



Test 3 Patient

Born: 6.7.1982(Female 27)
Test Date: 6.7.2009 10:53:34, PCM: not present

BTL Doctor, BTL Cardiology



Patient info

Sex: Female
Weight:
Height:
Smoker:
Pacemaker: not present

Recording info

Start: 6.7.2009, 10:53
End: 6.7.2009, 19:37
Duration: 08:44
Leads: 7
Signal Quality: 100%

Operating Staff

Physician: Test Doctor
Technician:

Medications

Reason for Admission

Medical history

Conclusion

Heart Rate		
Beats total	32 983	(0% paced)
HR max / min	138 / 46 bpm	
HR Avg	Ø 63 bpm	
Sinus HR Max / Min	138 / 46 bpm	
HR Avg (Awake/Sleep)	63 / - bpm	
Circadian Index	-	
Tachy / Brady	1 % / 28 %	
Pauses		
RR Max	1 736 ms	
Pauses (>2000ms)	0	
Atrial Fibrillation / Flutter		
AF Total	8	(4%)
AF HR Max	96 bpm	
AF Longest	Ø 80 bpm	00:06:24
Bradycardia		
Slowest	Ø 51 bpm	00:02:00
Longest	Ø 53 bpm	00:15:32
ST		
ST Elevation Max	0,08 mV	I
ST Depression Max	-0,09 mV	aVR

Ventricular Ectopy		
V Total	2031	(6%)
V / Hour Max	411	per hour
V Tach Episodes	-	
V Tach Fastest	-	
V Sequence Longest	Ø 127 bpm	0 sec
Triplets/Runs	0	Σ 0 beats
Couplets	18	Σ 36 beats
Bigeminy	308	Σ 695 beats
Trigeminy	64	Σ 164 beats
Supraventricular Ectopy		
S All	0	(< 1%)
SV Tach Episodes	-	
SV Tach Fastest	-	
S Sequence Longest	-	
Triplets/Runs	0	Σ 0 beats
Couplets	0	Σ 0 beats

Medical Findings

Sample report



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2	Bradycardias		First 5 episodes with avg HR < 55 bpm			
Begin at	Rhythm	HR Avg	HR Min	HR Max	Duration	
(1) 17:47:44	Bradycardia	51	47	56	00:02:00	
(1) 16:41:22	Bradycardia	52	48	56	00:02:00	
(1) 17:52:26	Bradycardia	52	46	58	00:10:22	
(1) 19:05:02	Bradycardia	52	52	52	00:00:12	
(1) 18:11:24	Bradycardia	52	47	57	00:07:06	

3	Tachycardias		First 5 episodes with avg HR > 108 bpm			
Begin at	Rhythm	HR Avg	HR Min	HR Max	Duration	
(1) 15:05:04	Tachycardia	122	109	138	00:01:24	
(1) 13:19:34	Tachycardia	110	109	114	00:00:26	
(1) 18:55:10	Tachycardia	110	108	113	00:00:48	
(1) 16:06:44	Tachycardia	110	110	115	00:00:22	
(1) 15:11:14	Tachycardia	109	101	118	00:00:48	

4	V Sequence		5 longest sequences			
Begin at	Rhythm	HR Avg	HR Min	HR Max	Duration	
(1) 11:16:04	2 x V	127	-	-	00:00:00	
(1) 11:21:33	2 x V	140	-	-	00:00:00	
(1) 11:21:36	2 x V	150	-	-	00:00:00	
(1) 11:26:56	2 x V	152	-	-	00:00:00	
(1) 12:07:21	2 x V	146	-	-	00:00:00	

