


FunPod Prototype



Team Mission Statement

- ◆ Our mission is to provide a more kid-friendly and effective system to help children recently diagnosed with Type 1 Diabetes. We will do this by incentivizing better care through a points system and providing feedback through analysis of data.

Representative Tasks



1. Checking blood sugar (simple)

- Fast (once you are used to it)
- Needs to be done several times each day
- Must eat snack or cut back on insulin when blood sugar is low
- Must drink water and take more insulin when blood sugar is high

Representative Tasks



2. Counting carbs (moderate)

- Needs to be done when eating/snacking
- Requires practice
- Can cause anxiety
- Can be imprecise

Representative Tasks



3. Administering insulin/bolusing (complex)
 - What have you eaten?
 - What was your blood sugar previously?
 - What activities will you be doing later?
 - What amount of insulin do you need?

Methods

◆ Participants



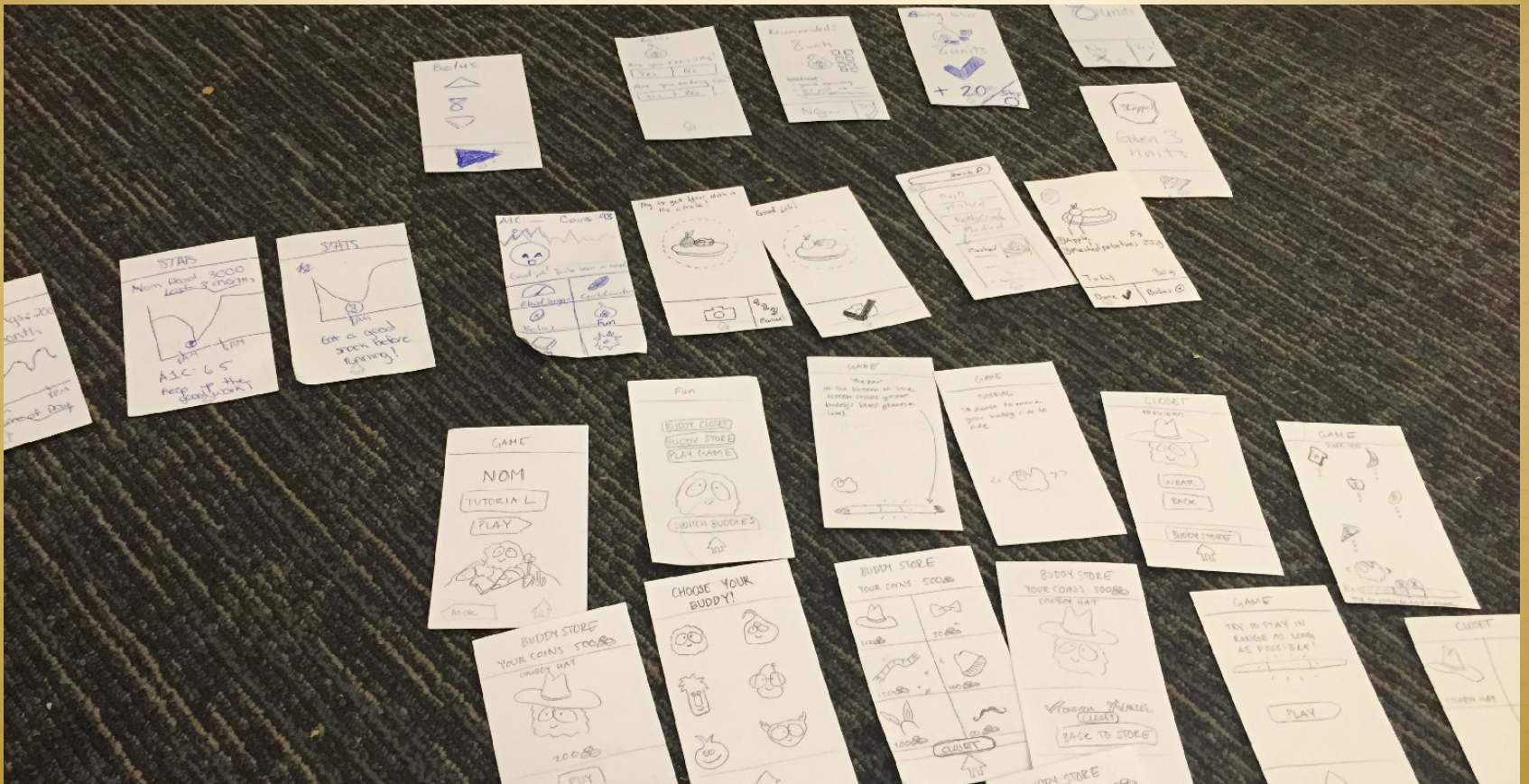
- ◆ Males in their early 20s
- ◆ Diagnosed at 10, 12, & 13
- ◆ Compensated with coffee from Coupa/Starbucks

