

MITRE / FLUX NOTES **PRE ENCOUNTER CARCINOMA OF BREAST v12.9 (SELECTED CONCEPTS)**

EDWIN CHOI, JUHAN SONIN, 23.FEB.2018

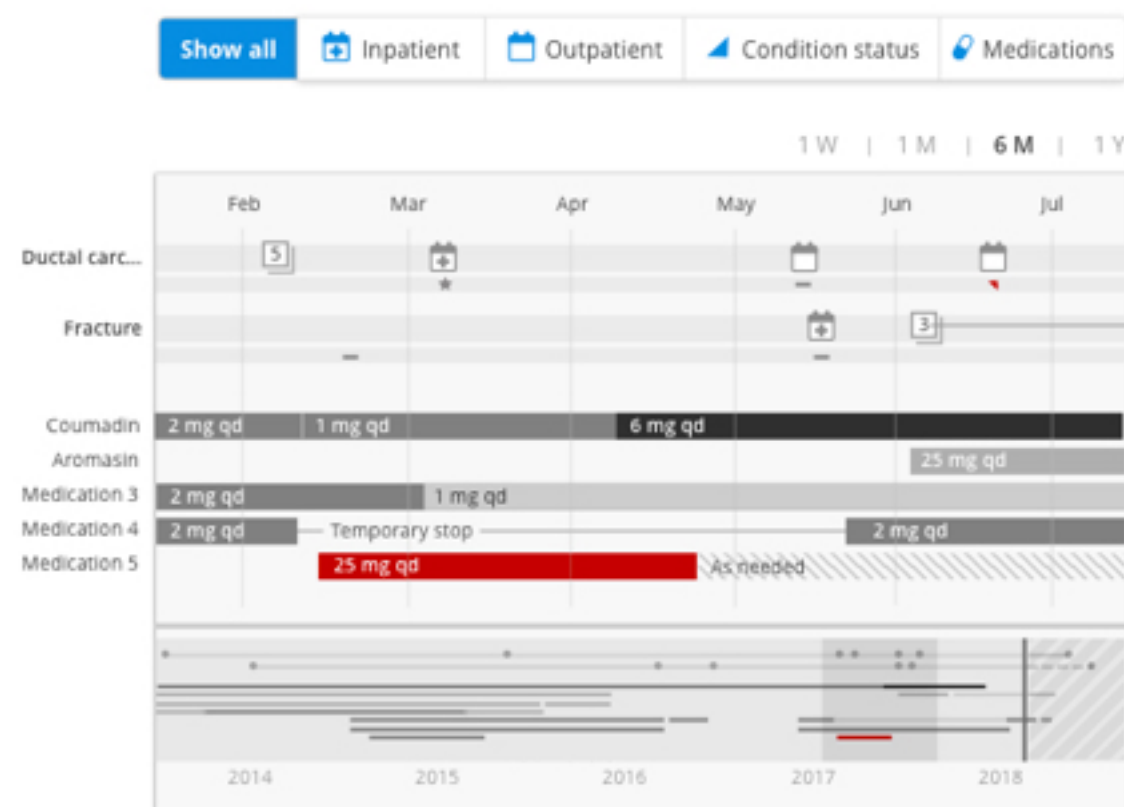


I FLUX NOTES FULL TIMELINE VIEWS

I FLUX NOTES FULL TIMELINE VIEWS

I.1 FLUX NOTES FULL TIMELINE VIEWS

Timeline All conditions



Code Display Definition

BID	BID	Two times a day at institution specified time
TID	TID	Three times a day at institution specified time
QID	QID	Four times a day at institution specified time
AM	AM	Every morning at institution specified times
PM	PM	Every afternoon at institution specified times
QD	QD	Every Day at institution specified times
QOD	QOD	Every Other Day at institution specified times
Q4H	Q4H	Every 4 hours at institution specified times
Q6H	Q6H	Every 6 Hours at institution specified times

2017

- 6 months ago
Jun 18
Mammography
Ductal carcinoma... | Dr. Will253 Anne3 | Boston hospital
- 6 months ago
Jun 18
Disease status progressing
Ductal carcinoma... | Based on pathology | Dr. Will253 Anne3 | Boston hospital
- 6 months ago
Jun 2 - 4
3 medical events
- 6 months ago
Jun 5
Aromasin prescribed
Fracture | 25 mg 1 qd | Dr. Will253 Anne3 | Boston hospital
- 7 months ago
May 10 - 15
Hospitalization
Fracture | Dr. Will253 Anne3 | Boston hospital

