

Cardiac Arrhythmia Detection Report

Generated on February 27, 2026 at 18:40:22 | AI-Assisted ECG Analysis System

Patient Information

Record ID:	116
Analysis Date:	2026-02-27 18:40
Signal Duration:	2.0 seconds (720 samples @ 360 Hz)
Lead:	MLII (Modified Limb Lead II)

Prediction Result

■ Uncertain Prediction – Human Review Recommended

Predicted Class:	Fusion (F)
Confidence:	51.9%
Noise Level:	0.0%

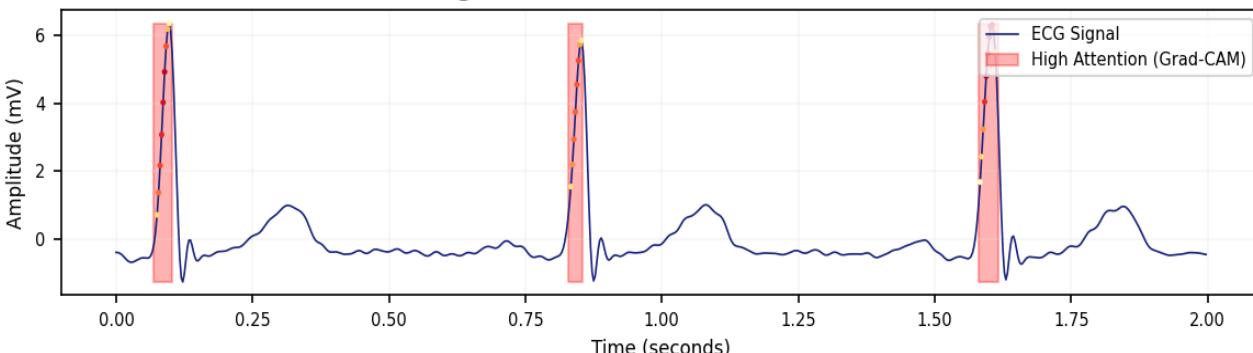
Class Probabilities

Class	Probability
N	42.26%
S	4.07%
V	1.50%
F	51.87%
Q	0.29%

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: Fusion (F) (51.9%)



Model Explanation (Grad-CAM)

Red/warm regions indicate high contribution to the 'Fusion (F)' prediction. Key attention zones: samples 27–35, samples 300–307, samples 570–580. These regions likely correspond to morphological features characteristic of Fusion (F).

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.