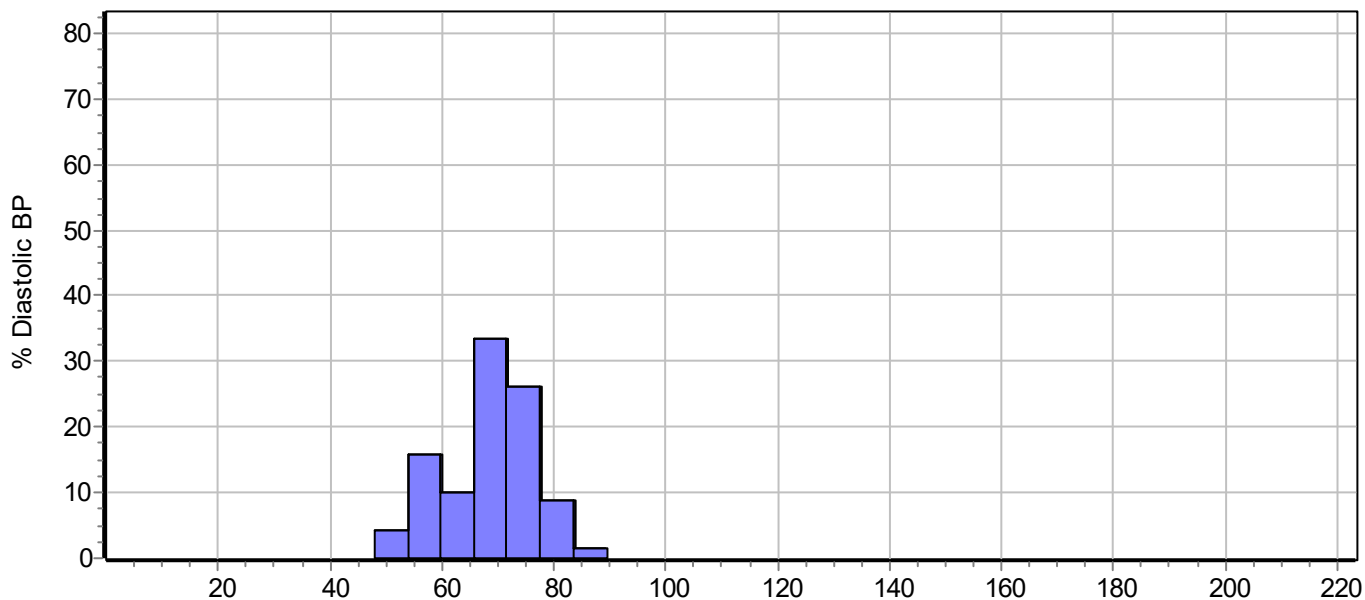
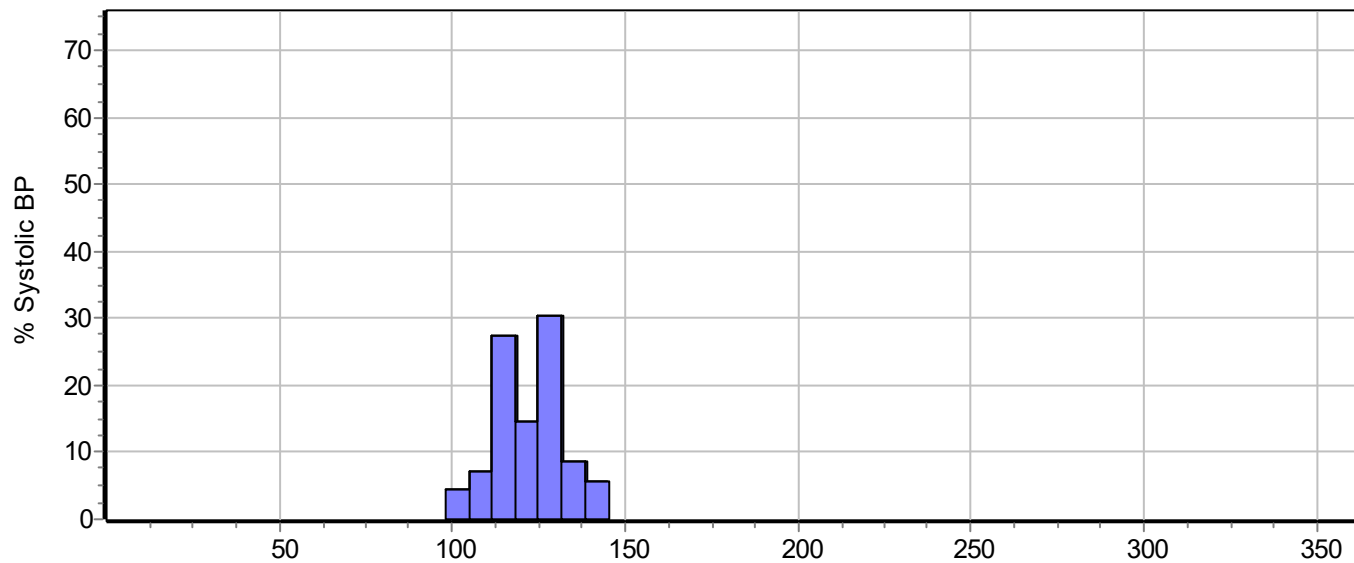


DIA (night)



DIA (total)

Histogram (procents)



Histogram (absolute)

