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Integrated wireless sensor network for monitoring pregnant women.

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Abstract

The paper presents an integrated monitoring system for pregnant women in the third trimester using a mobile cardiotocograph and body sensors. The medical staff has a useful tool to detect abnormalities and prevent unfortunate events in time. The mobile cardiotocograph sends data in real time to a Smartphone that communicates the information in a cloud. The physician accesses the data using the hospital ObgGyn application. The advantage of using this system is that the pregnant woman can follow her pregnancy status evolution from home, and the physician receives alarms from the system if the data is not in normal range and has available information about the health status at any time and location.

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Categories / Classification

Research Areas: Obstetrics & Gynecology; Medical Laboratory Technology; Computer Science; Reproductive Biology; Telecommunications; Operations Research & Management Science (provided by Thomson Reuters)

MeSH Terms:

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