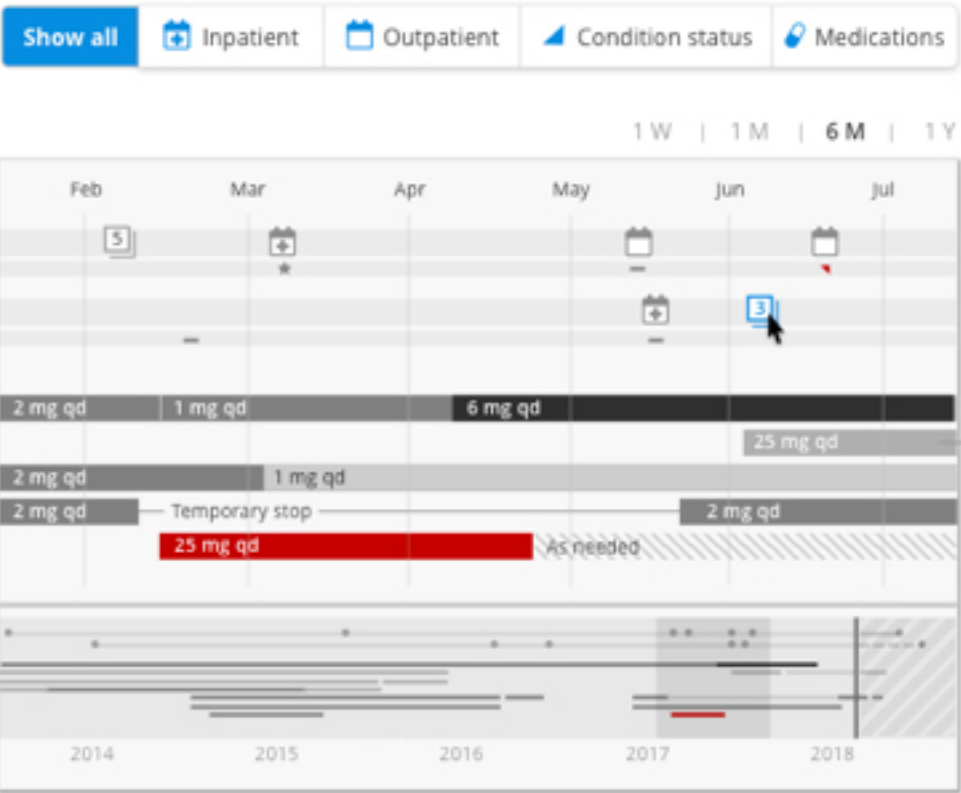
2 mg qd | 1 mg qd | Dose reduction and dose increase are more detailed elements separated by a subtle line, within the colors denoting total daily dose (less than maximum, maximum, over the maximum)

— Temporary stop — Medication temporarily interrupted

As needed | Take medication as needed

I.2 FLUX NOTES FULL TIMELINE VIEWS

Timeline All conditions



2017

6 months ago
Jun 18

Mammography
Ductal carcinoma... | Dr. Will253 Anne3 | Boston hospital

6 months ago
Jun 18

Disease status progressing
Ductal carcinoma... | Based on pathology | Dr. Will253 Anne3 | Boston hospital

