

MITRE / FLUX NOTES **CONCEPTS v15.1**

EDWIN CHOI, DANIEL REEVES, JUHAN SONIN, 28.NOV.2018



Hover alternatives

A) touch and hold

- not discoverable
- slow
- contributes additional interaction
- + somewhat popular and standard
- + contributes no screen clutter
- + current design is maintained

B) Additional interactive element

- e.g. "show details" or "show description"
- additional screen element
- + requires no discovery
- requires design modifications
- + very simple and clear

C) Hover functionality is replicated on primary interaction

- e.g. Tap reveals a description on selection
- additional screen element after interaction
- + contributes no additional clutter or elements on primary view
- + simple and discoverable
- requires modest design modifications
- **does not work if primary interaction is hard to reverse**



Concept B: additional interactive element

Dr. Bran24 Michel09A

Hernandez98Aj

Date of birth

5 Apr 1966 (51)

Admin. sex

Female

Location

Boston, MA

Ductal carcinoma of the breast

Debra24 search...

- In place of hover interactions, interactive text toggles the display of hidden information.



Summary

Procedures

Vitals

Labs

Disease status

Medication

Pathology

Treatment options

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



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 of worsening, disease [progression](#) based on [pathology](#), [imaging](#), and [symptoms](#).

She underwent a [lumpectomy](#). She underwent a sentinel lymph node biopsy on [20 September 2012](#) which revealed infiltrating poorly differentiated [ductal carcinoma](#), stage IV, [estrogen receptor 0](#), etc.

[diagnostic mammogram](#) on 4 October 2013 revealed a 2 cm mass in the right [breast](#) at 7 o'clock and an

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](#) [skip](#)

> Status

Complete response

Complete resection

Responding

Stable

Progressing

Inevaluable

#Staging

Tumor size [T1](#)

Node size [N2](#)

Metastasis [No data](#)

[done](#)

> Metastasis

M0

M1

#toxicity

Adverse event [Nausea](#)

Grade [No data](#)

Attribution [No data](#)

[done](#)

Nausea

> Grade [Show details](#)

Grade 1

Grade 2

Grade 3

Grade 4

[remove toxicity](#)

Adverse event [No data](#)

Grade [No data](#)

Attribution [No data](#)

[done](#)

Search adverse events

> Adverse Event [Show details](#)

Febrile neutropenia

Fatigue

Generalized muscle weakness

Anemia

[remove toxicity](#)

+ [add another toxicity](#)

#HER2

Receptor [Negative](#)

[edit](#)

Delete note

1 [incomplete](#)

3

Placeholder

Sign note



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#toxicity

Adverse event

Nausea

Grade

No data

Attribution

No data

done

Nausea



Grade

[Show details](#)

Grade 1

Grade 2

Grade 3

Grade 4

remove toxicity

Adverse event

No data

Grade

No data

Attribution

No data

done



Search adverse events



Adverse Event

[Hide details](#)

Febrile neutropenia

A longish description of Febrile neutropenia, which is currently given in the popup.

Fatigue

A short description of Fatigue etc. etc.

Generalized muscle weakness

A longish description of Generalized muscle weakness, which is currently given in the popup.

Anemia

A longish description of Febrile neutropenia, which is currently given in the popup.

remove toxicity

+ add another toxicity

#HER2

Receptor

Negative

edit



Delete note

1 incomplete

3

Placeholder

Sign note

Easing Clinician Burden - more concepts

Joining narrative with POC

Current shortcomings

1. To add content not supported by shortcut, the clinician must go to the note itself.
2. Switching back and forth is cumbersome.
3. Forced progression of POC elements may be awkward.
4. Entering forms one
5. POC elements have no context.

Concept A - simplify operation of POC

1. collapse all elements - easier to see full context, what is available, everything will always fit
2. single tap reveals all fields (visual indicator TBD) - easier to fill out quickly as user becomes familiar with element as a whole.
3. collapses when complete, "x" is tapped, or another element is opened.

Concept B - text into POC

1. Make textual context and formatting available within POC. This requires concept A to make space.
2. Editable text from POC.
3. Go to note available from POC.

