

# ECG analysis report

Generated at 2019-09-30 10:06:27

## Patient data

ID ECG

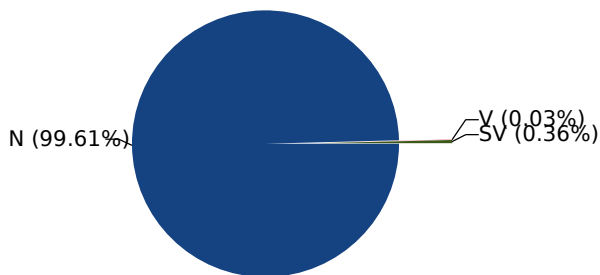
## Examination details

**Start time** 2019-09-11 10:53:04  
**End time** 2019-09-12 09:34:11  
**Duration** 22 h 41 min 07 s  
**Nondiagnostic part** 1.84%

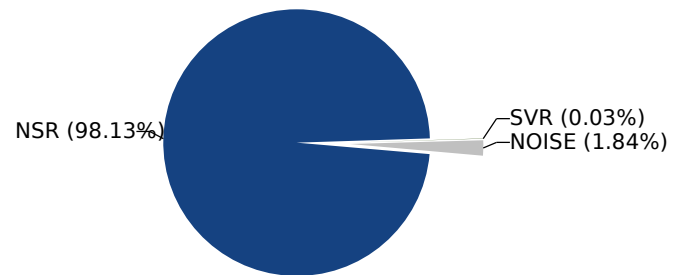
## Examination summary

Heart rate		Ventricular		Supraventricular	
<b>Total beats</b>	89788	<b>Total V beats</b>	27	<b>Total SV beats</b>	320
<b>Average HR</b>	68 bpm	<b>Couplets</b>	0	<b>Couplets</b>	0
<b>Slowest HR</b>	51 bpm	<b>Bigeminies</b>	0	<b>Bigeminies</b>	0
<b>Fastest HR</b>	123 bpm	<b>Trigeminies</b>	0	<b>Trigeminies</b>	3
<b>Sinus tachycardias</b>	21	<b>Salvos</b>	0	<b>Salvos</b>	1
<b>Sinus bradycardias</b>	340	<b>Tachycardias</b>	0	<b>Tachycardias</b>	0
<b>Pauses</b>	0	<b>Bradycardias</b>	0	<b>AFIB</b>	0.00%

## Beats



## Rhythms



## Description

The patient has been examined for 22 h 41 min 07 s. 98.16% of the signal was of sufficient quality and was taken under analysis.

The average heart rate was 68 bpm, the fastest heart rate was 123 bpm and the slowest heart rate was 51 bpm.

Rhythm analysis has detected 21 episodes of sinus tachycardia and 340 episodes of sinus bradycardia. No pause was found in the signal.

27 ventricular beats were detected.

320 supraventricular beats were detected. It has been recorded: single episode of supraventricular salvo and 3 atrial trigeminies.

