

Guided autonomic test results



Recording Date 10/07/2020 11:29:20

Physician

Patient

Reference
Name dkp
Age 30 yr
Weight 75 kg
Height 183 cm
Gender Female

Recording

Identifier 2020-07-10_09.19.42
Duration 00:41:59
Blood Pressure Type Finger
Averaging (beat-to-beat) 1
Procedure

Measurement comments:

To document (operator) comments about the measurement

Additional print comments:

Measurement markers based comments:

At 00:37:07.0 user test marker.

Performed tests

Test performed	Tests performed
Valsalva test	2
Stand test	1
Deep Breathing test	1
Tilt Table test	1
Cold Pressor test	1
Drug Administration test	1
Carotid Sinus Massage test	1

Units

Abbreviations	Units
SBP, MAP, DBP, Pulse pressure	MmHg
Heart rate (HR)	BeatsPerMin
Duration, Pressure recovery time	HrMinSec
RR-interval	Milliseconds
Standard deviation (SD)	-

Patient name: dkp Reference: Procedure:

Valsalva test summary results (average of 2 test(s))

Valsalva Description	Baseline	Phase 1	Phase 2		Delta (Phase 2 - Phase 1)	Delta (Phase 2 late - Baseline)	Phase 3	Phase 4	Delta (Phase 4 - Baseline)
Duration	-	-	-		-	-	-	-	-
	<i>Average</i>	<i>Max</i>	<i>Min</i>	<i>Late max</i>	<i>Delta</i>	<i>Delta</i>	<i>Min</i>	<i>Max</i>	<i>Delta</i>
SBP	109	138	91	136	-47	27	98	165	55
MAP	73	105	70	112	-35	39	77	120	47
DBP	48	81	57	99	-23	51	64	90	42
Pulse pressure	61	65	31	38	-34	-23	31	90	29
	<i>Average</i>	<i>Min</i>	<i>Max</i>	<i>Late min</i>	<i>Delta</i>	<i>Delta</i>	<i>Max</i>	<i>Min</i>	<i>Delta</i>
HR	69	74	119	112	45	44	115	51	-18

Valsalva ratio	2.35	Pressure recovery time	00:00:00.4
-----------------------	------	-------------------------------	------------

Stand test summary results (average of 1 test(s))

<i>Stand At</i>	Baseline Position:	At 30s stand	At 60s stand
Description			
Duration	-	-	-
HR	58	65	67
SBP	111	114	124
MAP	74	78	92
DBP	50	54	73

<i>Stand Nadir</i>	To Nadir	To Base
Description		
SBP	00:44.7	00:06.5
MAP	00:44.7	-
DBP	00:08.2	00:06.2

<i>Stand Within</i>	Within 15s stand	Delta (15s - baseline)
Description		
Duration	-	-
HR (max)	90	33
SBP (min)	82	-29
MAP (min)	46	-29
DBP (min)	26	-24

<i>Stand HR (ECG)</i>	HR parameters
Description	
RR at 15th beat	660
RR at 30th beat	910
30/15 ratio	1.38
HRmax - HRmin	28
HRR	21

Deep Breathing test summary results (average of 1 test(s))

<i>Deep breathing</i>	Maximum (5 cycle average)	Minimum (5 cycle average)	Delta (5 cycle average)
Description			
Duration	-	-	-
HR	73	44	29
RR-interval	1351	823	528
SBP	114	95	19
MAP	72	58	13
DBP	52	34	18

E:I ratio	1.64
------------------	------

Tilt Table test summary results (average of 1 test(s))

<i>Tilt table</i>	Tilt 1 baseline (0 degrees)	Tilt 2 (70 degrees)	Delta (tilt 2 - Baseline average)	Tilt 3 (0 degrees)	Delta (tilt 3 - Baseline average)	Delta (tilt 3 - tilt 2 average)
Description						
Duration	-	-	-	-	-	-
HR						
Average	59	73	14	62	3	-10
Maximum	69	94	35	86	27	13
Minimum	51	60	1	47	-12	-26
SBP						
Average	112	113	2	121	9	8
Maximum	119	126	14	138	26	24
Minimum	102	85	-27	99	-13	-15
MAP						
Average	78	77	-1	85	7	7
Maximum	87	89	11	100	22	23
Minimum	68	50	-28	70	-8	-7
DBP						
Average	55	56	1	60	5	4
Maximum	67	68	13	76	20	19
Minimum	45	30	-26	46	-10	-11

Cold Pressor test summary results (average of 1 test(s))

<i>Cold pressor</i>	Baseline	Cold pressor	Delta (Cold pressor - Baseline)	Post cold pressor	Delta (Post cold pressor - Baseline)
Description					
Duration	-	-	-	-	-
HR					
Average	53	58	5	59	6
SD	4.7	5.5	0.9	5	0.3
Maximum	67	75	8	71	3
Minimum	46	50	4	51	5
SBP					
Average	122	129	7	117	-5
SD	7.1	5.9	-1.2	6.4	-0.7
Maximum	135	142	7	128	-7
Minimum	102	114	12	93	-9
MAP					
Average	84	92	7	82	-3
SD	6.2	5.8	-0.4	5.9	-0.3
Maximum	97	106	9	94	-4
Minimum	65	80	16	65	1
DBP					
Average	60	68	8	59	-1
SD	6.3	5.9	-0.5	6.7	0.4
Maximum	73	82	9	72	-1
Minimum	37	55	18	31	-6

Drug Administration test summary results (average of 1 test(s))

