

ECG analysis report

Generated at 2019-08-27 11:51:45

Patient data

ID 26

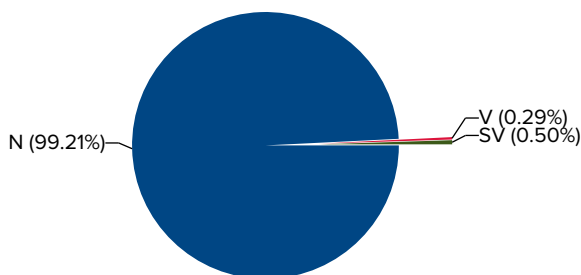
Examination details

Start time 2003-07-18 17:19:40
End time 2003-07-19 11:40:40
Duration 18 h 21 min 00 s
Nondiagnostic part 1.13%

Examination summary

| Heart rate | | Ventricular | | Supraventricular | |
|---------------------------|--------|----------------------|-----|-----------------------|--------|
| Total beats | 68627 | Total V beats | 200 | Total SV beats | 340 |
| Average HR | 65 bpm | Couplets | 0 | Couplets | 17 |
| Slowest HR | 43 bpm | Bigeminies | 0 | Bigeminies | 3 |
| Fastest HR | 88 bpm | Trigeminies | 13 | Trigeminies | 3 |
| Sinus tachycardias | 0 | Salvos | 0 | Salvos | 0 |
| Sinus bradycardias | 87 | Tachycardias | 0 | Tachycardias | 0 |
| Pauses | 26 | Bradycardias | 0 | AFIB | 91.15% |

Beats



Rhythms



Description

The patient has been examined for 18 h 21 min 00 s. 98.87% of the signal was of sufficient quality and was taken under analysis.

The average heart rate was 65 bpm, the fastest heart rate was 88 bpm and the slowest heart rate was 43 bpm.

Rhythm analysis has detected 87 episodes of sinus bradycardia. 26 pauses longer than two seconds were found in the signal.

200 ventricular beats were detected. Rhythm analysis has detected 13 ventricular trigeminies.

340 supraventricular beats were detected. It has been recorded: 3 atrial trigeminies, 3 atrial bigeminies and 17 supraventricular couplets.

Atrial fibrillation was detected in 91.15% of the recording time.

