NotifyLink Case Study:

ST-Elevation Analysis Using (NotifyLink) Wireless Technology: Achieving the Golden Hour in Acute Myocardial Infarction (STAT-MI Trial)

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Devices: **Audiovox XV6700**
Carrier: **Verizon Wireless**
Platform: **Novell GroupWise**

The STAT-MI Trial commenced on May 1, 2006 at UMDNJ - University Hospital in Newark, NJ to study the application of newer wireless handheld technologies for the rapid triage of patients with myocardial infarction ("heart attack"). In this model, patients with signs and/or symptoms of a myocardial infarction have a 12-lead electrocardiogram (ECG) completed by emergency personnel during the initial evaluation at the scene of the call.
The ECG is then transmitted from the monitor to a cellular phone via Bluetooth® technology and immediately sent to receiving stations in the Emergency Room and Cardiac Catheterization Lab at University Hospital. The receiving station in the Cardiac Catheterization Lab then instantaneously converts the file to PDF format and using NotifyLink sends the ECG to the e-mail addresses of all the cardiologists for analysis by the cardiologist on call. The cardiologist uses a PDA/Smartphone to view the transmitted ECG without respect to their physical location.

Unlike many other enterprise email solutions NotifyLink provides a single solution supporting virtually all Palm, Windows Mobile, and BlackBerry OS devices simultaneously over a variety of wireless networks: GSM/GPRS, CDMA/1XRTT, iDEN and 802.11x.

With the use of this system, it is hypothesized that there will be faster response times and decreased times to treatment for patients with myocardial infarctions. The decrease in these time measures will likely lead to decreased rates of complications related to myocardial infarction and heart failure.