Concept C - integrate POC into note

1. Make note more sectioned, modular, navigable.
2. Access POC elements directly from narrative via popups.
3. The proposal (Concepts v14.15) for editable formatted text is implemented.
4. Use of #hashtag input and graphical selection is fluid and interchangeable.



- Simplify operation of POC
- Include textual context within POC

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Assessment

#Disease status Status [Complete Resection](#) Reason [No data](#) Reference date [No data](#) As of date [No data](#)
#disease status is #Complete Resection.

#Staging Tumor size [T1](#) Node size [N2](#) Metastasis [No data](#)
#Staging #T1 #N2.

#toxicity Adverse event [Nausea](#) Grade [Grade 2](#) Attribution [No data](#) [remove toxicity](#)
#toxicity of #Nausea #Grade 2.

Adverse event [Anemia](#) Grade [No data](#) Attribution [No data](#) [remove toxicity](#)
#toxicity of #Anemia.
[+ add toxicity](#)

Plan

#enrollment Trial title [No data](#) Enrolled on [No data](#)

Delete note

1 incomplete

3 Placeholder

Sign note



- The user taps anywhere on #enrollment to edit
- The user can quickly select both attributes, see the inserted note text, and edit the text directly.

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Assessment

#Disease status Status Complete Resection Reason No data Reference date No data As of date No data
#disease status is #Complete Resection.

#Staging

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

#toxicity

Adverse event Nausea Grade Grade 2 Attribution No data remove toxicity
#toxicity of #Nausea #Grade 2.

Adverse event Anemia Grade No data Attribution No data remove toxicity
#toxicity of #Anemia.

+ add toxicity

Plan

#enrollment

Trial title PATINA Enrolled on No data



Trial title

PATINA

PALLAS

Enrolled on

11/18/18



#enrollment in #PATINA on ?

view in note

Delete note

1 incomplete

3 Placeholder

Sign note



Debra24

Hernandez98Aj

Date of birth

5 Apr 1966 (51)

Admin. sex

Female

Location

Boston, MA

Ductal carcinoma of the breast

Debra24 search...

- Sections are defined by a new button in the edit toolbar.
- When the section content exceeds a single line, the section becomes collapsible.

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B / U ☰ ☷ H |

> Reason for Visit

Debra has requested a visit after complaints of pain that prevent her from ...

> Oncology History

Debra is a 51 year old Female diagnosed with blablabla blablba bla bla bla ...

> Review of Systems

A 15 point ROS has been performed and found this thing wrong, and this other...

Allergies

no allergies

> Medications

imatinib 100 mg capsule QD started 10 Aug 2017...

Assessment

I evaluate <disease status>.

Plan

We discussed clinical trials: <enrollment>.

Close



Search shortcuts

Templates
Shortcuts

Patient

@patient

@age

@gender

@dateofbirth

@name

...

Delete note

1 incomplete

2 Placeholder

Sign note



Debra24

Hernandez98Aj

Date of birth

5 Apr 1966 (51)

Admin. sex

Female

Location

Boston, MA

Ductal carcinoma of the breast

Debra24 search...

• The user taps on a placeholder, revealing a POC interface for that single element.

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Close



Search shortcuts

Templates
Shortcuts

Patient
@patient
@age
@gender
@dateofbirth
@name
...

B / U [List Icon] [Grid Icon] H |

> Reason for Visit

Debra has requested a visit after complaints of pain that prevent her from ...

> Oncology History

Debra is a 51 year old Female diagnosed with blablabla blablba bla bla bla ...

> Review of Systems

A 15 point ROS has been performed and found this thing wrong, and this other...

Allergies

no allergies

> Medications

imatinib 100 mg capsule QD started 10 Aug 2017...

Assessment

I evaluate <disease stat

Plan

We discussed clinical tr

Delete note

<Disease Status>

type @shortcuts

skip

Status

Complete response	Complete resection	Responding	Stable
Progressing	Inevaluable		

Rationale (select multiple)

Pathology	Imaging	Markers	Symptoms	Physical exam
-----------	---------	---------	----------	---------------

Reference Date

select a date

As of Date

Nov. 28, 2018



• As the user selects attributes by tapping on buttons, the corresponding shortcut is included in the top line.