3 months ago
Jun 2 - 4

3 medical events

Jun 2
Fracture repair surgery 1
Fracture | Dr. Will253 Anne3 | Boston hospital

Jun 3
Fracture repair surgery 2
Fracture | Dr. Will253 Anne3 | Boston hospital

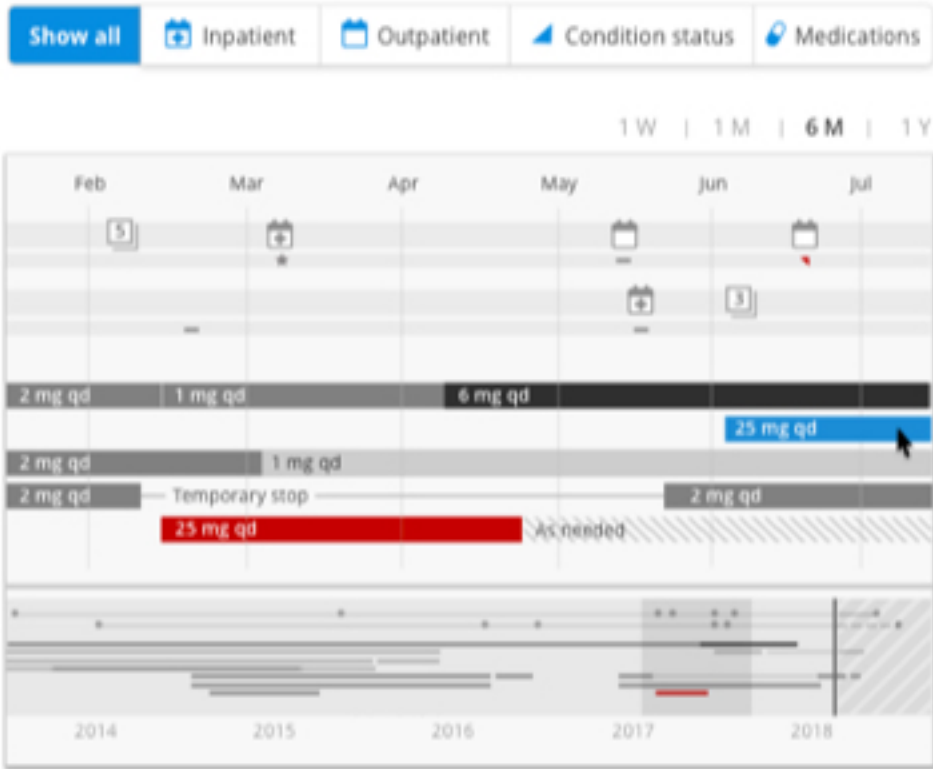
Jun 4
Fracture repair surgery 3
Fracture | Dr. Will253 Anne3 | Boston hospital

6 months ago
Jun 5

Aromasin prescribed
Fracture | 25 mg 1 qd | Dr. Will253 Anne3 | Boston hospital

WS I.3 FLUX NOTES FULL TIMELINE VIEWS

Timeline All conditions



- 2017
- 6 months ago **Mammography**
Ductal carcinoma... | Dr. WIL253 Anne3 | Boston hospital
 - 6 months ago **Disease status progressing**
Ductal carcinoma... | Based on pathology | Dr. WIL253 Anne3 | Boston hospital
 - 6 months ago **3 medical events**
Jun 2 - 4
 - 3 months ago **Aromasin prescribed**
Ductal carcinoma... | 25 mg 1 qd | Dr. WIL253 Anne3 | Boston hospital
Take 1 tablet after lunch, every Wed and Thurs, until Oct 20, 2018. Take at the same time each day when taking.
 - 7 months ago **Hospitalization**
Fracture | Dr. WIL253 Anne3 | Boston hospital
 - 7 months ago **'Disease status' stable**
Fracture | Based on pathology | Dr. WIL253 Anne3 | Boston hospital

Additional in medication. ;

I.4 FLUX NOTES FULL TIMELINE VIEWS

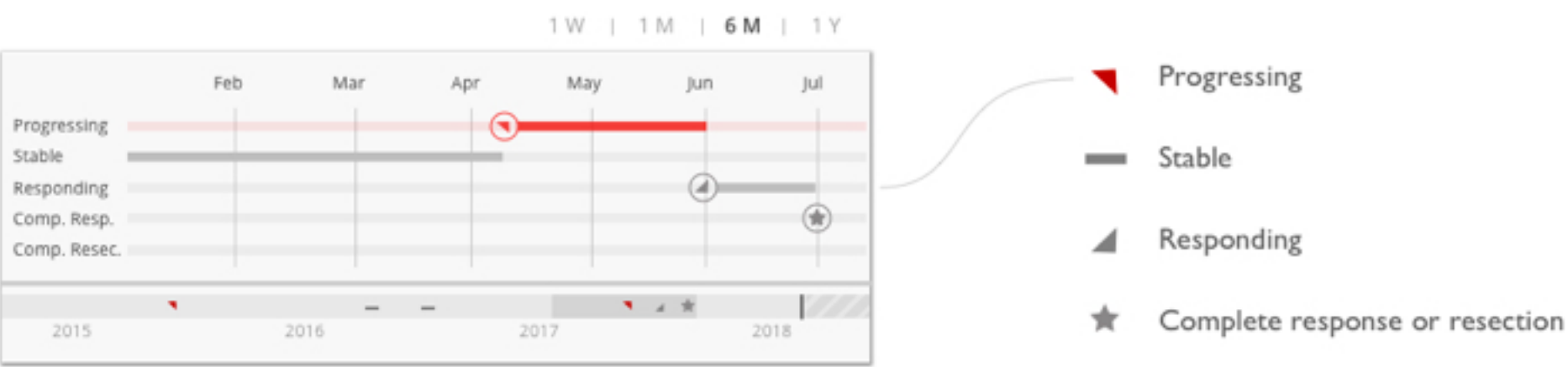
Disease status Ductal carcinoma of the breast

