

 **James Bond**
Important

Date of Birth
28 Jun 1947
(74 yrs)

Gender
Male

Examination Time
15 Jul 2021 16:26:37 to
20 Jul 2021 16:26:36
4d 23h 59m

Uploaded by
Cardio.AI Support

Technician
Cardio.AI Support

Lead Configuration
I, II

Severity

Problem Area	Severity	Description
General		
Automatism	 Important	Sinus Arrhythmia, Second Degree SA Block Type I, Asystole
Excitability	 OK	
Conductivity	 Moderate	First Degree AV Block, Second Degree AV Block Type I
Pre-excitation	 OK	
HRV	 Low	RMSSD, PNN50
Ectopy		
Supraventricular	 OK	
Ventricular	 OK	
Tachycardia	 Important	Multifocal Atrial Tachycardia
Fibrillation/Flutter	 OK	
STEMI		
ST depression/elevation	 OK	
T-wave	 OK	
PQRST		
PQ interval/segment	 Low	Abnormal PQ
QRS complex	 OK	
QTc interval	 OK	

Heart Rate (sinus)

BPM	Total Beats	505,451
	Max	128 18 Jul 21:26:25
	Avg	71
	Min	46 17 Jul 05:01:03

Table of Intervals (sinus)

	Max (ms)	Avg (ms)	Min (ms)
PQi	273	223	171
QT	408	381	356
QTc	411	402	395

ST-segment (sinus)

	Max (mV)	Min (mV)	Dur	T-wave
I	0.05	-0.01	-	
II	0.03	-0.02	-	

Atrial				
Beats	Event			Beats
	Atrial Premature Contraction			358 (0.07%)
	Non-Conducted P-Wave (Blocked)			8 (0%)
	Aberrated Atrial Premature (Ashman) Beat			3 (0%)
Rhythm	Event	Episodes	Dur	Beats
	Multifocal Atrial Tachycardia	3	-	14 (0%)
	Atrial Couplet	21	-	42 (0.01%)
	Atrial Triplet	6	-	18 (0%)
TOTAL		30	39s	443 (0.09%)
Ventricular				
Beats	Event			Beats
	Ventricular Premature Contraction			25 (0%)
TOTAL		25 (0%)		
Narrative summary				

Block				
Rhythm	Event	Episodes	Dur	Beats
	First Degree AV Block	1966	2d 9h 6m	216481 (42.78%)
	Second Degree AV Block Type I	4	-	4 (0%)
	Second Degree SA Block Type I	82	2m 19s	82 (0.02%)
	Asystole	8	-	8 (0%)
TOTAL		2060	2d 9h 8m	216575 (42.8%)

Monitoring started at **15 Jul 2021 16:26:37** and continued for **4d 23h 59m**. During the whole examination time the **average** heart rate was 71 beats/min. The **minimal** heart rate was 46 beats/min and was recorded at 17 Jul 05:01:03. **Maximum** heart rate was 128 beats/min and was registered at 18 Jul 21:26:25.

Maximum R-R interval on **sinus rhythm** was 1583 ms, recorded at 18 Jul 09:02:51.

Maximum pause on **all beats** (including ectopic) was 3137 ms, recorded at 15 Jul 22:28:18.

Atrial ectopic events consisted of 440 beats (0.09% of total). With the following beats count: **Couplets** – 42; **Triplets** – 18; **APC** – 358; **Ashman** – 3; **Non-conducting P-waves** – 8. **Multifocal atrial tachycardia** consisted of 14 beats with maximum duration of 3s observed at 19 Jul 16:27:23 (maximum BPM 98 beats/min). Maximum heart rate of 98 beats/min. observed at 19 Jul 16:27:23 on group consisted of 6 beats.

Ventricular ectopic events consisted of 25 beats (0.00% of total). With the following beats count: **VPC** – 25.

Blocks consisted of 216,497 beats (42.79% of total). Detected failures of SA/AV conduction: **2nd degree SA block** type I – 82; **Asystole** – 8; **1st degree AV block** – 216,481; **2nd degree AV block** type I – 4.

PR metrics: **average PQ Interval** – 221 ms; **minimum PQ Interval** (on minimum BPM) – 274 ms registered at 17 Jul 05:01:03; **average PQ Segment** – 127 ms; **minimum PQ Segment** (on minimum BPM) – 174 ms registered at 17 Jul 05:01:03.

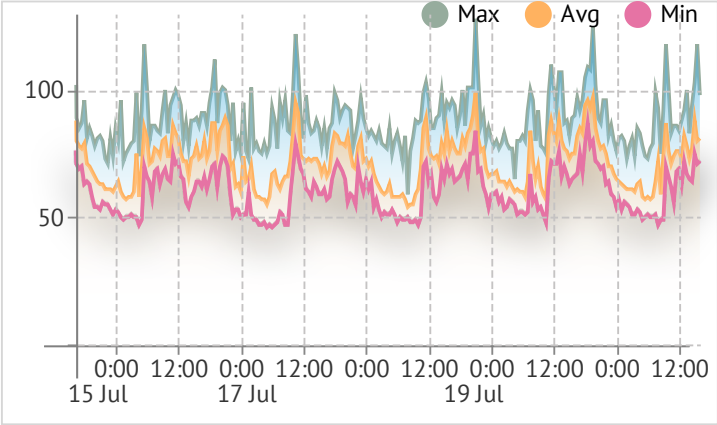
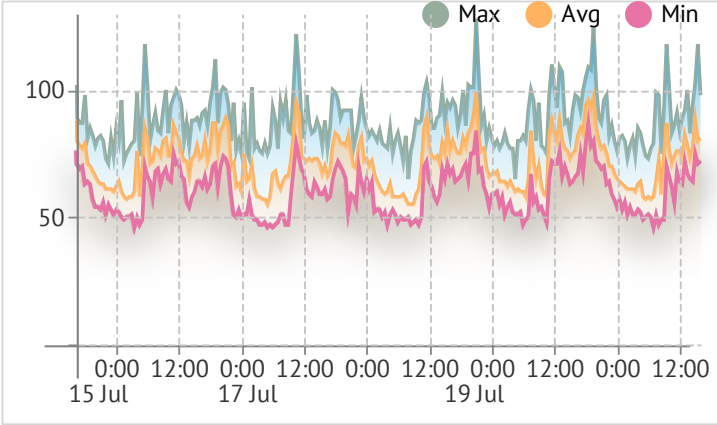
QRS/QT metrics: **average QRS** interval – 82 ms; **maximum QRS** interval (on maximum BPM) – 79 ms registered at 18 Jul 21:26:25; **minimum QRS** interval (on minimum BPM) – 81 ms registered at 17 Jul 05:01:03; **average QT** interval – 380 ms; **maximum QT** interval (on maximum BPM) – 322 ms registered at 18 Jul 21:26:25; **minimum QT** interval (on minimum BPM) – 409 ms registered at 17 Jul 05:01:03; **average QTc** interval – 402 ms; **maximum QTc** interval (on maximum BPM) – 403 ms registered at 18 Jul 21:26:25; **minimum QTc** interval (on minimum BPM) – 369 ms registered at 17 Jul 05:01:03.

Heart Rate

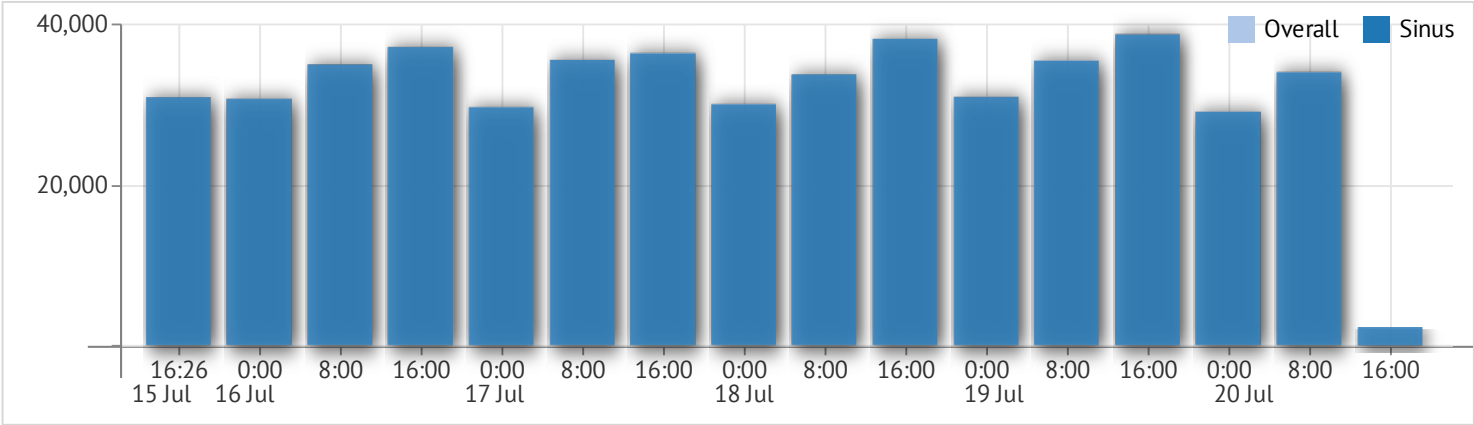
	Overall Beats (BPM)				Sinus Beats (BPM)			
	Min	Avg	Max	Max R-R	Min	Avg	Max	Max R-R
15 Jul								
16:26	51	69	102	3137	51	69	102	1286
16 Jul								
0:00	46	67	118	1960	47	67	118	1394
8:00	54	76	100	1463	54	76	100	1234
16:00	50	77	112	1777	51	77	112	1349
17 Jul								
0:00	46	62	101	2074	46	62	101	1486
8:00	47	74	122	1983	47	74	122	1491
16:00	52	76	100	1537	55	76	99	1263
18 Jul								
0:00	47	62	85	2023	48	62	85	1571
8:00	47	71	103	2126	47	71	103	1583
16:00	54	79	128	1269	54	79	128	1217
19 Jul								
0:00	47	64	100	2200	51	64	100	1560
8:00	48	74	110	1503	48	74	110	1343
16:00	57	82	125	1749	58	82	125	1286
20 Jul								
0:00	46	61	99	3137	49	61	99	1389
8:00	47	76	118	1811	47	76	118	1400
16:00	72	81	98	1091	72	81	98	903
TOTAL	46	71	128	3137	46	71	128	1583