<i>Drug administration</i>	Baseline	Administration caffeine	Delta (Admin - Baseline)	Response	Delta (Response - Baseline)
Description					
Duration	-	-	-	-	-
HR					
Average ± SD	63 ± 8.5	62 ± 6.5	-1	59 ± 6.1	-5
Range (min-max)	47 - 80	47 - 81	1 & 2	49 - 73	2 & - 7
SBP					
Average ± SD	121 ± 9.5	119 ± 7.6	-2	110 ± 5.8	-11
Range (min-max)	89 - 141	104 - 138	15 & - 3	98 - 126	9 & - 15
MAP					
Average ± SD	87 ± 7.5	85 ± 7.4	-2	75 ± 5.8	-12
Range (min-max)	75 - 104	70 - 102	- 4 & - 1	61 - 92	- 14 & - 12
DBP					
Average ± SD	64 ± 7.7	63 ± 7.4	-1	52 ± 6.5	-12
Range (min-max)	49 - 83	47 - 81	- 2 & - 3	37 - 69	- 13 & - 14

Patient name: dkp Reference: Procedure:

Carotid Sinus Massage test summary results (average of 1 test(s))

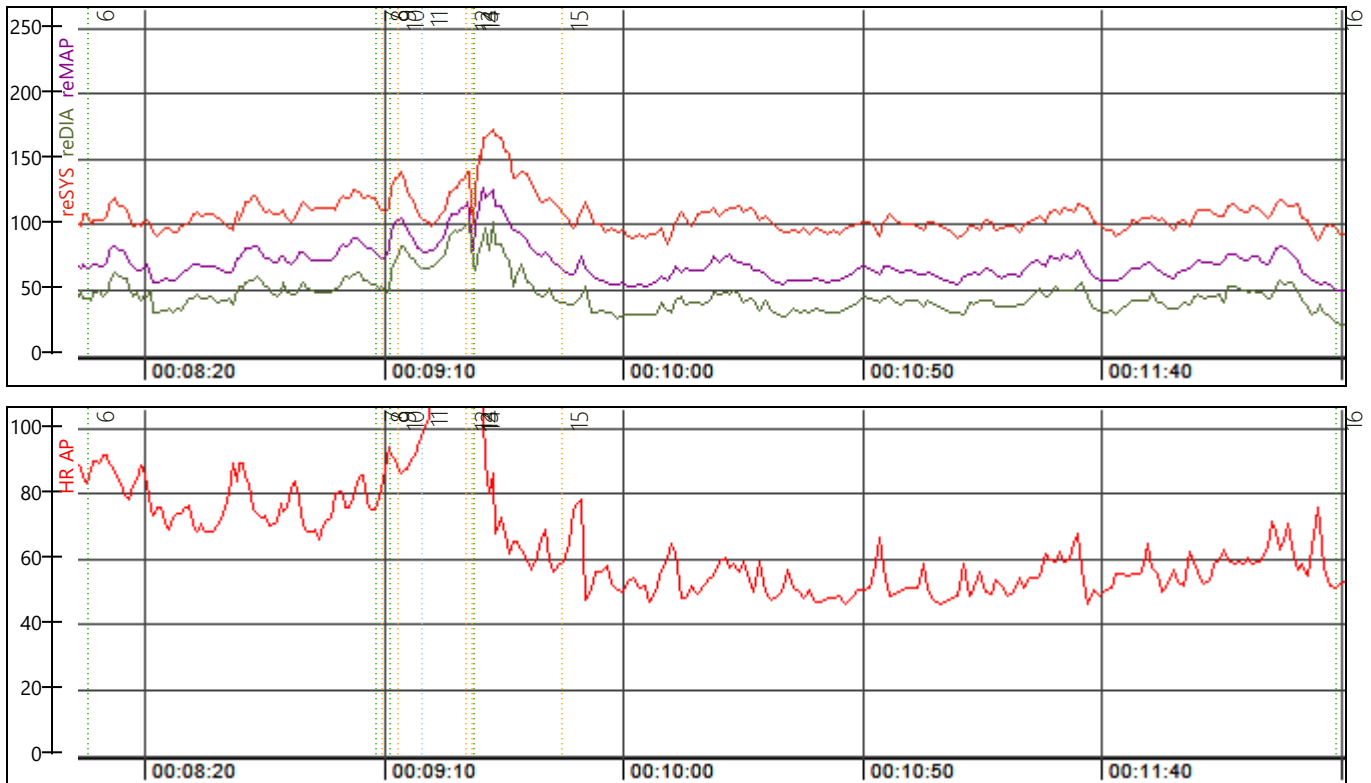
<i>Sinus carotid massage</i>	Baseline		Massage left	Delta (Massage left - Baseline)
Description				
Duration	-		-	-
HR	56	Min:	51	-4
RR-interval	1075	Max:	1154	79
SBP	109	Min:	103	-6
MAP	75	Min:	67	-9
DBP	54	Min:	46	-8

Valsalva test 1 results

Valsalva Description	Baseline	Phase 1	Phase 2		Delta (Phase 2 - Phase 1)	Delta (Phase 2 late - Baseline)	Phase 3	Phase 4	Delta (Phase 4 - Baseline)
Duration	00:01:03.0	00:00:03.3	00:00:14.1		-	-	00:00:01.0	00:00:18.8	-
	<i>Average</i>	<i>Max</i>	<i>Min</i>	<i>Late max</i>	<i>Delta</i>	<i>Delta</i>	<i>Min</i>	<i>Max</i>	<i>Delta</i>
SBP	109	140	99	141	-40	31	101	173	63
MAP	73	105	79	117	-26	44	80	128	55
DBP	50	84	66	102	-18	53	70	102	52
Pulse pressure	60	64	31	39	-33	-21	27	90	30
	<i>Average</i>	<i>Min</i>	<i>Max</i>	<i>Late min</i>	<i>Delta</i>	<i>Delta</i>	<i>Max</i>	<i>Min</i>	<i>Delta</i>
HR	79	86	120	115	34	36	120	56	-23

Valsalva ratio	2.14	Pressure recovery time	00:00:00.4
-----------------------	------	-------------------------------	------------

