

Cardiac Arrhythmia Detection Report

Generated on February 27, 2026 at 14:38:24 | AI-Assisted ECG Analysis System

Patient Information

Record ID:	207
Analysis Date:	2026-02-27 14:38
Signal Duration:	2.0 seconds (720 samples @ 360 Hz)
Lead:	MLII (Modified Limb Lead II)

Prediction Result

■ Uncertain Prediction – Human Review Recommended

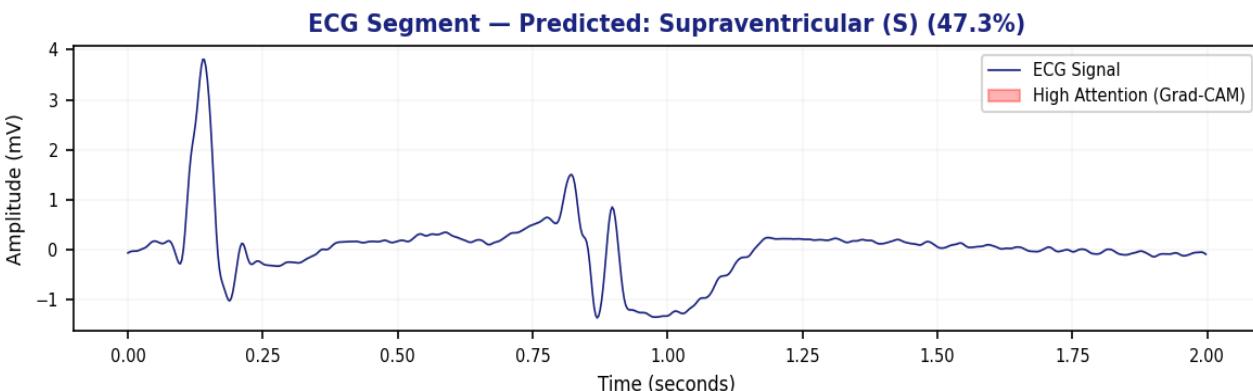
Predicted Class:	Supraventricular (S)
Confidence:	47.3%
Noise Level:	0.0%

Class Probabilities

Class	Probability
N	9.96%
S	47.28%
V	38.70%
F	3.39%
Q	0.67%

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)

The model shows diffuse attention across the ECG segment for 'Supraventricular (S)' prediction.

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.