Overall Beats (BPM)

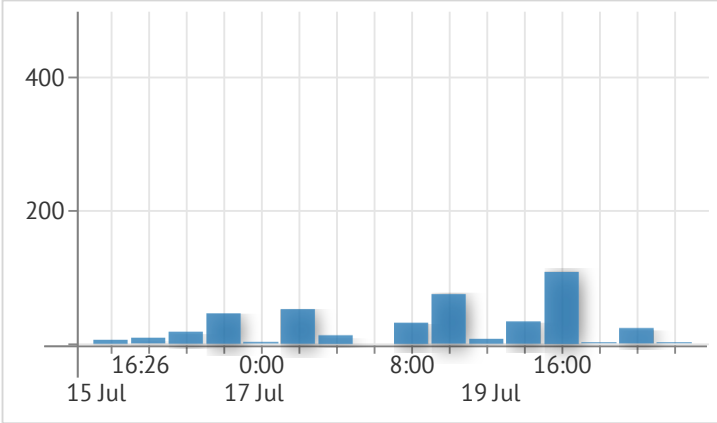
Sinus Beats (BPM)



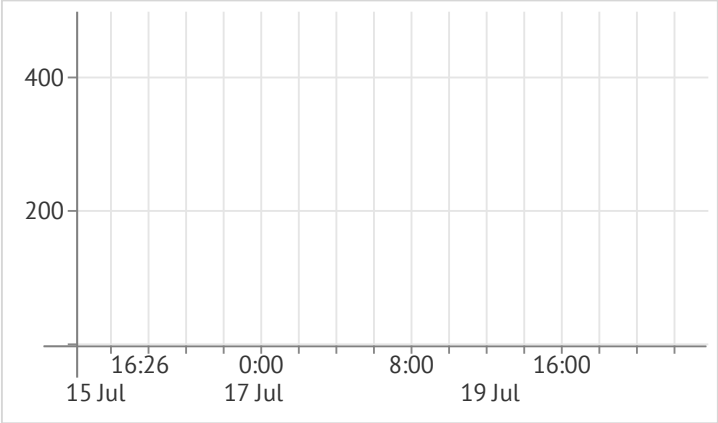
Overall and Sinus Beats Count



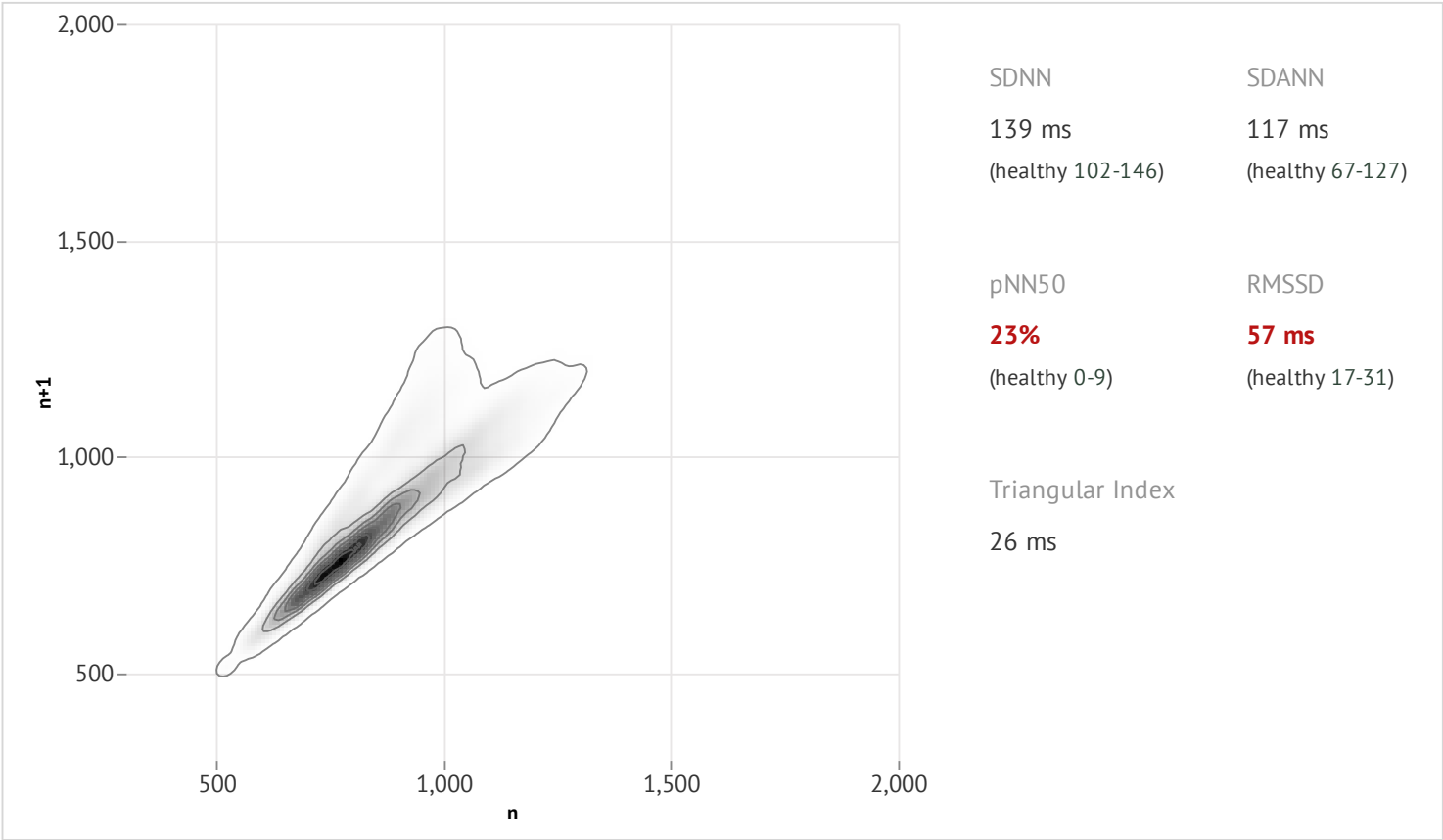
Sinus Tachycardia Duration (minutes)



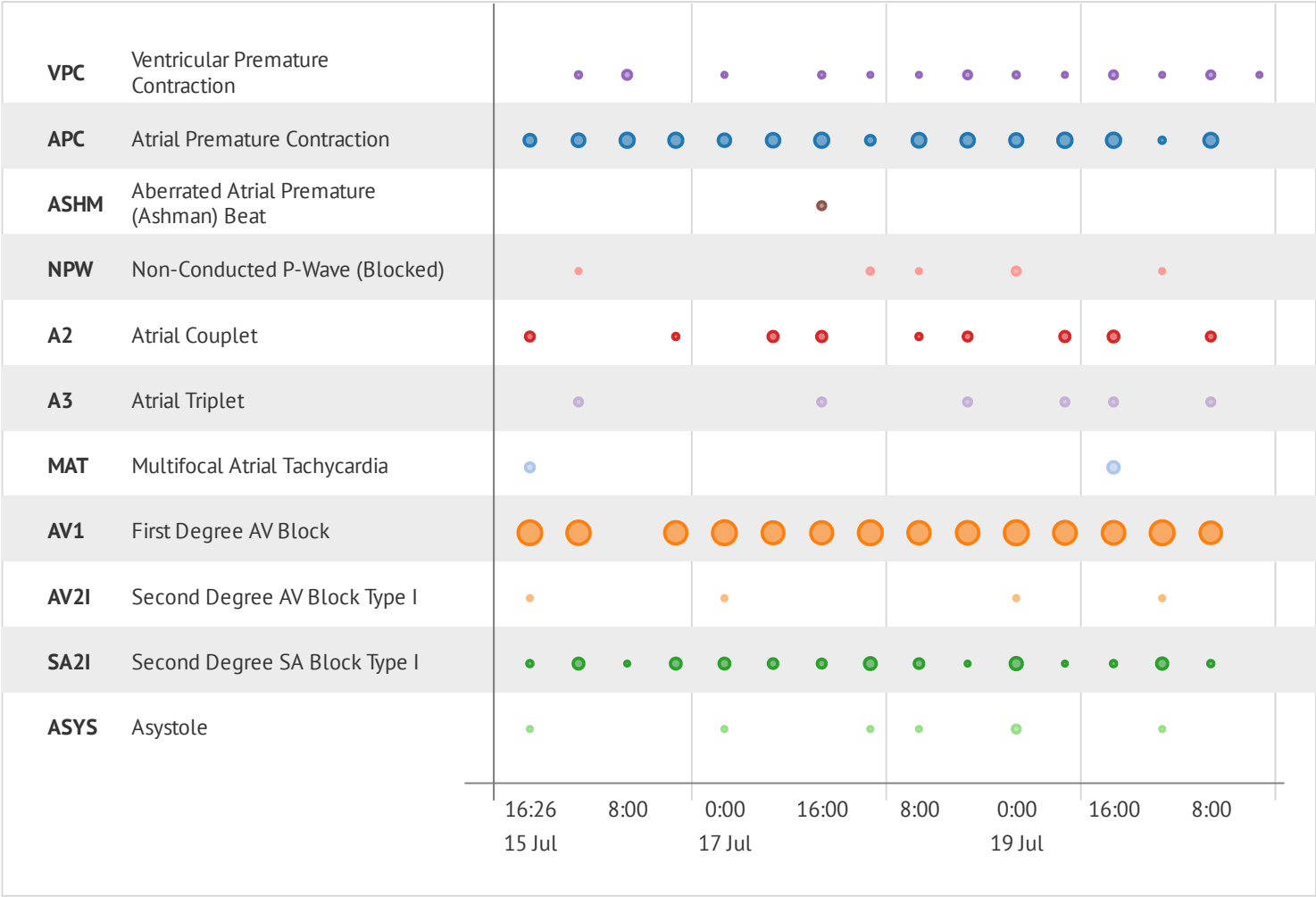
Sinus Bradycardia Duration (minutes)