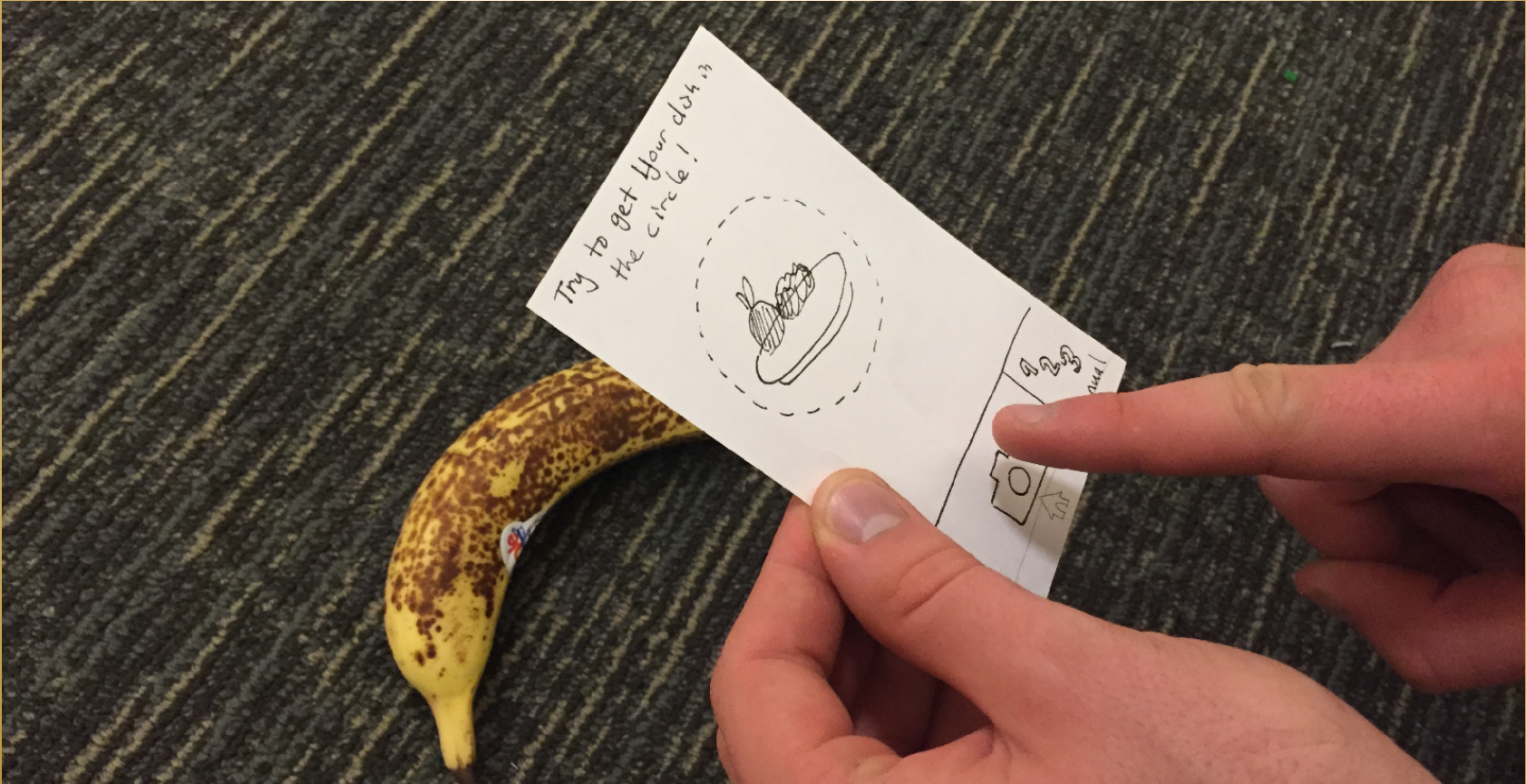
◆ Environment

- ◆ Café, busy
- ◆ Cards laid out, clock
- ◆ User given appropriate card

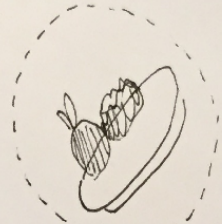
◆ Testing Procedure

- ◆ Note taker
- ◆ Timer
- ◆ Facilitator





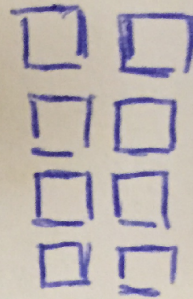
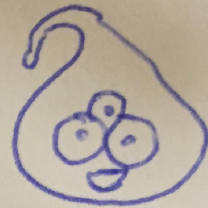
Try to get your dish in the circle!



- 1
 - 2
 - 3
- check!

Recommended:

8 units



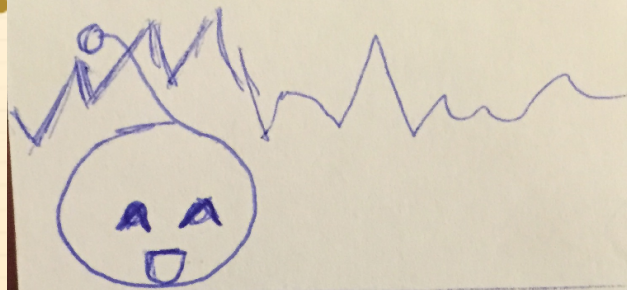
because:

- you're exercising
 - you just ate
- blood sugar

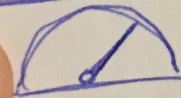
Nooooo
↑

Yes!

A1C: — Coins: 98



Good job! You've been in range!



