

Patient Information

Name:	N/A	Age:	N/A
Date:	02-12-2025	ID:	N/A

ECG Features

Feature	Value
Heart Rate Bpm	199.66116063900859
Sdnn Ms	4.377160002216631
Rmssd Ms	7.03835645150639
Pnn50 Percent	0.15060240963855423
R Peak Count	665
P Peak Count	665
Q Peak Count	665
S Peak Count	665
T Peak Count	663
RR Intervals (s)	Mean: 0.301, Max: 0.326
QRS Widths (s)	Mean: 0.143, Max: 0.154
ST Intervals (s)	Mean: 0.079, Max: 0.110

Automated Interpretation

Based on the ECG analysis provided, here are some key observations and insights:

- **Heart Rate:** The heart rate is significantly elevated at 199.7 bpm, which may indicate tachycardia (an abnormally fast heart rate). This could be a concern for cardiovascular health.
- **RR Interval Mean and Std:** The mean RR interval (0.301 s) is slightly above the normal range (0.16-0.32 s), while the standard deviation (0.004 s) is within the normal range. A slightly longer mean RR interval may suggest a slight increase in vagal tone, which can be beneficial.
- **SDNN and RMSSD:** The standard deviation of normal-to-normal intervals (SDNN) is 4.4 ms, which falls within the normal range for adults (less than 40 ms). However, the root mean square of successive differences (RMSSD) of 7.0 ms is slightly above the normal range (5-35 ms), suggesting a moderate level of physiological noise.
- **pNN50:** The pNN50 value, which represents the percentage of changes in RR intervals from high to low heart rate, is very low at 0.2%. This suggests that the patient's autonomic nervous system may be overactive or in a state of heightened sympathetic dominance.
- **QRS Duration Mean and ST Segment Mean:** The mean QRS duration (0.143 s) is within the normal range for adults (less than 100 ms), while the mean ST segment duration (0.079 s) is slightly above the normal range, which may indicate some level of myocardial ischemia or strain.
- **R Peak Count:** The R peak count of 665 is slightly below the normal range (1,000-1,200 peaks per minute for adults).
- **Arrhythmia Detected:** The ECG analysis detects an arrhythmia, which is a significant concern and warrants further evaluation by a medical professional.

In conclusion, this ECG analysis reveals several concerns:

- * Elevated heart rate
- * Slightly prolonged mean RR interval and above-average RMSSD

* Low pNN50 suggesting overactive sympathetic nervous system

* Marginally elevated ST segment duration

A thorough medical evaluation is necessary to determine the underlying cause of these findings.