Heart Rate Variability (sinus)



Annotations Overview



Beats Overview

	Beats			
	APC	NPW	VPC	ASHM
15 Jul				
16:26	11			
16 Jul				
0:00	17	1	2	
8:00	35		4	
16:00	33			
17 Jul				
0:00	15		1	
8:00	24			
16:00	35		2	3
18 Jul				
0:00	5	2	1	
8:00	28	1	1	
16:00	26		3	
19 Jul				
0:00	21	3	2	
8:00	39		1	
16:00	37		3	
20 Jul				
0:00	2	1	1	
8:00	30		3	
16:00			1	
TOTAL	358	8	25	3

Rhythm Annotations

	Multifocal Atrial Tachycardia						First Degree AV Block						Second Degree AV Block Type I					
	Beats	Count	Dur	Heart Rate (BPM)			Beats	Count	Dur	Heart Rate (BPM)			Beats	Count	Dur	Heart Rate (BPM)		
				Min	Avg	Max				Min	Avg	Max				Min	Avg	Max
15 Jul																		
16:26	4	1	2s	88	89	90	24383	184	6h 11m	51	64	87	1	1	3s	51	51	51
16 Jul																		
0:00							17793	187	4h 53m	46	70	97						
8:00																		
16:00							7826	41	1h 58m	50	63	95						
17 Jul																		
0:00							27522	199	7h 33m	46	80	101	1	1	1s	50	50	50
8:00							5573	107	1h 27m	47	72	96						
16:00							6424	257	1h 29m	55	75	94						
18 Jul																		
0:00							29537	101	7h 54m	47	62	85						
8:00							7651	148	2h 15m	47	79	88						
16:00							8784	108	2h 1m	54	68	90						
19 Jul																		
0:00							28805	136	7h 34m	47	80	95	1	1	2s	47	47	47
8:00							10564	149	2h 47m	48	73	91						
16:00	10	2	5s	88	92	98	9696	165	2h 16m	57	70	87						
20 Jul																		
0:00							27753	90	7h 35m	46	81	86	1	1	3s	51	51	51
8:00							4170	94	1h 6m	47	73	92						
16:00																		
TOTAL	14	3	-	88	91	98	216481	1966	2d 9h 6m	46	72	101	4	4	-	47	50	51

	Second Degree SA Block Type I				Asystole				Atrial Couplet			
	Beats	Count	Dur	Heart Rate (BPM)	Beats	Count	Dur	Heart Rate (BPM)	Beats	Count	Dur	Heart Rate (BPM)
				Min Avg Max				Min Avg Max				Min Avg Max
15 Jul												
16:26	2	2	3s	59 59 60	1	1	3s	51 51 51	4	2	2s	83 88 93
16 Jul												
0:00	8	8	14s	46 55 60								
8:00	1	1	1s	67 67 67								
16:00	8	8	12s	50 58 71					2	1	1s	76 76 76
17 Jul												
0:00	8	8	14s	47 53 61	1	1	2s	47 47 47				
8:00	5	5	8s	49 60 64					6	3	3s	77 86 101
16:00	4	4	5s	65 70 88					6	3	3s	77 85 88
18 Jul												
0:00	12	12	21s	47 53 61	1	1	2s	50 50 50				
8:00	5	5	7s	53 62 69	1	1	2s	49 49 49	2	1	1s	83 83 83
16:00	1	1	1s	83 83 83					4	2	2s	90 92 95
19 Jul												
0:00	14	14	24s	51 55 63	3	3	6s	47 48 49				
8:00	1	1	1s	66 66 66					6	3	3s	86 87 89
16:00	2	2	2s	60 65 70					8	4	4s	84 92 98
20 Jul												
0:00	9	9	16s	46 51 61	1	1	3s	51 51 51				
8:00	2	2	3s	60 63 67					4	2	1s	89 99 109
16:00												
TOTAL	82	82	2m 19s	46 61 88	8	8	-	47 49 51	42	21	-	76 88 109

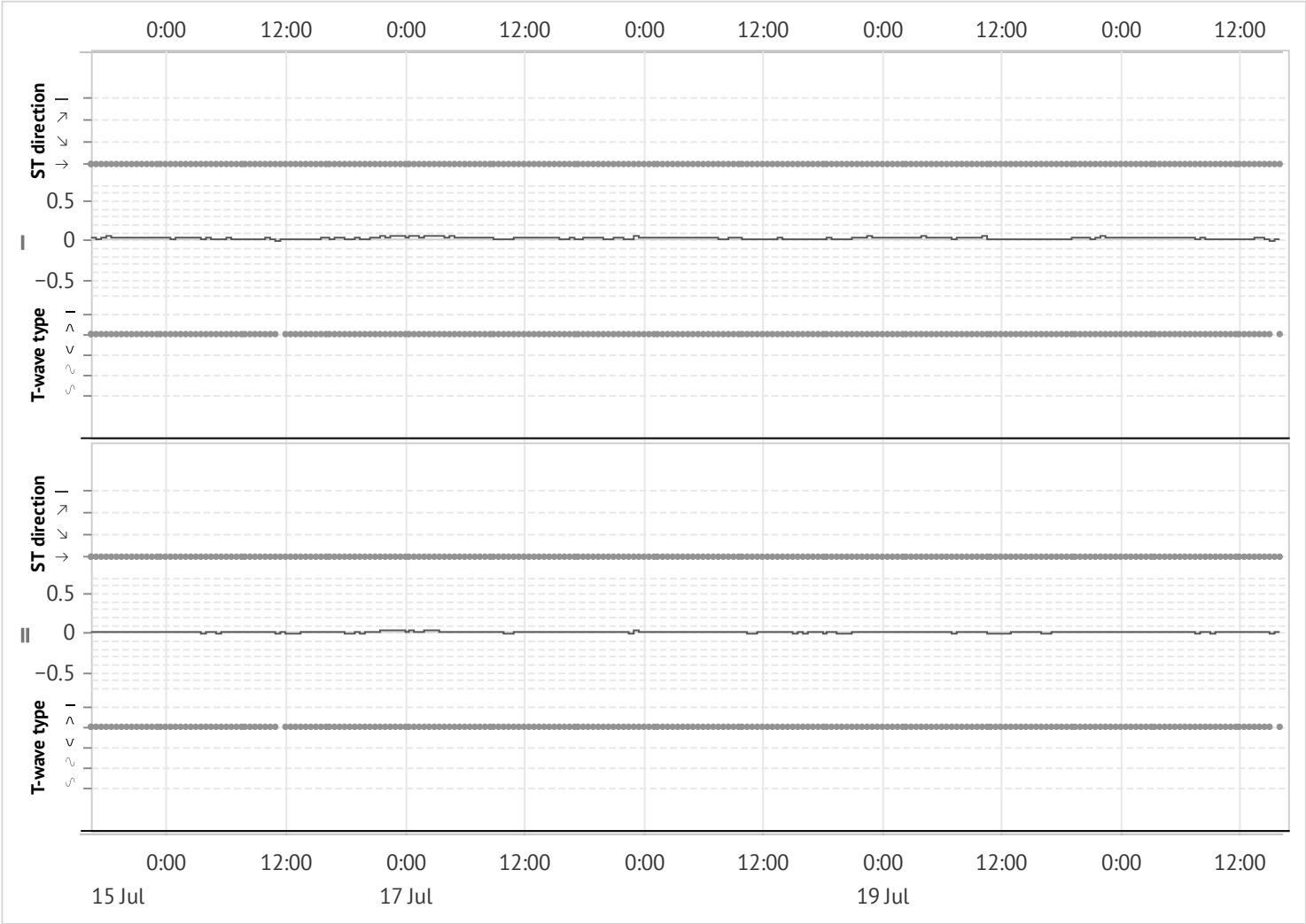
	Atrial Triplet					
	Beats	Count	Dur	Heart Rate (BPM)		
				Min	Avg	Max
15 Jul						
16:26						
16 Jul						
0:00	3	1	1s	95	95	96
8:00						
16:00						
17 Jul						
0:00						
8:00						
16:00	3	1	1s	92	94	95
18 Jul						
0:00						
8:00						
16:00	3	1	1s	99	102	106
19 Jul						
0:00						
8:00	3	1	1s	95	96	97
16:00	3	1	1s	84	85	86
20 Jul						
0:00						
8:00	3	1	1s	95	95	96
16:00						
TOTAL	18	6	-	84	95	106

PQRST (sinus)

	RR	PP	PQi	PQs	QRS	QT	QTc
15 Jul							
16:26	876	897	237	138	84	387	406
16 Jul							
0:00	940	976	241	145	83	401	410
8:00	804	810	189	106	82	371	401
16:00	787	789	200	112	80	362	395
17 Jul							
0:00	978	983	251	144	81	400	404
8:00	823	825	204	111	81	372	399
16:00	802	805	201	109	81	372	403
18 Jul							
0:00	973	977	263	148	83	405	410
8:00	869	883	212	123	81	376	397
16:00	761	766	195	110	79	359	396
19 Jul							
0:00	953	955	273	162	81	397	404
8:00	821	828	214	125	80	370	397
16:00	742	749	199	115	83	359	399
20 Jul							
0:00	984	1022	263	158	83	408	411
8:00	811	828	197	115	83	376	405
16:00	741	757	171	104	80	356	396
AVG	862	873	223	128	82	381	402