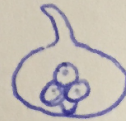
Blood Sugar



Carb Counter



Bolus



Fun



Log



Results



- ◆ Counting carbs took longest, ~2 min
- ◆ Bolusing took ~1 min
- ◆ Testing blood sugar took shortest ~30 sec
- ◆ Sorting through data analysis needed a lot of explanation

Try to get Your dot in
the circle!



Good job!



Search P

Back

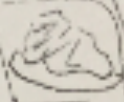
Mash

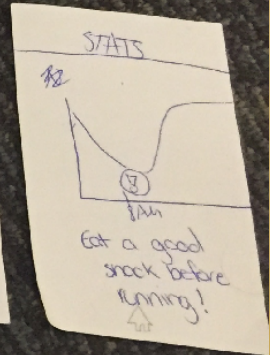
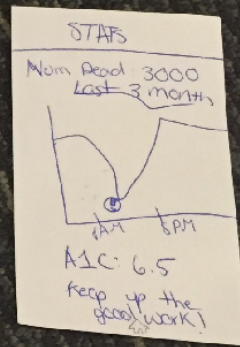
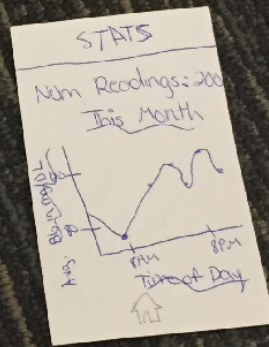
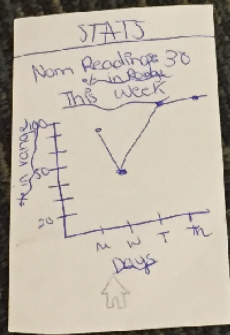
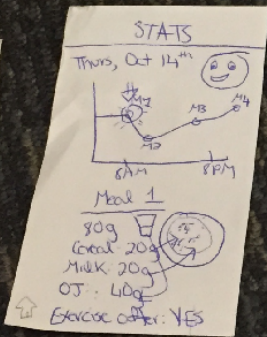
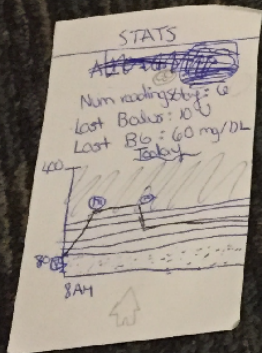
Mashed

