

MITRE / FLUX NOTES **SELECTED CONCEPTS v14.2 (LABS, TRIALS, TOXICITIES)**

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The following concepts explore comparing 2 different day lab values (for both table and visualization modes), clinical trial section concepts, and the toxicity visualization mode (representing toxicities not as an acute 1 day event, but something that may be continuous).

I

COMPARE DAYS FOR LABS (TABLE)

Labs Invasive ductal carcinoma of breast



Panels (15)

> Filter panels

View closest to

Pick date X and Pick date X

Value	
Lipid panel	7 Dec 2017
Total cholesterol	150 mg/dl
HDL cholesterol	35 mg/dl
LDL cholesterol	46 mg/dl
HDL cholesterol	35 mg/dl
LDL cholesterol	46 mg/dl

Value	
Lipid panel	12 Oct 2016
Triglycerides	112 mg/dl
Total cholesterol	150 mg/dl
HDL cholesterol	35 mg/dl
Total cholesterol	150 mg/dl
HDL cholesterol	35 mg/dl

Value	
Metabolic panel	10 Oct 2016
Blood urea nitrogen	112 mg/dl
Calcium	150 mg/dl
Carbon dioxide	35 mg/dl
Chloride	150 mg/dl
Creatinine	35 mg/dl

Pick date X and Pick date X

Jun 2018

«	<	Jun 2018	>	»		
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Today Last visit
Last post op ...

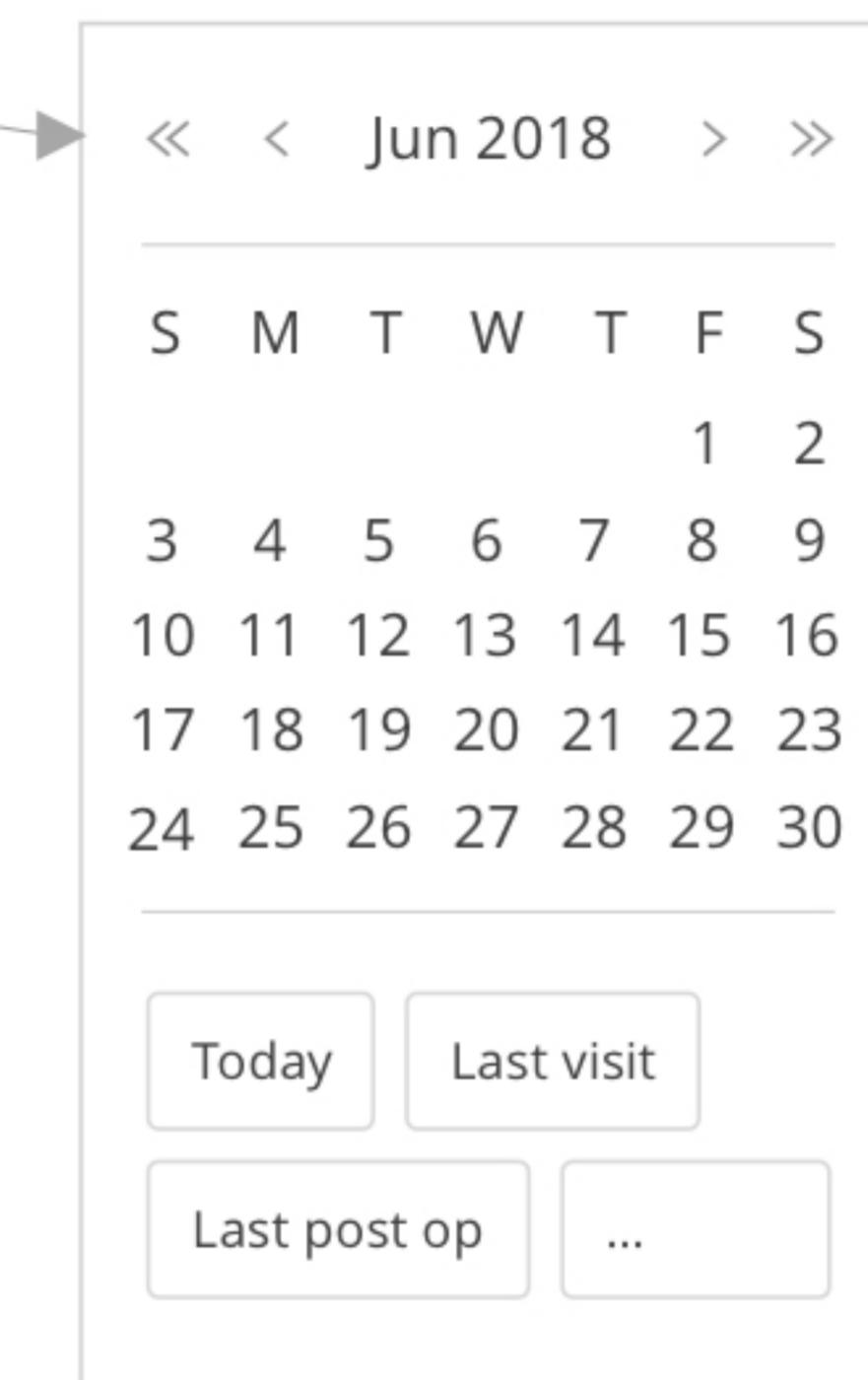
Labs Invasive ductal carcinoma of breast