5	S Sequence		5 longest sequences			
Begin at	Rhythm	HR Avg	HR Min	HR Max	Duration	

6	V Tach episodes		All episodes with avg HR > 108 bpm			
Begin at	Rhythm	HR Avg	HR Min	HR Max	Duration	



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7		Ectopies					V runs contains less than 5 beats. S runs contains less than 20 beats.																		
Interval		TOTAL	act.	HR[bpm]			V Beats					V Patterns			S Beats					S Patterns			Pause	Button	
From	Dur.	Beats	[%]	Min	Avg	Max	Σ	Singles	Bi	Tri	Quad	Coupl	Tripl	Run	Σ	Singles	Bi	Tri	Quad	Coupl	Tripl	Run			
(1) 10:53	00:06	525	21,00	72	82	96	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1) 11:00	01:00	3730	5,00	50	62	101	221	94	3	30	26	4	0	0	0	0	0	0	0	0	0	0	0	0	
(1) 12:00	01:00	4184	10,00	55	70	113	100	64	11	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	
(1) 13:00	01:00	4220	9,00	56	70	114	138	60	31	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
(1) 14:00	01:00	3972	4,00	57	66	95	104	31	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1) 15:00	01:00	3973	7,00	53	66	138	207	70	60	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	
(1) 16:00	01:00	3502	4,00	47	58	115	411	156	104	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1) 17:00	01:00	3244	3,00	46	54	77	380	235	36	1	25	0	0	0	0	0	0	0	0	0	0	0	0	0	
(1) 18:00	01:00	3440	6,00	46	57	113	358	169	14	32	39	1	0	0	0	0	0	0	0	0	0	0	0	0	
(1) 19:00	00:37	2193	7,00	49	61	116	111	73	14	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	
Sleep	00:00	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Awake	08:44	32983	6,00	46	63	138	2031	953	308	64	97	18	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	08:44	32983	6,00	46	63	138	2031	953	308	64	97	18	0	0	0	0	0	0	0	0	0	0	0	0	

8		Basal rhythms					Bradycardia limit = 55 [bpm]; Tachycardia limit = 108 [bpm]											
Interval		TOTAL	Bradycardia			Normal			Tachycardia			Not analysed						
From	Dur.	Beats	Duration	%	HR	Duration	%	HR	Duration	%	HR	Duration	%					
(1) 10:53	00:06	525	00:00:00	0	-	00:06:26	100	82	00:00:00	0	-	00:00:00	0					
(1) 11:00	01:00	3730	00:13:26	22	54	00:46:34	78	65	00:00:00	0	-	00:00:00	0					
(1) 12:00	01:00	4184	00:00:00	0	-	00:59:36	> 99	70	00:00:24	< 1	108	00:00:00	0					
(1) 13:00	01:00	4220	00:00:00	0	-	00:59:34	> 99	70	00:00:26	< 1	110	00:00:00	0					
(1) 14:00	01:00	3972	00:00:00	0	-	01:00:00	100	66	00:00:00	0	-	00:00:00	0					
(1) 15:00	01:00	3973	00:00:16	< 1	54	00:57:16	95	64	00:02:28	4	116	00:00:00	0					
(1) 16:00	01:00	3502	00:22:48	38	54	00:36:30	61	60	00:00:42	1	108	00:00:00	0					
(1) 17:00	01:00	3244	00:51:54	87	53	00:08:06	14	60	00:00:00	0	-	00:00:00	0					
(1) 18:00	01:00	3440	00:43:58	73	53	00:15:14	25	68	00:00:48	1	110	00:00:00	0					
(1) 19:00	00:37	2193	00:14:12	38	54	00:21:22	57	64	00:00:40	2	108	00:01:30	4					
Sleep	00:00	0	00:00:00	-	-	00:00:00	-	-	00:00:00	-	-	00:00:00	-					
Awake	08:44	32983	02:26:34	28	53	06:10:38	71	66	00:05:28	1	112	00:01:30	< 1					
TOTAL	08:44	32983	02:26:34	28	53	06:10:38	71	66	00:05:28	1	112	00:01:30	< 1					



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9		Beat measurement		QTc is corrected by Bazett method										
Interval		TOTAL	HR[bpm] Ø12 sec.			PQ[ms] Ø30 sec.			QT[ms] Ø30 sec.			QTc[ms] Ø30 sec.		
From	Dur.	Beats	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max
(1) 10:53	00:06	525	72	82	96	176	189	224	387	400	416	453	468	482
(1) 11:00	01:00	3730	50	62	101	175	195	210	386	438	463	371	442	520
(1) 12:00	01:00	4184	55	70	113	157	197	224	377	418	447	418	449	526
(1) 13:00	01:00	4220	56	70	114	156	194	229	377	423	447	406	455	529
(1) 14:00	01:00	3972	57	66	95	173	195	218	361	429	442	403	449	493
(1) 15:00	01:00	3973	53	66	138	143	193	224	381	433	457	409	450	564
(1) 16:00	01:00	3502	47	58	115	172	194	203	413	448	483	396	438	523
(1) 17:00	01:00	3244	46	54	77	188	199	205	416	463	488	380	434	496
(1) 18:00	01:00	3440	46	57	113	150	197	212	381	454	487	354	436	512
(1) 19:00	00:37	2193	49	61	116	156	194	214	389	452	484	416	450	528
Sleep	00:00	0	-	-	-	-	-	-	-	-	-	-	-	-
Awake	08:44	32983	46	63	138	143	195	229	361	439	488	354	445	564
TOTAL	08:44	32983	46	63	138	143	195	229	361	439	488	354	445	564