Summary

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Close

B / U

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Debra has requested a visit after complaints of pain that prevent her from ...

> Oncology History

Debra is a 51 year old Female diagnosed with blablabla blablba bla bla bla ...

> Review of Systems

A 15 point ROS has been performed and found this thing wrong, and this other...

Allergies

no allergies

> Medications

imatinib 100 mg capsule QD started 10 Aug 2017...

Assessment

I evaluate <disease stat

Plan

We discussed clinical tr

<Disease Status>

#Complete response

done

Status

Complete response

Complete resection

Responding

Stable

Progressing

Inevaluable

Rationale
(select multiple)

Pathology

Imaging

Markers

Symptoms

Physical exam

Reference Date

select a date

As of Date

Nov. 28, 2018

Delete note



Search shortcuts

Templates
Shortcuts

Patient

@patient

@age

@gender

@dateofbirth

@name

...



Debra24

Date of birth

Admin. sex

Location

Hernandez98Aj

5 Apr 1966 (51)

Female

Boston, MA

Ductal carcinoma of the breast

Debra24 search...

- The user can also type directly into the shortcuts line to capture elements.
- When the window first appears, the cursor is initially placed on this line. This provides the user with a means to capture all the placeholder data using shortcuts.

Dr. Jaker299 referred ms. Debra24

Hernandez98Aj due to pain in left breast. Dr. Jaker299 is ms. Debra24 Hernandez98Aj's primary care physician for 12 years.

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B / U

> Reason for Visit

Debra has requested a visit after complaints of pain that prevent her from ...

> Oncology History

Debra is a 51 year old Female diagnosed with blablabla blablba bla bla bla ...

> Review of Systems

A 15 point ROS has been performed and found this thing wrong, and this other...

Allergies

no allergies

> Medications

imatinib 100 mg capsule QD started 10 Aug 2017...

Assessment

I evaluate <disease stat

Plan

We discussed clinical tr

<Disease Status>

#Complete response #imaging

done

Status

Complete response

Complete resection

Responding

Stable

Progressing

Inevaluable

Rationale (select multiple)

Pathology

Imaging

Markers

Symptoms

Physical exam

Reference Date

select a date

As of Date

Nov. 28, 2018

Delete note

Close



Search shortcuts

Templates
Shortcuts

Patient

@patient

@age

@gender

@dateofbirth

@name

...

Summary

Procedures

Vitals

Labs

Disease status

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• When the user is finished, they tap “done” or away to dismiss the window.

- Summary
- Procedures
- Vitals
- Labs
- Disease status
- Medication
- Pathology
- Treatment options

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B / U

- > Reason for Visit
- Debra has requested a visit after complaints of pain that prevent her from ...
- > Oncology History
- Debra is a 51 year old Female diagnosed with blablabla blablba bla bla bla ...
- > Review of Systems
- A 15 point ROS has been performed and found this thing wrong, and this other...
- Allergies
- no allergies
- > Medications
- imatinib 100 mg capsule QD started 10 Aug 2017...
- > Assessment
- I evaluate #disease status is #Complete response as indicated by #imaging #as of #28 Nov 2018.
- Plan
- We discussed clinical trials: <enrollment>.

Delete note

1 incomplete

2 Placeholder

Sign note

Close

@

1

Search shortcuts

Templates

Shortcuts

- Patient
- @patient
- @age
- @gender
- @dateofbirth
- @name
- ...

Templates and Snippets

Difference

1. Templates intended to initialize a note. Support selections and previews from right hand pane.
1. Snippets intended to be components within note. Like custom shortcuts.
 - Context: Allow undetermined contexts that are expected previously in the note. If the context is missing, the user is informed and expected to fix the problem.

Snippets as components

1. Inspired by Components and Symbols in design software such as Figma or Sketch
2. Snippets are modular. Snippets inside snippets and inside templates.
3. Graphical indication of the snippets and manipulation (boxes that are draggable).
4. User can highlight note content to create a new snippet. Source can be saved or in progress note.
5. Snippets persist
 - After insertion, the snippet can be swapped out, retaining data.
 - Composition of snippets can be saved as a new snippet.
 - User can navigate to master snippet.
 - User can detach a snippet from master snippet.
6. Text and formatting in a snippet can be swapped out, or “overridden”.

