

Cardiac Arrhythmia Detection Report

Generated on February 27, 2026 at 14:28:56 | AI-Assisted ECG Analysis System

Patient Information

Record ID:	219
Analysis Date:	2026-02-27 14:28
Signal Duration:	2.0 seconds (720 samples @ 360 Hz)
Lead:	MLII (Modified Limb Lead II)

Prediction Result

■ Uncertain Prediction – Human Review Recommended

Predicted Class:	Normal (N)
Confidence:	47.7%
Noise Level:	0.0%

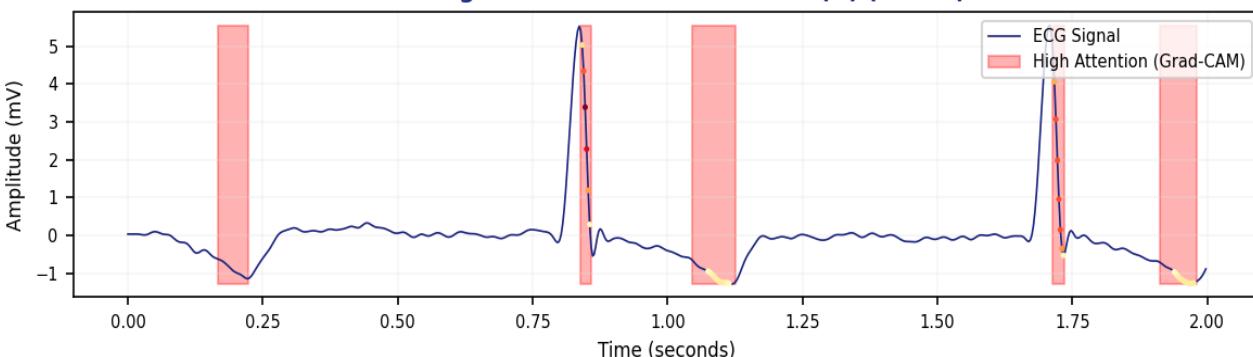
Class Probabilities

Class	Probability
N	47.75%
S	31.26%
V	6.38%
F	11.79%
Q	2.82%

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.

ECG Segment — Predicted: Normal (N) (47.7%)



Model Explanation (Grad-CAM)

Red/warm regions indicate high contribution to the 'Normal (N)' prediction. Key attention zones: samples 303–308, samples 387–401, samples 618–624, samples 698–711. These regions likely correspond to morphological features characteristic of Normal (N).

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.