

# UX DESIGN

## Tom Columbus

### Project Assumptions:

- The doctor is the administrator of the widget and can send their prescription to the widget via some other service or application.
- The widget is capable of retrieving and presenting information about the prescribed medication via access to an internet data base, native content or some other content source.
- The widget is completed over the course of the six-week regiment and the patient reports their daily adherence one day at a time.

### Design Consideration:

- Because this is a proof of concept piece I kept the focus on the conceptual design of the widget and only hint at the visual design aspects. I purposely used shades of gray and Helvetica in order to minimize distractions.

## Research

Source: [http://www.medscape.com/viewarticle/782609\\_1](http://www.medscape.com/viewarticle/782609_1)

\*Google the link and view the first results, otherwise it asks for membership

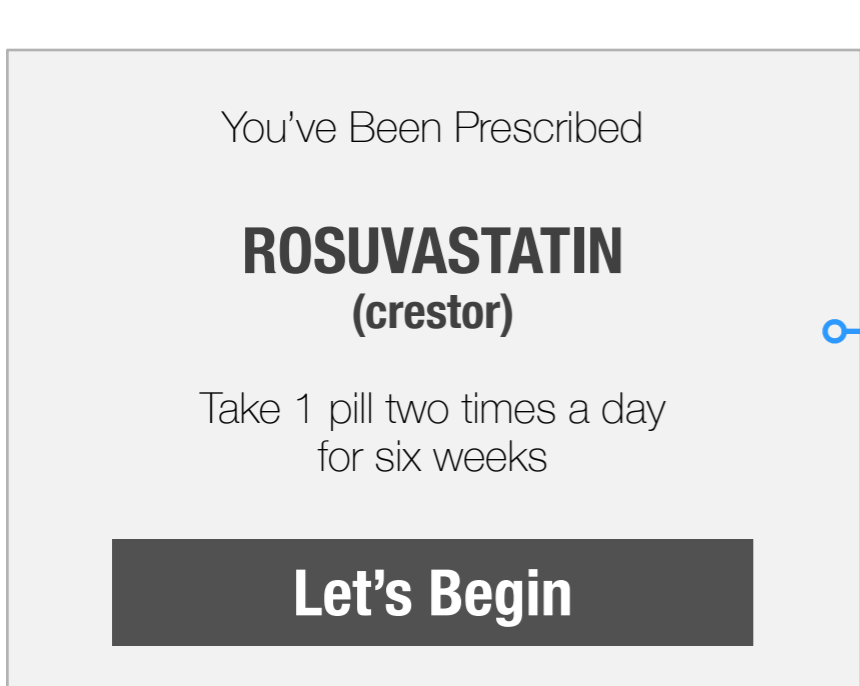
Data Cited: "Using a combination of tailored interventions such as patient education, patient self-monitoring of specialized care, and stimuli to take medications have the greatest potential for improving adherence."

"Data suggest that patient education is one of the best methods for improving adherence"

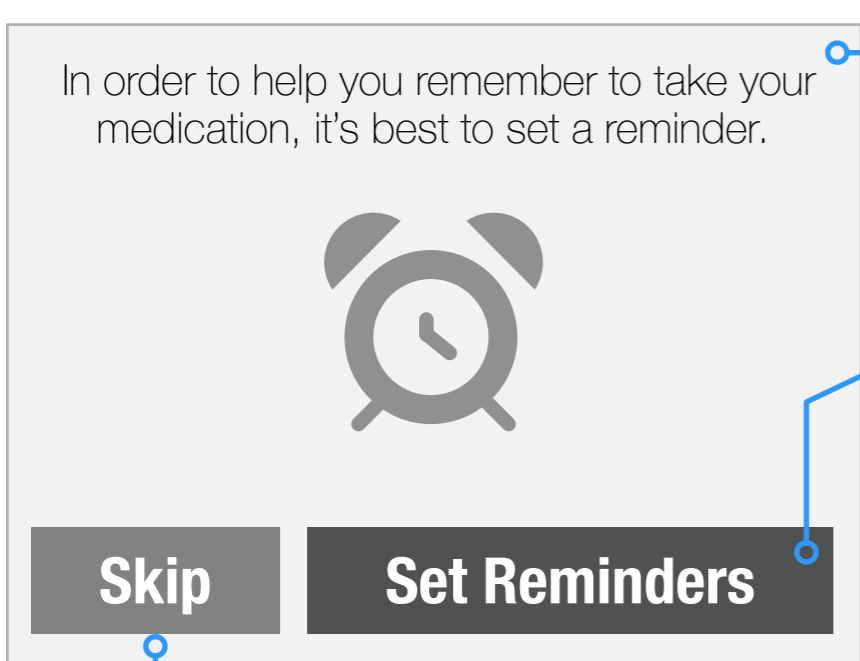
Source: <http://www.rxlist.com/crestor-drug/medication-guide.htm>

