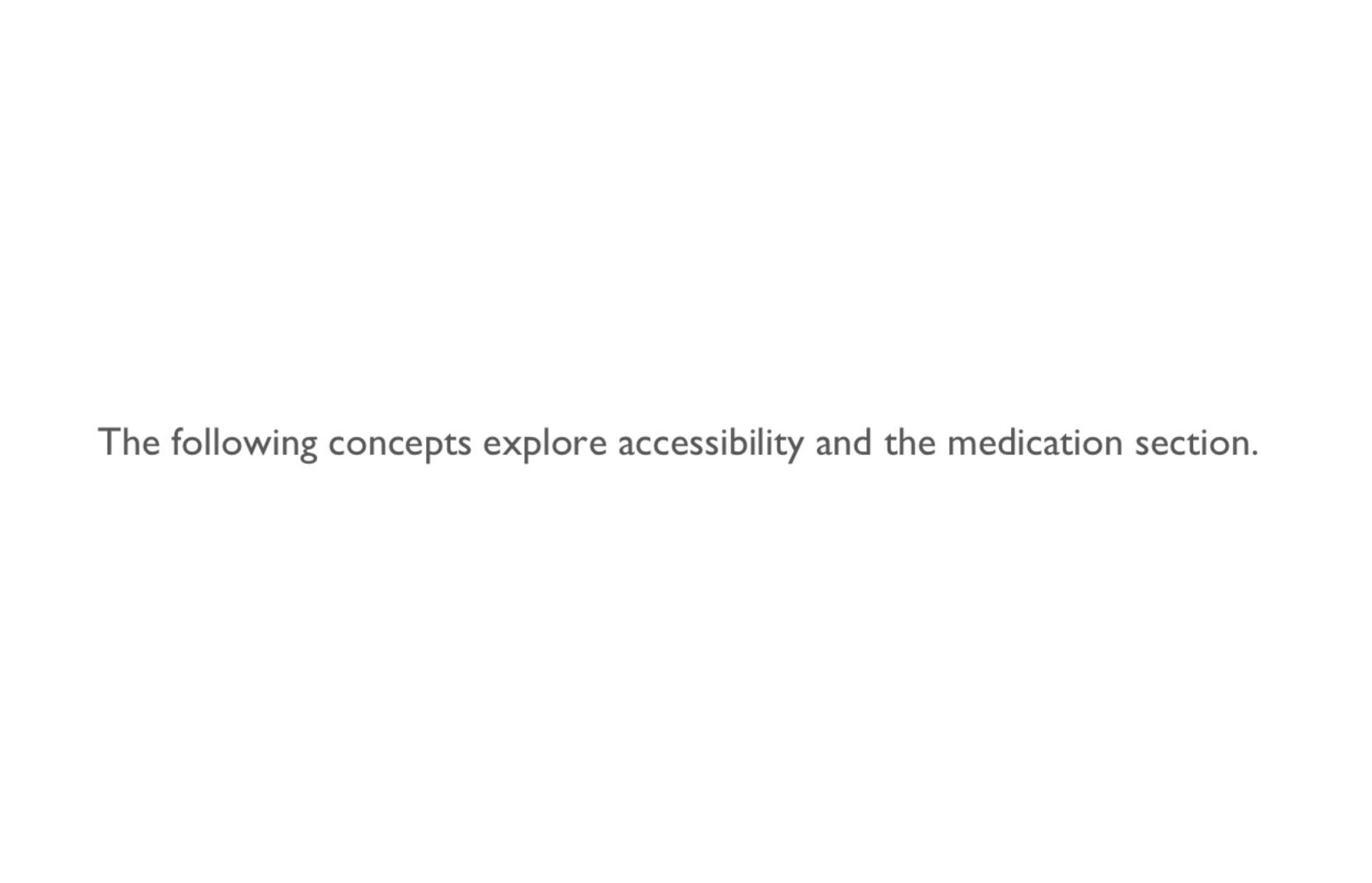
MITRE / FLUX NOTES SELECTED CONCEPTS v14.8