10		Heart Rate Variability																	
Interval		TOTAL	Accepted	NN coun	NNN coun	SDNN	TI	TINN	SDANN	rMSSD	NN(50)	pNN(50)	LI-PHI	NNDifAvg	LF/HF	LF	HF	CCVLF	CCVHF
From	Dur.	Beats				ms	[-]	ms	ms	ms	[-]	[%]	[-]	ms	[-]	[ms]	[ms]	[%]	[%]
(1) 10:53	00:06	525	273	270	267	64	16	328	30	32	6	2,22	0,05	-	2,11	0,15	0,07	0,02	0,01
(1) 11:00	01:00	3730	3477	3260	3046	139	40	784	102	62	835	25,61	0,02	-	0,29	0,59	2,01	0,06	0,21
(1) 12:00	01:00	4184	3203	3114	3035	109	31	632	78	41	513	16,47	0,02	-	0,46	0,48	1,04	0,05	0,11
(1) 13:00	01:00	4220	3569	3432	3340	119	28	624	85	37	419	12,21	0,03	-	0,45	0,48	1,05	0,05	0,11
(1) 14:00	01:00	3972	3868	3764	3698	81	15	456	44	31	310	8,24	0,03	-	0,44	0,39	0,89	0,04	0,09
(1) 15:00	01:00	3973	3734	3529	3395	158	21	664	114	40	402	11,39	0,03	-	0,39	0,49	1,28	0,05	0,13
(1) 16:00	01:00	3502	3091	2680	2417	144	30	728	73	50	653	24,37	0,02	-	0,33	0,67	2,05	0,07	0,22
(1) 17:00	01:00	3244	2864	2484	2146	95	24	592	42	59	751	30,23	0,02	-	0,27	0,70	2,60	0,07	0,27
(1) 18:00	01:00	3440	3057	2699	2357	194	35	808	140	61	713	26,42	0,02	-	0,24	0,66	2,76	0,07	0,29
(1) 19:00	00:37	2193	2081	1972	1877	171	33	752	140	66	732	37,12	0,02	-	0,38	0,47	1,24	0,05	0,13
Sleep	00:00	0	0	0	0	0	0	0	0	0	0	0,00	0,00	0	0,00	0,00	0,00	0,00	0,00
Awake	08:44	32983	29217	27204	25578	160	44	888	128	49	5334	19,61	0,03	-	0,38	0,55	1,66	0,06	0,17
TOTAL	08:44	32983	29217	27204	25578	160	44	888	128	49	5334	19,61	0,03	-	0,38	0,55	1,66	0,06	0,17



