NICU Story

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The Team

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Computer Science

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Economics

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Product Design
Parent Interviews

- “The NICU is **everything you don’t expect** when walking into your baby’s room.”
- “It’s like skimming a textbook: you’re reading the chapters, but **not really understanding** anything.”

Parents want to fully understand what is happening to their child, but there is **so much information** that it is hard to keep track of it all.
Point of View Statement

Liz needs a way to synthesize all of the medical information she receives in order to feel confident in her care of her child.

How might we instill a sense of normalcy in a landscape of medical jargon?
Iteration 1: Scrappy Book

- Babies in the NICU are all in different situations. The Storybook needs to adjust to fit different needs.

- Some parents may not want medical information mixed in with their memories and mementos.

- Families at LPCH already receive a book of basic information about the NICU, made by March of Dimes.
Iteration 2: Higher Res Google Presentation

- Digital book experience with **modifiable** sections
- Feedback: the daily report stinks
  - medical jargon
  - no reference point
  - progress towards the 3 milestones
Final Iteration Goals

- Better daily reports
  - allow for customized information
  - report progress towards three milestones
- Accommodate different outcomes
  - e.g. baby has passed away
- Paper and digital options
Demonstration
Our NICU Story

Baby Joanna “Jo”
My Care Team

Doctor: Dr. Cohen, “Ron”

Neonatal Nurse: Miranda

Resident: Adrianna

Primary Care: Dr. Brown
Contact: Ron

Phone: 555-555-5555

E-mail: cohen@nicu.com
#1 EATING:
Weight: 5lb 11oz
Change since yesterday: +3.2oz
Change since birth: +13.5oz
Total milk consumed: 393mL
By stomach tube

#2 TEMPERATURE: Holds when removed from isolette

#3 BREATHING: Breathing on own
A/D/B episodes: 0

Based on these numbers, your baby has about 2 weeks before discharge.
A/D/B Episodes:
Apnea, desats, and bradycardia. Apnea is when breathing stops. Desats refer to a drop in the baby’s oxygen saturation; normal saturation varies depending on your baby’s age, but can range from the 80’s up to 100. Bradycardia is a slowing in a baby’s heartrate. A/D/B episodes often occur in preemies, but should decrease with time.
Advantages

- economic benefits
  - save clinicians’ time since parents can look up information
  - transition to home benefits: fewer ER visits

- family benefits
  - normalcy
  - record memories
  - information as you want it
Next Steps

● Parent survey
  ○ “Opportunity to capture the good and bad during my child’s NICU stay”
  ○ Add a sharing capability via social media
Questions?