Organization

1. Tags
 - custom, e.g. “vital”, “status”, “side effect”
 - dynamic, e.g. “this patient”, “this disease”
2. Folders: contain tags and snippets

Post-application

1. Data initially caught on the fly within note, by nurse in a vitals entry, or by PRO, then reorganized into template.
2. Librates workflow

Filters and Logic

1. Applied to whole snippet, or any single shortcut.
 - Each shortcut needs to have a set of properties: cardinality, filter set, keys with value types.
2. Filters:
 - Ex: @currentMedications = @allMedications with filter: active==True.
3. Branching logic
 - Ex: @lastVitals. If date < today, then replace with placeholder. If empty, then replace with “no Vitals today...”
4. Truly opens door to powerful templates and snippets. Removes pickiness of built-in specialized shortcuts.

Snippets

Definition

1. String of plain text, formatting, @ and # shortcuts, other snippets.
2. filters applied to each @shortcut
3. Set of meta tags:
 - topics. These help in searching and organizing snippets.
 - contexts. The snippet is only allowed within this type of context.
 - environments. The snippet is only allowed within this particular context or entity.

@name is a @age year old @gender.

@all medications

where
active == TRUE

e.g. vitals, ROS, demographics

e.g. @medication.

e.g. ibuprofen, John S. Patient.

Preliminaries

1. For snippet filters, each shortcut must have an associated set of defined filters.

Snippets

Text Views: ways to express a snippet

1. **definition:** plain text.
2. **name:** dot notation.
3. **evaluated:** each part expressed for context of note.
4. **expanded:** plain text with embedded snippets defined.

@name is a @age year old @gender taking .ActiveMedications.

.PatientAndMeds

John McQueen is a 52 year old Male taking Ibuprofen 400 mg QD.

@name is a @age year old @gender taking @allMedications::where:active=True.

Graphical Views: ways to express a snippet

1. **expanded:** plain text with embedded snippets defined.

.PatientAndMeds

@name is a @age year old @gender taking

.ActiveMedications

@allMedications::filter:active=True .

Snippets

Use Environments / Modes

Use	Primary view	Secondary views	Actions
Composing notes, typing	name, then evaluated	<ul style="list-style-type: none">• definition (on tap, and as mode?)• expanded (on tap, and as mode?)• name (on tap)	<ul style="list-style-type: none">• detach from snippet• save text as new snippet
in RH tooltray in list	name	<ul style="list-style-type: none">• definition (peak on hover or hold)	<ul style="list-style-type: none">• insert• edit• duplicate or new?• organize
viewing old note	evaluated	<ul style="list-style-type: none">• names (as mode)• highlighting	<ul style="list-style-type: none">• save text as new snippet
editing snippet	definition	<ul style="list-style-type: none">• expanded• evaluated	<ul style="list-style-type: none">• edit meta data• graphical filter selection• organize• detach embedded snippet• edit embedded snippet



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Search shortcuts

Templates
Snippets
Shortcuts

+ reveal all

General
.exam
.patient
.patientAndMeds

@name is a @age year old @gender.

> Reason for Visit

Debra has requested a visit after complaints of pain that prevent her from ...

Oncology History

Delete note

Sign note



Summary

Procedures

Dr. Jmaker299 referred ms. Debra24 Hernandez98Aj due to pain in left breast. Dr. Jmaker299 is ms. Debra24 Hernandez98Aj's primary care physician for 12 years.

Summary



Progress note

created by: Dr. Bran24 Michel09A

created date: 10 April 2018



Close

source: Dana Farber Cancer Institute

B / U

> Reason for Visit

Debra has requested a visit after complaints of pain that prevent her from ...

Oncology History

.patient



Search shortcuts

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Snippets

Shortcuts



reveal all

Debra Hernandez is a 51 year old Female.

Debra Hernandez is a 51 year old Female. She was diagnosed with @condition

Debra Hernandez is a 51 year old Female. She was diagnosed with Ductal carcinoma of the breast on @dateofdiagnosis

Debra Hernandez is a 51 year old Female. She was diagnosed with Ductal carcinoma of the breast on 13 January 2012.