Data Cited: "CRESTOR blocks an enzyme in the liver causing the liver to make less cholesterol"

## Initial Set-Up of Widget



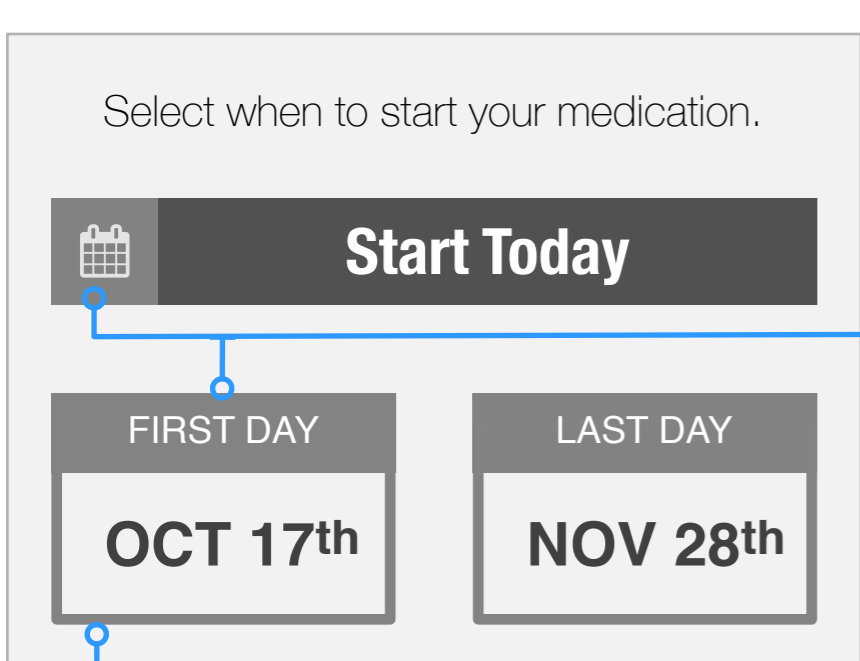
Initial screen displays the prescription and the dosing regimen. The call to action has an inclusive casual encouraging tone to it.



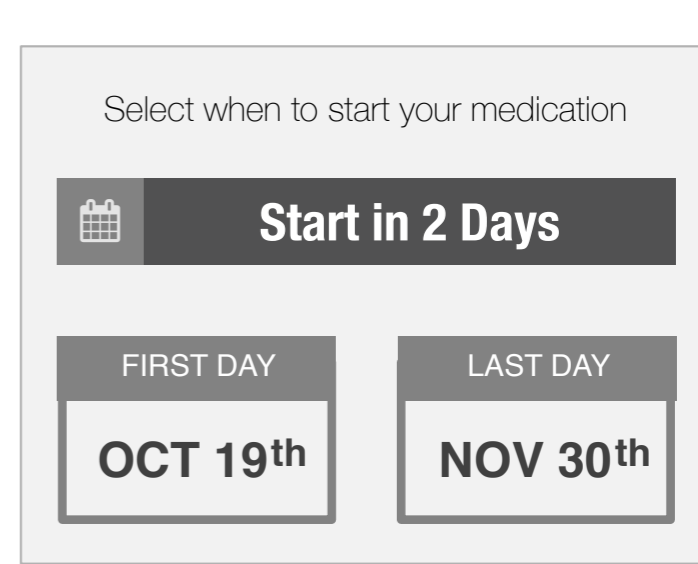
This screen was not part of the initial requirements. However, the research I found suggest that using tailored interventions, such as setting an alarm, have the greatest potential for improving adherence.

