HEART RATE MONITOR FOR PREVENTING THE RISK OF PRE-ECLAMPSIA AFTER CHILD BIRTH

Team 3
NEWS FLASH

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Approximately 800 women die from pregnancy or childbirth-related complications around the world every day. Ninety-nine percent occur in developing countries.

The complications that account for 80% of all maternal deaths are:
• severe bleeding (mostly bleeding after childbirth)
• infections (usually after childbirth)
• high blood pressure during pregnancy (preeclampsia and eclampsia)
• unsafe abortion
PROBLEM

A study in Hypertension, a journal of the American Heart Association, found that lingering hypertension is common among women who have severe preeclampsia during their pregnancies.
In fact, many women don’t know they have elevated blood pressure after they deliver.
A woman’s blood pressure is monitored in the hospital and it’s routinely taken when she visits her doctor for a check-up about six weeks after delivery.
What if the readings show all is well in a clinical setting, but her blood pressure is actually still high?
OUR SOLUTION

Introducing a wearable device in form of a sports bra and wristwatch communicating via bluetooth that keeps track of the user’s heart rate. Whenever there is a spike in blood pressure, the user is alerted by a beep. The LCD screen displays the pulse rate of the wearer and could alert medical care if spike in blood pressure persists.
Our Goals

- Monitor Heart rate in real time
- Alert the user when readings are high
- Making the device fashionable
START

CALCULATES THE HEART RATE BASED ON THE VALUES RECEIVED

READS ANALOG DATA FROM HEART RATE SENSOR

DISPLAYS HEART RATE ON LCD

NORMAL?

GREEN LED COMES ON

BUZZER BEEPS FOR 5 SECS

NO
GRACIAS