Dr. Jramer299 referred ms. Debra24 Hernandez98Aj due to pain in left breast. Dr. Jramer299 is ms. Debra24 Hernandez98Aj's primary care physician for 12 years.

Summary



Ms. Debra24 Hernandez98Aj is a 51-year-old menopausal non hispanic



Progress note

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created date: 10 April 2018



Close

source: Dana Farber Cancer Institute

B / U

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Debra Hernandez is a 51 year old Female. She was diagnosed with Ductal carcinoma of the breast on 13 January 2012.



Search shortcuts

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reveal all

General

.exam

.patient

patientAndMeds

clicking on, or moving the cursor into, a snippet reveals the **Definition** and available actions.

Oncology History

.Patient

edit

detach

@name is a @age year old @gender.

She was diagnosed with Ductal carcinoma

of the breast on 13 January 2012.

Alternative layout. More flexible for embedded snippets.

.Patient

detach

@name is a @age year old @gender.

edit



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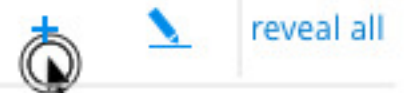
created date: 10 April 2018

Close



Search shortcuts

Templates
Snippets
Shortcuts



General
.exam
.patient
.patientAndMeds

Cancer
.cancerMeds
.mammogramResults

> Reason for Visit

Debra has requested a visit after complaints of pain that prevent her from ...

Oncology History

Debra Hernandez is a 51 year old Female. They were diagnosed with Ducatal carcinoma of the breast on 13 January 2012.

drag to select
and highlight

Delete note

Sign note



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Disease
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Pathology

Treatment
options

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



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 of worsening, disease progression based on pathology, imaging, and symptoms.

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Progress note

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

created date: 10 April 2018

Close

B / U

> Reason for Visit

Debra has requested a visit after complaints of pain that prevent her from ...

Oncology History

.Patient. They were diagnosed with @condition on @dateofdiagnosis.

Delete note

Saving New Snippet

Name

PatientWithDiagnosis

Requirements

- ☐ patient Debra24 Hern...
- ☐ section "Oncology Hi..."

Filters

no available filters

Topic Tags

patient condition
new tag

admin
condition
exam
labs
medications
patient
trialc

Folder

None

cancel



Sign note



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+ reveal all

General
.exam
.patient
.patientWithDiagnosis
.patientAndMeds

Cancer
.cancerMeds
.mammogramResults

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Edit Snippets

show All In context

[new folder](#)

General

- ← .exam
- ← .patient
- ← .patientWithDiagnosis
- ← .patientAndMeds
- [new subfolder](#)

Cancer

- ← .cancerMeds
- ← .mammogramResults
- [new subfolder](#)

Done

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Edit Snippets

show **All** In context[new folder](#)*General*[← .exam](#) —[← .patient](#) —[← .patientWithDiagnosis](#) —[← .patientAndMeds](#) —[← .smokingCo](#) —[new subfolder](#)*Cancer*[← .cancerMeds](#) —[← .mammogramResults](#) —[new subfolder](#)*Fracture*[← .status](#) —[← .orderXrays](#) —[new subfolder](#)[Done](#)

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.smokingConvo

Edit Snippets

show **All** In context

[new folder](#)

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.patient
.patientWithDiagnosis
.patientAndMeds
.smokingConvo
[new subfolder](#)

Cancer

.cancerMeds
.mammogramResults
[new subfolder](#)

Fracture

.status
.orderXrays
[new subfolder](#)

Done

Name

smokingConvo

Requirements

☒ patient Juan232 Fol...
[add requirement](#)

Filters

no available filters

Definition

I resumed my conversation with @name regarding the impact of smoking on his health, and on the health of his children, Raja and Simon.

Topic Tags

patient
[new tag](#)

admin
condition
exam
labs
medications
patient
triale

Folder

None ▼

cancel

Save



Delete note

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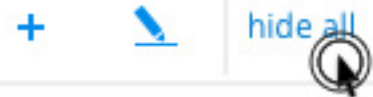
created date: 10 April 2018

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