

MITRE / FLUX NOTES **SELECTED CONCEPTS** v14.15

EDWIN CHOI, DANIEL REEVES, JUHAN SONIN, 22.OCT.2018



I RESPONSIVE HEADER

Current implementation

 **Flux Notes™**
Dr. Mona341 Brown483



Ella Ortiz111
DOB: 12 Aug 1975 (43)
Admin. Sex: Female
Location: Boston, MA

Condition

Invasive ductal carcinoma of breast

 Search Ella's record

Proposal

 **Flux Notes**
Dr. Bran24 Michel09A



Debra24 Hernandez98Aj

5 Apr 1966 (51)
Date of birth

Female
Admin. sex

Boston, MA
Location

12345432312
ROID

Spanish
Language

Ductal carcinoma of the breast
Condition

 Search Ella's record



Icon, "Flux Notes", and Dr. name are separate objects, and never scale. Name moves under icon. Title shifts left when necessary, and is backed by a graded transparent box of background cover.

Each pair is grouped, and maintains fixed width. The larger group scales until it hits a set minimum width.

Photo remains full size and shifts in response to window size. For very narrow windows, it scales down.


Search object scales, reducing length of line. Condition object does not scale, but should be smaller than it is currently. Larger group scales until the the two touch, then they stack, with "Condition" becoming hidden.

Alternative: Field labels on top.

 Flux Notes Dr. Bran24 Michel09A		Debra24 Hernandez98Aj <div>Date of birth5 Apr 1966 (51)</div> <div>Admin. sexFemale</div>	<div>LocationBoston, MA</div>	<div>ROID12345432312</div> <div>LanguageSpanish</div>	<div>ConditionDuctal carcinoma of the breast ▼</div>	<div>🔍 Search Ella's record</div>
------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------	-------------------------------	-------------------------------------------------------	------------------------------------------------------	-----------------------------------


This arrangement may be more standard and familiar to some. However, the first option is more visually balanced and gives visual stress to the data, rather than label.