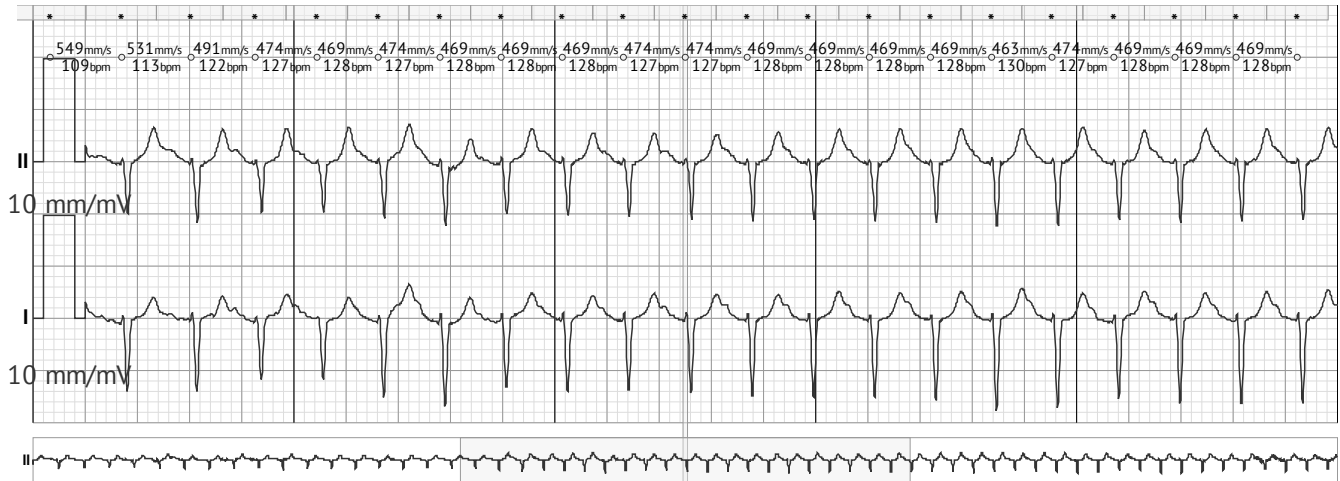
ST-segment (sinus)