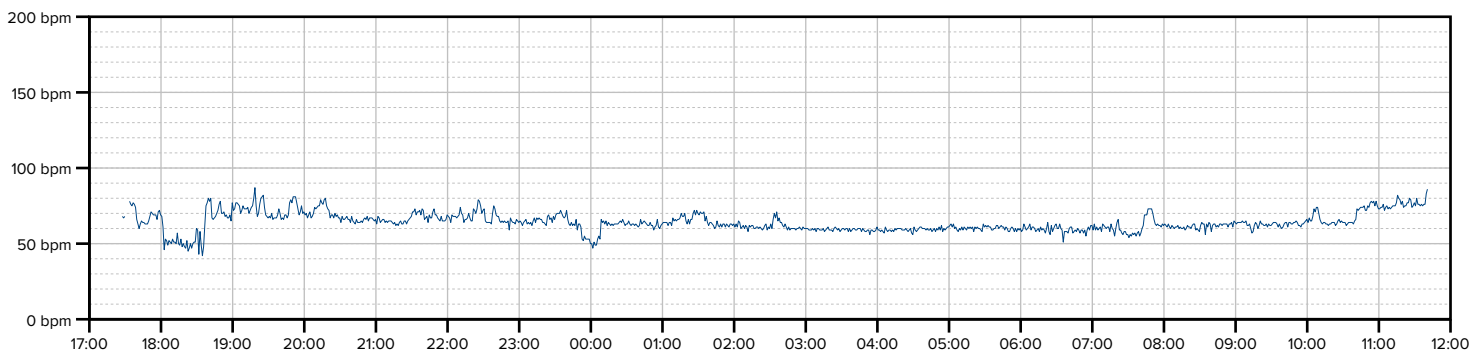
Hour-by-hour table

| 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 | |
| 17:19 | 18:00 | 1883 | 69 bpm | 60 bpm | 78 bpm | 0 | 0 | 0 | 115 | 4 | 30.86% |
| 18:00 | 19:00 | 3390 | 60 bpm | 43 bpm | 81 bpm | 0 | 1 | 0 | 190 | 11 | 0.00% |
| 19:00 | 20:00 | 4260 | 73 bpm | 66 bpm | 88 bpm | 0 | 0 | 0 | 3 | 0 | 0.00% |
| 20:00 | 21:00 | 4039 | 69 bpm | 64 bpm | 80 bpm | 0 | 2 | 0 | 0 | 0 | 0.00% |
| 21:00 | 22:00 | 3931 | 67 bpm | 62 bpm | 74 bpm | 1 | 5 | 0 | 12 | 0 | 0.00% |
| 22:00 | 23:00 | 3981 | 68 bpm | 59 bpm | 80 bpm | 0 | 2 | 0 | 0 | 0 | 0.00% |
| 23:00 | 00:00 | 3760 | 64 bpm | 51 bpm | 73 bpm | 0 | 4 | 0 | 5 | 0 | 0.00% |
| 2003-07-19 | | | | | | | | | | | |
| 00:00 | 01:00 | 3636 | 62 bpm | 48 bpm | 67 bpm | 0 | 16 | 0 | 0 | 0 | 0.00% |
| 01:00 | 02:00 | 3868 | 66 bpm | 61 bpm | 73 bpm | 0 | 15 | 0 | 0 | 0 | 0.00% |
| 02:00 | 03:00 | 3648 | 62 bpm | 58 bpm | 71 bpm | 3 | 12 | 0 | 1 | 0 | 0.00% |
| 03:00 | 04:00 | 3527 | 60 bpm | 57 bpm | 62 bpm | 0 | 0 | 0 | 0 | 0 | 0.00% |
| 04:00 | 05:00 | 3523 | 60 bpm | 56 bpm | 62 bpm | 5 | 0 | 0 | 1 | 0 | 0.00% |
| 05:00 | 06:00 | 3574 | 61 bpm | 58 bpm | 64 bpm | 5 | 1 | 0 | 1 | 0 | 0.00% |
| 06:00 | 07:00 | 3507 | 60 bpm | 52 bpm | 64 bpm | 6 | 32 | 0 | 7 | 1 | 0.00% |
| 07:00 | 08:00 | 3602 | 62 bpm | 55 bpm | 74 bpm | 1 | 50 | 0 | 3 | 0 | 0.00% |
| 08:00 | 09:00 | 3644 | 62 bpm | 56 bpm | 65 bpm | 3 | 26 | 0 | 0 | 0 | 0.00% |
| 09:00 | 10:00 | 3728 | 63 bpm | 57 bpm | 67 bpm | 2 | 30 | 0 | 0 | 0 | 0.00% |
| 10:00 | 11:00 | 4064 | 69 bpm | 62 bpm | 79 bpm | 0 | 4 | 0 | 0 | 0 | 0.00% |
| 11:00 | 11:40 | 3062 | 77 bpm | 73 bpm | 86 bpm | 0 | 0 | 0 | 2 | 1 | 0.00% |

Heart rate details

| Heart rate | | Sinus tachycardia | | Sinus bradycardia | |
|-----------------------|-------------------------------------|-------------------|--------------------------------------|-------------------|-------------------------------------|
| Average minutely rate | 65 bpm | Longest | - | Longest | 1 min 02 s |
| Fastest minutely rate | 88 bpm starting at 19:18 (day 1) | Fastest N-N | 175 bpm starting at 19:38 (day 1) | Slowest N-N | 23 bpm starting at 09:54 (day 2) |
| Slowest minutely rate | 43 bpm starting at 18:34 (day 1) | Total time | - | Total time | 16 min 21 s |

