Safer Deliveries
Using Point of Care Decision Support and Monitoring
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Challenge

Provide answer to two questions
1. Is the baby doing well?
2. Is labor progressing normally?

Fetal distress is indicated by changes in FHR during contractions which cannot be seen using current technology in low resource settings.

Electronic partogram provides data to answer second question but nurse/midwife may need additional guidance in what interventions are needed.

Why it is Important

- Reduce fetal asphyxia, neonatal death, cerebral palsy and other sequelae of asphyxia
- Provide specific guidance to nurse/midwife on when to intervene and what to do in timely fashion
- Develop quality standard of care for high risk obstetrical patients in low resource settings
- Decrease costs to healthcare system

Proposed Solution

- ECG sensor connected to low cost Android phone
- Simultaneous monitoring of fetal heart rate and uterine contractions fed into ePartogram
- Analytics on tablet to integrate fetal and maternal monitoring within overall clinical context
- Tablet based decision support to indicate danger signs and provide specific guidance to nurse/midwife in low resource setting