MITRE / FLUX NOTES **SELECTED CONCEPTS v14.12**

EDWIN CHOI, DANIEL REEVES, JUHAN SONIN, 17.AUG.2018

goinvo

Debra24 Hernandez98Aj

Date of birth
5 Apr 1966 (51)

Admin. sex
Female

Location
Boston, MA

Ductal carcinoma of the breast ⌄

Shared

Debra24 search...

Dr. Jraker299 referred ms. Debra24 Hernandez98Aj due to pain in left breast. Dr. Jraker299 is ms. Debra24 Hernandez98Aj's primary care physician for 12 years.

Next ↵

Summary

Ms. Debra24 Hernandez98Aj is a 51-year-old menopausal non hispanic or latino woman with invasive ductal carcinoma of the breast, diagnosed on 13 January 2012. Her most recent status, recorded on 15 May 2017, is

Summary

explored:

Expand/collapse behavior

"Done" checkbox

Multiple selections

Static footer

Title editing

Note deletion

Current implementation styling

✎ **Progress note**

created by: Dr. Bran24 Michel09A   created date: 10 April 2018
source: Dana Farber Cancer Institute

✕ Close

> #Disease status   Status Stable   Reason No data   Reference date No data   As of date No data

Reason (select multiple)

| Imaging | Pathology | Symptoms | Physical Exam |
| Progressing | Inevaluable | | |

Next ↵

⌄ #Staging   Tumor size T1   Node size N2   Metastasis No data

Grade	T0	**T1**	T2	T3
Node size	N0	N1	**N2**	N3
Metastasis	M0	M1		

☑ #HER2   Receptor Positive

☑ #ER   Receptor Positive

🗑 Delete note   **1** incomplete   **3** _____
                                                                Placeholder

Sign note

Flux Notes
Dr. Bran24 Michel09A

Debra24 Hernandez98Aj

Date of birth
5 Apr 1966 (51)

Admin. sex
Female

Location
Boston, MA

Ductal carcinoma of the breast ▾

Shared

Debra24 search...

☐ Summary

Dr. Jraker299 referred ms. Debra24 Hernandez98Aj due to pain in left breast. Dr. Jraker299 is ms. Debra24 Hernandez98Aj's primary care physician for 12 years.

Issue: The checkbox is a bit confusing

The checkbox is in the left margin, left of the element and header. This helps identify it as a control on the element as a whole.

Ideas

As the user checks or completes #HER2 and #ER...

Progress note   ✕ Close

created by: Dr. Bran24 Michel09A   created date: 10 April 2018
source: Dana Farber Cancer Institute

☐ ⟩ #Staging   Tumor size T1   Node size N2   Metastasis No data

Metastasis

| M0 | M1 |

☐ ⟩ #Disease status   Status No data   Reason No data   Reference date No data   As of date No data

Status

| Complete response | Complete resection | Responding | Stable | Progressing | Inevaluable |

☐ ⟩ #toxicity   Adverse event Nausea   Grade No data   Attribution No data

Grade

| Grade 1 | Grade 2 | Grade 3 | Grade 4 |

☐ ⟩ #HER2   Receptor No data

Receptor

| Positive | Negative |

☐ ⟩ #ER   Receptor No data

Receptor

| Positive | Negative |

☐ ⟩ #PR   Receptor No data

Receptor

| Positive | Negative |

Sign note   🗑 Remove note

Flux Notes
Dr. Bran24 Michel09A

Debra24 Hernandez98Aj

Date of birth
5 Apr 1966 (51)

Admin. sex
Female

Location
Boston, MA

Ductal carcinoma of the breast ▾

Shared

Debra24 search...

Dr. Jraker299 referred ms. Debra24 Hernandez98Aj due to pain in left breast. Dr. Jraker299 is ms. Debra24 Hernandez98Aj's primary care physician for 12 years.

Summary

Contents of cell go to 50% opacity.

All rows vanish (as currently implemented).

The expansion arrow vanishes.

The check is a plain grey checkmark. This helps the row and checkbox recede and have less visual importance than the other content that still needs attention.

Progress note

created by: Dr. Bran24 Michel09A
source: Dana Farber Cancer Institute
created date: 10 April 2018

✕ Close

> **#Staging**   Tumor size T1   Node size N2   Metastasis No data

Metastasis	M0	M1

> **#Disease status**   Status No data   Reason No data   Reference date No data   As of date No data

Status	Complete response	Complete resection	Responding	Stable	Progressing	Inevaluable

> **#toxicity**   Adverse event Nausea   Grade No data   Attribution No data

Grade	Grade 1	Grade 2	Grade 3	Grade 4

✓ **#HER2**   Receptor Positive

✓ **#ER**   Receptor Positive

> **#PR**   Receptor No data

Receptor	Positive	Negative

> **#enrollment**   Clinical trial No data

Clinical trial	PATINA	PALLAS	title

Sign note   🗑 Remove note

Flux Notes
Dr. Bran24 Michel09A

Debra24 Hernandez98Aj

Date of birth
5 Apr 1966 (51)

Admin. sex
Female

Location
Boston, MA

Ductal carcinoma of the breast ⌄

Shared

Debra24 search...