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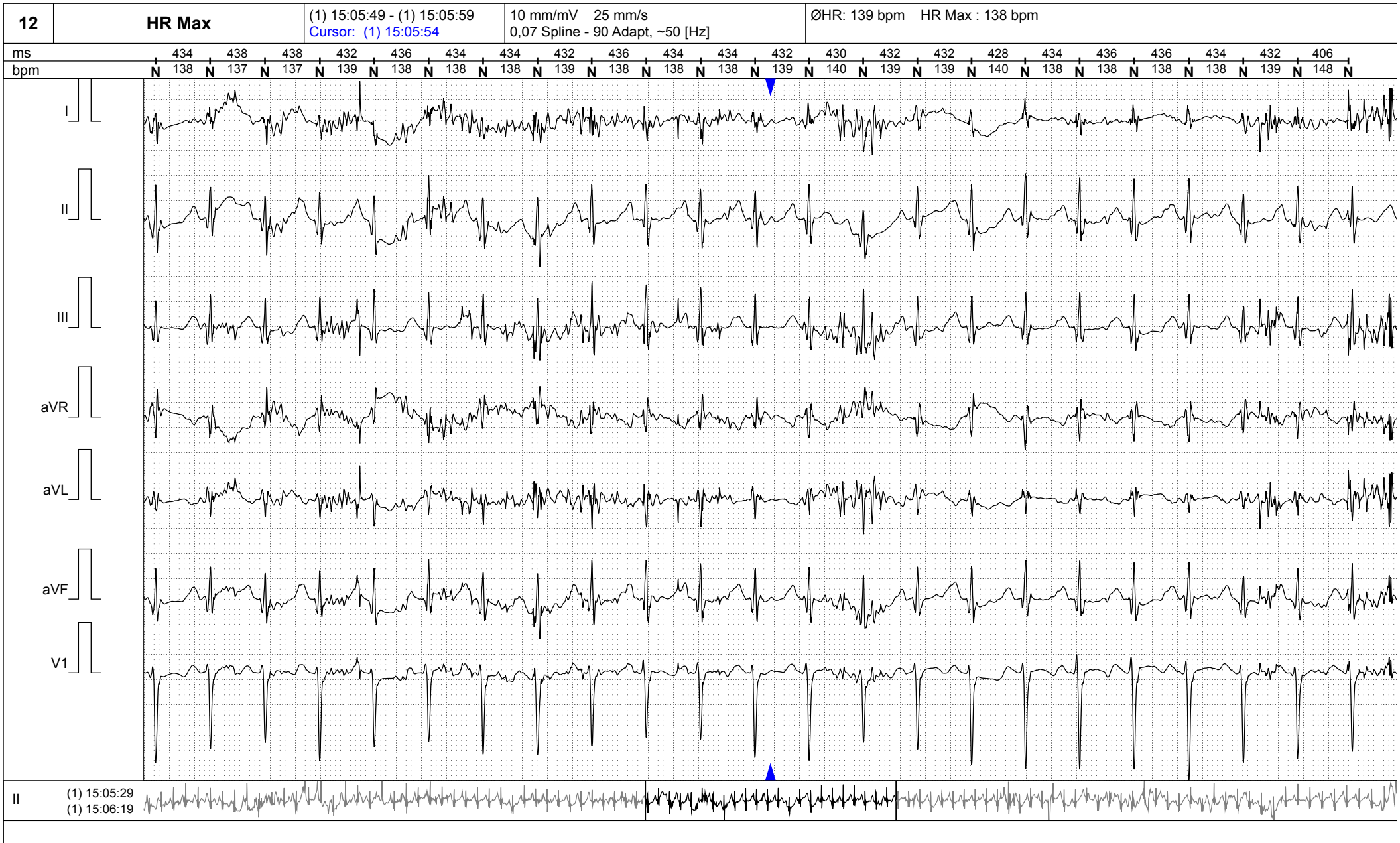
11	ST denivelation		ST level extremes in [mV], 1 / 8 RR, 30 sec median													
			I		II		III		aVR		aVL		aVF		V1	
			+	-	+	-	+	-	+	-	+	-	+	-	+	-
	Interval	Dur.														
	From	Dur.	+	-	+	-	+	-	+	-	+	-	+	-	+	-
	(1) 10:53	00:06	0,02	-	0,02	-	0,01	-0,01	0,01	-0,02	0,02	-	0,02	-0,02	0,04	-
	(1) 11:00	01:00	0,03	-0,01	0,04	-0,01	0,02	-0,02	0,00	-0,03	0,02	-0,01	0,03	-0,02	0,05	-
	(1) 12:00	01:00	0,03	-0,01	0,03	-0,08	0,02	-0,06	0,05	-0,03	0,03	-0,01	0,02	-0,05	0,06	-
	(1) 13:00	01:00	0,03	-0,01	0,04	-0,06	0,03	-0,07	0,02	-0,03	0,04	-0,02	0,03	-0,08	0,07	-
	(1) 14:00	01:00	0,02	-0,01	0,04	-0,03	0,03	-0,02	0,03	-0,03	0,01	-0,01	0,04	-0,02	0,04	-
	(1) 15:00	01:00	0,03	-0,05	0,05	-0,05	0,03	-0,05	0,05	-0,03	0,03	-0,01	0,04	-0,06	0,06	-
	(1) 16:00	01:00	0,03	-	0,03	-0,01	0,01	-0,02	0,01	-0,03	0,03	0,00	0,02	-0,03	0,05	-
	(1) 17:00	01:00	0,03	-	0,04	-	0,02	-0,01	-	-0,03	0,02	-	0,03	-	0,05	-
	(1) 18:00	01:00	0,03	-	0,05	-0,01	0,02	-0,01	0,00	-0,03	0,02	0,00	0,03	-0,01	0,04	-
	(1) 19:00	00:37	0,08	-0,01	0,06	-0,01	0,01	-0,03	0,02	-0,09	0,06	0,00	0,02	-0,02	0,04	-
	Sleep	00:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Awake	08:44	0,08	-0,05	0,06	-0,08	0,03	-0,07	0,05	-0,09	0,06	-0,02	0,04	-0,08	0,07	-
	TOTAL	08:44	0,08	-0,05	0,06	-0,08	0,03	-0,07	0,05	-0,09	0,06	-0,02	0,04	-0,08	0,07	-