Current status

Progressing

2 months ago | 10 Feb 2017 | Based on pathology | Dr. Will253 Anne3 | Boston hospital

Disease status timeline



2017

★ 2 months ago Disease status complete response
Jul 1 Based on pathology | Dr. Will253 Anne3 | Boston hospital

▲ 3 months ago Disease status responding
Jun 1 Based on pathology | Dr. Will253 Anne3 | Boston hospital

▲ 5 months ago Disease status progressing
Apr 10 Based on pathology | Dr. Will253 Anne3 | Boston hospital

2016

— 1.2 years ago Disease status stable
Jun 1 Based on pathology | Dr. Will253 Anne3 | Boston hospital

— 1.5 years ago Disease status stable
Mar 12 Based on pathology | Dr. Will253 Anne3 | Boston hospital

2015

2014

2 MISSING DATA WITHIN VISUALIZATION

2017		
1	6 months ago Jun 18	Mammography Ductal carcinoma... Dr. Will253 Anne3 Boston hospital
	6 months ago Jun 18	Disease status progressing Ductal carcinoma... Based on pathology Dr. Will253 Anne3 Boston hospital
	6 months ago Jun 2 - 4	3 medical events
2	3 months ago Jun 5	Aromasin prescribed Ductal carcinoma... 25 mg 1 qd Dr. Will253 Anne3 Boston hospital Take 1 tablet after lunch, every Wed and Thurs. Take at the same time each day when taking. Missing end date
	7 months ago May 10 - 15	Hospitalization Fracture Dr. Will253 Anne3 Boston hospital
	7 months ago May 10	'Disease status' stable Fracture Based on pathology Dr. Will253 Anne3 Boston hospital
	7 months ago May 8	Mammography Ductal carcinoma... Dr. Will253 Anne3 Boston hospital
	7 months ago May 8	Disease status stable Ductal carcinoma... Based on pathology Dr. Will253 Anne3 Boston hospital
2	9 months ago Mar 4	Hospitalization Ductal carcinoma... Dr. Will253 Anne3 Boston hospital
	2016	
	1.2 years ago Aug 12	Tamoxifen discontinued Ductal carcinoma... 20 mg 1 qd Dr. Will253 Anne3 Boston hospital

Is this end date correct? ✕

2 Aug 2015 Clinical follow-up Dana Farber Cancer Institute

Aromasin prescription for Debra24 Hernandez98Aj comes with 3 refill prescriptions and should be taken daily until July 5, 2018.

5 July, 2018 is correct

View note




Or enter an end date

19 ▾

Oct ▾

2017 ▾

View more search results for missing end date

	6 months ago <i>Jun 5</i>	Aromasin prescribed <i>Fracture 25 mg 1 qd Dr. Will253 Anne3 <u>Missing location</u></i>
	6 months ago <i>Jun 5</i>	Aromasin prescribed <i>Fracture <u>Missing dose</u> Dr. Will253 Anne3 Boston hospital</i>
	<u>Missing date</u>	Aromasin prescribed <i>Fracture 25 mg 1 qd Dr. Will253 Anne3 Boston hospital</i>

Missing data can be indicated directly onto the row entry, which is mapped to the points in the visualization. Indicating missing data directly on the visualization may produce visual clutter as space is limited.

3 FLUX NOTES FULL TABULAR VIEW

Other substances	None
Exercise hours per week	3 hours
Etc...	...

Environment	Environment value
Household size	4
Domestic violence	None
Number of dependents	2
Can afford food	Yes
Can afford housing	Yes
Etc...	...