Sinus BPM Max

18 Jul 21:26:25

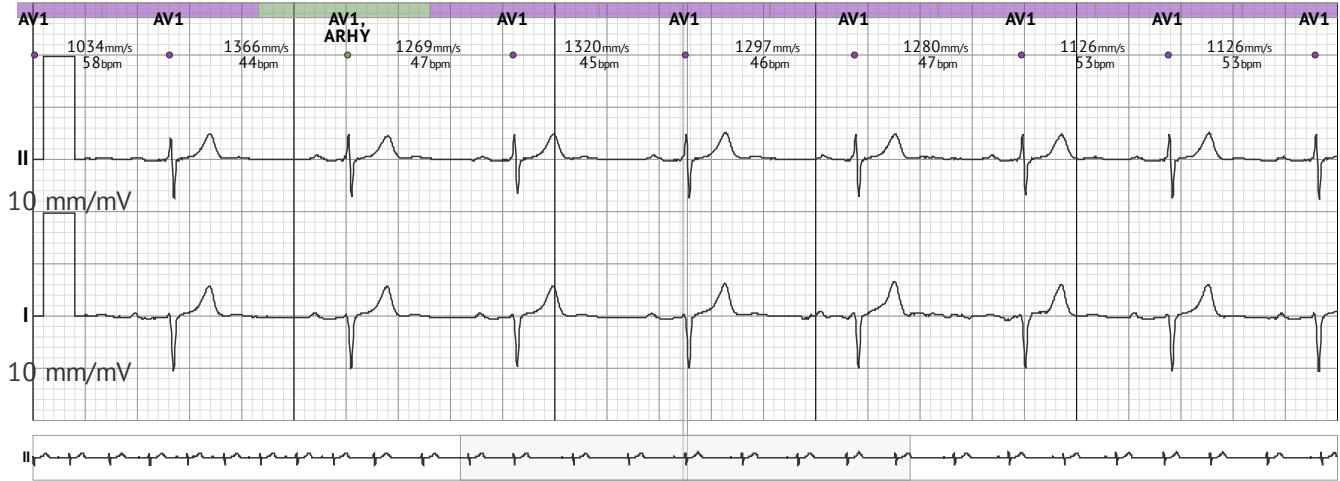
12.5 mm/s 125 BPM



Sinus BPM Min

17 Jul 05:01:03

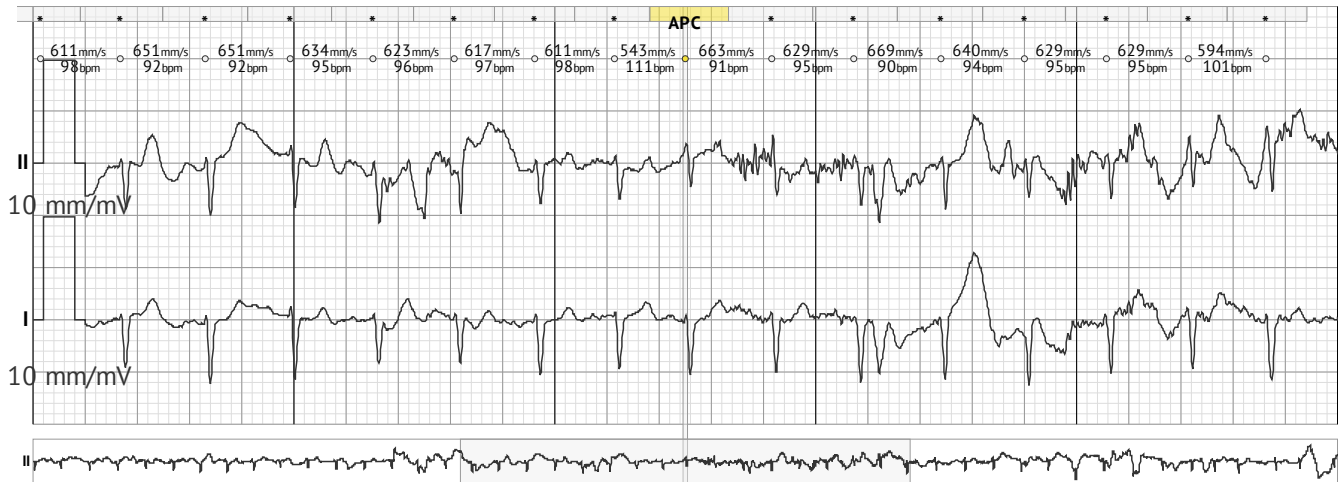
12.5 mm/s 50 BPM



Atrial Premature Contraction

15 Jul 18:11:48

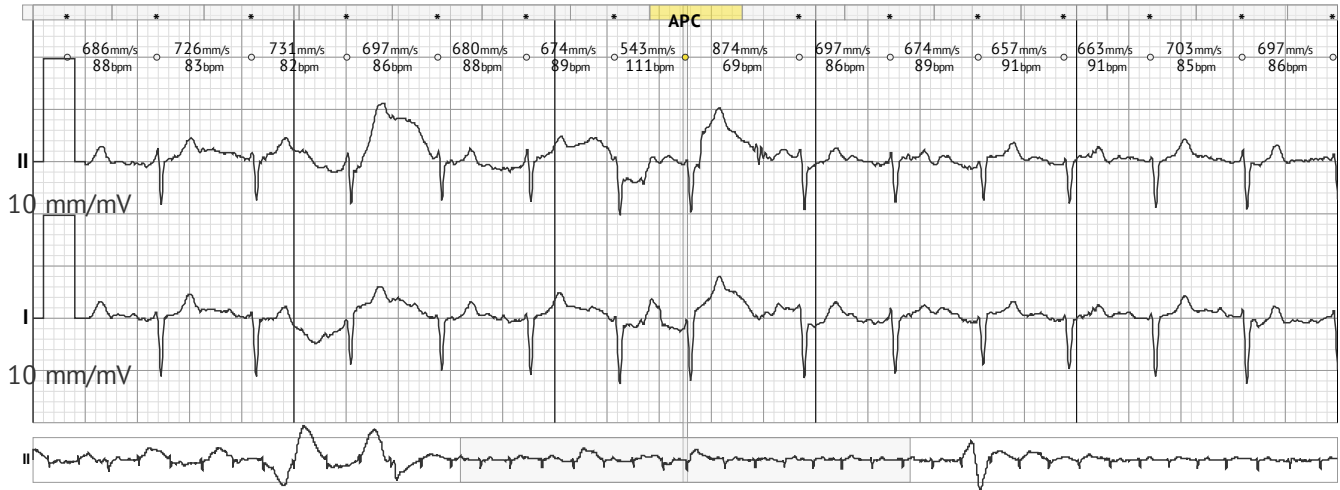
12.5 mm/s 96 BPM



Atrial Premature Contraction

20 Jul 15:14:59

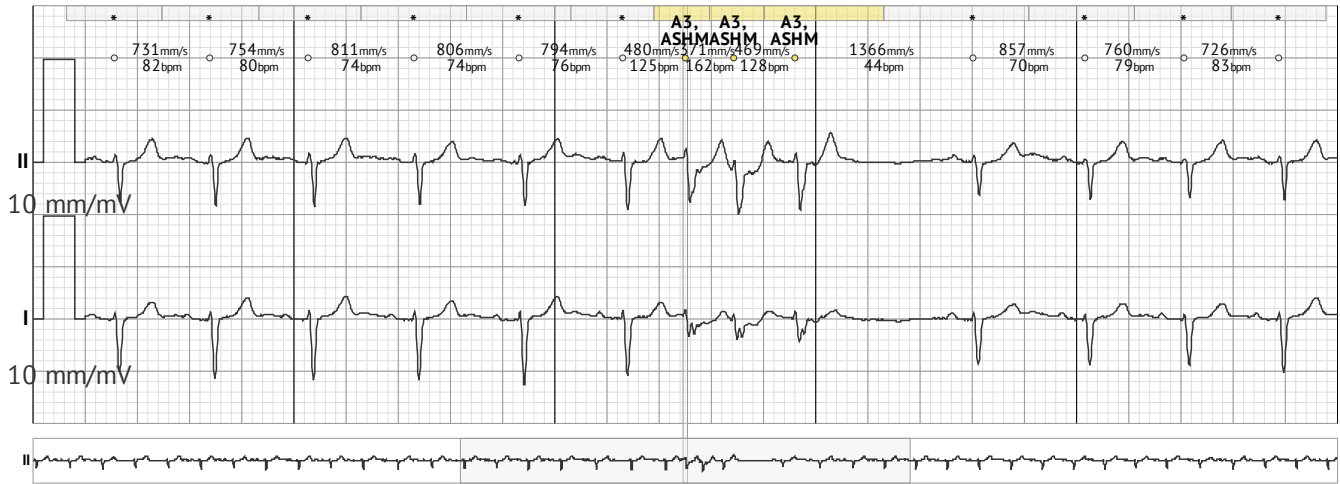
12.5 mm/s 87 BPM



Aberrated Atrial Premature (Ashman) Beat

17 Jul 17:51:49

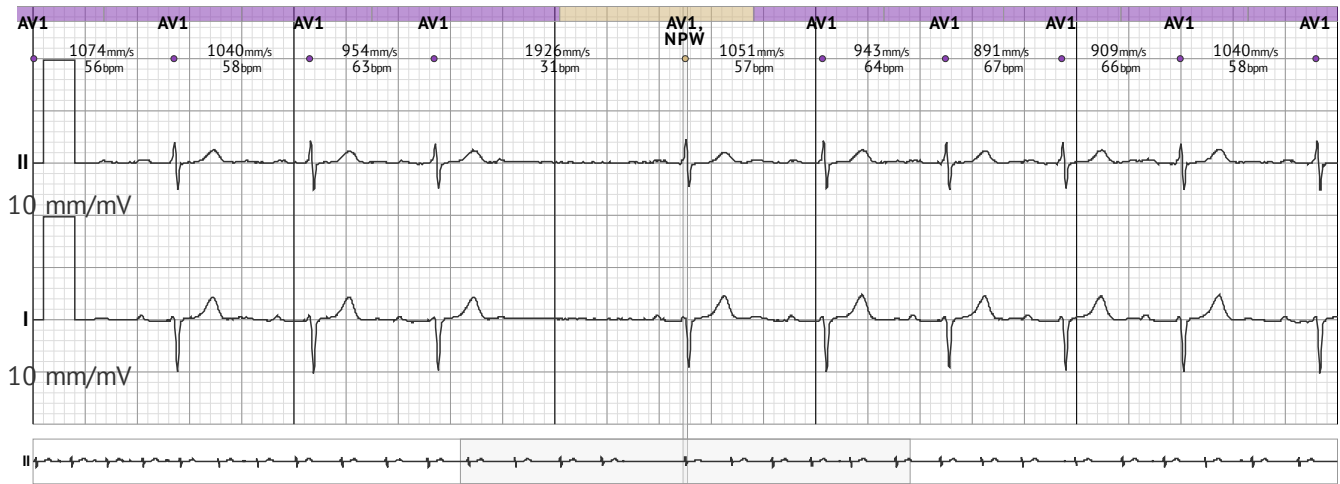
12.5 mm/s 81 BPM



Non-Conducted P-Wave (Blocked)

16 Jul 03:54:55

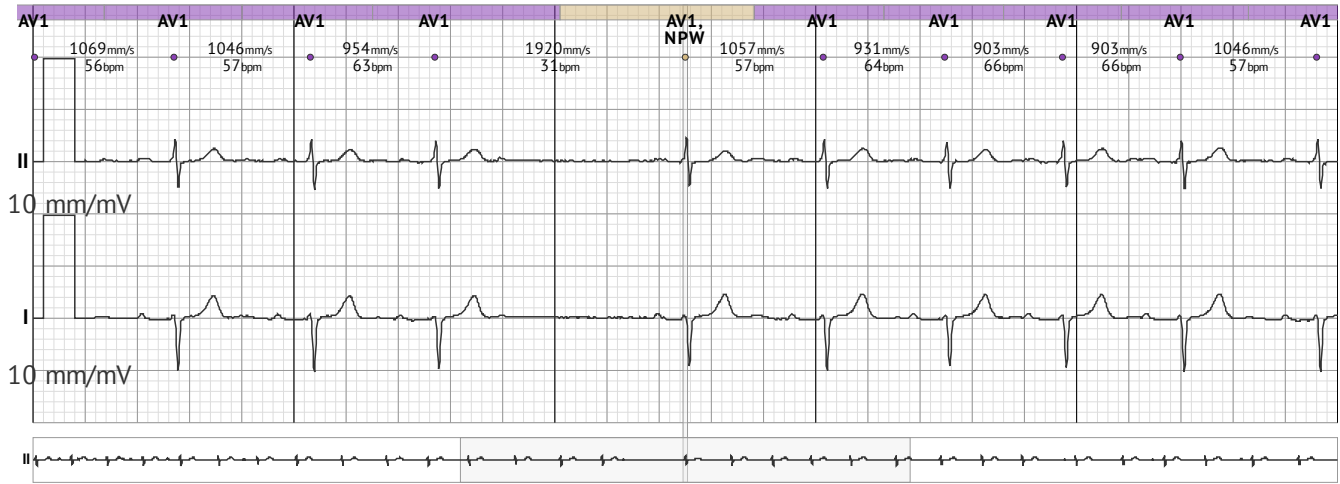
12.5 mm/s 56 BPM



Non-Conducted P-Wave (Blocked)

