How the Guardian™ System Detected a 90% LAD Blockage in an Asymptomatic Patient — Before It Was Too Late.

A silent and potentially fatal heart blockage was caught early by the Guardian™ System, before the patient showed any symptoms.

This is the real story of a patient whose heart was silently in danger. With no symptoms and feeling perfectly fine, the patient went about their day — until the Guardian™ System triggered an Emergency Alarm.

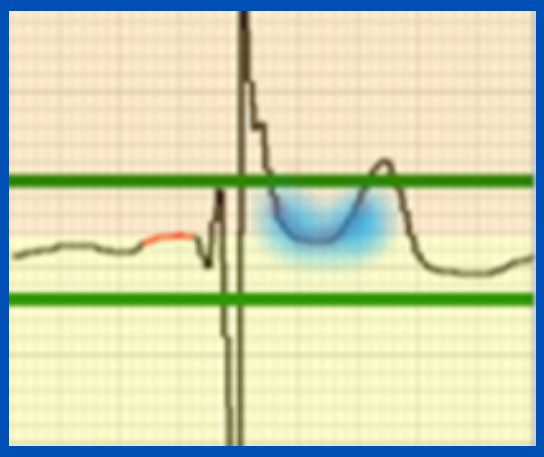
When doctors investigated, they discovered a 90% blockage in the Left Anterior Descending (LAD) artery — a type of coronary occlusion often called the "widowmaker". Thanks to the early alert, the blockage was treated immediately with a stent, and the patient avoided heart damage entirely.

What Makes the Guardian™ System So Powerful?

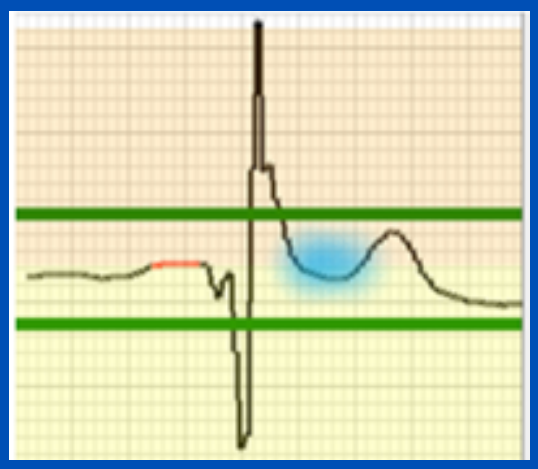
Inside-the-Heart ST Segment Monitoring
Unlike surface ECGs, the Guardian™ System monitors ST segment changes directly from inside the heart. This allows it to detect both ST elevation and depression, offering a clearer view of ischemic events, regardless of the blockage's location.

Custom Thresholds, Powered by Machine Learning
The Guardian™ System analyzes thousands of the patient’s own heartbeats to create personalized ST shift thresholds. These are continuously updated throughout the life of the device — providing a personalized early warning system.

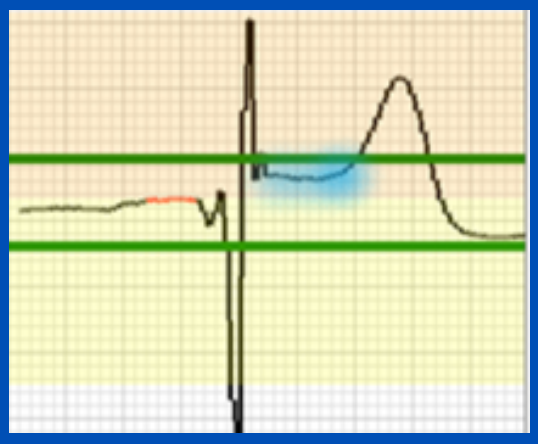
The 10-Hour Timeline That Changed Everything



10 Hours Prior
ST Shift: 0.0%

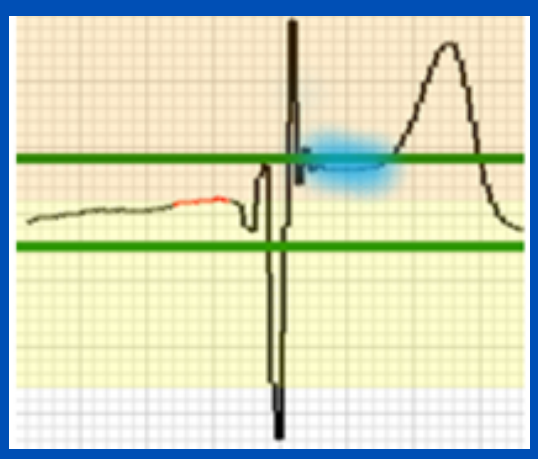


5 Hours Prior
ST Shift: 3.1%



1 Hour Prior
ST Shift: 12.5%

1 Minute Prior
ST Shift: 20.4%
Prior



Alarm Triggered
ST Shift: 19.4%

Over just 10 hours, the Guardian™ System tracked the progressive ST segment changes that signaled increasing danger — invisible to the patient, yet clear to the implant.

The patient never felt a thing. But the the Guardian™ System did its job.