The Baby Beanie
A DESIGN BY VITAE

Jonathan Franks, Shelby Hicks, Yen-Nan Lin, Taj Shah, Maura Weis
FOCUSED NEEDS

- Monitor, collect and transmit vital sign data
- Organize and present vital data
- Minimal contact (non adhesive) with infant skin
DESIGN INPUTS

- Monitor heart rate, respiratory status, and temperature
- Ease of use
- Increased customer compliance
- Minimize false positive
- Wireless
- Information sent to cloud storage
BRAINSTORMING

- Mattress
- Diaper belt
- Chest belt
- Beanie hat
FINAL DESIGN

Benefits:
- Easy to use
- No exposed wire
- Decrease false positives
- Wireless transmission
PROTOTYPE
REACHING TARGET GOALS

- Minimize contact with infants
  - sensors contact at spots where typical contact already exist (newborn hats)
- Monitor, collect and transmit vital sign data
  - Temperature and pulse rate
- Organize and present vital data
- Transmit to computer through wifi
FUTURE WORK

- Incorporate pulse oximeter into SparkCore
- Enhance interface
- Refine false positive rate
- Increase accuracy of sensors
- Optimize size
- Broaden market
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Questions?
REFERENCES

