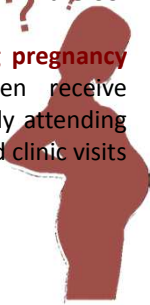


Encouragement System

Kaitlyn Schirmer, Yi-Chen Sung, David Swanson

PROBLEM

- **Maternal mortality is high**
Maternal mortality in Kenya is 530/100K versus 24/100K in the US.
- **Low clinic visits during pregnancy**
Currently, women often receive little antenatal care, only attending 1 of the 4 recommended clinic visits during pregnancy.



RESEARCH

RELATED WORK

- **MOTECH** sent messages to women in Ghana and found that they needed to use voice messages due to low literacy rates.
- **WelTel Kenya1** is a study in Kenya with HIV positive patients showed that including SMS communication improved treatment.

FIELD WORK KEY FINDING *

- Pregnant women lack health knowledge
- Women often do not plan for the financial burden of pregnancy and birthing
- SMS is a popular form of communication in Kenya
- Cell phone coverage is reasonable
- Female literacy rate is high

SOLUTION

Send **interactive** SMS messages containing **practical** and **actionable** information that will **encourage** and **empower** the women to take their health care into their own hands.

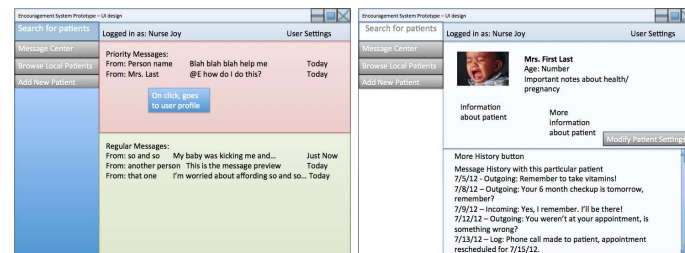
KEY FEATURES

- **For Pregnant Women**
 - Tailored messages
 - Allow women to reply messages
 - Allow women to pull information when needed
 - Encourage participation through incentives
- **For Clinics**
 - Automatically and periodically send messages to women based on their pregnancy status and their preference.
 - Prioritizing replying messages depends on the woman's pregnancy risk level, frequency of replying messages, time, keywords, etc.

NEXT STEPS

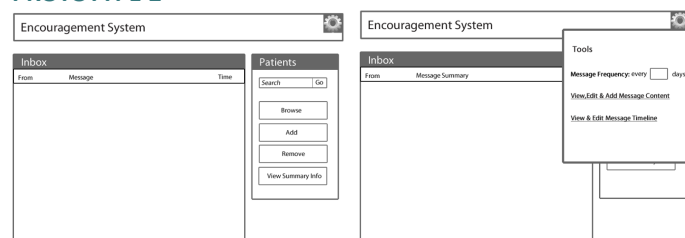
- Build user interface
- Integrate with SMS and user/client databases
- Create algorithm of prioritizing messages

PROTOTYPE 1



Loved the history, and sending messages from the user page. Liked the medical summary idea.

PROTOTYPE 2



Having two very different functional blocks (inbox, patient management) on the same page causes problems.

PROTOTYPE 3



Liked the pulling information feature (to-do list), messages history, and always shown profile information.