Heart rate plot

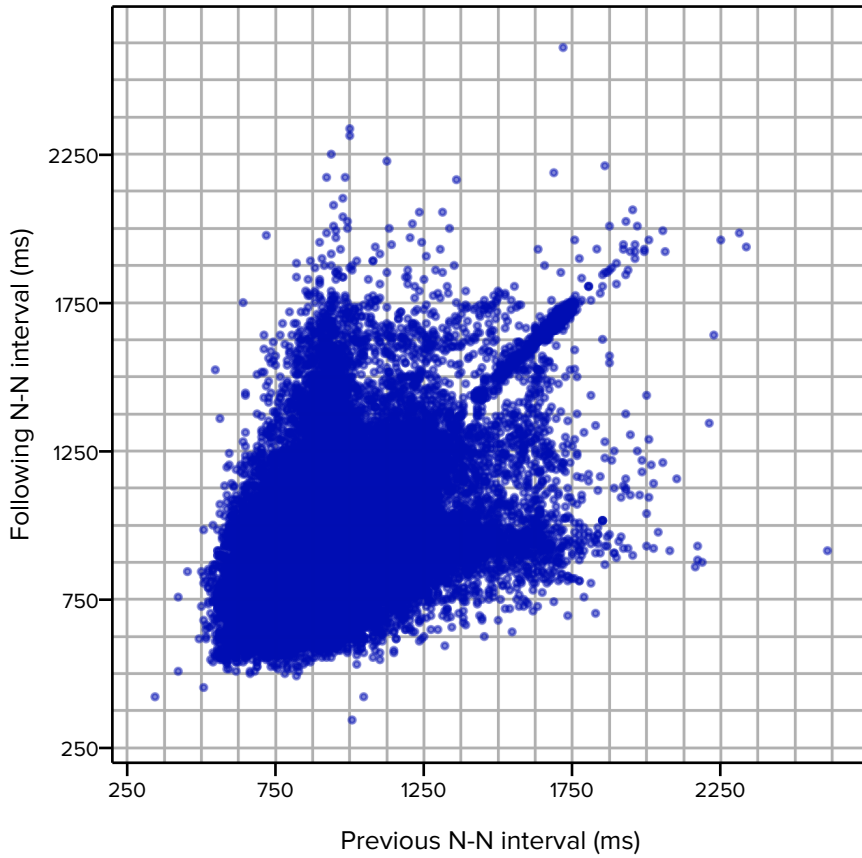


Atrial fibrillation

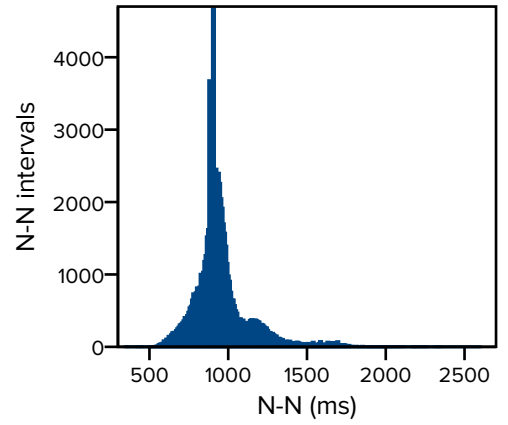
| | | | |
|-----------------|------------------|------------------|---|
| Total time | 16 h 43 min 31 s | Longest episode | 1 h 58 min 50 s starting at 19:40 (day 1) |
| Average episode | 7 min 15 s | Shortest episode | 30 s starting at 08:29 (day 2) |

Heart rate variability

Poincaré plot



N-N interval histogram



HRV parameters

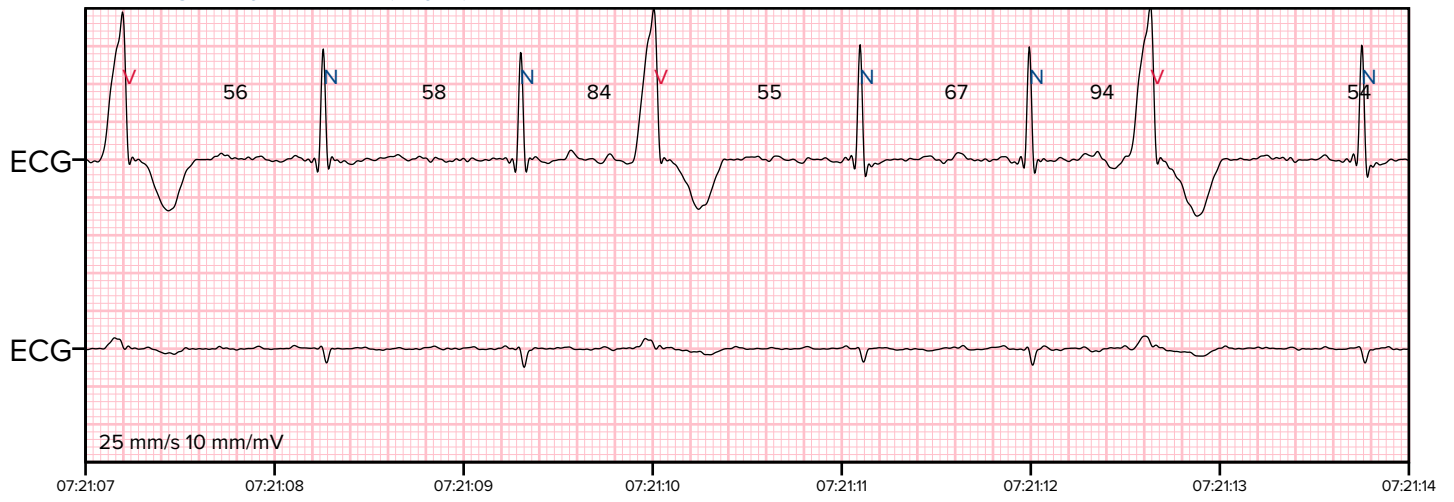
| | |
|------------------|-----------|
| AVNN | 950.90 ms |
| SDNN | 183.56 ms |
| SDANN | 93.68 ms |
| SDNN index | 155.21 ms |
| rMSSD | 197.56 ms |
| pNN20 | 84.06% |
| pNN50 | 65.44% |
| Triangular index | 14.69 |

Selected ECG events

Sinus rhythm: 17:28:20 (day 1)



Ventricular trigeminy: 07:21:07 (day 2)



Atrial fibrillation: 20:39:40 (day 1)



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 |