I did not include a wireframe for the reminder set up, as it was not in scope. It could be as simple as the user sets a time, or could be more complex depending on the use cases we explore.

The user has the opportunity to skip the reminder set up initially and proceed to the next screen.

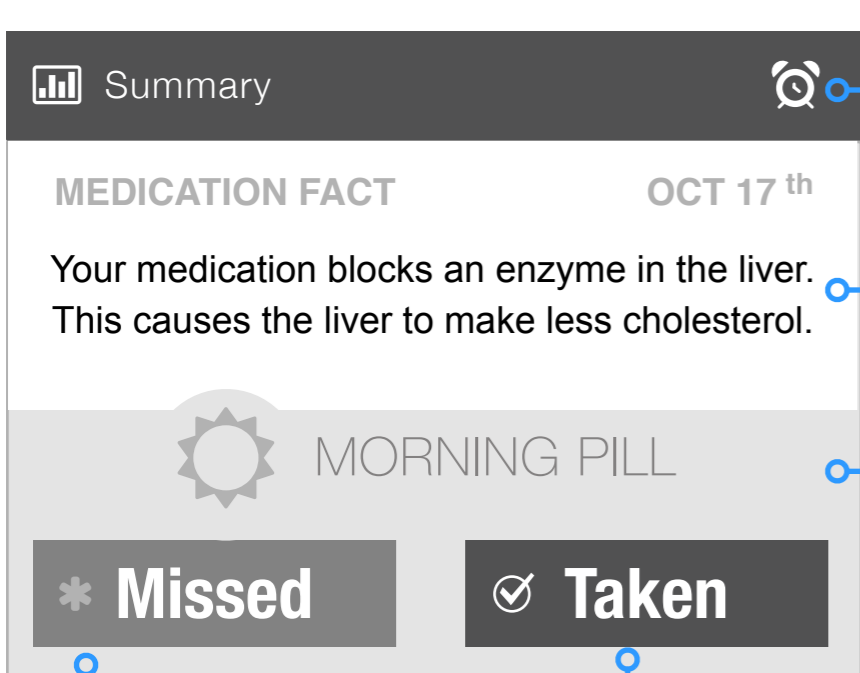


If the patient wanted to set the start date, they could select a date here.



Dates for the First and Last day the patient has to take the medication are displayed to further inform the user.

## Daily Use of Widget



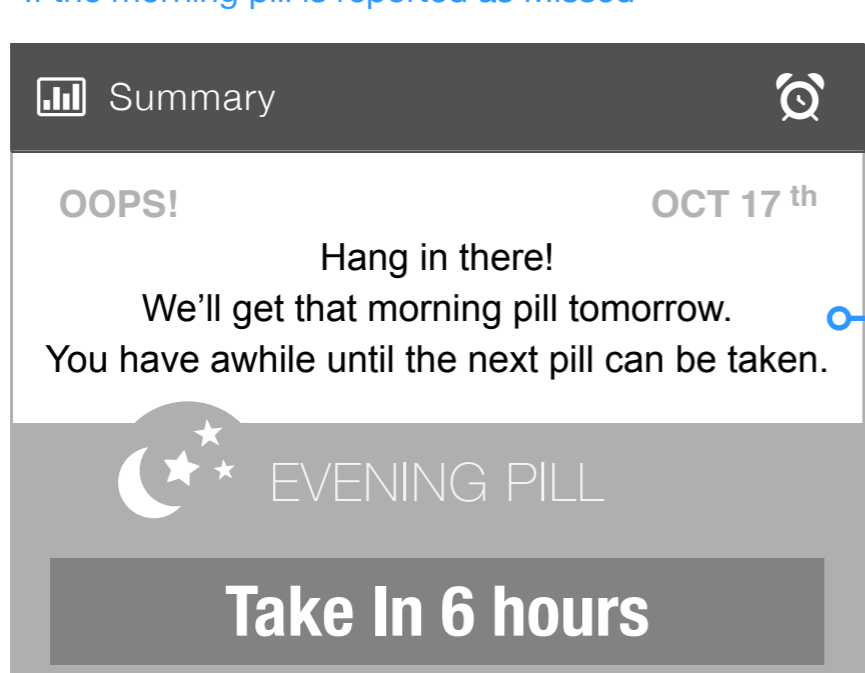
The user can edit their reminders or establish them at their leisure if they skipped the initial set-up.