Family history			
Relation	Name	Date of birth	Condi...
Father	Willie24 Hernandez98Aj	1 Jan 1945 (76)	Type II...
Mother	Jan24 Hernandez 98Aj	1 Jan 1945 (76)	Type II...
Sister	Jen82 Hernandez98Aj	1 Jan 1945 (76)	Type II...
Brother	Dave30 Hernandez 98Aj	1 Jan 1945 (76)	Type II...
Maternal grandmother	Jan24 Hernandez 98Aj	1 Jan 1945 (76)	Type II...
Maternal grandfather	Jan24 Hernandez 98Aj	1 Jan 1945 (76)	Type II...
Paternal grandmother	Jan24 Hernandez 98Aj	1 Jan 1945 (76)	Type II...
Paternal grandfather	Jan24 Hernandez 98Aj	1 Jan 1945 (76)	Type II...
Other relation...	Jan24 Hernandez 98Aj	1 Jan 1945 (76)	Type II...

Family history		
Relation	Date of birth	Conditions
Father	98Aj 1 Jan 1945 (76)	Type II diabetes, high blood pr
Mother	8Aj 1 Jan 1945 (76)	Type II diabetes, high blood pr
Sister	3Aj 1 Jan 1945 (76)	Type II diabetes, high blood pr
Brother	98Aj 1 Jan 1945 (76)	Type II diabetes, high blood pr
Maternal grandmother	8Aj 1 Jan 1945 (76)	Type II diabetes, high blood pr
Maternal grandfather	8Aj 1 Jan 1945 (76)	Type II diabetes, high blood pr
Paternal grandmother	8Aj 1 Jan 1945 (76)	Type II diabetes, high blood pr
Paternal grandfather	8Aj 1 Jan 1945 (76)	Type II diabetes, high blood pr
Other relation...	8Aj 1 Jan 1945 (76)	Type II diabetes, high blood pr

First column is fixed. The current width of the content area is based on the ~12 word per line guideline for optimal text length.

3.2 FLUX NOTES FULL TABULAR VIEW

Disease status Invasive ductal carcinoma of breast

Status	Date	Rationale
Progressing	10 Feb 2017	Pathology
Responding	10 Feb 2014	Pathology
Progressing	10 Feb 2017	Pathology, imaging
Responding	10 Feb 2014	Pathology
Progressing	10 Feb 2017	Markers, imaging
Complete resection	10 Feb 2014	Pathology
Progressing	10 Feb 2017	Symptoms, imaging, pathology
Stable	10 Feb 2014	Pathology, imaging, symptoms, exam
Progressing	10 Feb 2017	Pathology
Responding	10 Feb 2014	Pathology

< 1 2 3 4 5 6 > 1-10 entries of 120

Pagination will allow the vertical space of the section to remain the same. The number of entries or rows to be shown will depend on clinician needs for each section/ category of information.

Red text denotes a warning (whether it's a progressing disease status, medication dosage over the maximum, severe allergic reaction, etc), similar to the red used in the visualization modes.

3.3 FLUX NOTES FULL TABULAR VIEW

Medications All conditions

Current medications

Medication	Dosage	Timing	Start	End
Adriamycin	6 10 ⁵ /L	6 cycles	10 Feb 2012	20 Aug 2012
Cyclophosphamide	10 mg	6 cycles	10 Feb 2012	30 Aug 2012
Tamoxifen	20 mg	qd	1 Nov 2013	13 Aug 2016
Letrozole	2 mg	qd	5 Sep 2015	1 Jun 2017
Coumadin	2 mg	qd	5 Sep 2015	1 Jun 2017
Aromasin	25 mg	qd	5 Oct 2017	1 May 2018

Current schedule

Medication	Instructions
Letrozole	Take 1 tablet with breakfast
Aromasin	Take 1 tablet after breakfast
Tamoxifen	Take 1 tablet with dinner
Coumadin	Take 1 tablet an hour before sleeping

Previous medications

Medication	Dosage	Timing	Start	End
Tamoxifen	20 mg	qd	1 Nov 2013	13 Aug 2016
Letrozole	2 mg	qd	5 Sep 2015	1 Jun 2017
Coumadin	2 mg	qd	5 Sep 2015	1 Jun 2017
Aromasin	25 mg	qd	5 Oct 2017	1 May 2018
Tamoxifen	20 mg	qd	1 Nov 2013	13 Aug 2016
Letrozole	2 mg	qd	5 Sep 2015	1 Jun 2017
Coumadin	2 mg	qd	5 Sep 2015	1 Jun 2017
Aromasin	25 mg	qd	5 Oct 2017	1 May 2018
Coumadin	2 mg	qd	5 Sep 2015	1 Jun 2017
Aromasin	25 mg	qd	5 Oct 2017	1 May 2018



