

Cardiac Arrhythmia Detection Report

Generated on February 27, 2026 at 14:39:18 | AI-Assisted ECG Analysis System

Patient Information

Record ID: 207
Analysis Date: 2026-02-27 14:39
Signal Duration: 2.0 seconds (720 samples @ 360 Hz)
Lead: MLII (Modified Limb Lead II)

Prediction Result

■ **Uncertain Prediction – Human Review Recommended**

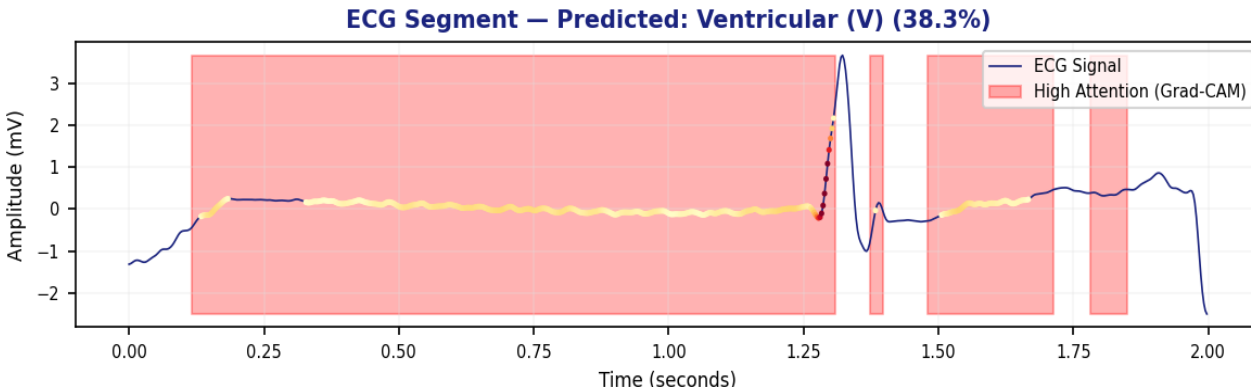
Predicted Class: Ventricular (V)
Confidence: 38.3%
Noise Level: 0.0%

Class Probabilities

Class	Probability
N	18.39%
S	16.86%
V	38.29%
F	18.18%
Q	8.28%

ECG Signal with XAI Heatmap

Red/warm regions indicate high contribution to the prediction. These highlighted areas correspond to morphological features that the AI model considers most important for its classification decision.



Model Explanation (Grad-CAM)

Red/warm regions indicate high contribution to the 'Ventricular (V)' prediction. Key attention zones: samples 48–66, samples 118–470, samples 498–498, samples 542–600. These regions likely correspond to morphological features characteristic of Ventricular (V).

DISCLAIMER: This report is generated by an AI-assisted academic prototype system and is NOT intended for direct clinical use. All predictions should be reviewed by a qualified healthcare professional. This system is designed for research and educational purposes only.