According to the research I found, educating the patient about their medication can also improve their adherence rate.

\* With the popularity of wearable smart devices, like activity and fitness bands, there could be an opportunity to show the patient the impact their medication is having on some of the biometrics that the device monitors. The data could possibly be passed to the widget.

A placard for the morning pill is displayed. The user has the two options 'Missed' and 'Taken' for reporting their adherence for the morning pill.

If the morning pill is reported as Missed

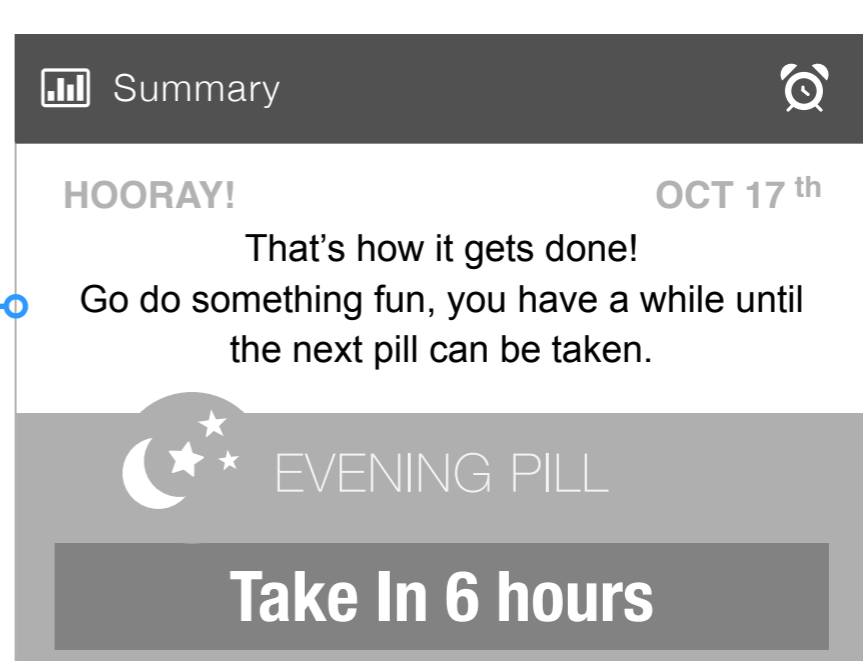


While the user could report the pill as missed very early in the day, the more likely scenario is that they will be in the process of missing the medication.

I've demonstrated that use case below.

