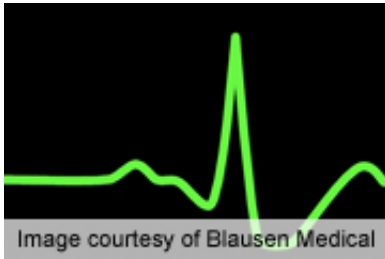


Wireless ECG speeds up heart attack treatments, study shows

18 November 2014



Qatar researchers found ambulance-to-angioplasty times cut dramatically with trans-satellite device.

(HealthDay)—A new wireless electrocardiogram (ECG) can cut the time it takes for heart attack patients to receive treatment, new research suggests.

A study from Doha, Qatar, examined outcomes among 510 [heart attack patients](#), and found a trans-satellite wireless 12-lead ECG cut the ambulance-to-angioplasty time by more than half an hour compared to standard treatments.

The research, by Dr. Abdurrazzak Gehani, chief cardiologist at the Heart Hospital in Doha, and colleagues was to be presented Tuesday at the American Heart Association meeting in Chicago. The data and conclusions of research presented at medical meetings should be viewed as preliminary until published in a peer-reviewed journal.

Ambulance crews used the ECG to take a patient's heart readings, which were immediately transmitted via satellite to the hospital so that cardiologists could determine the best treatment method while the patient was on the way.

In the study, 55 percent of the patients got wireless ECG and were sent directly to the Heart Hospital in Doha, while 45 percent did not get the wireless ECG and were sent to other hospitals first before arriving at the Heart Hospital.

The time between arrival at the Heart Hospital and the start of heart artery-opening angioplasty was about 53 minutes for patients in the wireless ECG group and about 104 minutes for those in the other group, the study showed.

The delay from the start of [heart attack](#) symptoms to the start of angioplasty was 36 minutes less for [patients](#) in the wireless ECG group than for the other group. They also had a lower risk of death while in hospital (2.5 percent versus 3.5 percent) and shorter hospital stays (3.4 days versus 4.3 days), the findings showed.

More information: The U.S. National Heart, Lung, and Blood Institute has more on [heart attack treatment](#).

Copyright © 2014 [HealthDay](#). All rights reserved.

APA citation: Wireless ECG speeds up heart attack treatments, study shows (2014, November 18)
retrieved 12 May 2021 from <https://medicalxpress.com/news/2014-11-wireless-ecg-heart-treatments.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.