MITRE / FLUX NOTES **DATA RETRIEVAL AND CURATION CONCEPTS v07**

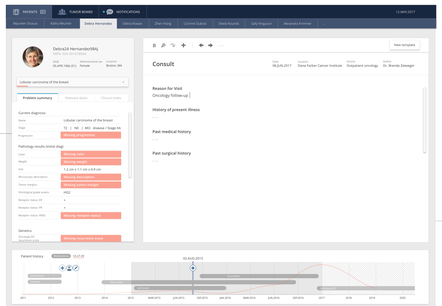
EDWIN CHOI, JUHAN SONIN, 26.JULY.2017

The following tablet/desktop designs are concepts describing oncology data retrieval and data curation within Flux Notes.

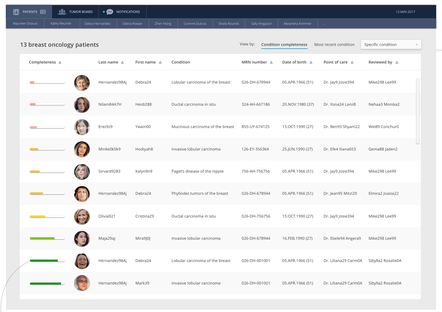
1 FLUX NOTES DATA RETRIEVAL + CURATION

There are 2 main users for Flux Notes. The clinician, and the data curator. While writing a clinical note for a particular patient, the clinician views previous notes to recall specific information/history. In the process, they update the patient problem summary with missing information, which they can use when writing future clinical notes. The data curator manages a list of patients: viewing each patient individually to fill in missing gaps of data.

1.1 FLUX NOTES DATA RETRIEVAL + CURATION (ONCOLOGIST)



1.1 FLUX NOTES DATA RETRIEVAL + CURATION (DATA CURATOR)

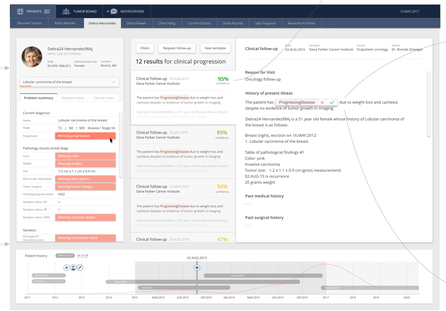


DATA COMPLETENESS IS BASED ON THE FOLLOWING:
- EACH CONDITION THE PATIENT HAS, HAS IT'S OWN 'COMPLETENESS' VALUE
- EACH DATA ELEMENT IS WEIGHTED DIFFERENTLY IN IMPORTANCE
- # OF HIGHEST PRIORITY DATA ELEMENTS THAT ARE MISSING

View by: **Condition completeness** | Most recent condition | Specific condition

CONDITION COMPLETENESS: RANKS THE PATIENT LIST BASED ON THE PATIENT CONDITIONS WITH THE LEAST DATA COMPLETION
MOST RECENT CONDITION: RANKS THE PATIENT LIST BASED ON DATA COMPLETION FOR ALL PATIENTS MOST RECENT CONDITION
SPECIFIC CONDITION:ABILITY TO CHOOSE THE SOLE CONDITION TO SHOW.THESE WILL BE RANKED BY LEAST TO GREATEST DATA COMPLETION

1.2 FLUX NOTES DATA RETRIEVAL + CURATION

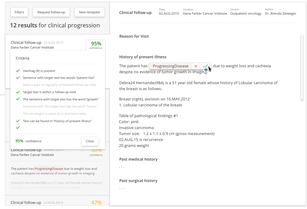


THE SYSTEM SEARCHES FOR THE SELECTED DATA ELEMENT VALUE BY LOOKING THROUGH THE PATIENTS PREVIOUS CLINICAL NOTES BASED ON A SPECIFIC SET OF BACK-END RULES. ALL THE POTENTIAL CANDIDATES WITH THE HIGHEST LIKELIHOOD OF BEING A CORRECT DATA ELEMENT VALUE ARE DISPLAYED FIRST. THE DATA CURATOR OR ONCOLOGIST THEN VALIDATES THE DATA ELEMENT VALUE TO ENSURE ACCURACY.

95% confidence — LIKELIHOOD OF BEING A CORRECT ENTRY

Request follow-up — SENDS A REQUEST TO THE APPROPRIATE CONTACT TO VALIDATE THE DATA ELEMENT

Lobular carcinoma of the breast — COLORED BAR DENOTES LEVEL OF DATA COMPLETION FOR THE PARTICULAR CONDITION



ABILITY TO VIEW THE SPECIFIED RULES OR CRITERIA THAT LED TO THE CONFIDENCE LEVEL.