< 1 2 3 4 5 6 > 1-10 entries of 150

Not all subsections will require pagination. Some subsections will tend to have fewer rows than others (current medications vs medication timeline for example)

3.4 FLUX NOTES FULL TABULAR VIEW

Allergies

All conditions



6 total allergies

Allergy	Severity	Effects
Peanut butter	Severe	Hives, swelling of the throat
Acetyl salicylic acid	Severe	Drowsiness, ringing in ears, wheezing
Docetaxel anhydrous	Moderate	Itchy skin, swelling in mouth
Pollen	Moderate	Watery eyes, scratchy throat
Amoxicillin	Mild	Flushing, lightheadedness
Iodinated contrast	Mild	Hives

No known [_____](#) allergies

No recorded data for [_____](#) allergies

Allergy tests

[Allergy panel test on 10 May 2017](#)

Allergy	Severity
Acetyl salicylic acid	Severe
Iodinated contrast	Mild
Milk	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction

The history of patient allergies is organized by:

Panel tests

Standalone events in which allergies were inadvertently discovered

Panel tests can test up to dozens of allergens. There may not be a need to display many of the panel test entries all at once (unlike more frequent tests like blood panels)

Allergy	Severity
Acetyl salicylic acid	Severe
Iodinated contrast	Mild
Milk	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Bee venom	No reaction
Pet dander	No reaction
Etc...	...

< 1 2 3 4 5 6 >

1 entry of 6

Allergy timeline

Allergy	Severity	Effects
Peanut butter	Severe	Hives, swelling of the throat
Acetyl salicylic acid	Severe	Drowsiness, ringing in ears, wheezing
Docetaxel anhydrous	Moderate	Itchy skin, swelling in mouth
Pollen	Moderate	Watery eyes, scratchy throat
Amoxicillin	Mild	Flushing, lightheadedness
Iodinated contrast	Mild	Hives
Peanut butter	Severe	Hives, swelling of the throat
Acetyl salicylic acid	Severe	Drowsiness, ringing in ears, wheezing
Docetaxel anhydrous	Moderate	Itchy skin, swelling in mouth
Pollen	Moderate	Watery eyes, scratchy throat

< 1 2 3 4 5 6 >

1-10 entries of 150

The history of patient allergies is organized by:

Panel tests

Standalone events in which allergies were inadvertently discovered

Panel tests can test up to dozens of allergens. There may not be a need to display many of the panel test entries all at once (unlike more frequent tests like blood panels)

3.5 FLUX NOTES FULL TABULAR VIEW

Labs Invasive ductal carcinoma of breast

Panel tests

Lipid panel on 7 Dec 2017

Test	Value
Total cholesterol	150 mg/dl
HDL cholesterol	35 mg/dl
LDL cholesterol	46 mg/dl

Lipid panel on 12 Oct 2016

Test	Value
Triglycerides	112 mg/dl
Total cholesterol	150 mg/dl
HDL cholesterol	35 mg/dl

Metabolic panel...

Test	Value
Triglycerides	112 mg/dl
Total cholesterol	150 mg/dl
HDL cholesterol	35 mg/dl

Lipid panel on 12 Oct 2016

Test	Value
Triglycerides	112 mg/dl
Total cholesterol	150 mg/dl
HDL cholesterol	35 mg/dl

Metabolic panel...

11.2 mg/dl	11.2 mg/dl
Total cholesterol	150 mg/dl
HDL cholesterol	35 mg/dl

1 2 3

1-5 panel test entries of 15

Labs

White blood cell count	Date
8.12 10⁹/L	2 Jan 2018
6.75 10⁹/L	27 Dec 2017
4.72 10⁹/L	19 Dec 2017
1.86 10⁹/L	12 Dec 2017
3.37 10⁹/L	5 Dec 2017
6.75 10⁹/L	27 Dec 2017
4.72 10⁹/L	19 Dec 2017
1.86 10⁹/L	12 Dec 2017
3.37 10⁹/L	5 Dec 2017
1.86 10⁹/L	12 Dec 2017

