

Presented by Emily, Lekha, and Max

Agenda

- Project Goals
- Design Solutions
- Usability Feedback
- Possible Future Design Update

Project Goals

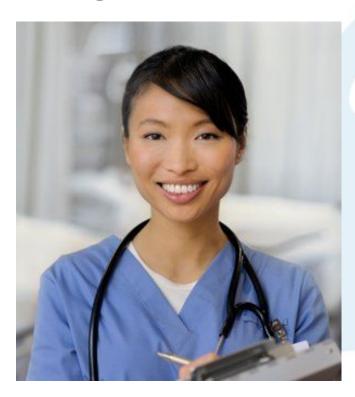
 Allow UCSF directors to evaluate overall program performance to improve patients' well-being

 Provide key metrics data so directors can make informed funding decisions to problematic locations

Design Solutions

- Program View and Location View are supported
- Both views display key metrics data: delirium duration, length of stay, and compliance rate
- Program View added patient outcomes info
- Location View added number of delirious patients per location

Design Solutions: Personas and Scenarios



Persona: Andrea Plat, location director

Scenarios:

- See her location's current delirium duration
- 2. Compare her location's key metrics to other units
- 3. Compare her location's key metrics to her own location's baseline

Design Solutions: Personas and Scenarios



Persona: Jessica Chao, program manager

Scenarios:

- Decide successful and problematic locations
- Measure the effectiveness of the overall DRI
- Decide how to best allocate funds for the initiative

Design Solutions: Personas and Scenarios



Persona: June Chan, UCSF director

Scenarios:

- Visualize overall program performance overtime
- 2. Correlate results to show program's overall effectiveness

Usability Feedback

What worked

- Program View provided trend lines showing decrease in delirium duration
- Location View highlights selected location's data

What required improvement

- Emphasized delirium duration and length of stay in graphs
- Established key metrics baseline per location
- Added graph captions

Usability Feedback - Program View Iteration 1



Usability Feedback - Program View Iteration 2



and from the most recent data point the average delirium duration is 3.72 days, indicating a reduction of 0.83 days in average delirium duration. The average length of stay for a patient when the initiative was first implemented was 16.17 days and from the most recent data point

the average length of stay is 6.51 days, indicating a reduction of 9.66

days in average length of stay.

Patient Outcomes

Authors: Max Lustyan, Lekha Patil, Emily Pedersen

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Usability Feedback - Program View Iteration 2

UCSF Delirium

Group 4 Final Project for INFO190

Program View

Location View

Authors: Max Lustvan, Lekha Patil,

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Emily Pedersen

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Initiative

UCSF Delirium Initiative

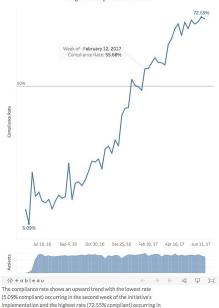
Group 4 Final Project for INFO 190

Program View Location View

Program Compliance

The rates of compliance for AWOL and NuDESC are calculated since the start of the program as well as in just 2017. The corresponding number of patients each week is indicated in the area graph below.

Program Compliance Over Time



the second to last week of the current data provided. From the start of

View the Website Source on GitHub

Emily Pedersen

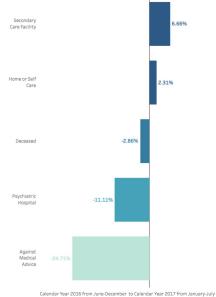
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Authors: Max Lustyan, Lekha Patil,

Patient Outcomes

This graph displays the change in percentage of patients' discharge outcomes between 2016 and 2017.

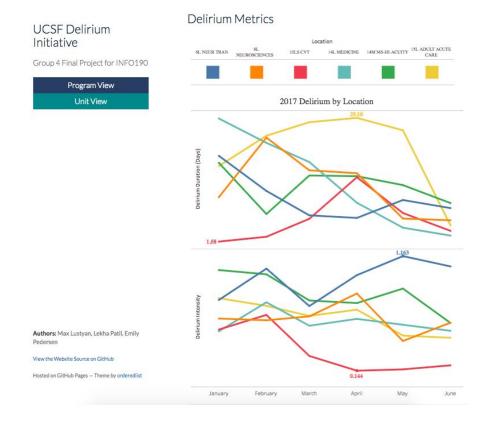
2016 to 2017 Change in Discharge Disposition



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The most drastic changes are the 24,71% decrease in patients who went against medical advice between 2016 and 2017 and the 6.66% increase

Usability Feedback - Location View Iteration 1

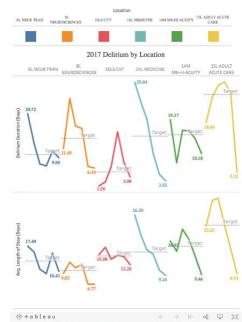


Usability Feedback - Location View Iteration 2

UCSF Delirium Initiative Group 4 Final Project for INFO190 Program View Location View

Delirium Metrics

This graph shows the average delirium duration (the number of days a patient spent delirious) by location and the average length of stay by location for 2017.



Authors: Max Lustyan, Lekha Patil, Emily Pedersen

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All locations except for 10LS CVT (red) showed a decrease in delirium duration. The lowest and highest average of each metric is annotated for convenience.

Possible Future Design Update

 A new graph to show financial impact of the Delirium Reduction Initiative

 This new graph would show correlations between a decrease in delirium days and length of stay per patient and improvement in hospital financial performance Thank you!

Questions?