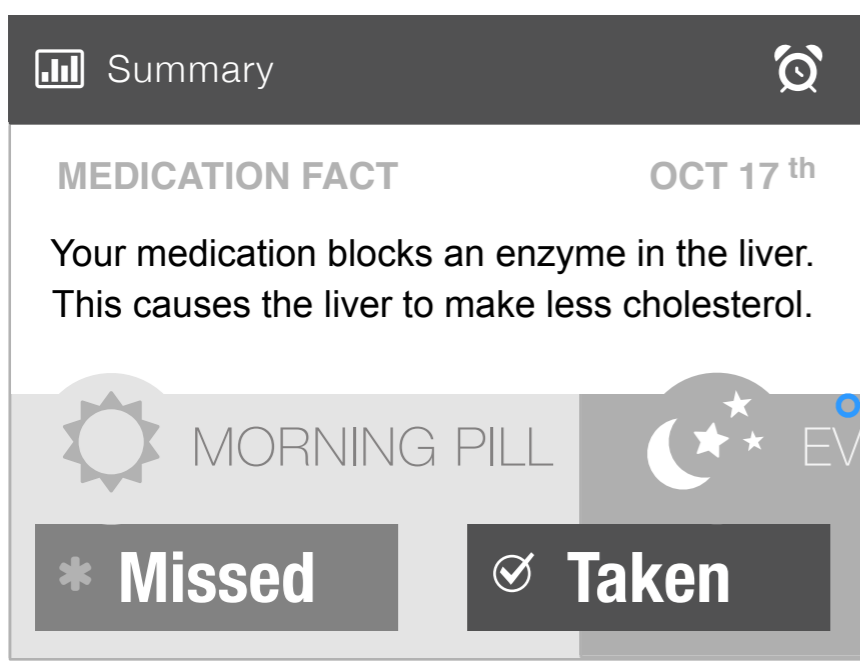
### Time Affordance

If the morning pill is reported as Taken

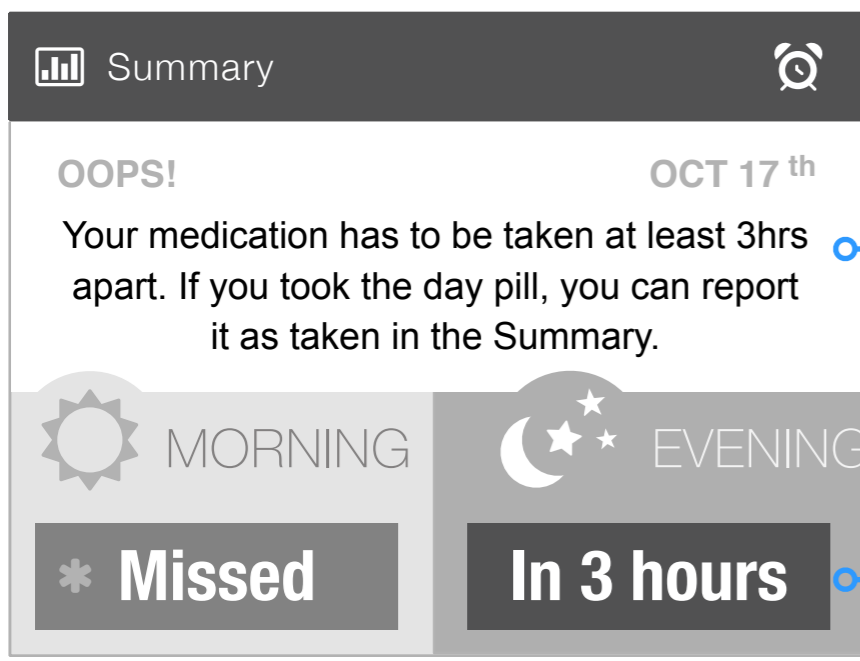


A positive message is used to both counsel the user that missed a pill and encourage the user that has taken their medication.

If the morning pill has not been reported as Taken or Missed



As hours pass and the time for the next medication starts to arrive, the placard for the evening pill would animate in slowly.