1 2 3 4 5 6

1-10 entries of 120

Neutrophil count	Date
4.3 10⁹/L	2 Jan 2018
2.6 10⁹/L	27 Dec 2017
1.9 10⁹/L	19 Dec 2017
1.2 10⁹/L	12 Dec 2017
2.3 10⁹/L	5 Dec 2017
2.6 10⁹/L	27 Dec 2017
1.9 10⁹/L	19 Dec 2017
1.2 10⁹/L	12 Dec 2017
2.3 10⁹/L	5 Dec 2017
2.6 10⁹/L	27 Dec 2017

1 2 3 4 5 6

1-10 entries of 120



4 MEDICATION SCHEDULE VIEW

4 MEDICATION SCHEDULE VIEW

4.1 MEDICATION SCHEDULE VIEW

Current schedule

< Week of 19 Feb - 25 Feb, 2018 >

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun
							
							
							

Schedule for Wednesday, 21 Feb 2018

 Morning 6am - 12pm

 Letrazole
Take 1 tablet with breakfast, daily until 12 May, 2018

 Aromasin
Take 1 tablet after breakfast, daily until 28 July, 2018

 Afternoon 12pm - 5pm

 Aromasin
Take 1 tablet after lunch, every Wed and Thurs until 20 Jun, 2018

 Night 5pm - 6am

 Tamoxifen
Take 1 tablet with dinner, daily until 20 May, 2018

 Coumadin
Take 1 tablet an hour before sleeping, daily until 25 May, 2018

4 NOTE AUTHORIZING MODE CONCEPTS

5 NOTE AUTHORIZING MODE CONCEPTS

5.1 NOTE AUTHORIZING MODE CONCEPTS

Flux Notes

Dr. Bran24 Michel09A

Debra24

Hernandez98Aj

Date of birth

5 Apr 1966 (51)

Admin. sex

Female

Location

Boston, MA

Workflow

Pre-encounter

Condition

Ductal carcinoma of the breast

View

Debra24 search...

Summary

Timeline

Medical history

Conditions

Medication

Allergies

Labs

Disease status

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 Ductal carcinoma of the breast

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.

Timeline Ductal carcinoma of the breast

Show all

1 W | 1 M | 6 M | 1 Y

Feb Mar Apr May Jun Jul

Note

Date

Source

Signed by

Close note

Consult

19 Oct 2017

Dana Farber...

Not signed

Reason for visit

Invasive ductal carcinoma of breast follow up

History of present illness

Debra Hernandez672 is a 51 year old Female. Patient was diagnosed with Invasive ductal carcinoma of breast on 13 Jan 2012. Breast cancer diagnosed in Right breast. Primary tumor size was 30 mm. Histological grade was High grade or poorly differentiated.

Patient underwent Mammography on 13 Jan 2012. Patient took Adriamycin from 10 Feb 2012 to 20 Aug 2012. Patient took Cyclophosphamide from 10 Feb 2012 to 20 Aug 2012. Continuing history of present illness...

Review of systems

Review of systems

Allergies

Allergies

Search shortcuts

Templates

Patient

@name

@age

@patient

@condition

@...


Remove note

Visual icon denotes that the clinician can begin dictating

5.2 NOTE AUTHORIZING MODE CONCEPTS

Flux Notes

Dr. Bran24 Michel09A



Debra24

Hernandez98Aj

Date of birth

5 Apr 1966 (51)

Admin, sex

Female

Location

Boston, MA

Workflow

Pre-encounter

Condition

Ductal carcinoma of the breast

View

Debra24 search...

Summary

Timeline

Medical history

Conditions

Medication

Allergies

Labs

Disease status

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

Ductal carcinoma of the breast

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.

Timeline

Ductal carcinoma of the breast

Show all

1 W

1 M

6 M

1 Y

Feb

Mar

Apr

May

Jun

Jul

Note

Date

Source

Signed by

Close note

Consult

19 Oct 2017

Dana Farber...

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History of present illness

Debra Hernandez672 is a 51 year old Female. Patient was diagnosed with Invasive ductal carcinoma of breast on 13 Jan 2012. Breast cancer diagnosed in Right breast. Primary tumor size was 30 mm. Histological grade was High grade or poorly differentiated.