20 Jul 07:46:58

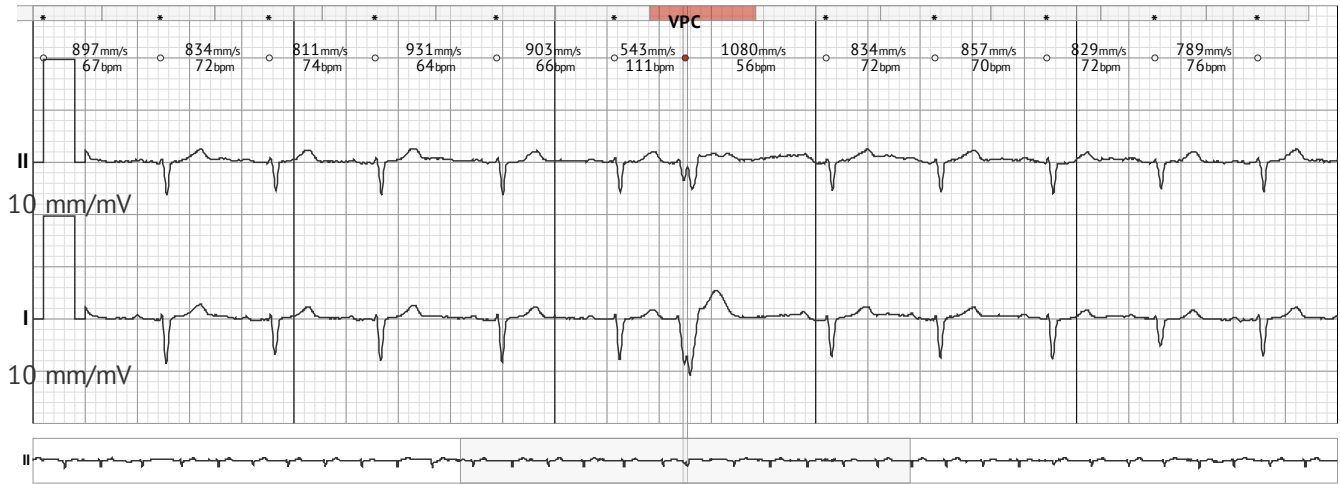
12.5 mm/s 56 BPM



Ventricular Premature Contraction

16 Jul 09:01:09

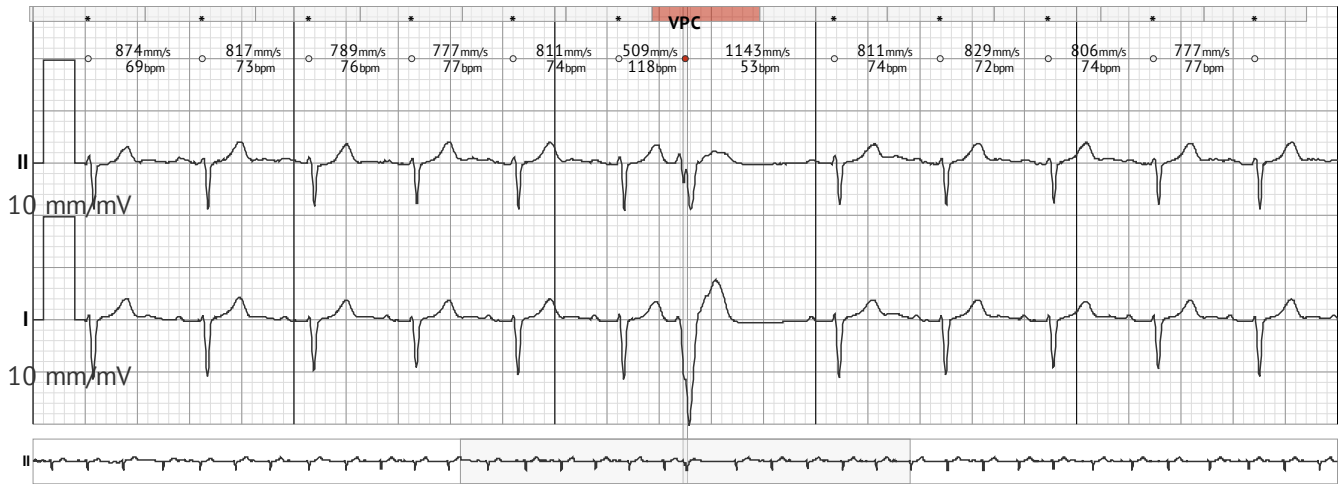
12.5 mm/s 70 BPM



Ventricular Premature Contraction

20 Jul 14:43:13

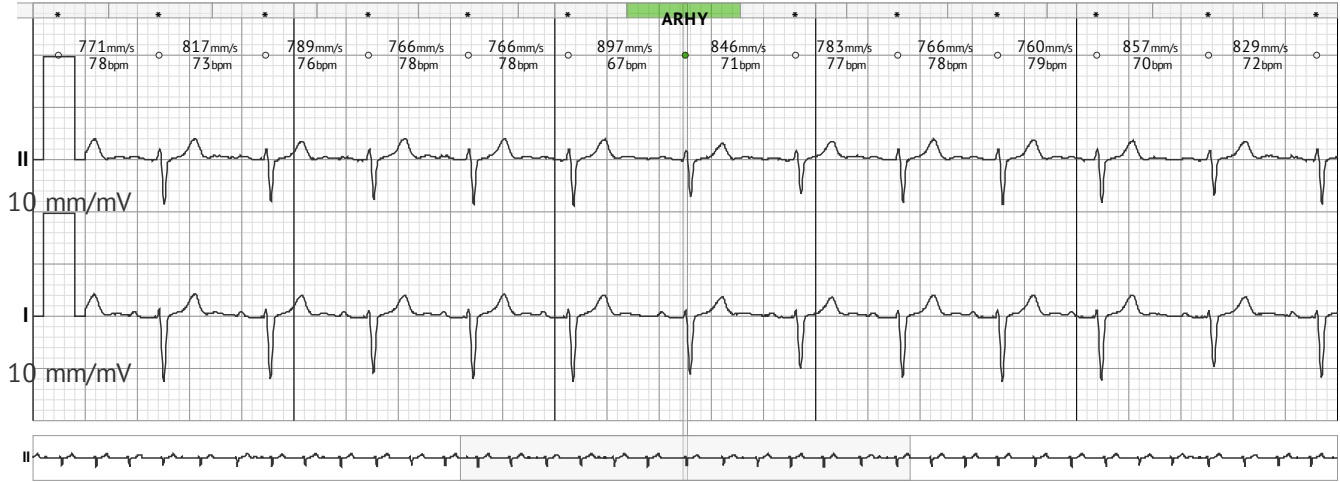
12.5 mm/s 73 BPM



Sinus Arrhythmia

15 Jul 16:33:47

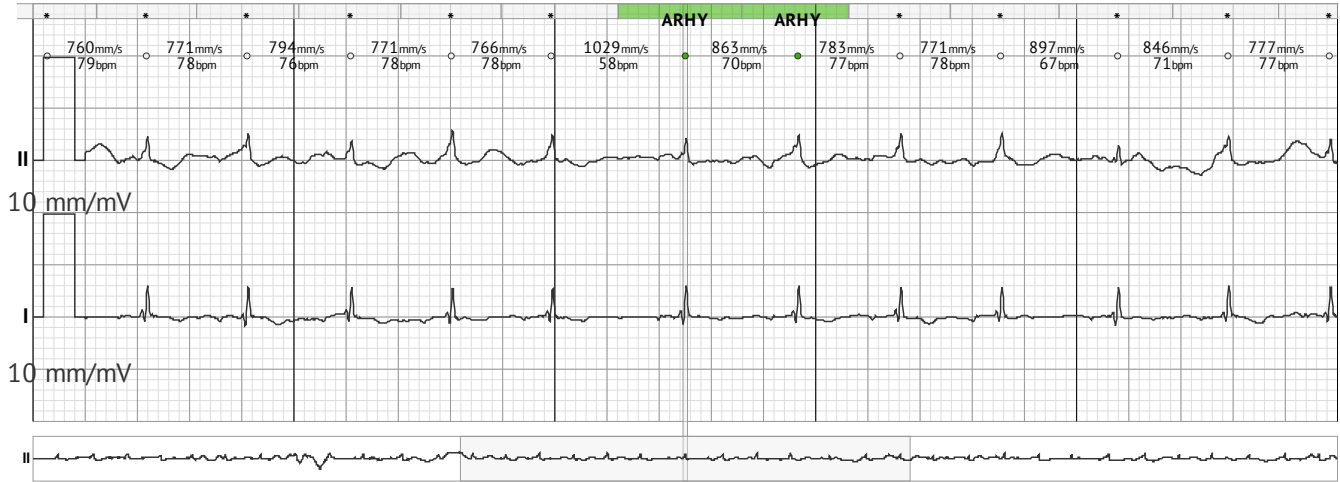
12.5 mm/s 75 BPM



Sinus Arrhythmia

20 Jul 15:38:13

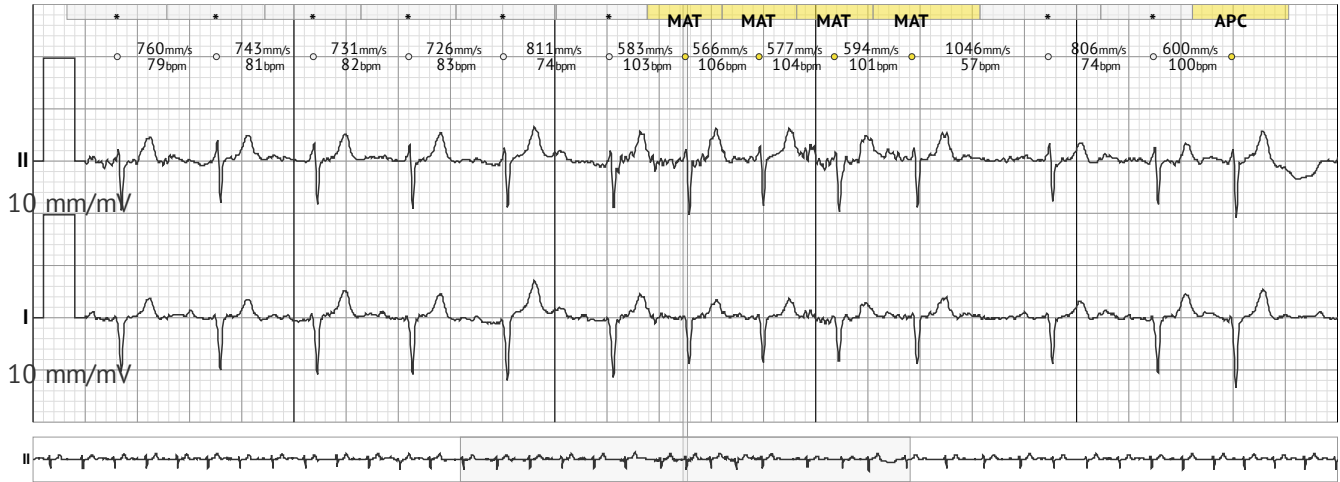
12.5 mm/s 74 BPM



Multifocal Atrial Tachycardia

15 Jul 18:12:29

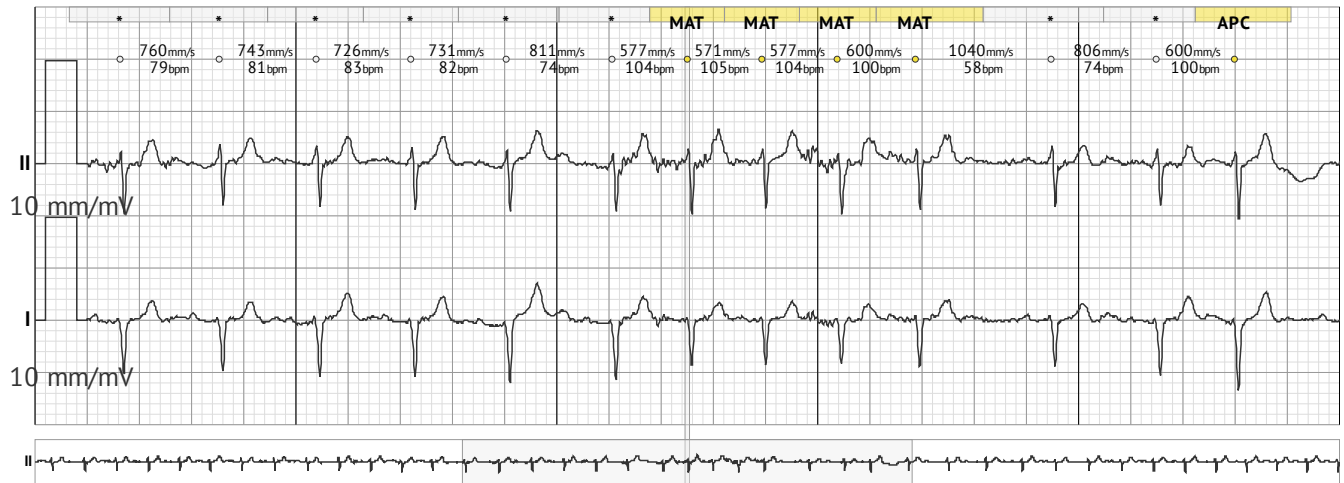