# Hour-by-hour table

Time		Heart rate					Ventricular		Supraventricular		Nondiagnostic part
From	To	Total beats	Average HR	Min HR	Max HR	Pauses	V beats	V couplets	SV beats	SV couplets	
10:53	11:00	298	76 bpm	70 bpm	84 bpm	0	0	0	0	0	43.62%
11:00	12:00	4020	72 bpm	63 bpm	112 bpm	0	0	0	3	0	5.53%
12:00	13:00	3813	64 bpm	61 bpm	74 bpm	0	1	0	0	0	0.35%
13:00	14:00	3795	64 bpm	60 bpm	73 bpm	0	1	0	3	0	1.01%
14:00	15:00	3833	65 bpm	61 bpm	75 bpm	0	0	0	3	0	1.06%
15:00	16:00	3763	64 bpm	54 bpm	74 bpm	0	2	0	3	0	1.06%
16:00	17:00	3290	55 bpm	52 bpm	67 bpm	0	0	0	2	0	0.00%
17:00	18:00	4237	74 bpm	53 bpm	97 bpm	0	0	0	2	0	3.72%
18:00	19:00	4535	77 bpm	61 bpm	97 bpm	0	1	0	1	0	0.68%
19:00	20:00	4844	82 bpm	67 bpm	110 bpm	0	0	0	0	0	1.24%
20:00	21:00	5252	92 bpm	72 bpm	123 bpm	0	1	0	0	0	3.66%
21:00	22:00	4243	71 bpm	64 bpm	85 bpm	0	0	0	0	0	0.35%
22:00	23:00	3804	64 bpm	51 bpm	84 bpm	0	0	0	0	0	0.00%
23:00	00:00	3768	64 bpm	53 bpm	80 bpm	0	0	0	0	0	0.70%
2019-09-12											
00:00	01:00	3481	58 bpm	55 bpm	65 bpm	0	0	0	1	0	0.34%
01:00	02:00	3657	61 bpm	57 bpm	71 bpm	0	0	0	5	0	0.35%
02:00	03:00	3561	61 bpm	56 bpm	68 bpm	0	1	0	123	0	0.00%
03:00	04:00	3963	68 bpm	62 bpm	77 bpm	0	4	0	151	0	0.34%
04:00	05:00	3731	62 bpm	57 bpm	76 bpm	0	0	0	9	0	0.00%
05:00	06:00	3736	63 bpm	57 bpm	75 bpm	0	1	0	5	0	1.19%
06:00	07:00	3598	61 bpm	56 bpm	74 bpm	0	0	0	2	0	1.03%
07:00	08:00	4246	75 bpm	64 bpm	96 bpm	0	1	0	4	0	4.47%
08:00	09:00	4281	72 bpm	64 bpm	97 bpm	0	9	0	2	0	0.00%
09:00	09:34	2039	73 bpm	65 bpm	97 bpm	0	5	0	1	0	16.87%