History of present illness
The patient has ProgressingDisease due to weight loss and cachexia despite no evidence of tumor growth in imaging

Debra24 Hernandez98A) is a 51 year old female whose history of Lobular carcinoma of the breast is as follows:

WITH EACH INPUT, THE BACK-END RULES TO RECOGNIZE PATTERNS WITHIN CLINICAL NOTES ARE IMPROVED FOR THAT PARTICULAR DATA ELEMENT

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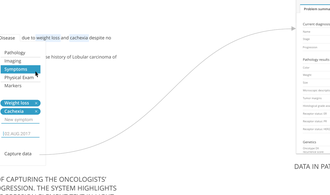

MANUAL METHOD OF CAPTURING THE ONCOLOGISTS' EVALUATION OF PROGRESSION. THE SYSTEM HIGHLIGHTS THE ASSOCIATED PROGRESSION ELEMENT TEXT IN LIGHT BLUE, AND USES IT TO AUTOFILL THE POINT OF SALE INTERFACE AS A SUGGESTION.

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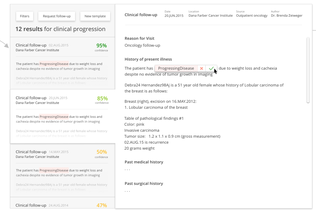
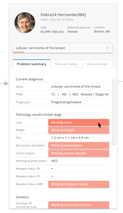


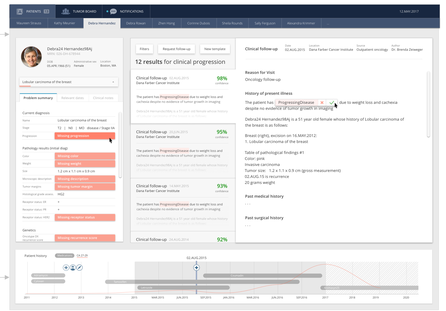
NEXT HIGHEST CONFIDENCE DATA ELEMENT VALUE APPEARS

1.2 FLUX NOTES DATA RETRIEVAL + CURATION



DATA IN PATIENT SUMMARY IS UPDATED

1.3 FLUX NOTES DATA RETRIEVAL + CURATION

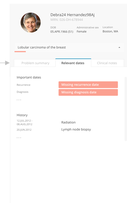


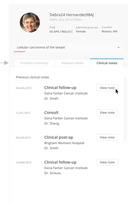
LIST OF RESULTS FOR FUTURE SEARCHES ARE IMPROVED VIA HIGHER CONFIDENCE

2 FLUX NOTES DATA VIEW

The text within the clinical note cannot be altered after it is written. The following is a concept describing how to denote captured and uncaptured data within Fluxnotes, in relation to the view of the clinical note.

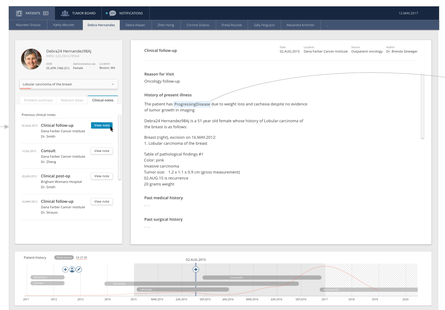
THE PROBLEM SUMMARY CHANGES DEPENDING ON CONTEXT: ABILITY TO VIEW PREVIOUS OR OTHER CONDITIONS THE PATIENT HAS.





ONCOLOGIST CAN VIEW 'CLINICAL NOTES' TO BROWSE THROUGH PREVIOUS NOTES WITHOUT HAVING TO CURATE DATA. THESE ARE ORGANIZED FROM MOST RECENT TO LEAST RECENT.

2.1 FLUX NOTES DATA VIEW



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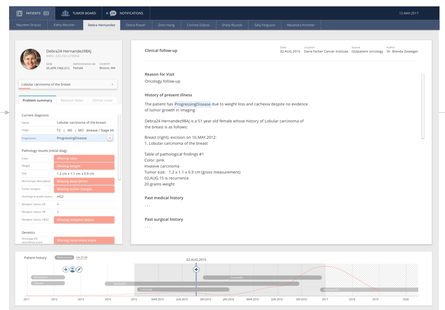
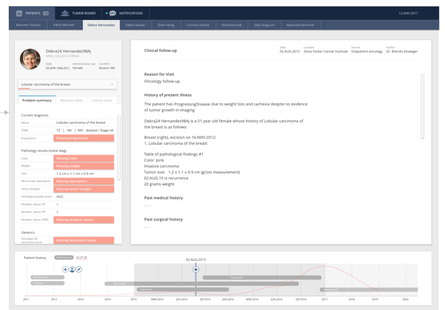
CAPTURED DATA HAS A LIGHT BLUE BACKGROUND WITHIN THE CLINICAL NOTE VIEW

2.2 FLUX NOTES DATA VIEW



THE ASSOCIATED DATA FIELD IN THE PROBLEM SUMMARY IS HIGHLIGHTED FOR COMPARISON WITH THE CAPTURED DATA IN THE CLINICAL NOTE.

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