

MITRE / FLUX NOTES **SELECTED CONCEPTS v14.5**

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The following concepts explore the data capture driven templates and their interactions.



DATA CAPTURE BASED TEMPLATES

Debra24
Hernandez98AjDate of birth
5 Apr 1966 (51)Admin. sex
FemaleLocation
Boston, MACondition
Ductal carcinoma of the breastShared view

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

Timeline

Medication

Allergies

Labs

Social

Disease status

Progress note

10 April 2018

Dr. Bran24 Michel09A

Dana Farber Cancer Institute

Close

B I U ≡ | <__>

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

Remove unfilled elements and sign

Search shortcuts

Templates
ShortcutsPatient
@patient
@age
@gender
@dateofbirth
@name
...

Remove note

10 ASSESSMENT

Patient's staging is stage based on tumor size, node size, and has metastasis.

Gray text is text that may potentially be inserted into the clinical note. These are template placeholders.

Given the current data, I determine disease status is status because of reason, as of date.

Underlines with gray text means that it is a placeholder for structured data that may potentially be inserted into the clinical note.

The patient is deceased or not deceased.

Blue background behind gray text means that it is an already specified structured data element.

The patient is exhibiting toxicity adverse event grade attribution.

Blue background with underline means that structured data has been captured for the placeholder. Since this is captured data, it is not gray text.

The patient is exhibiting toxicity nausea grade attribution.

The patient's HER2 is receptor. The patient's ER is receptor. The patient's PR is receptor.

The patient is enrolled in clinical trial.

Ask patient about how her brother is doing.

Gray *italics* between text with a blue background means that the placeholder can be filled with either/or.

Basic syntax

<#shortcut>.

GUI

After the <> element is entered, the placeholder is replaced graphically with a box containing text. The placeholder text is *formatted* automatically. If no formatting is available for that structured data element, the elements are simply listed. Captures are treated with the blue structured data highlight, and expected attributes are underlined.

Simple tagging example

I determine <#disease status>
The patient is <#deceased>

More advanced tagging syntax

Conditional text on capture:

<The patient is exhibiting #toxicity>

Fixed attributes within a capture:

<#toxicity #nausea>

revealed infiltrating poorly
differentiated ductal carcinoma,
stage IV, estrogen receptor 0, etc.

Social

Disease status

Admin. sex Location Condition Shared view
(51) Female Boston, MA Ductal carcinoma of the breast 

Progress note

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 Debra24 search...



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> #Staging

Tumor size No data Node size No data Metastasis No data

Tumor size

Tis

T0

T1

T2

T3

T4

> #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

Grade No data Adverse event Nausea Attribution No data

Grade

Grade 0

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

> #enrollment

Clinical trial No data

Clinical trial

PATINA

PALLAS

title

2 ways to expand and view the POS for all data element attributes

> #Staging

Tumor size [No data](#)

Node size [No data](#)

Metastasis [No data](#)

OR

Tumor size

Tis	T0	T1	T2	T3	T4
-----	----	----	----	----	----



Debra24
Hernandez98Aj

Date of birth
5 Apr 1966 (51)

Admin. sex
Female

Location
Boston, MA

Condition
Ductal carcinoma of the breast

Shared view

Debra24 search...



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

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▼ #Staging

Tumor size T0 Node size N2 Metastasis M0

Tumor size	Tis	T0	T1	T2	T3	T4
------------	-----	-----------	----	----	----	----

Node size	N0	N1mi	N1	N2	N3
-----------	----	------	----	-----------	----

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 Grade No data Adverse event Nausea Attribution No data

Grade	Grade 0	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



Debra24

Date of birth

Admin. sex

Location

Condition

Hernandez98Aj

5 Apr 1966 (51)

Female

Boston, MA

Ductal carcinoma of the breast

Shared view



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8 ASSESSMENT

Patient's staging is IIIA based on T0, N2, and has M0.

Given the current data, I determine disease status is status because of reason, as of date.

The patient is deceased or not deceased.

The patient is exhibiting toxicity adverse event grade attribution

The patient is exhibiting toxicity nausea grade attribution.

The patient's HER2 is receptor. The patient's ER is receptor. The patient's PR is receptor.

The patient is enrolled in PATINA.

Ask patient about how her brother is doing.

Remove unfilled elements and sign



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② CAPTURING UNSTRUCTURED TEXT



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Timeline

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.

Medication

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

Allergies

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Disease status

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

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

Grade	Grade 0	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
----------	----------	----------

> #enrollment Clinical trial No data

Clinical trial	PATINA	PALLAS	title
----------------	--------	--------	-------

how her brother is doing

Free text



Debra24

Date of birth

Admin. sex

Location

Condition

Hernandez98Aj

5 Apr 1966 (51)

Female

Boston, MA

Ductal carcinoma of the breast

Shared view



Debra24 search...



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9 ASSESSMENT

Patient's staging is stage based on tumor size, node size, and has metastasis.

Given the current data, I determine disease status is status because of reason, as of date.

The patient is deceased or not deceased.

The patient is exhibiting toxicity adverse event grade attribution

The patient is exhibiting toxicity nausea grade attribution.

The patient's HER2 is receptor. The patient's ER is receptor. The patient's PR is receptor.

The patient is enrolled in clinical trial.

Ask patient about how her brother is doing. Patient says her brother in Toronto is doing well, which has reduced her stress greatly.

Remove unfilled elements and sign



Search shortcuts

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...

Remove note

3

CAPTURING TEMPLATE DATA VIA NOTE ASSISTANT



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The patient is deceased or not deceased.

The patient is exhibiting toxicity adverse event grade attribution

The patient is exhibiting toxicity nausea grade attribution.

The patient's HER2 is receptor. The patient's ER is receptor. The patient's PR is receptor.

The patient is enrolled in clinical trial.

Ask patient about how her brother is doing.



9 corrections

is exhibiting toxicity nausea grade attribution.

Adverse Event: Nausea

Grade

0	1	2
3	4	

Attribution

Treatment
Disease
Error
Unkown
Unrelated

Ignore

patient's HER2 is receptor. The patient's

HER2

Positive
Negative

Remove note



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The patient is deceased or not deceased.

The patient is exhibiting toxicity adverse event grade attribution

The patient is exhibiting toxicity nausea grade 1 based on treatment.

The patient's HER2 is receptor. The patient's ER is receptor. The patient's PR is receptor.

The patient is enrolled in clinical trial.

Ask patient about how her brother is doing.

Remove unfilled elements and sign



8 corrections

patient's HER2 is receptor. The patient's

HER2

Positive

Negative

Ignore

The patient's ER is receptor. The patient's

HER2

Positive

Negative

Ignore

The patient's PR is receptor.

PR

Positive

Remove note



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> #Staging

Tumor size No data Node size No data Metastasis No data

Tumor size

Tis

T0

T1

T2

T3

T4

> #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

Grade Grade 1 Adverse event Nausea Attribution Treatment

Grade

Grade 0

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

> #enrollment

Clinical trial No data

Clinical trial

PATINA

PALLAS

title

4

IGNORING A TEMPLATE PLACEHOLDER ELEMENT



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10 corrections

is exhibiting toxicity nausea grade attribution.

Adverse Event: Nausea

Grade

0	1	2
3	4	

Attribution

Treatment
Disease
Error
Unknown
Unrelated

Ignore

patient's HER2 is receptor. The patient's

HER2

Positive
Negative

Remove note



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HER2

Positive

Negative

Ignore

The patient's ER is receptor. The patient's

HER2

Positive

Negative

Ignore

The patient's PR is receptor.

PR

Positive

Remove note