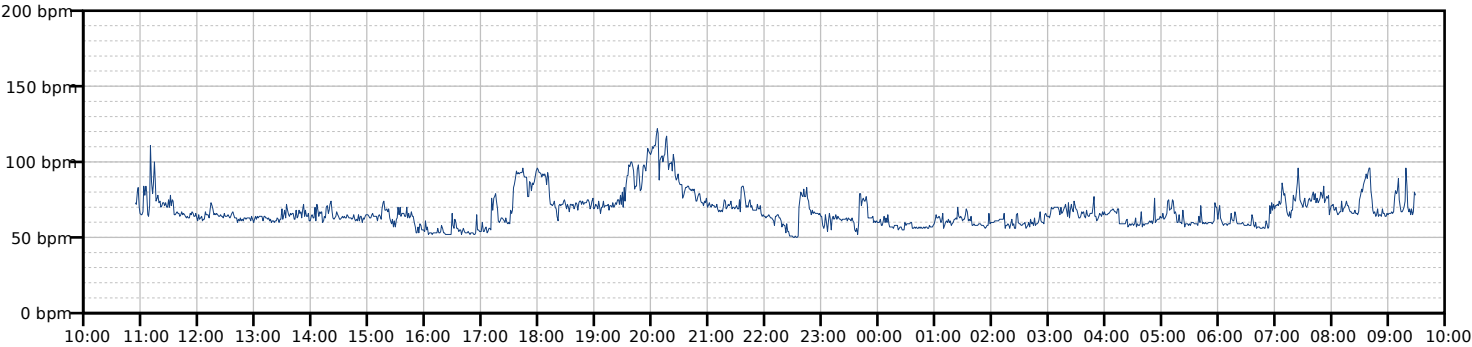
Rhythms by hour

Time		Sinus		Ventricular		Supraventricular		Nondiagnostic part
From	To	Bradycardia	Tachycardia	Bradycardia	Tachycardia	Tachycardia	AFIB	
10:53	11:00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	43.62%
11:00	12:00	0.00%	2.43%	0.00%	0.00%	0.00%	0.00%	5.53%
12:00	13:00	4.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.35%
13:00	14:00	3.74%	0.00%	0.00%	0.00%	0.00%	0.00%	1.01%
14:00	15:00	2.96%	0.00%	0.00%	0.00%	0.00%	0.00%	1.06%
15:00	16:00	17.93%	0.00%	0.00%	0.00%	0.00%	0.00%	1.06%
16:00	17:00	85.64%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
17:00	18:00	17.49%	0.00%	0.00%	0.00%	0.00%	0.00%	3.72%
18:00	19:00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.68%
19:00	20:00	0.00%	6.23%	0.00%	0.00%	0.00%	0.00%	1.24%
20:00	21:00	0.00%	23.41%	0.00%	0.00%	0.00%	0.00%	3.66%
21:00	22:00	0.48%	0.00%	0.00%	0.00%	0.00%	0.00%	0.35%
22:00	23:00	24.93%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
23:00	00:00	14.99%	0.00%	0.00%	0.00%	0.00%	0.00%	0.70%
2019-09-12								
00:00	01:00	45.23%	0.00%	0.00%	0.00%	0.00%	0.00%	0.34%
01:00	02:00	17.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.35%
02:00	03:00	34.60%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
03:00	04:00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.34%
04:00	05:00	14.82%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
05:00	06:00	6.64%	0.00%	0.00%	0.00%	0.00%	0.00%	1.19%
06:00	07:00	34.78%	0.00%	0.00%	0.00%	0.00%	0.00%	1.03%
07:00	08:00	0.77%	0.00%	0.00%	0.00%	0.00%	0.00%	4.47%
08:00	09:00	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
09:00	09:34	0.00%	0.90%	0.00%	0.00%	0.00%	0.00%	16.87%

Heart rate details

Heart rate		Sinus tachycardia		Sinus bradycardia	
Average minutely rate	68 bpm	Longest	3 min 38 s	Longest	9 min 22 s
Fastest minutely rate	123 bpm	Fastest N-N	146 bpm	Slowest N-N	40 bpm
	starting at 20:07 (day 1)		starting at 20:08 (day 1)		starting at 22:27 (day 1)
Slowest minutely rate	51 bpm	Total time	19 min 32 s	Total time	3 h 15 min 39 s
	starting at 22:35 (day 1)				

Heart rate plot



# Details of arrhythmia

## Ventricular

Total V beats	27
Max V/min	2 starting at 08:11 (day 2)
Max V/hour	9 starting at 08:00 (day 2)
Couplets	0
Fastest	-
Bigeminies	0
Longest	-
Trigeminies	0
Longest	-
Tachycardias	0
Longest	-
Fastest	-

## Supraventricular

Total SV beats	320
Max SV/min	8 starting at 02:22 (day 2)
Max SV/hour	151 starting at 03:00 (day 2)
Couplets	0
Fastest	-
Bigeminies	0
Longest	-
Trigeminies	3
Longest	7 s starting at 03:09 (day 2)
Tachycardias	0
Longest	-
Fastest	-