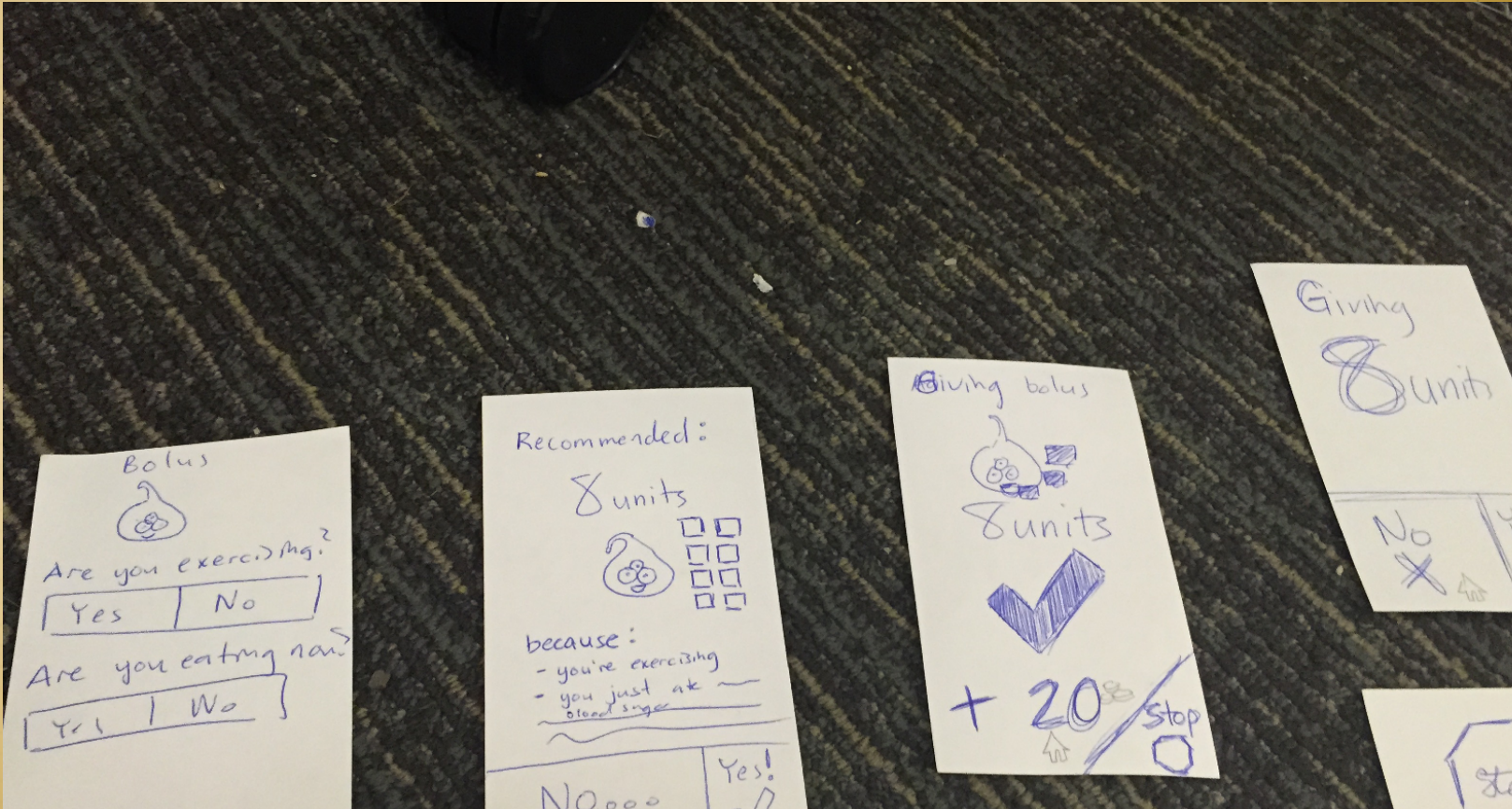
Betty Crocker


Mashed

Mashed








Bolus

 Are you exercising?

Yes	No
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 Are you eating now?

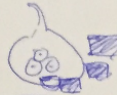
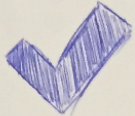


Yes	No
-----	----

Recommended:
 8 units


□	□
□	□
□	□


 because:
 - you're exercising
 - you just ate
 stand longer

No...	Yes!
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Giving bolus

 8 units

 + 20  stop 

Giving
 8 units

No	Yes
----	-----



stop

Suggested UI Changes



- ◆ Tab Bar View Controller for graphs, instead of relying on pinch gesture
- ◆ Confusion about what check mark means after carb count
 - ◆ Bolus too technical for a term
- ◆ Not letting very young kids change important aspects

Summary



- ◆ All participants felt this device had potential
- ◆ Displaying data effectively biggest challenge
- ◆ Cute worked.