Dr. Jraker299 referred ms. Debra24 Hernandez98Aj due to pain in left breast. Dr. Jraker299 is ms. Debra24 Hernandez98Aj's primary care

Issue: The collapsing arrow is non traditional and confusing

Traditionally, drop arrows expose more or less of what's "hiding". Here however, it switches between showing all and showing the "next one".

1. If we continue to use the arrow, it should be on the left hand side by the shortcut and ponit in when collapsed (>) and point down when expanded (v).

2. Only show this control if there is more than one attribute

Ideas

1. As the cell collapses or expands, the button rows slide up or down to place the top (or only) row in the correct position. The rows above are masked out by the status bar, and the rows below fade out after positioning.

2. A simpler animation simply fades all hidden rows and slides the "active" row into the right place.

3. An additional visual cue for completed rows when expanded, such as a graying of the attribute name.z

Summary

Progress note

created by: Dr. Bran24 Michel09A
source: Dana Farber Cancer Institute
created date: 10 April 2018

✕ Close

> **#Disease status** Status No data   Reason No data   Reference date No data   As of date No data

| Status | Complete response | Complete resection | Responding | Stable | Progressing | Inevaluable |

⌄ **#Staging** Tumor size T1   Node size N2   Metastasis No data

| Grade | T0 | **T1** | T2 | T3 |

| Node size | N0 | N1 | **N2** | N3 |

| Metastasis | M0 | M1 |

> **#toxicity** Adverse event Nausea   Grade No data   Attribution No data

| Grade | Grade 1 | Grade 2 | Grade 3 | Grade 4 |

#HER2 Receptor No data

| Receptor | Positive | Negative |

Sign note   🗑 Remove note

Current implementation styling issues (I tweeked the css a bit in the dev tools to make the screen shot at right):

1) there is no font-size implemented for any of the cell contents (except the buttons). They should match.

2) shortcut label is bold

3) buttons are smaller, and line height is tighter.

4) add padding between rows

5) captured data should be *dotted* blue underline

6) bottom of header needs horizontal rule

7) backing color for alternating rows is wrong. It should match the shading in the tabular views.

Name	Date	Source	Signed By
Dr. X123	15 Aug 2018	Dana Farber	not signed
Y987-20181508-0900			

✕ Close

☐ **#staging**   Tumor Size: No Data   Nodes: No Data   Metastasis: No Data

Tumor Size

Tis	T0	T1	T2
T3	T4		

☑ **#disease status**   Status: Complete Response   Rationale: No Data   Reference Date: No Data   As Of Date: 15 Aug 2018

☐ **#toxicity**   Adverse Event: No Data   Grade: No Data   Attribution: No Data

Enter symptom

Adverse Event

Febrile neutropenia	Fatigue	Generalized muscle weakness	Anemia
Nausea	Platelet count decreased		

+ ADD TOXICITY

☐ **#enrollment**   Trial Title: No Data   Enrolled on: 15 Aug 2018

Trial Title

PATINA	PALLAS

Debra24 Hernandez98Aj

Date of birth
5 Apr 1966 (51)

Admin. sex
Female

Location
Boston, MA

Ductal carcinoma of the breast ▾

Shared

🔍 Debra24 search...

Dr. Jraker299 referred ms. Debra24 Hernandez98Aj due to pain in left breast. Dr. Jraker299 is ms. Debra24 Hernandez98Aj's primary care physician for 12 years.

Next ↵

Issue: Handling multiple selections

The current arrow is ambiguous and too similar to other elements. Furthermore, there is no indication that an attribute takes more than one selection.

ideas

1) textual button after options with an active word such as "accept" or "next" or "done".

2) indicate multiplicity
• explicitly with "(select multiple)" left of buttons
• could be coupled with the button to indicate reason for having a "done" button

---

Progress note

created by: Dr. Bran24 Michel09A
source: Dana Farber Cancer Institute

created date: 10 April 2018

✕ Close

📄 ▦ @ ① 👁

▸ **#Disease status**   Status *Stable*   Reason *No data*   Reference date *No data*   As of date *No data*

Reason select multiple	Imaging	Pathology	Symptoms	Physical Exam
	Progressing	Inevaluable		

Next ↵

▸ **#Disease status**   Status *Stable*   Reason *No data*   Reference date *No data*   As of date *No data*

Reason	Imaging	Pathology	Symptoms	Physical Exam
	Progressing	Inevaluable		

select multiple
Done

▸ **#Disease status**   Status *Stable*   Reason *No data*   Reference date *No data*   As of date *No data*

Reason select multiple Done	Imaging	Pathology	Symptoms	Physical Exam
	Progressing	Inevaluable		

Sign note

🗑 Remove note

T **Progress note**

signed by: Dr. Bran24 Michel09A   signed date: 10 April 2018
source: Dana Farber Cancer Institute