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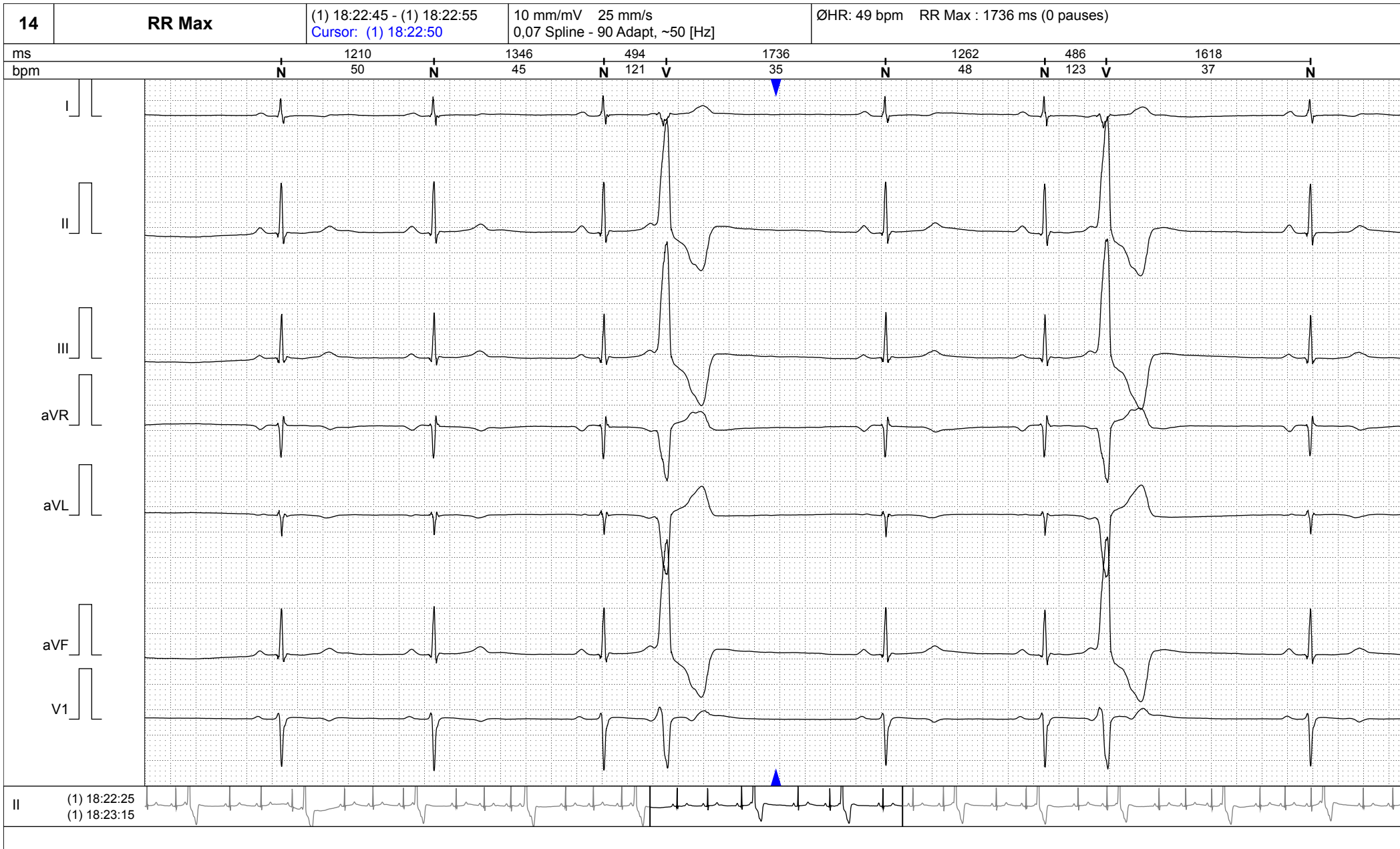