Valsalva test 1 results graphs



Valsalva test 1 results markers

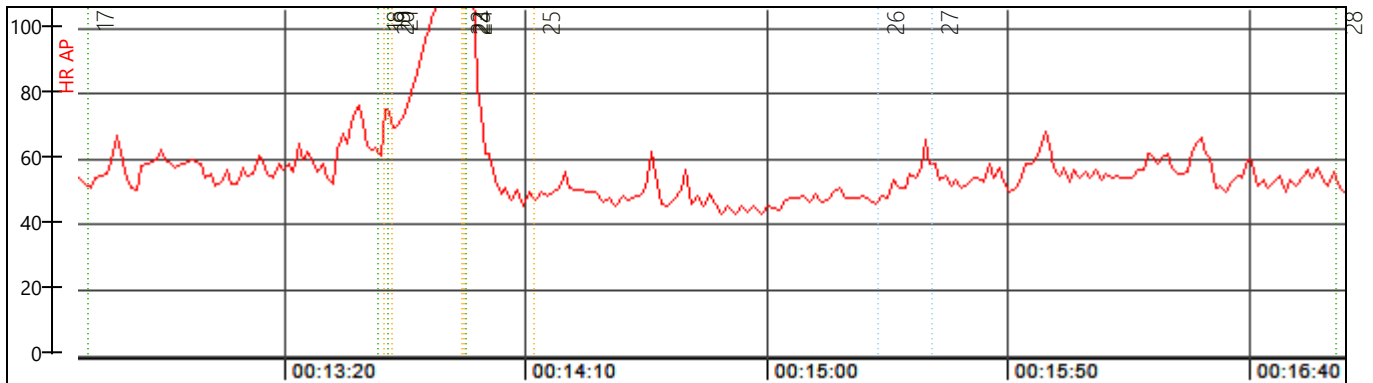
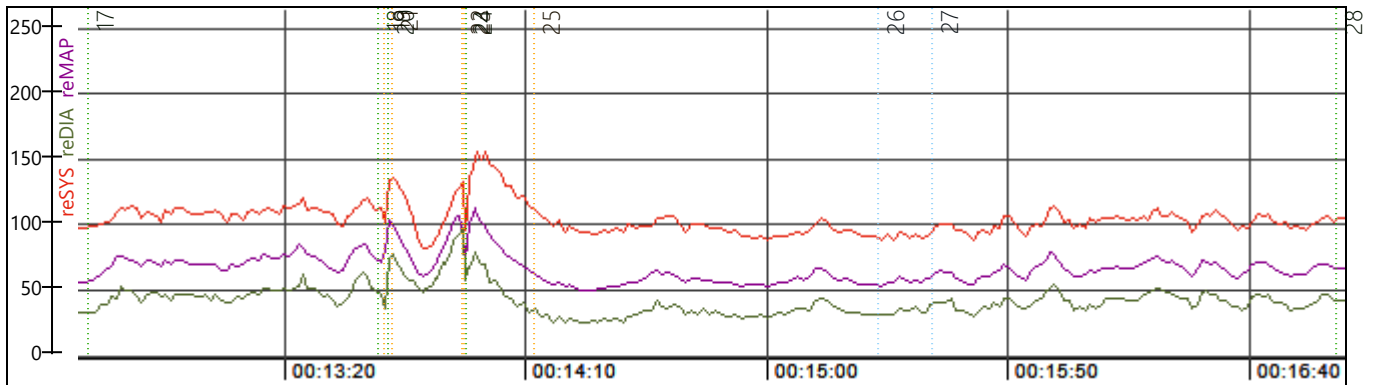
Index	Time	Type	Marker description
6	00:00:00.0	Protocol	VM1: Start Valsalva with 'Baseline'
7	00:01:00.1	Protocol	VM2: 'Valsalva target: 40 mmHg'
8	00:01:01.5	Auto	M Phase 1: Start
9	00:01:03.0	Protocol	VM: 'Start exhale'
10	00:01:04.8	Auto	M Phase 1: End
11	00:01:09.8	Operator	observation; valsalva normal test123
12	00:01:18.9	Auto	M Phase 2: End
13	00:01:20.0	Auto	M Phase 3: End
14	00:01:20.5	Protocol	VM3: 'Breathe normally'
15	00:01:38.8	Auto	M Phase 4: End
16	00:04:20.7	Protocol	VM4: Protocol done

Valsalva test 2 results

Valsalva Description	Baseline	Phase 1	Phase 2		Delta (Phase 2 - Phase 1)	Delta (Phase 2 late - Baseline)	Phase 3	Phase 4	Delta (Phase 4 - Baseline)
Duration	00:01:02.0	00:00:01.6	00:00:14.4		-	-	00:00:00.5	00:00:14.5	-
	<i>Average</i>	<i>Max</i>	<i>Min</i>	<i>Late max</i>	<i>Delta</i>	<i>Delta</i>	<i>Min</i>	<i>Max</i>	<i>Delta</i>
SBP	109	136	82	132	-54	23	96	156	47
MAP	73	104	60	107	-43	35	74	112	39
DBP	47	78	49	97	-29	50	58	78	31
Pulse pressure	62	66	31	38	-36	-25	35	91	29
	<i>Average</i>	<i>Min</i>	<i>Max</i>	<i>Late min</i>	<i>Delta</i>	<i>Delta</i>	<i>Max</i>	<i>Min</i>	<i>Delta</i>
HR	59	61	117	110	56	51	110	46	-13

Valsalva ratio	2.55	Pressure recovery time	00:00:00.5
-----------------------	------	-------------------------------	------------