B   *I*   U   ☰   ☷

✕ Close

T **Progress note**

signed by: Dr. Bran24 Michel09A   signed date: 10 April 2018
source: Dana Farber Cancer Institute

B   *I*   U   ☰   ☷

✕ Close

✏ **Progress note**

signed by: Dr. Bran24 Michel09A   signed date: 10 April 2018
source: Dana Farber Cancer Institute

B   *I*   U   ☰   ☷

✕ Close

▭▶ **Progress note**

signed by: Dr. Bran24 Michel09A   signed date: 10 April 2018
source: Dana Farber Cancer Institute

B   *I*   U   ☰   ☷

✕ Close

Need: indication that note title is editable

Flux Notes
Dr. Bran24 Michel09A

Debra24 Hernandez98Aj

Date of birth
5 Apr 1966 (51)

Admin. sex
Female

Location
Boston, MA

Ductal carcinoma of the breast ▾

Shared

Debra24 search...

Summary

Dr. Jraker299 referred ms. Debra24 Hernandez98Aj due to pain in left breast. Dr. Jraker299 is ms. Debra24 Hernandez98Aj's primary care physician for 12 years.

Issue: note deletion when note is open is inconsistent.

In the current designs, the "Remove note" command is only available when the "shortcuts" tray is open.

solution

A fixed footer extends from the record division all the way to the right edge of the screen. It is always viewable when the note header is viewable. It contains the sign note button, warnings about missing data, and a Delete note icon.

Progress note
created by: Dr. Bran24 Michel09A   created date: 10 April 2018
source: Dana Farber Cancer Institute

✕ Close

> #Disease status   Status _No data_   Reason _No data_   Reference date _No data_   As of date _No data_

Status	Complete response	Complete resection	Responding	Stable	Progressing	Inevaluable

⌄ #Staging   Tumor size _T1_   Node size _N2_   Metastasis _No data_

Grade	T0	**T1**	T2	T3

Node size	N0	N1	**N2**	N3

Metastasis	M0	M1

> #toxicity   Adverse event _Nausea_   Grade _No data_   Attribution _No data_

Grade	Grade 1	Grade 2	Grade 3	Grade 4

#HER2   Receptor _No data_

Receptor	Positive	Negative

🗑 Delete note   **1** incomplete   **3** _____
                                              Placeholder

Sign note

Flux Notes
Dr. Bran24 Michel09A

Debra24 Hernandez98Aj

Date of birth
5 Apr 1966 (51)

Admin. sex
Female

Location
Boston, MA

Ductal carcinoma of the breast ▾

Shared

Debra24 search...

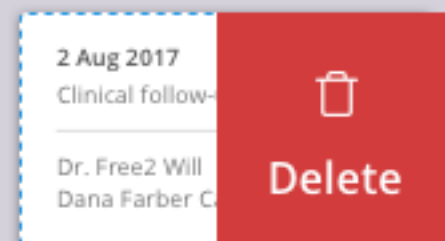## Need: note deletion from note list

solution

Place a small trashcan icon on each in-progress note. Tapping near the trashcan, or performing a hold and slide left, will revel the Delete button. Tapping anywhere else hides the delete button and cancels the action.

2 Aug 2017
Clinical follow-up

Dr. Free2 Will
Dana Farber Cancer Insti...

←

2 Aug 2017
Clinical follow-

Dr. Free2 Will
Dana Farber C...

🗑
Delete

Clinical follow-up   ✕ Close

signed by: Dr. Free2 Will   signed date: 14 May 2017
source: Dana Farber Cancer Institute

Assessment

Although her #disease status is #stable #as of #1/30/2018, recommending to half after 5 cycles due to #toxicity #grade 3 #myalgia and #toxicity #grade 3 #peripheral motor neuropathy attributed to paclitaxel.

Patient's staging is IIIA based on T0, N2, and has M0. Given the current data, I determine the patient is stable.

A Port-A-Cath was replaced today. She will start induction chemotherapy with trastuzumab due to low volume of metastatic disease, beginning on October 17, 2017. A section of @ retrieved data from the patient record.

The patient is exhibiting fatigue. The patient is also exhibiting   "toxicity nausea. „ The patient's receptors are as follows, #HER2 is positive. #ER is positive. A section of @ retrieved data from the patient record. The patient is interested in clinical trial enrollment. Enrolled in PATINA.

Her brother is doing great!.

New note

Sort by most recent ▾

+ Search filters

47 previous notes

2 Aug 2017
Clinical follow-up

Dr. Free2 Will
Dana Farber Cancer Insti...   🗑

20 Jun 2017
Clinical follow-up

Dr. Free2 Will
Dana Farber Cancer Insti...

14 May 2017
Clinical follow-up

Dr. Free2 Will
Dana Farber Cancer Insti...

8 May 2017
Clinical follow-up

Dr. Free2 Will
Dana Farber Cancer Insti...

View 10 more clinical notes from 2015 - 2017

🗑 Delete note