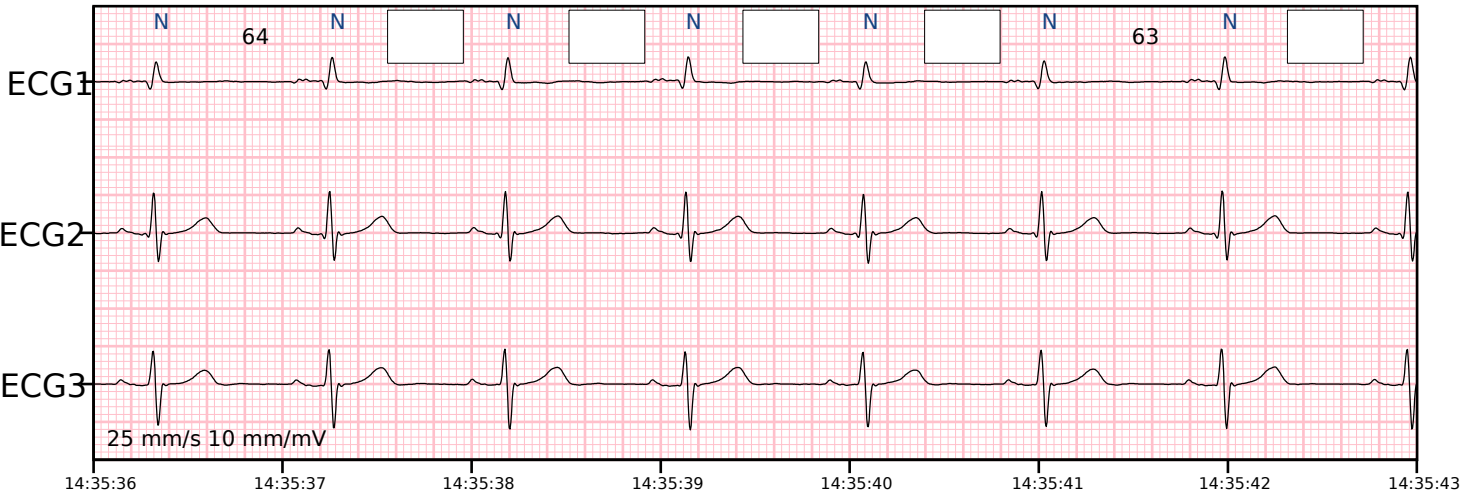
# Atrial fibrillation

Total time	-	Longest episode	-
Average episode	-	Shortest episode	-

# Selected ECG events

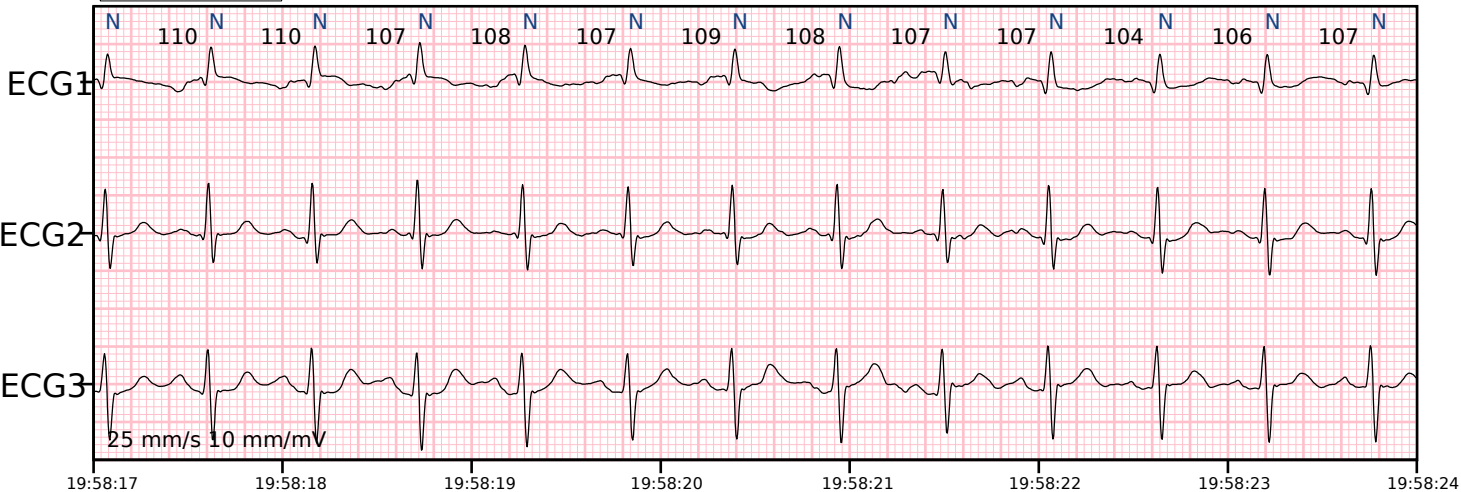
Sinus rhythm: 14:35:36 (day 1)