Valsalva test 2 results graphs



Valsalva test 2 results markers

Index	Time	Type	Marker description
17	00:00:00.0	Protocol	VM1: Start Valsalva with 'Baseline'
18	00:01:00.0	Protocol	VM2: 'Valsalva target: 40 mmHg'
19	00:01:01.3	Auto	M Phase 1: Start
20	00:01:02.0	Protocol	VM: 'Start exhale'
21	00:01:02.9	Auto	M Phase 1: End
22	00:01:17.3	Auto	M Phase 2: End
23	00:01:17.8	Auto	M Phase 3: End
24	00:01:18.4	Protocol	VM3: 'Breathe normally'
25	00:01:32.4	Auto	M Phase 4: End
26	00:02:43.6	Operator	Pt reported headache during Valsalva test 1
27	00:02:55.1	Operator	tilt disease
28	00:04:18.7	Protocol	VM4: Protocol done

Stand test 1 results

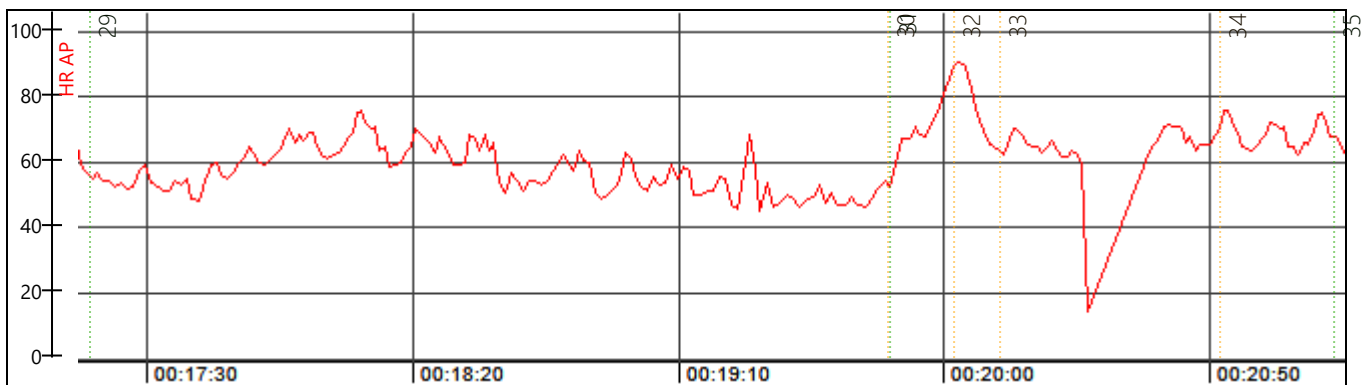
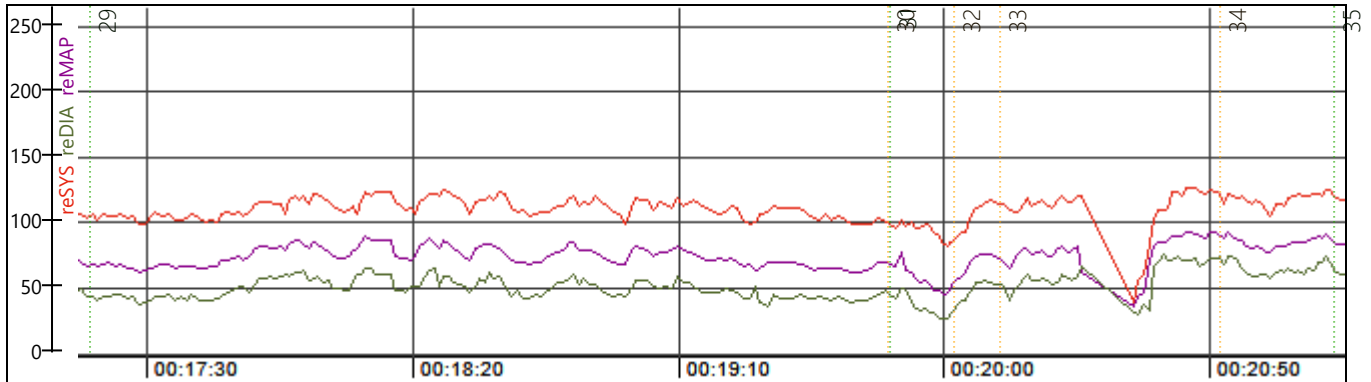
Stand At	Baseline Position:	At 30s stand	At 60s stand
Description			
Duration	02:30.7	00:02.0	00:02.0
HR	58	65	67
SBP	111	114	124
MAP	74	78	92
DBP	50	54	73

Stand Nadir	To Nadir	To Base
Description		
SBP	00:44.7	00:06.5
MAP	00:44.7	-
DBP	00:08.2	00:06.2

Stand Within	Within 15s stand	Delta (15s - baseline)
Description		
Duration	00:15.0	-
HR (max)	90	33
SBP (min)	82	-29
MAP (min)	46	-29
DBP (min)	26	-24

Stand HR (ECG)	HR parameters
Description	
RR at 15th beat	660
RR at 30th beat	910
30/15 ratio	1.38
HRmax - HRmin	28
HRR	21

Stand test 1 results graphs



Stand test 1 results markers

Index	Time	Type	Marker description
29	00:00:00.0	Protocol	SM1: Start Stand test with 'Baseline'
30	00:02:30.1	Auto	ArmCuff: Start
31	00:02:30.5	Protocol	SM1 Skipped; SM2: 'Stand up'
32	00:02:42.4	Auto	M Phase HRmax
33	00:02:51.1	Auto	M Phase HRmin
34	00:03:32.4	Auto	ArmCuff: 131/80
35	00:03:54.0	Protocol	SM3: User abort