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Review of systems

Review of systems

Allergies

Allergies

Search shortcuts

Templates

Patient

@name

@age

@patient

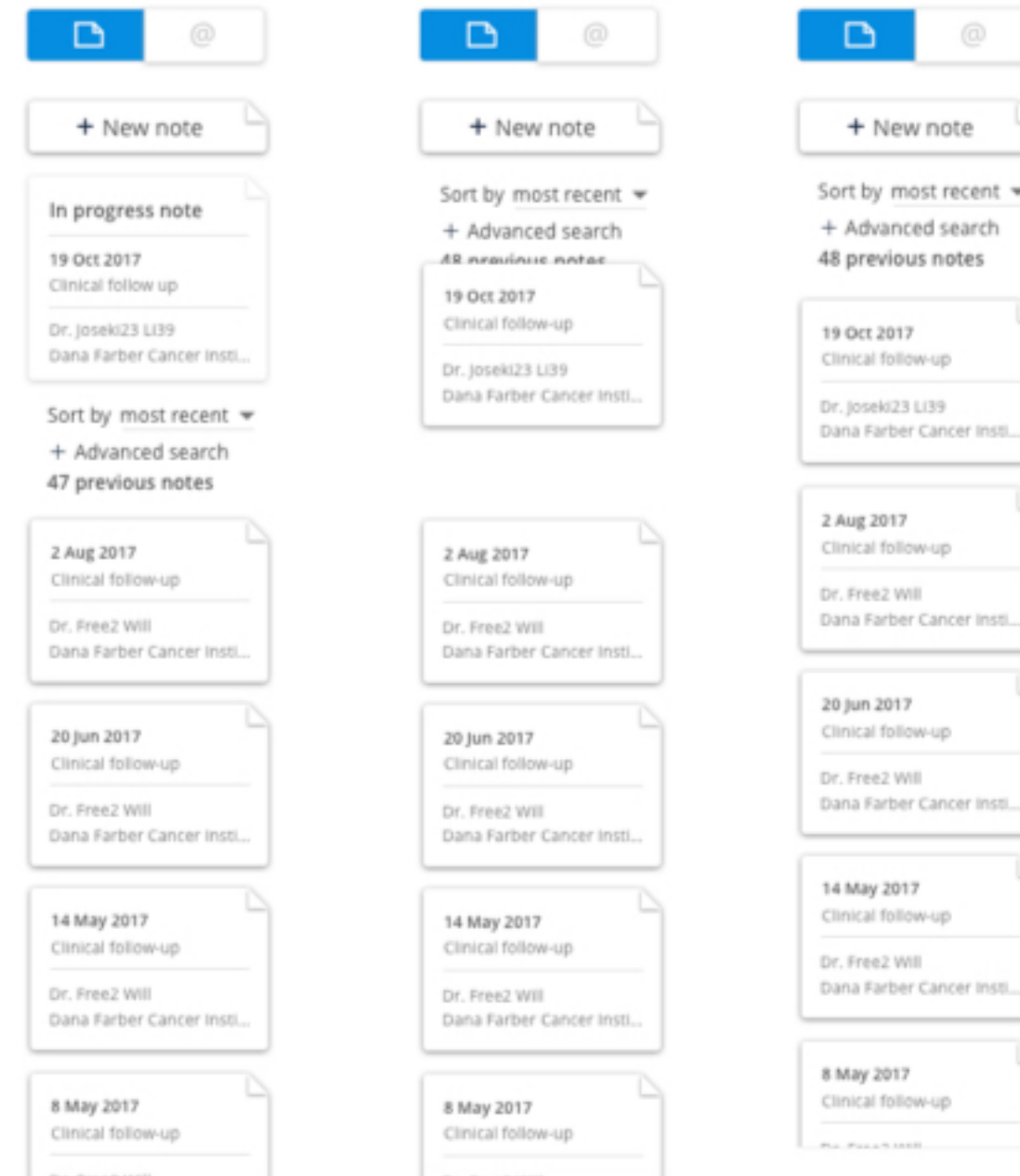
@condition

@...

Remove note

During dictation, the icon turns red (recording) to show that it is listening

5.3 NOTE AUTHORIZING MODE CONCEPTS



Once a clinical note has been signed, the right context tray returns to showing a list of clinical notes. A quick animation occurs in which the in progress note moves down to the 'previous notes' area to provide a temporary indication that it has in fact been saved in the system.