EDWIN CHOI, DANIEL REEVES, JUHAN SONIN, 13.JUL.2018





COLOR PALETTE

Current color palette

Background



Background bex FFFFFF rgb 255 255 255 Contrast gray hex F9F9F9 rgb 249 249 249 Feature gray Line gray hex DDDDDD rgb 240 240 240 rgb 221 221 221

Type



Body gray bex 3F3F3F rgb 63 63 63



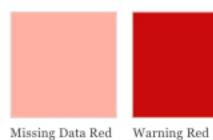
State hex AAAAAA rgb 170 170 170



hex FoFoFo

Warning Red hex C8oBoB rgb 200 11 11

Alert



Missing Data Red hex FFB0A2 rgb 255 176 162



hex C8oBoB

rgb 200 11 11

Interactive



Interface Blue hex 028DEA rgb 2 141 234

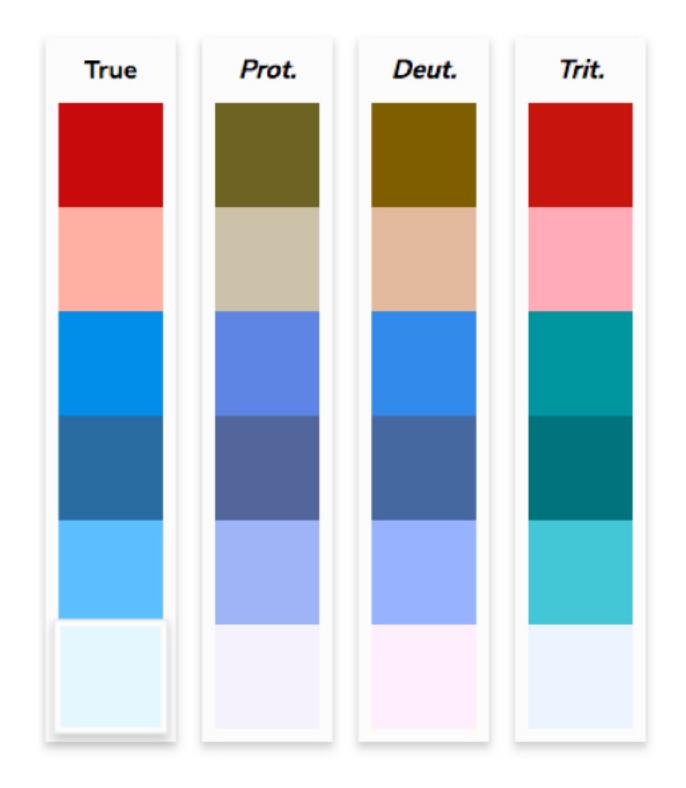


SHR Context Dark SHR Context Line hex 296CA1 hex 5EBFFF rgb 41 108 161 rgb 94 191 255



SHR Context Light hex E5F7FF rgb 229 247 255

Accessibility (color)



Accessibility (contrast)	Contrast ratio	Norma	Normal text		Large text	
Accessionity (correrase)		AA	AAA	AA	AAA	
Body gray text on white	10.5:1	Pass	Pass	Pass	Pass	
State text on white	2.3:1	Fail	Fail	Fail	Fail	
Warning red on white	6:1	Pass	Fail	Pass	Pass	
Interface blue on white	3.5:1	Fail	Fail	Pass	Fail	
Body gray text on contrast gray	10:1	Pass	Pass	Pass	Pass	
Body gray text on SHR context light	9.6:1	Pass	Pass	Pass	Pass	
State text on contrast gray	2.2:1	Fail	Fail	Fail	Fail	
Selected structured data	4.7:1	Pass	Fail	Pass	Pass	
(Less common use cases)						
80% body gray text over white	8.2:1	Pass	Pass	Pass	Pass	
80% body gray text over feature grey	9.2:1	Pass	Pass	Pass	Pass	

Date of birth 5 Apr 1966 (51) Female

Admin. sex Location

Boston, MA

Condition

Ductal carcinoma of the breast -



Q Debra24 search...