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II (1) 18:22:25
(1) 18:23:15



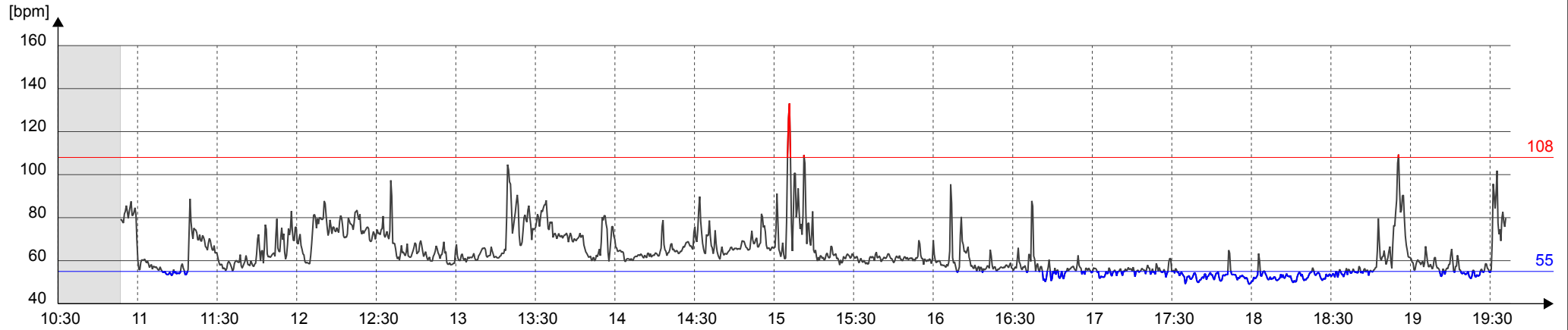
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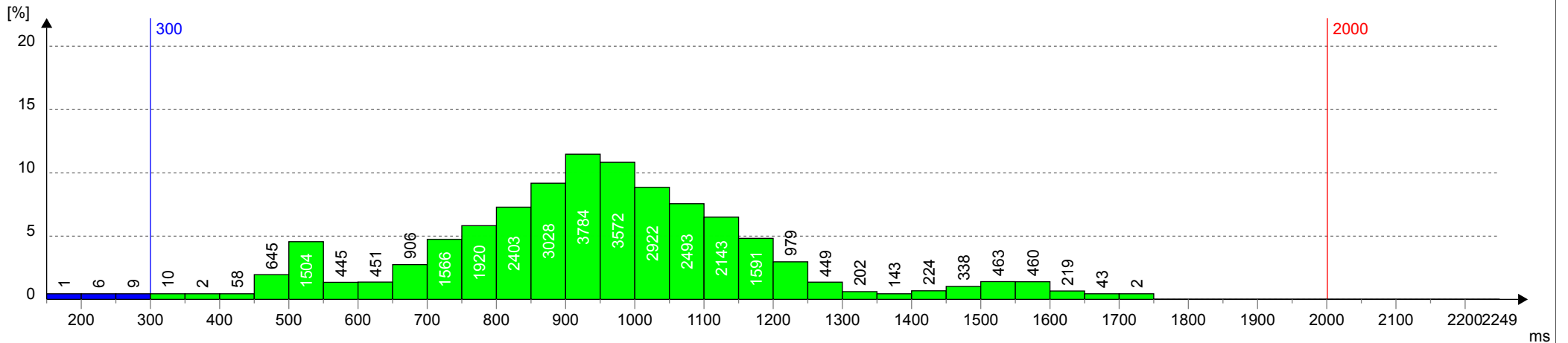
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15 Trend HR



16 Histogram RR





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Histogram HR