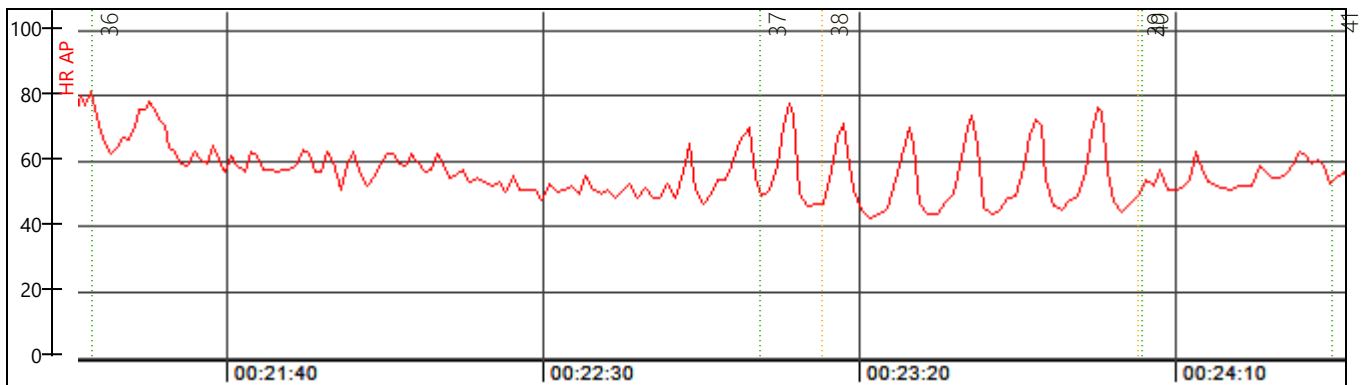
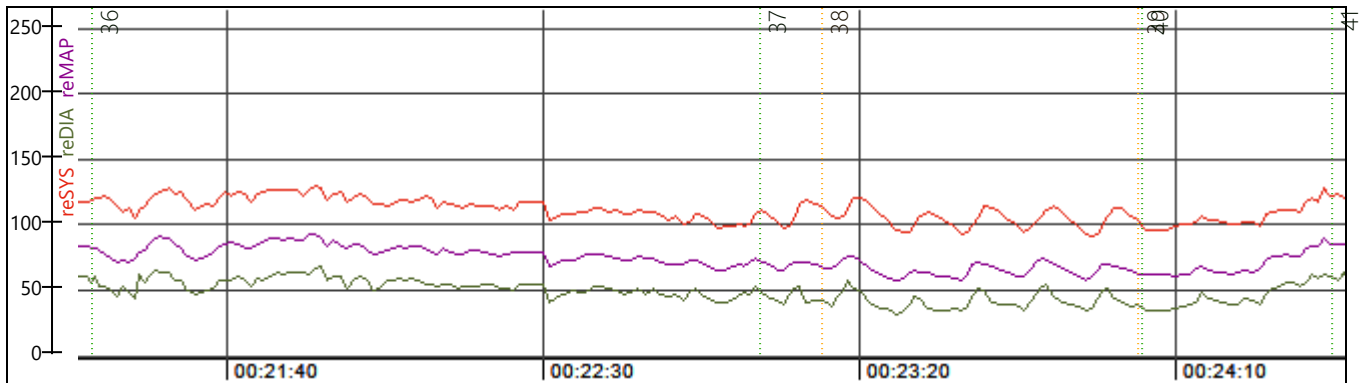
Deep breathing test 1 results

<i>Deep breathing</i>	Maximum (5 cycle average)	Minimum (5 cycle average)	Delta (5 cycle average)
Description			
Duration	00:00:50.0	00:00:50.0	-
HR	73	44	29
RR-interval	1351	823	528
SBP	114	95	19
MAP	72	58	13
DBP	52	34	18