Proposal at various widths



Flux Notes

Dr. Bran24 Michel09A



Debra24 Hernandez98Aj

5 Apr 1966 (51)
Date of birth

Female
Admin. sex

Boston, MA
Location

Spanish
Language


12345432312
ROID

Ductal carcinoma of the breast ▼

Condition


Search

Search Ella's record



Flux Notes

Dr. Bran24 Michel09A



Debra24 Hernandez98Aj

5 Apr 1966 (51)
Date of birth

Female
Admin. sex

Boston, MA
Location


Spanish
Language

12345432312
ROID

Ductal carcinoma of the breast ▼


Search

Search Ella's record



Flux Notes

Dr. Bran24 Michel09A



Debra24 Hernandez98Aj

5 Apr 1966 (51)
Date of birth

Female
Admin. sex

Boston, MA
Location


Spanish
Language

12345432312
ROID

Ductal carcinoma of the breast ▼


Search

Search Ella's record



Flux Notes

Dr. Bran24 Michel09A



Debra24 Hernandez98Aj

5 Apr 1966 (51)
Date of birth

Female
Admin. sex

Boston, MA
Location

Spanish
Language

12345432312
ROID

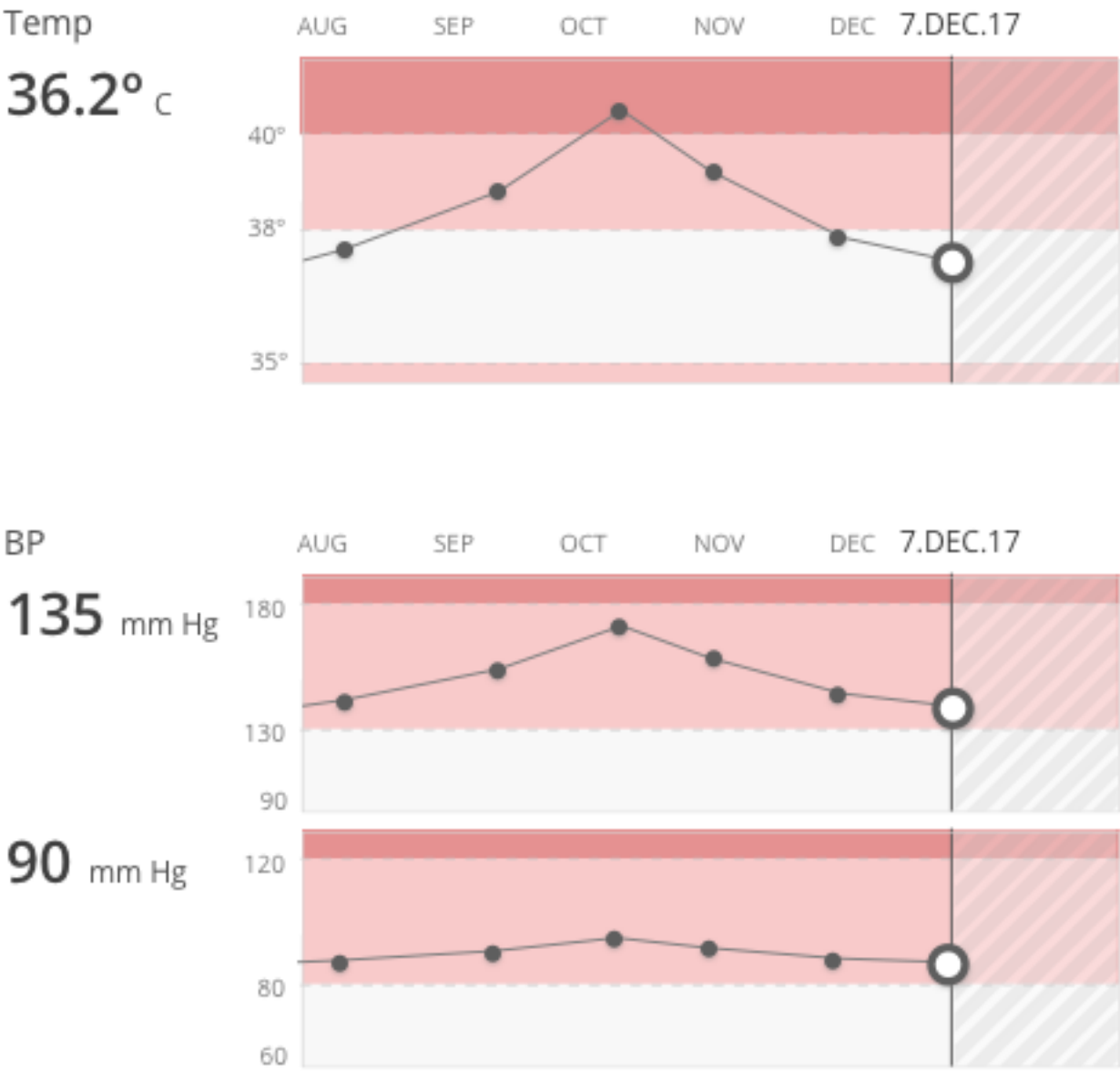
Ductal carcinoma of the breast ▼

Search

Search Ella's record

2 VITALS

Vitals, very similar to current designs for lab results



3 TIMELINE FILTERS

Timeline Gastrointestenstinal stromal tumor

Filter timeline medication: treatment

- medication intent

☒ treatment

☐ side effect management

☐ primary symptoms
- medication class

☐ inhibitors

☐ paid relief

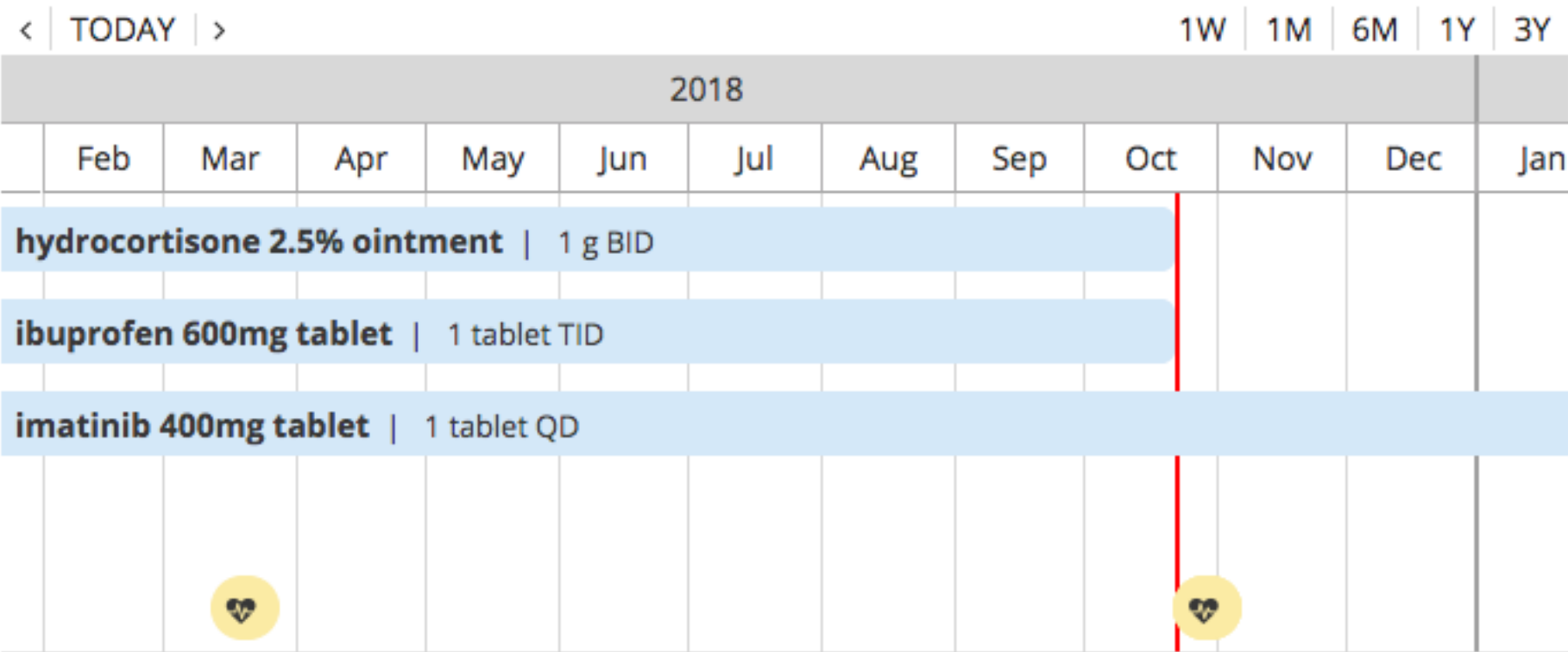
☐ something else that's long
- procedures


☐ surgery


☐ imaging
- events

☐ disease status

☐ key events



 : Medical procedures

 : Key events and disease status

4 EDITING CONTENT IN NOTES

Needs

1. ability to add commentary to retrieved data
2. ability to add notes within larger chunks of pulled in data (e.g. @oncohist)
3. ability to change styling for autoformatted content, such as from placeholders. The autoformatting may not fit into the narrative, and the clinician will try to fix it.

Considerations

1. There is a hierarchy of risk for editing text at different spots, and we must choose which are permitted:
 - inserting within a field of structured data