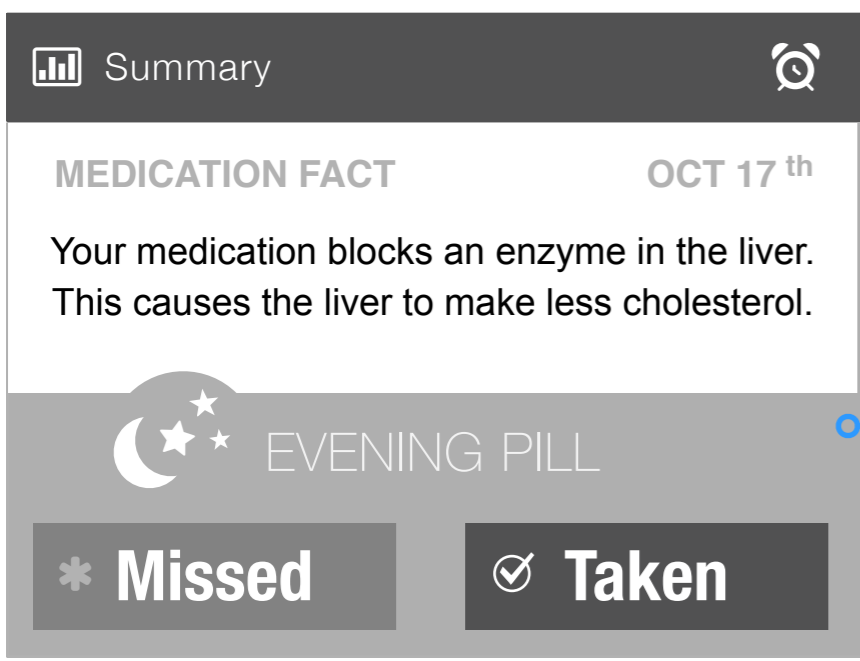


Once the window of time between when the doses can be taken has closed; the user has essentially missed the morning pill.

In order to not have the patient take the morning pill and evening pill too close together, they are encouraged to report the morning pill as missed and await the correct time to take the evening pill.

If the user has truly taken the morning pill and simply forgot to report it as such, they could navigate to the summary and enter it as taken there.

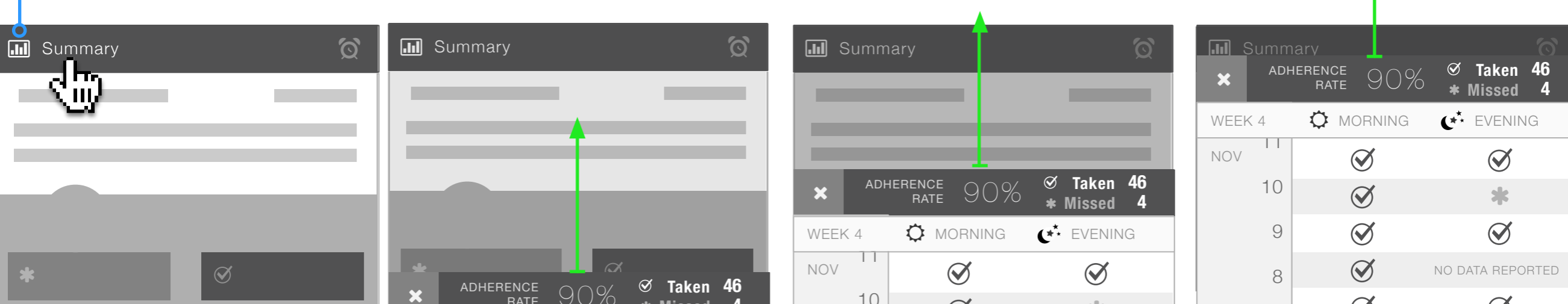
Time would continue to count down until the evening pill's dose time arrives. At that point, if the patient still has not reported anything, the "No Data Reported" status is marked in the summary.



Once the evening dose time has arrived, the evening pill placard is displayed and a similar count down until the morning dose would be initiated.

## Data Summary

Selecting summary would initiate an animation of the summary view. The summary view animates over top of the daily menu.



Closing the summary is initiated via the X icon in the top left. The Summary view animates back down.

Patient adherence data is tallied and displayed.

The week number would change as the user scrolled the list of dates and adherence data.

Today's date is shown at the top of the list and the user can scroll back through their historical data

\*It wasn't specified if the user enters the adherence for that use case if they could.