E:I ratio	1.64
-----------	------

Set cycles: 6 Found cycles: 6 Calculated cycles: 5 with max average HR's

Deep breathing test 1 results graphs



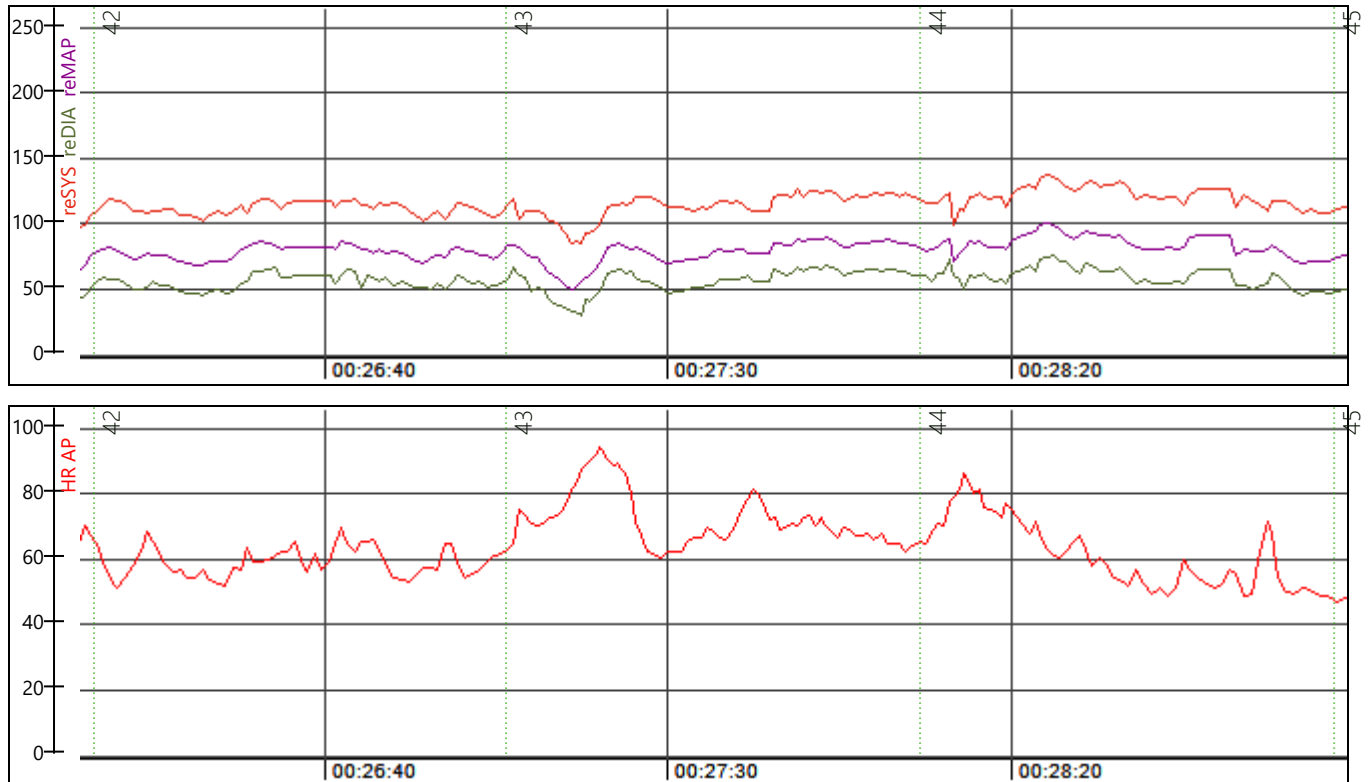
Deep breathing test 1 results markers

Index	Time	Type	Marker description
36	00:00:00.0	Protocol	DBM1: Start Deep Breathing test with 'Baseline'
37	00:01:45.6	Protocol	DBM1 Skipped; DBM2: 'Deep Breathing insp: 5s – exp: 5s'
38	00:01:55.6	Auto	M Phase start 5-cycle average
39	00:02:45.6	Auto	M Phase end 5-cycle average
40	00:02:46.1	Protocol	DBM3: 'Breathe normally'
41	00:03:16.3	Protocol	DBM4: Protocol done

Tilt table test 1 results

Tilt table	Tilt 1 baseline (0 degrees)	Tilt 2 (70 degrees)	Delta (tilt 2 - Baseline average)	Tilt 3 (0 degrees)	Delta (tilt 3 - Baseline average)	Delta (tilt 3 - tilt 2 average)
Description						
Duration	00:01:00.0	00:01:00.2	-	00:01:00.2	-	-
HR						
Average	59	73	14	62	3	-10
Maximum	69	94	35	86	27	13
Minimum	51	60	1	47	-12	-26
SBP						
Average	112	113	2	121	9	8
Maximum	119	126	14	138	26	24
Minimum	102	85	-27	99	-13	-15
MAP						
Average	78	77	-1	85	7	7
Maximum	87	89	11	100	22	23
Minimum	68	50	-28	70	-8	-7
DBP						
Average	55	56	1	60	5	4
Maximum	67	68	13	76	20	19
Minimum	45	30	-26	46	-10	-11

Tilt table test 1 results graphs



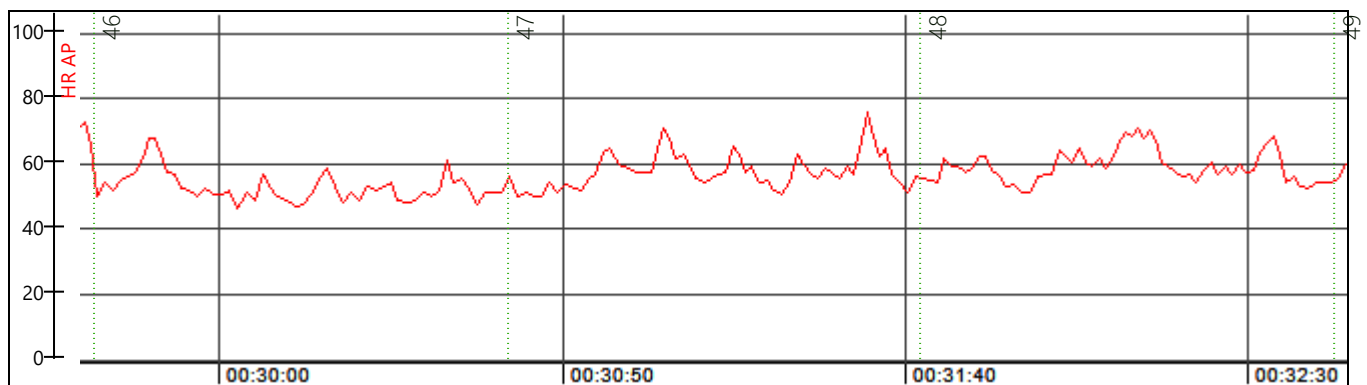
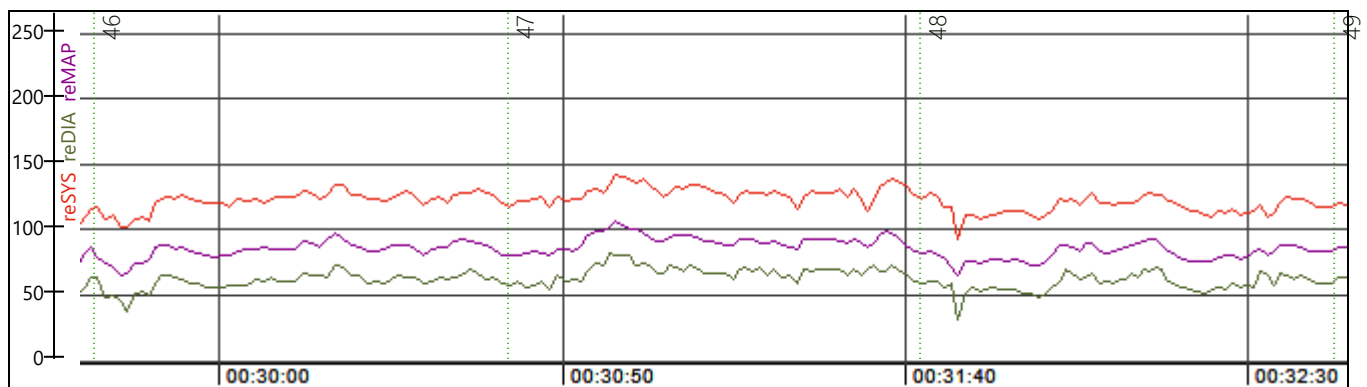
Tilt table test 1 results markers