12.5 mm/s 84 BPM



Multifocal Atrial Tachycardia

19 Jul 22:04:32

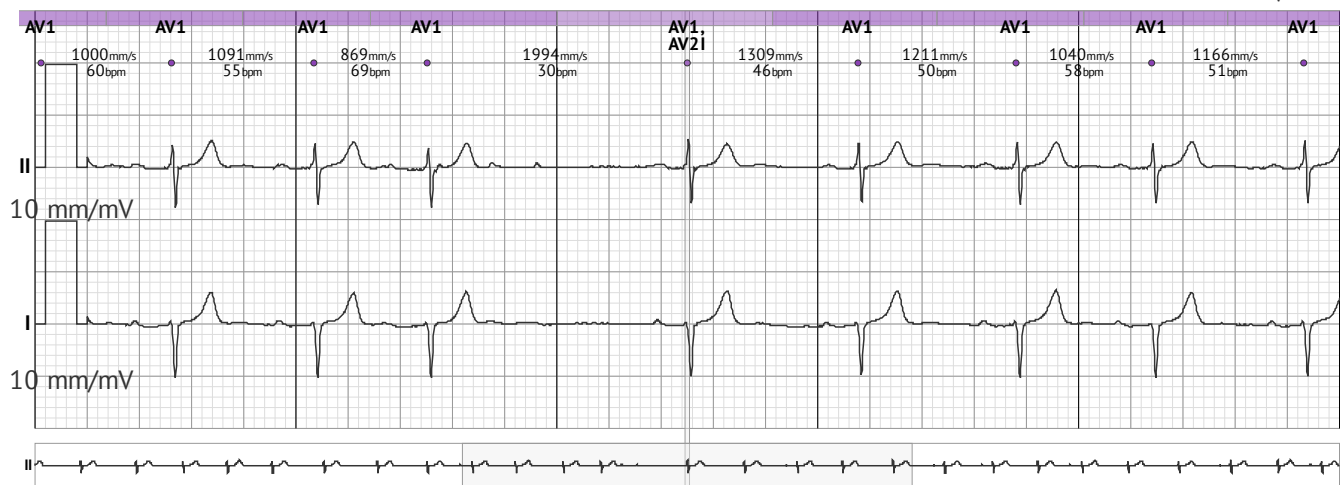
12.5 mm/s 84 BPM



Second Degree AV Block Type I

17 Jul 06:10:04

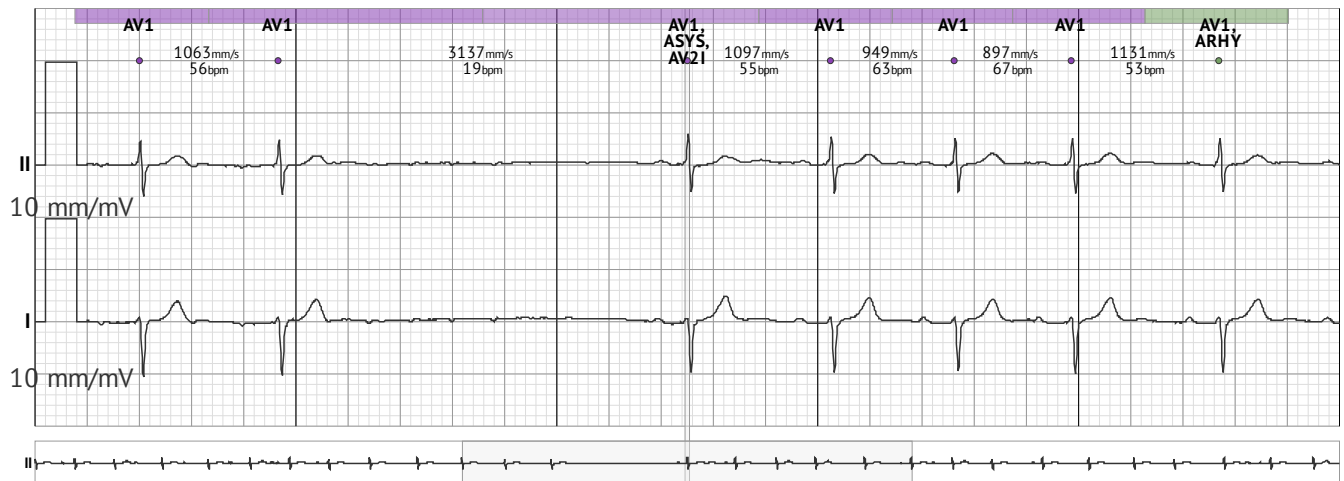
12.5 mm/s 50 BPM



Second Degree AV Block Type I

15 Jul 22:28:18

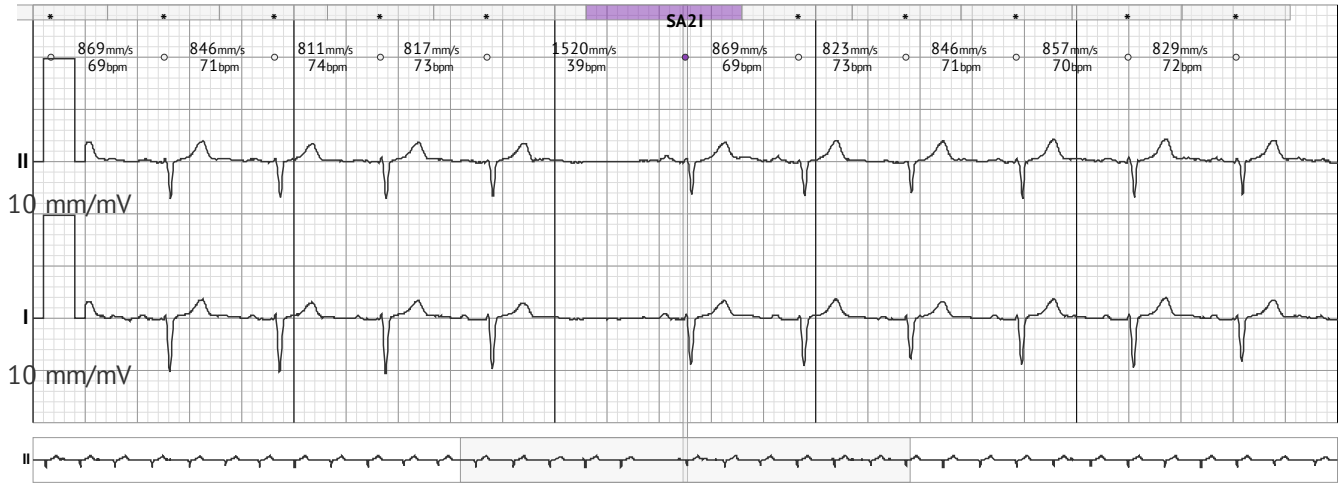
12.5 mm/s 45 BPM



Second Degree SA Block Type I

16 Jul 16:30:02

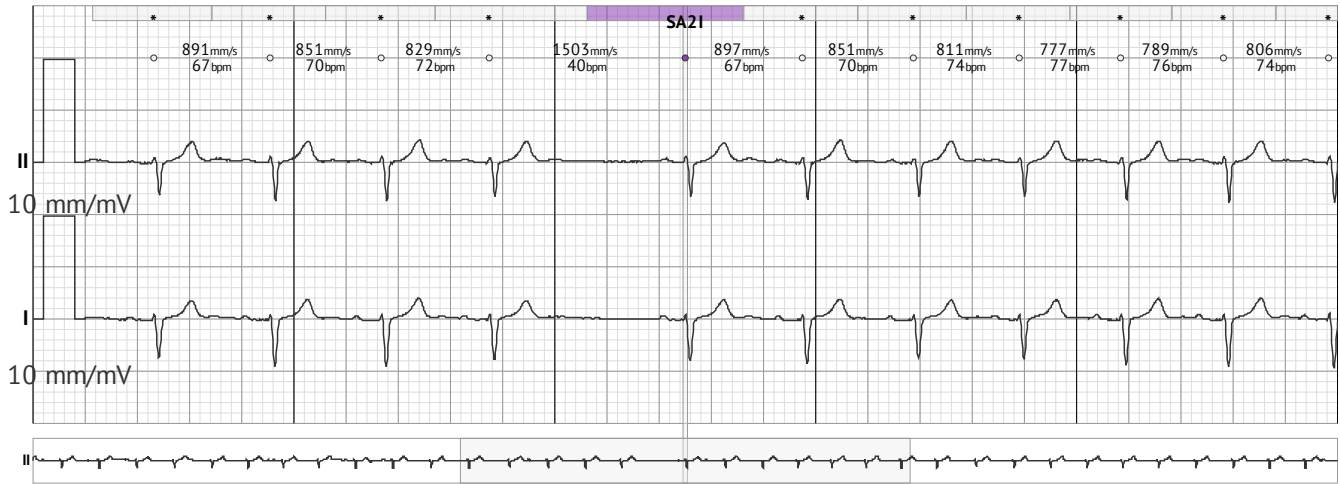
12.5 mm/s 66 BPM



Second Degree SA Block Type I

19 Jul 15:31:31

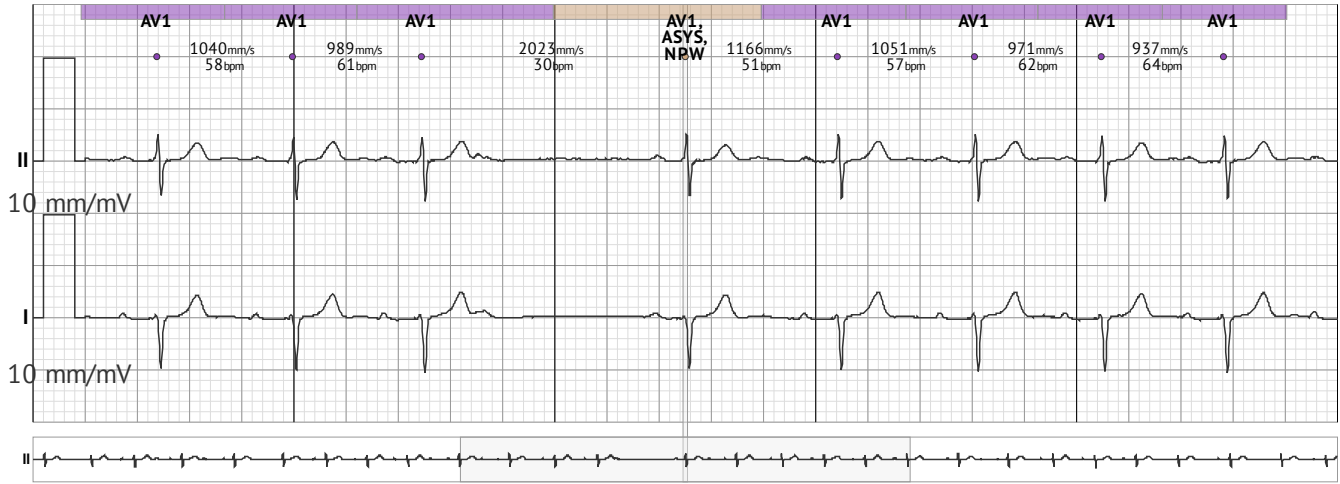
12.5 mm/s 66 BPM