 - inserting, within the formatting between fields in a structured data element.
 - deleting within the formatting ""
 - inserting within the formatting between structured data elements
 - deleting within the formatting ""
2. Breakpoints, where editing and insertion is allowed, should be clear to user.
3. Placeholders are also formatted after interaction with the POC, and those results should also permit editing.

Proposal

The formatting of data retrieval sand placeholders are treated similarly to templates. There is a logical and visual separation of data elements from formatting text. The formatting text can be edited, whereas the data elements cannot.

Display: Data elements are marked and displayed as retrievals (grey), whereas formatting is not (standard text).

Interaction: When a user taps on formatting text, the cursor is inserted into the text as regular text. When a user taps on structured data, the element is highlighted. This visually marks the beginning and end of the uneditable text, allows the user to move off the element with left/right keys, and allows the user to delete the element if desired.

Challenge: In the case of placeholders, the user can continue to edit the data via the POC, which in turn changes the structured fields and formatted text in the note. How this is handled in terms of formatting as “plain” text is challenging. Perhaps the fields that have not been captured yet in the POC are inserted into the note as placeholder ghosts, but are not visible. In the near term, perhaps editing is not permitted for placeholders.

Physical Exam

@vitals

Physical Exam

Blood pressure is 143/89. Temperature is 96.2 F. Weight is 137 lbs. Heart rate is 75/min.

Physical Exam

Blood pressure is 143/89. Temperature is 96.2 F. Weight is 137 lbs. Heart rate is 75/min.

user hits right arrow

Physical Exam

Blood pressure is 143/89. Temperature is 96.2 F. Weight is 137 lbs. Heart rate is 75/min.

Physical Exam

Blood pressure is 143/89. Temperature as measured with tympanic sensor is 96.2 F. Weight is 137 lbs. Heart rate is 75/min.