Index	Time	Type	Marker description
42	00:00:00.0	Protocol	TTM1: Start Tile Table test with 'Tilt Table 1 target angle: 0 '
43	00:01:00.0	Protocol	TTM2: 'Tilt Table 2 target angle: 70 '
44	00:02:00.2	Protocol	TTM3: 'Tilt Table 3 target angle: 0 '
45	00:03:00.5	Protocol	TTM4: Protocol done

Cold pressor test 1 results

<i>Cold pressor</i>	Baseline	Cold pressor	Delta (Cold pressor - Baseline)	Post cold pressor	Delta (Post cold pressor - Baseline)
Description					
Duration	00:01:00.1	00:01:00.3	-	00:01:00.2	-
HR					
Average	53	58	5	59	6
SD	4.7	5.5	0.9	5	0.3
Maximum	67	75	8	71	3
Minimum	46	50	4	51	5
SBP					
Average	122	129	7	117	-5
SD	7.1	5.9	-1.2	6.4	-0.7
Maximum	135	142	7	128	-7
Minimum	102	114	12	93	-9
MAP					
Average	84	92	7	82	-3
SD	6.2	5.8	-0.4	5.9	-0.3
Maximum	97	106	9	94	-4
Minimum	65	80	16	65	1
DBP					
Average	60	68	8	59	-1
SD	6.3	5.9	-0.5	6.7	0.4
Maximum	73	82	9	72	-1
Minimum	37	55	18	31	-6

Cold pressor test 1 results graphs



Patient name: dkp Reference: Procedure:

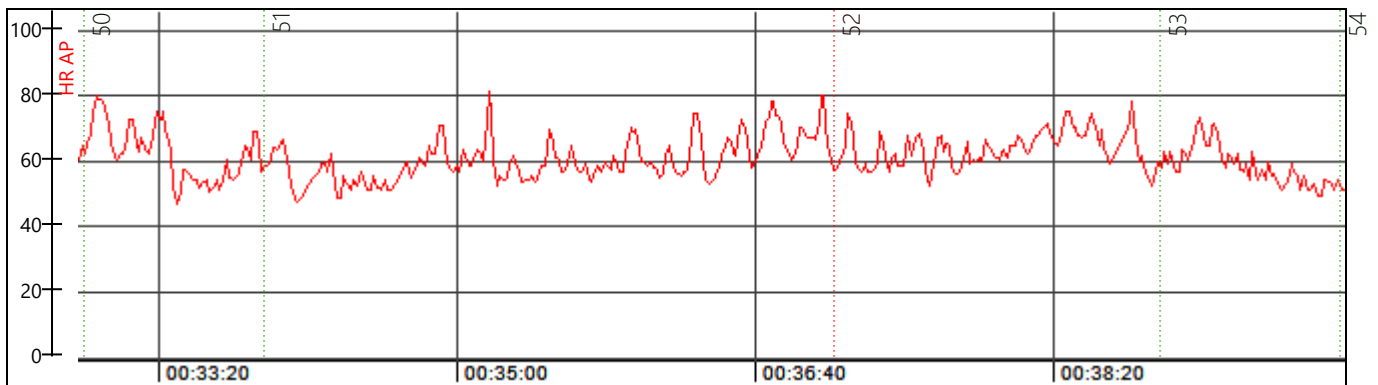
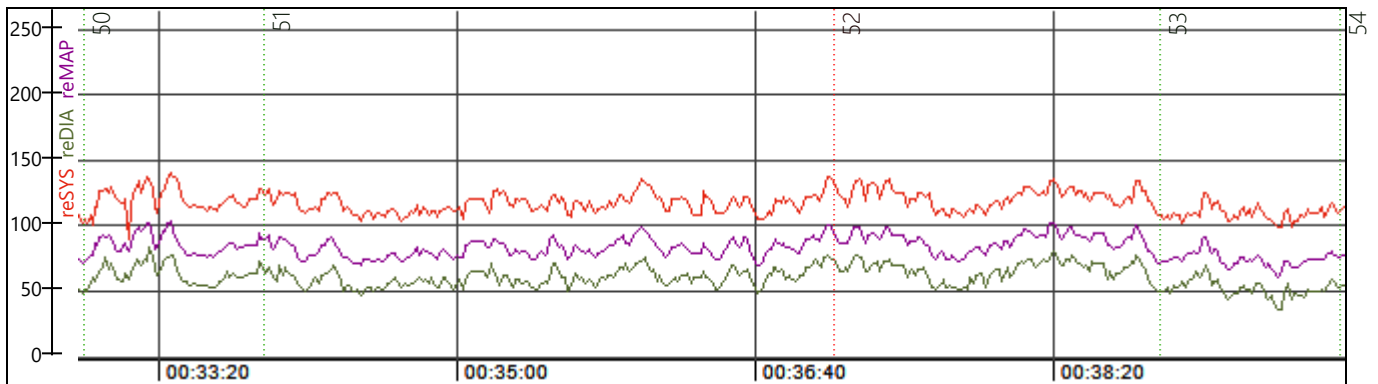
Cold pressor test 1 results markers

Index	Time	Type	Marker description
46	00:00:00.0	Protocol	CPM1: Start Cold Pressor test with 'Baseline'
47	00:01:00.1	Protocol	CPM2: 'Cold Pressor'
48	00:02:00.4	Protocol	CPM3: 'Remove hand'
49	00:03:00.7	Protocol	CPM4: Protocol done