G.

Summary

Timeline

Medication

Allergies

Labs

Social

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

Current color palette on Flux Notes

Summ

Ms. Debra24 Hernandez98Aj is a 51year-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 New note

10 April 2018

Dr. Free2 Will

Dana Farber Cancer Institute

B I $U :\equiv \vdots \equiv$ carcinoma of the breast

REASON FOR VISIT

Follow-up consultation regarding a procedure related to Invasive ductal carcinoma of the breast.

HISTORY OF PRESENT ILLNESS

Here is the full history of present illness for invasive ductal carcinoma of the breast, with all the structured data. Structured data to capture: #staging. Other structured data to capture, #disease status.

Additional structured data to capture, #toxicity.

Additional structured data, #HER2.

Placeholder fields for structured data like #ER, #PR can be filled via template POS.

REVIEW OF SYSTEMS

Review of systems text.

ALLERGIES

Allergies text.

MEDICATIONS

Allergies text.

PHYSICAL EXAM

Physical exam text.

ASSESSMENT

Assessment text. Patients blood pressure is an example of capturing a value #blood pressure

Remove unfilled elements and sign



× Close









Templates Shortcuts

Patient

@patient

@age

@gender

@dateofbirth

@name



Remove note

C,

Summary

Timeline

Medication

Allergies

Labs

Date of birth

Admin. sex Location

Condition

Boston, MA Ductal carcinoma of the breast -



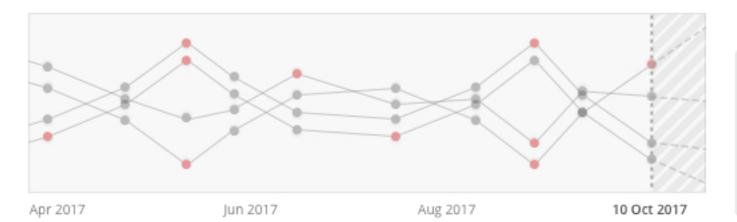
Q Debra24 search...



Labs Invasive ductal carcinoma of breast

∨ Panels (15) nels Current color palette on Flux Notes Add date s of:

Lipid panel	8 Oct 2017	9 Oct 2017	10 Oct 2017
Total cholesterol	180 mg/dl	150 mg/dl	150 mg/dl
HDL cholesterol	35 mg/dl	35 mg/dl	Missing data
LDL cholesterol	46 mg/dl	46 mg/dl	46 mg/dl
HDL cholesterol	35 mg/dl	35 mg/dl	35 mg/dl
LDL cholesterol	46 mg/dl	46 mg/dl	46 mg/dl



Metabolic panel	10 Oct 2017	9 Oct 2017	10 Oct 2017
Blood urea nitrogen	112 mg/dl	150 mg/dl	150 mg/dl