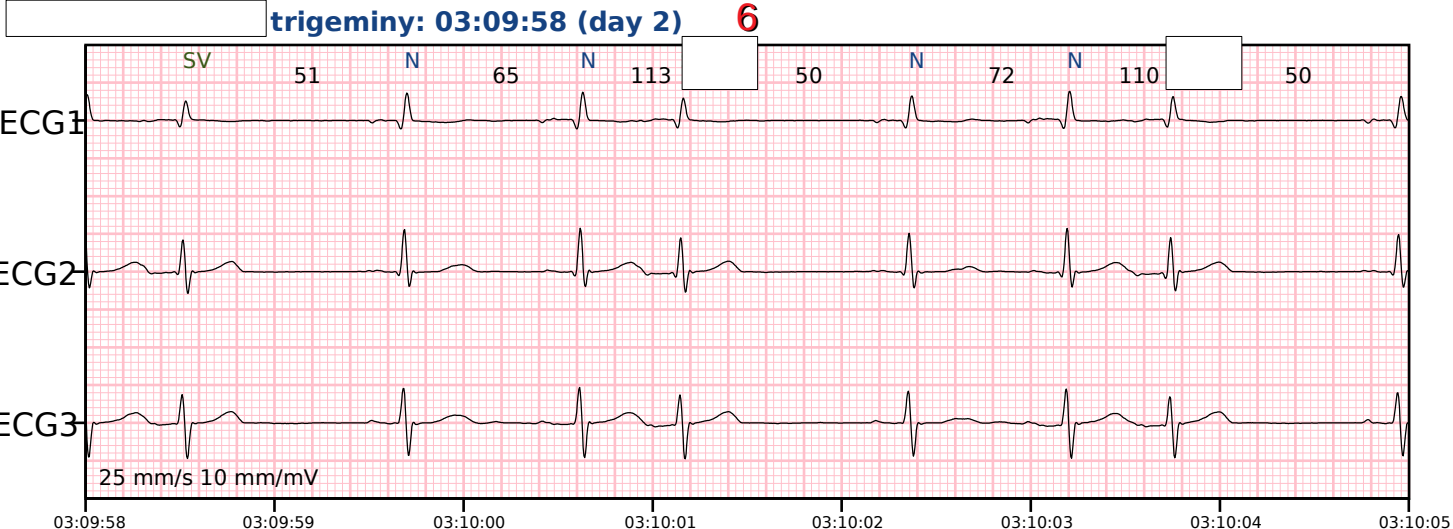
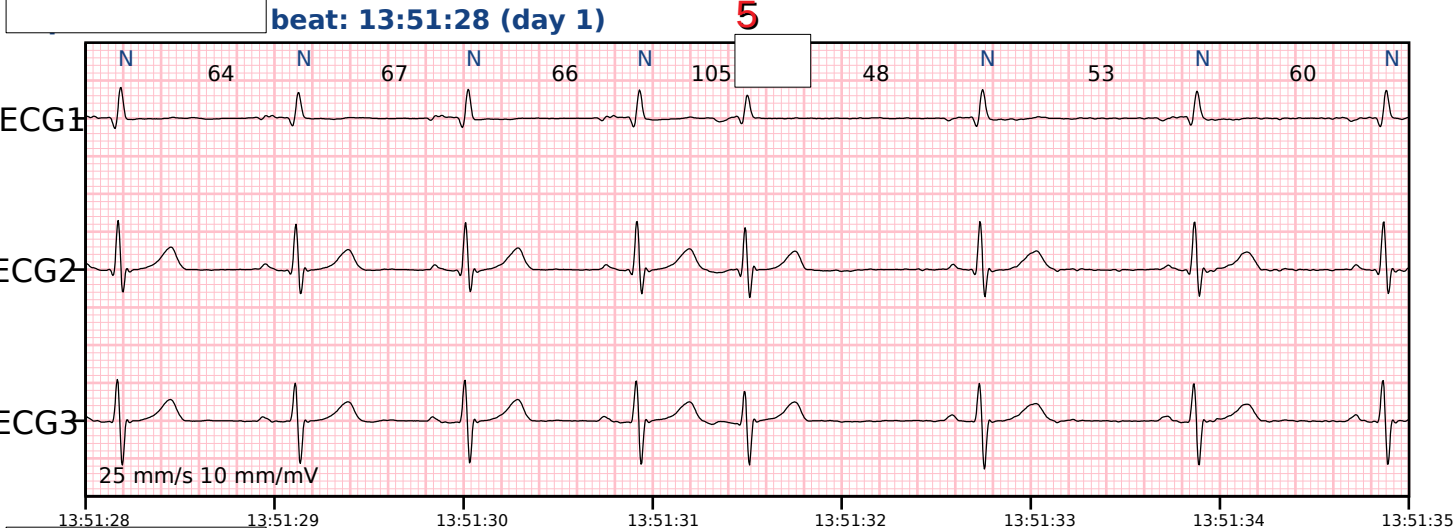
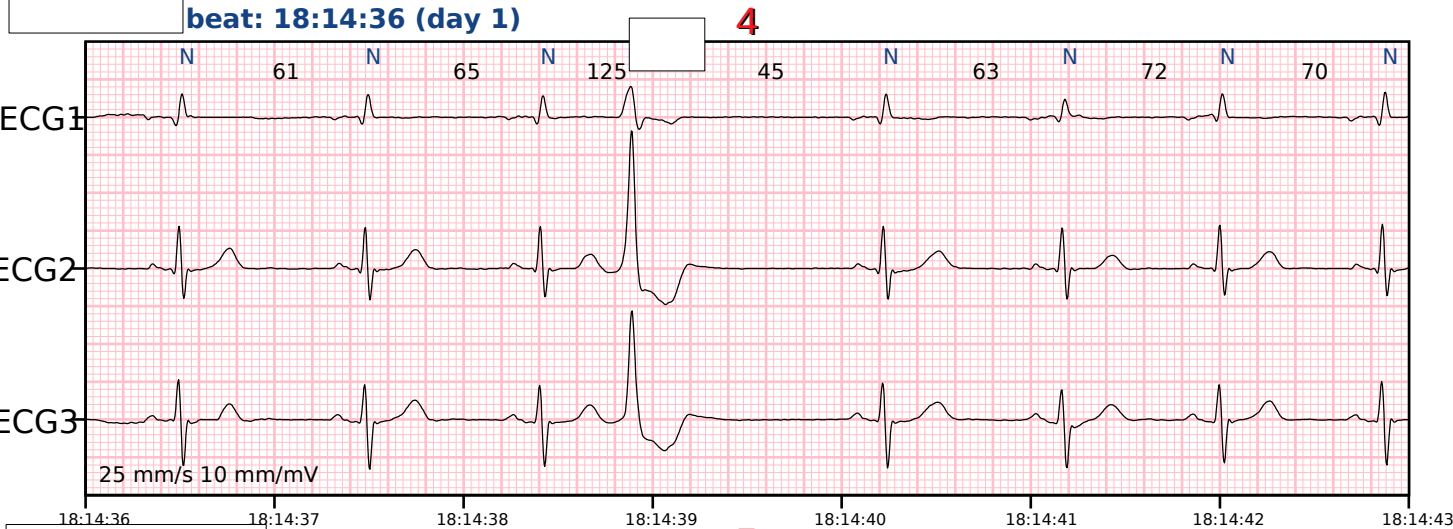
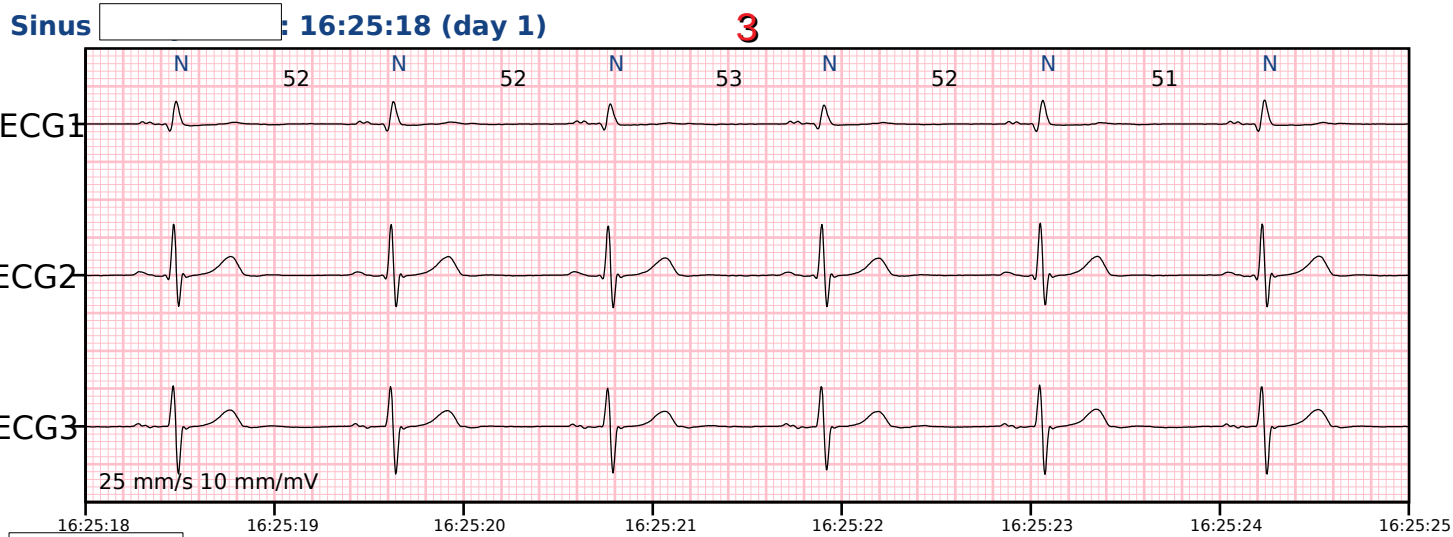
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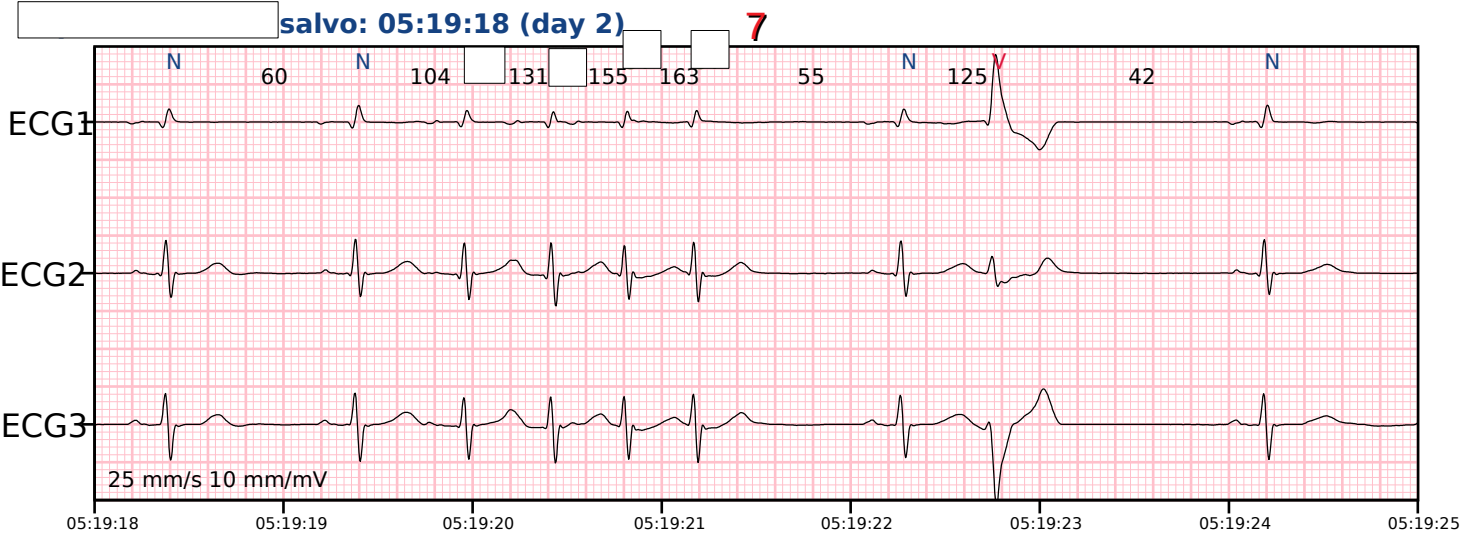


Sinus 19:58:17 (day 1)

2







Algorithm settings

Minimal pause duration	2000 ms
All heart rate values	averaged per minute
Sinus tachycardia	consecutive normal beats at a rate of > 100 bpm lasting longer than 10 s
Sinus bradycardia	consecutive normal beats at a rate of < 60 bpm lasting longer than 10 s
Ventricular salvo	3-7 consecutive complexes of ventricular beats at a rate of > 100 bpm
Ventricular tachycardia	more than 7 consecutive complexes originating from ventricles at a rate of > 100 bpm
Ventricular bradycardia	three or more consecutive complexes originating from ventricles at a rate of < 50 bpm
Supraventricular salvo	3-7 consecutive complexes of supraventricular beats at a rate of > 100 bpm
Supraventricular tachycardia	more than 7 consecutive complexes of supraventricular beats at a rate of > 100 bpm