Drug administration test 1 results

Drug administration Description	Baseline	Administration caffeine	Delta (Admin - Baseline)	Response	Delta (Response - Baseline)
Duration	00:01:00.0	00:05:00.2	-	00:01:00.2	-
HR					
Average ± SD	63 ± 8.5	62 ± 6.5	-1	59 ± 6.1	-5
Range (min-max)	47 - 80	47 - 81	1 & 2	49 - 73	2 & - 7
SBP					
Average ± SD	121 ± 9.5	119 ± 7.6	-2	110 ± 5.8	-11
Range (min-max)	89 - 141	104 - 138	15 & - 3	98 - 126	9 & - 15
MAP					
Average ± SD	87 ± 7.5	85 ± 7.4	-2	75 ± 5.8	-12
Range (min-max)	75 - 104	70 - 102	- 4 & - 1	61 - 92	- 14 & - 12
DBP					
Average ± SD	64 ± 7.7	63 ± 7.4	-1	52 ± 6.5	-12
Range (min-max)	49 - 83	47 - 81	- 2 & - 3	37 - 69	- 13 & - 14

Drug administration test 1 results graphs



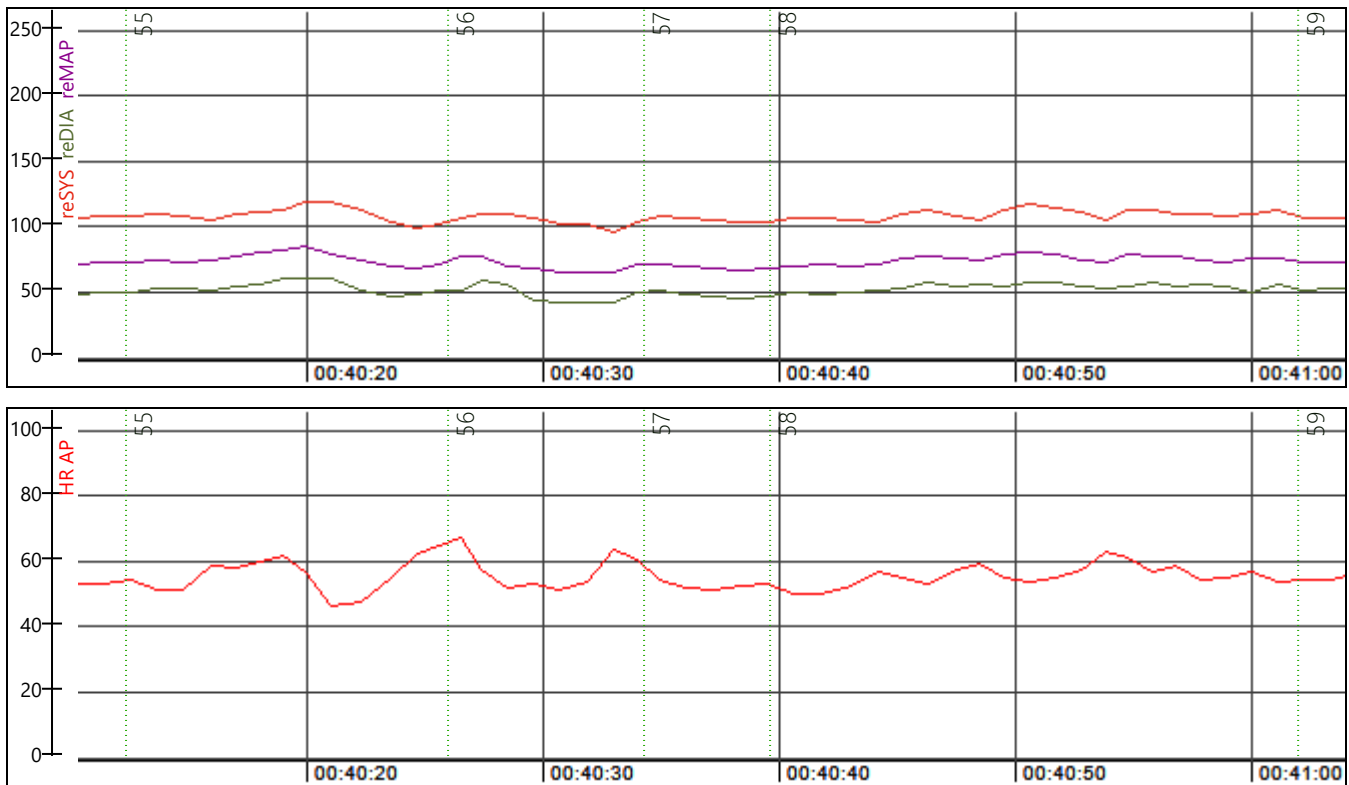
Drug administration test 1 results markers

Index	Time	Type	Marker description
50	00:00:00.0	Protocol	DAM1: Start Drugs Administration test with 'Baseline'
51	00:01:00.0	Protocol	DAM2: 'Drugs Administration of: caffeine '
52	00:04:11.3	Physician	user test marker
53	00:06:00.3	Protocol	DAM3: 'Response'
54	00:07:00.5	Protocol	DAM4: Protocol done

Carotid sinus massage test 1 results

<i>Sinus carotid massage</i>	Baseline		Message left	Delta (Message left - Baseline)
Description				
Duration	00:00:13.5		00:00:05.3	-
HR	56	Min:	51	-4
RR-interval	1075	Max:	1154	79
SBP	109	Min:	103	-6
MAP	75	Min:	67	-9
DBP	54	Min:	46	-8

Carotid sinus massage test 1 results graphs



Carotid sinus massage test 1 results markers

Index	Time	Type	Marker description
55	00:00:00.0	Protocol	CSM1: Start Carotid Sinus Massage test with 'Baseline'
56	00:00:13.6	Protocol	CSM1 Skipped; CSM2: 'Caution'
57	00:00:21.9	Protocol	CSM3: 'Massage left'
58	00:00:27.2	Protocol	CSM4: 'Relax'
59	00:00:49.6	Protocol	CSM4 Skipped; CSM5: Protocol done

Measurement overview