Sort by most recent ▼

+ Search filters

47 previous notes

2 Aug 2017

Clinical follow-up

Dr. Free2 Will Dana Farber Cancer Institute

20 Jun 2017

Clinical follow-up

Dr. Free2 Will Dana Farber Cancer Institute

14 May 2017

Clinical follow-up

Dr. Free2 Will

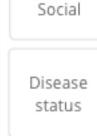
Dana Farber Cancer Institute

8 May 2017

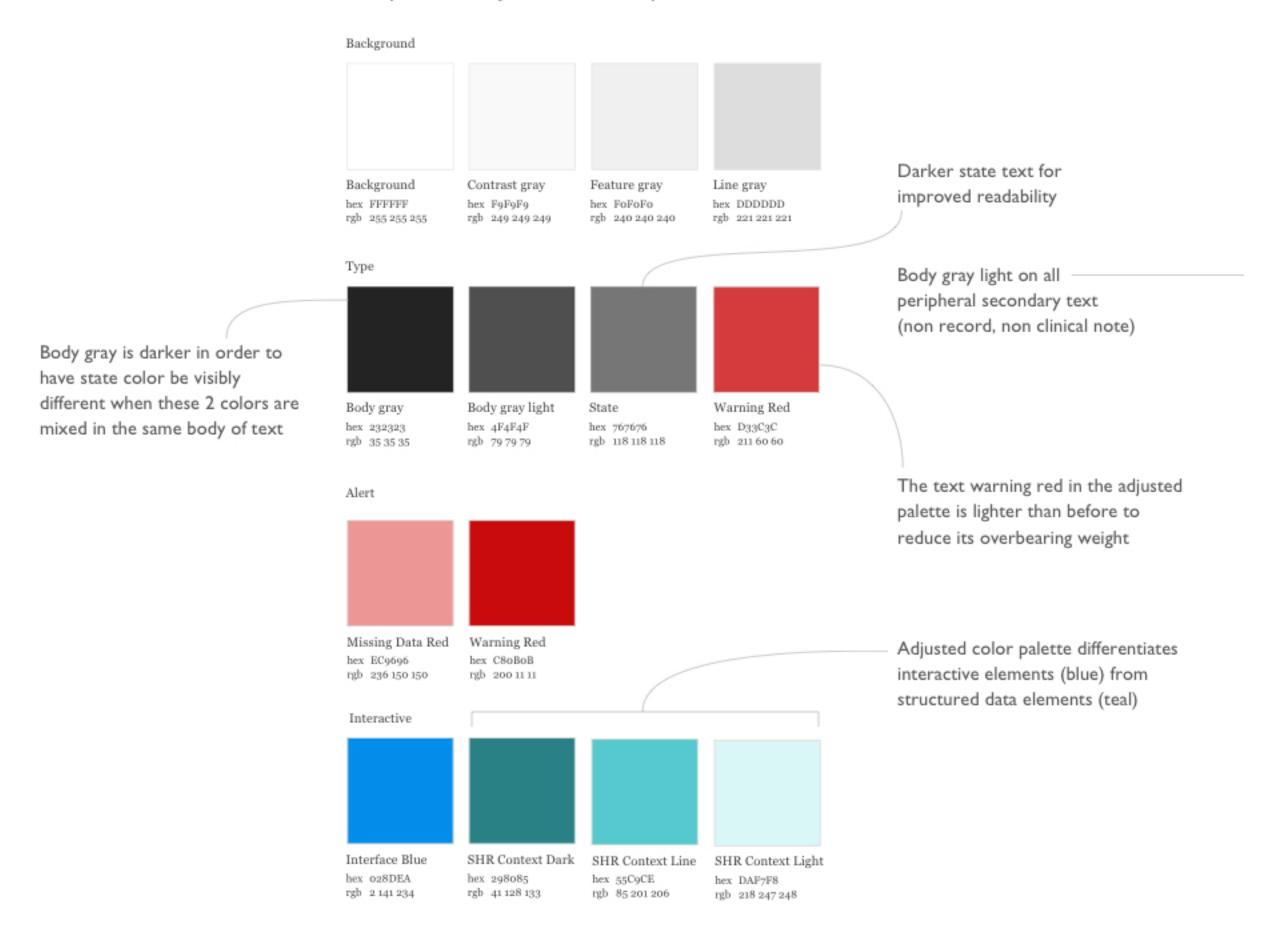
Clinical follow-up

Dr. Free2 Will Dana Farber Cancer Institute

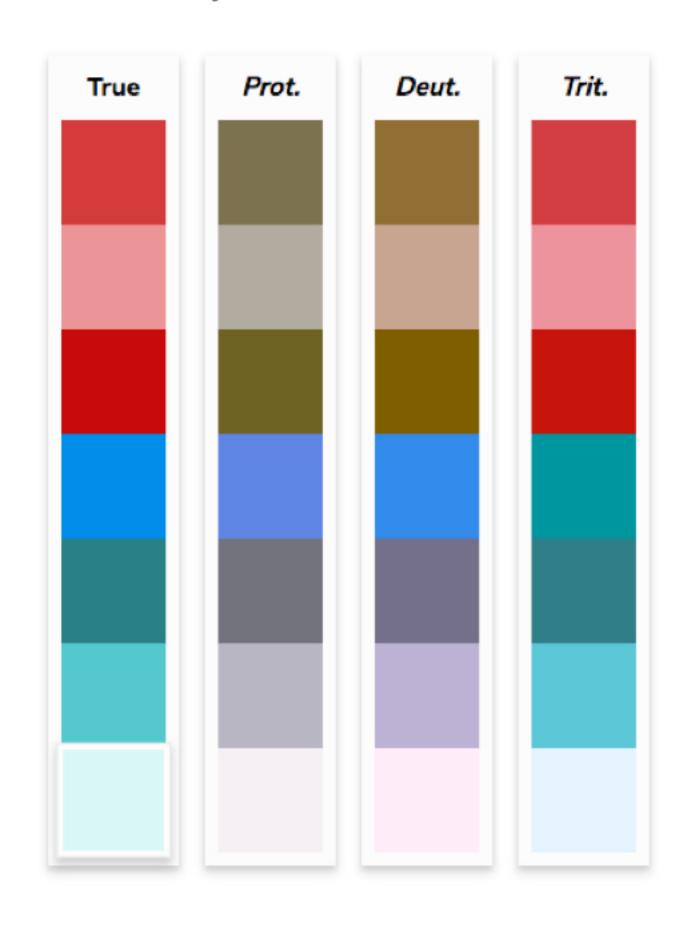
View 10 more clinical notes from 2015 - 2017



Proposed adjusted color palette



Accessibility (color)



Accessibility (contrast)	Contrast ratio	Normal text		Large	text	
, 100000101111y (00111111011)		AA	AAA	AA	AAA	
Body gray text on white	15.7:1	Pass	Pass	Pass	Pass	
Body gray light text on white	8.2:1	Pass	Pass	Pass	Pass	
State text on white	4.5:1	Pass	Pass	Pass	Pass	
Warning red on white	6:1	Pass	Fail	Pass	Pass	
Interface blue on white	3.5:1	Fail	Fail	Pass	Fail —	
Body gray text on contrast gray	15:1	Pass	Pass	Pass	Pass	Not critical for single words
Body gray text on SHR context light	14:1	Pass	Pass	Pass	Pass	140t critical for single words
State text on contrast gray	4.3:1	Fail	Fail	Pass	Fail —	
Selected structured data	4.7:1	Pass	Fail	Pass	Pass	
(Less common use cases)						
Body gray light over white	8.2:1	Pass	Pass	Pass	Pass	
Body gray light over feature gray	7.2:1	Pass	Pass	Pass	Pass	

Date of birth 5 Apr 1966 (51) Female

Location Admin. sex Boston, MA

Condition

Ductal carcinoma of the breast -



Q Debra24 search...

C.

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

physician for 12 was re-

Adjusted color palette on Flux Notes

Summ...,

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Dr. Free2 Will New note 10 April 2018 Dana Farber Cancer Institute

B I $U :\equiv \vdots \equiv$ carcinoma of the breast

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Review of systems text.

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Allergies text.

MEDICATIONS

Allergies text.

PHYSICAL EXAM

Physical exam text.

ASSESSMENT

Assessment text. Patients blood pressure is an example of capturing a value #blood pressure

Remove unfilled elements and sign

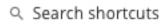


× Close









Templates Shortcuts

Patient

@patient

@age

@gender

@dateofbirth

@name



Remove note



(4)

Q Debra24 search...