Asystole

18 Jul 07:36:13

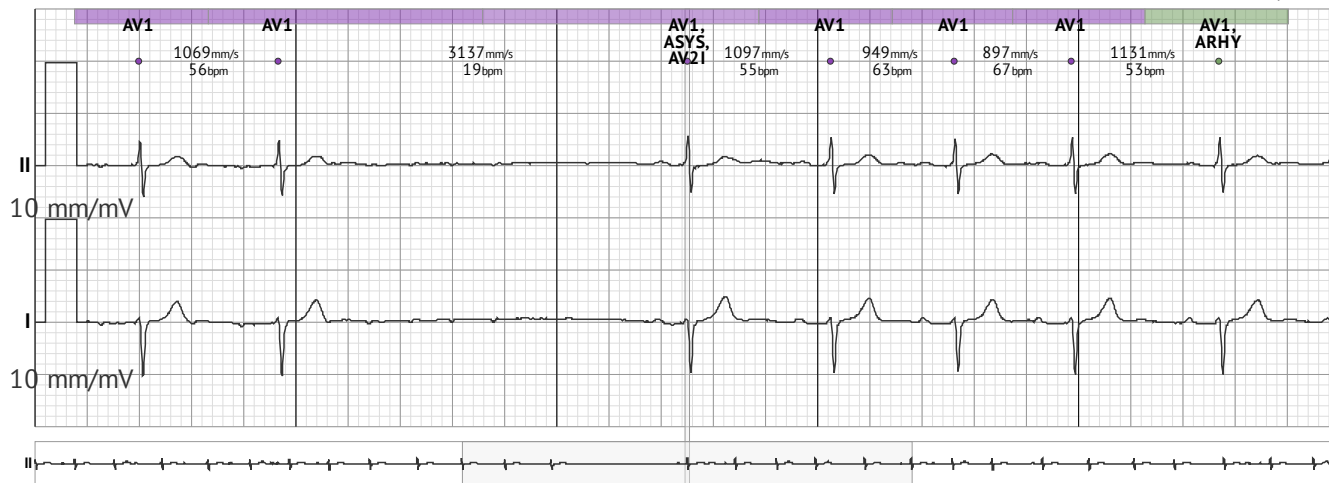
12.5 mm/s 51 BPM



Asystole

20 Jul 02:20:22

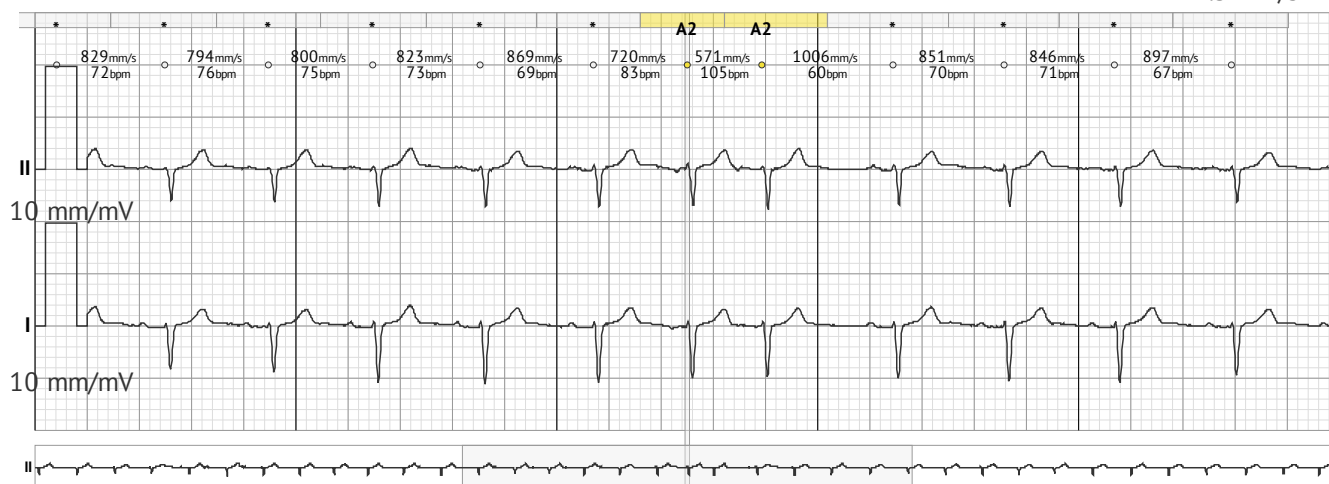
12.5 mm/s 45 BPM



Atrial Couplet

16 Jul 16:28:56

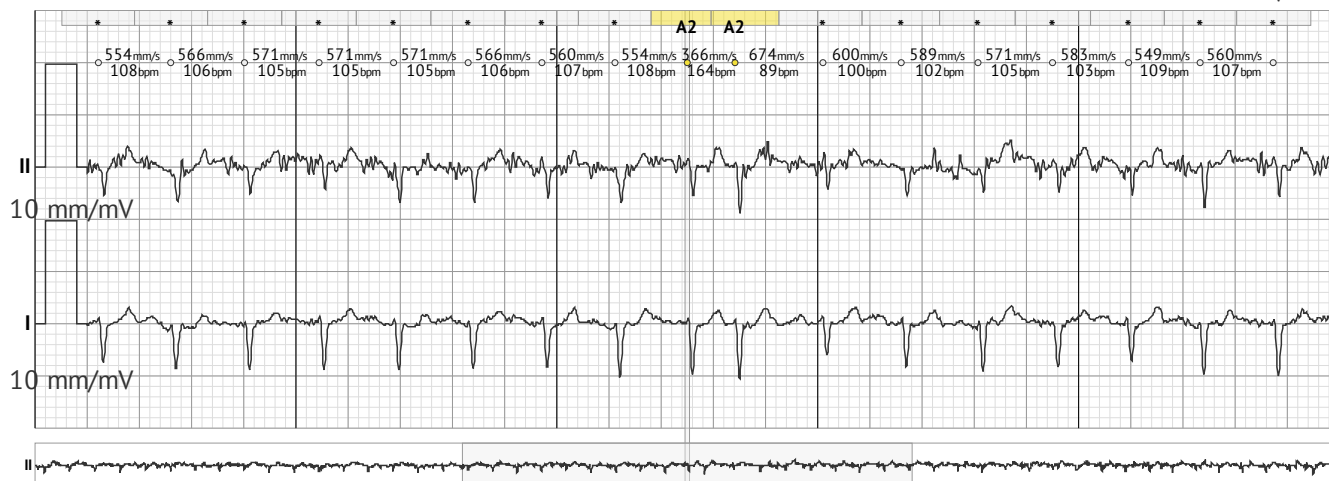
12.5 mm/s 73 BPM



Atrial Couplet

20 Jul 09:43:58

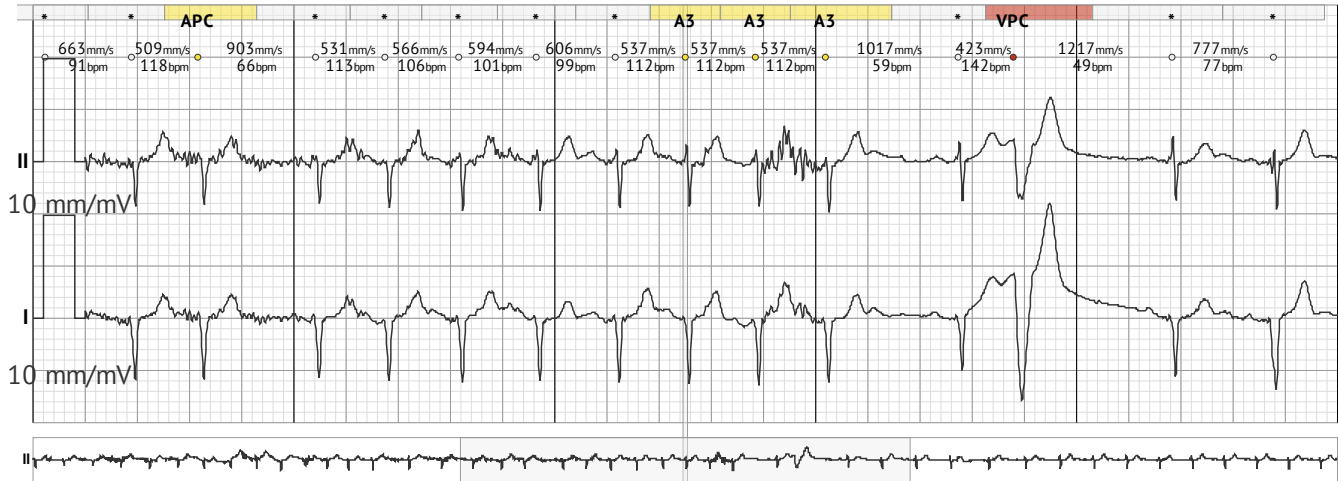
12.5 mm/s 107 BPM



Atrial Triplet

18 Jul 21:34:53

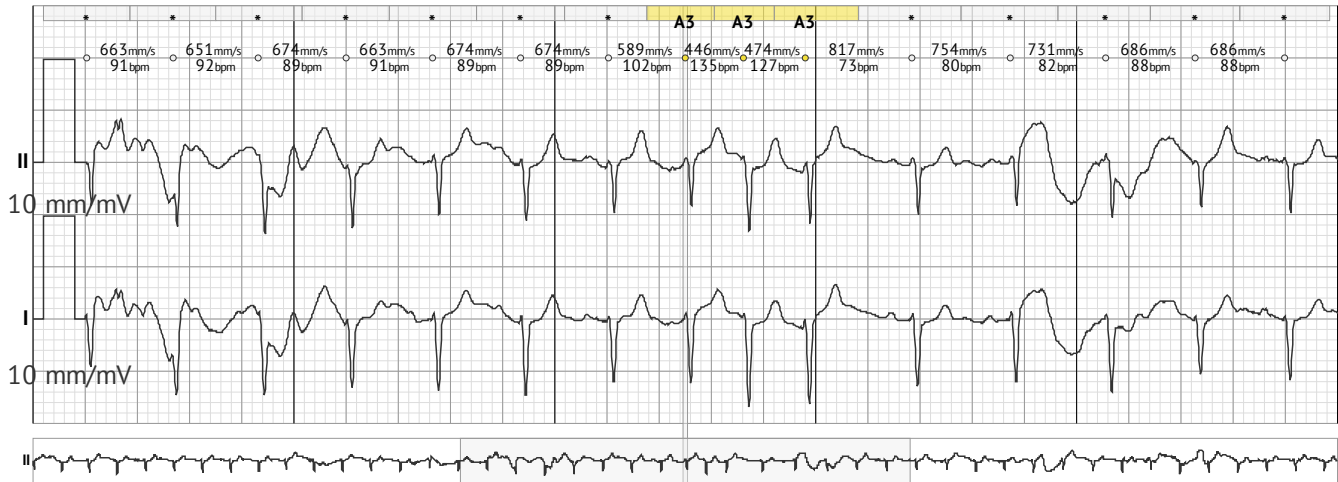
12.5 mm/s 89 BPM



Atrial Triplet

19 Jul 13:10:48

12.5 mm/s 91 BPM



First Degree AV Block

18 Jul 03:21:55

25 mm/s 60 BPM