Labs Invasive ductal carcinoma of breast

nels Adjusted color palette on Flux Notes

				s of:
			-	

∨ Panels (15)

Lipid panel	8 Oct 2017	9 Oct 2017	10 Oct 2017
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HDL cholesterol	35 mg/dl	35 mg/dl	Missing data
LDL cholesterol	46 mg/dl	46 mg/dl	46 mg/dl
HDL cholesterol	35 mg/dl	35 mg/dl	35 mg/dl
LDL cholesterol	46 mg/dl	46 mg/dl	46 mg/dl

Add date

Allergies

Medication

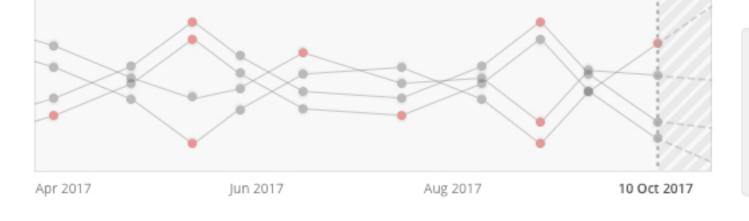
Summary

Timeline

Labs

Social

Disease status



Metabolic panel	10 Oct 2017	9 Oct 2017	10 Oct 2017
Blood urea nitrogen	112 mg/dl	150 mg/dl	150 mg/dl









Sort by most recent ▼

+ Search filters

47 previous notes

2 Aug 2017

Clinical follow-up

Dr. Free2 Will Dana Farber Cancer Institute

20 Jun 2017

Clinical follow-up

Dr. Free2 Will Dana Farber Cancer Institute

14 May 2017

Clinical follow-up

Dr. Free2 Will

Dana Farber Cancer Institute

8 May 2017

Clinical follow-up

Dr. Free2 Will Dana Farber Cancer Institute

View 10 more clinical notes from 2015 - 2017

2 MEDICATIONS (SHORT TERM)

Active medications	Dose	Timing	Start	End
MedicationMedA	> 10 mg	qd	24 Feb 2017 reduced, side effect	12 Dec 2018
MedicationMedb	> 1 tablet	qd	2 March 2017 reduced, side effect	
MedicationMedC	> 10 ml	5 cycles	10 Oct 2017	17 Oct 2017 stopped, ineffective

Increasing the width of the content area in the designs in order to make space for patient record information. This means that the narrative view can be split into 2-columns to ensure the number of characters are within the ideal range.

54 charcters per column (ideal is between 45 - 75)

Patient has Invasive ductal carcinoma of breast laterality Right stage IA diagnosed on 29 NOV 2015. As of 30 JAN 2018, disease is Stable, neither improving nor worsening based on missing. No

recent lab results. Key toxicities include Grade 3 peripheral motor neuropathy, no blood clots, no neutropenia, no nausea/vomiting. Patient is ER Negative, PR Positive, and HER2 Positive.

Active medications	Dose	Timing	Start	Stop
MedicationMedA	10 mg	qd	24 Feb 2017 reduced, inc	effective 12 Dec 2018
	20 mg	qd	15 Feb 2018 increased, in	neffective
	10 mg	qd	10 Jan 2018	
	5 mg	qd	5 Nov 2016	2 Jan 2017 temp stop, finished
MedicationMedb	> 1 tablet	qd	2 March 2017 reduced, s	ide effect
MedicationMedC	> 10 ml	qd	10 Oct 2017	17 Oct 2017 stopped, ineffective
		Medicat	ion change type:	Medication change reason:
		• Reduc	ed	Not_needed
		 Increa 	sed	• Finished
		• Temp	_stop	Ineffective
		 Swap 		Burdensome
		• Stop		Difficult
				Side_effect

Active medications	Dose	Timing	Start		Stop
MedicationMedA	√ 10 mg	qd	24 Feb 2017	reduced, ineffective	20 Jul 2018 stopped, burdensome
	20 mg	qd	15 Feb 2018	increased, ineffective	
	10 mg	qd	10 Jan 2018		
	5 mg	qd	5 Nov 2016		2 Jan 2017 temp stop, finished
MedicationMedb	> 1 tablet	qd	2 March 2017	reduced, side effect	
MedicationMedC	> 10 ml	qd	10 Oct 2017		17 Oct 2017 stopped, ineffective

3 MEDICATIONS (LONG TERM)

Active medications (2)

> Filter

Medications	Dosage	Start	Stop	More
MedicationMedA	> 10 mg qd (5) 5 20 25	24 Feb 2018 reduced, side ef	12 Dec 2018	
MedicationBB	> 150 mg qd 1 50 125	2 Feb 2018	2 Nov 2018	

- - > Filter

Medications	Dosage	Start Stop	More
MedicationC	> 2 tablets qd	24 Feb 2017 reduced, side ef 20 Oct 2017 stoppe	ed, finished
MedicationD	> 130 mg qd 1 50 125	10 Jan 2016 stoppe	ed, finished
MedicationE	> 10 mg qd 5 20 25	5 Jan 2016 reduced, side ef	ed, finished

> History (27) Invasive ductal carcinoma of breast —

Medications Invasive ductal carcinoma of breast

Active medications (2)

> Filter

Medications	Dosage	Start	Stop	More
MedicationMedA	∨ 10 mg qd (5) 5 20 25	24 Feb 2018 reduced, side ef	12 Dec 2018	
	20 mg qd (5)	15 Feb 2018 increased		
	0 mg	10 Jan 2017 temp stop, burd		
	5 mg qd 5	5 Nov 2016		
MedicationBB	> 150 mg qd 1 50 125	2 Feb 2018 increased	2 Nov 2018	

Expanding a particular medication reveals its entire MedicationChangeType history

- ▼ Inactive medications (3) Invasive ductal carcinoma of breast
 - > Filter

Medications	Dosage		Start	Stop	More
MedicationC	> 2 tablets qd	5	24 Feb 2017 reduced, side ef	20 Oct 2017 stopped, finishe	d
MedicationD	> 130 mg qd	125 130	10 Jan 2016	15 Jan 2016 stopped, finishe	d
MedicationE	> 10 mg qd 5	20 25	5 Jan 2016 reduced, side ef	10 Jan 2016 stopped, finishe	d

> History (27) Invasive ductal carcinoma of breast —

- Active medications (2)
 - > Filter

Medications	Dosage	Start	Stop	More
MedicationMedA	∨ 10 mg qd (5) 5 20 25	24 Feb 2018 reduced, side ef	12 Dec 2018	
	20 mg qd (5)	15 Feb 2018 increased		
	0 mg	10 Jan 2017 temp stop, burd		
	5 mg qd 5	5 Nov 2016		
MedicationBB	> 150 mg qd 1 50 125	2 Feb 2018 increased	2 Nov 2018	

- Inactive medications (3) Invasive ductal carcinoma of breast
 - > Filter

Medications	Dosage		Start	Stop	More
MedicationC	> 2 tablets qd 2	3 5	24 Feb 2017 reduced, side ef	20 Oct 2017 stopped, finishe	ed
MedicationD	> 130 mg qd	125 130	10 Jan 2016	15 Jan 2016 stopped, finishe	ed
MedicationE	> 10 mg qd	20 25	5 Jan 2016 reduced, side ef	10 Jan 2016 stopped, finishe	ed

- History (27) Invasive ductal carcinoma of breast
- > Filter

Medication	Dosage		Start	Stop	More
MedicationMedA	10 mg qd (5)	20 25	24 Feb 2018 reduced, side ef	12 Dec 2018	
MedicationMedA	20 mg qd (5) 5	20 25 20	15 Feb 2018 increased		
MedicationBB	150 mg qd	50 125 150	2 Feb 2018 increased	2 Nov 2018	
MedicationC	2 tablets qd	3 5	24 Feb 2017 reduced, side ef	20 Oct 2017 stopped, finishe	d
MedicationMedA	0 mg	20 25	10 Jan 2017 temp stop, burd		
MedicationMedA	5 mg qd 5	20 25	5 Nov 2016		

There are additional data elements that must be considered in future medication section designs:

- Renewals
- Refills
- Prescriber
- Administration route
- Instructions

The global condition selector may be relevant to the information presentation to an entire section (like procedures, allergies), OR, depending on the information it may be releavant to only specific subsections