Panels (6)

> Filter panels

► View closest to 1 Jun 2018 and Pick date



Lipid panel Value
1 Jun 2018

Total cholesterol 150 mg/dl

HDL cholesterol 35 mg/dl

LDL cholesterol 46 mg/dl

HDL cholesterol 35 mg/dl

LDL cholesterol 46 mg/dl

Metabolic panel Value
10 Oct 2017

Blood urea nitrogen 112 mg/dl

Calcium 150 mg/dl

Carbon dioxide 35 mg/dl

Chloride 150 mg/dl

Creatinine 35 mg/dl

Complete blood count Value
9 Oct 2017

Blood urea nitrogen 112 mg/dl

Calcium 150 mg/dl

Carbon dioxide 35 mg/dl

Chloride 150 mg/dl

Creatinine 35 mg/dl

One of each panel closest to the chosen date (closest up to, or closest in general?) populates the area.

Labs Invasive ductal carcinoma of breast



▼ Panels (6)

> Filter panels

View closest to 1 Jun 2018 [X](#) and 8 Jan 2016 [X](#)

Are 2 date comparisons enough?
Provider feedback needed, to see
up to how many dates they may
want to compare.

Lipid panel	Value 1 Jun 2018	Value 8 Jan 2016
Total cholesterol	150 mg/dl	150 mg/dl
HDL cholesterol	35 mg/dl	35 mg/dl
LDL cholesterol	46 mg/dl	46 mg/dl
HDL cholesterol	35 mg/dl	35 mg/dl
LDL cholesterol	46 mg/dl	46 mg/dl

Metabolic panel	Value 10 Oct 2017	Value 8 Jan 2016
Blood urea nitrogen	112 mg/dl	112 mg/dl
Calcium	150 mg/dl	150 mg/dl
Carbon dioxide	35 mg/dl	35 mg/dl
Chloride	150 mg/dl	150 mg/dl
Creatinine	35 mg/dl	35 mg/dl

+ Insert 8 Jan 2016 metabolic panel

Complete blood count	Value 9 Oct 2017	Value 8 Jan 2016
Blood urea nitrogen	112 mg/dl	112 mg/dl
Calcium	150 mg/dl	150 mg/dl
Carbon dioxide	35 mg/dl	35 mg/dl
Chloride	150 mg/dl	150 mg/dl
Creatinine	35 mg/dl	35 mg/dl

2

COMPARE DAYS FOR LABS (VISUAL)

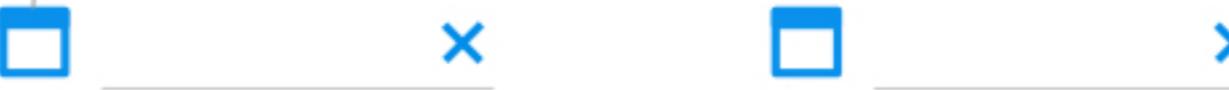
Labs Ductal carcinoma of the breast



Panels (5)

Filter panels

View closest to



« < Jun 2018 > »

S M T W T F S

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Today

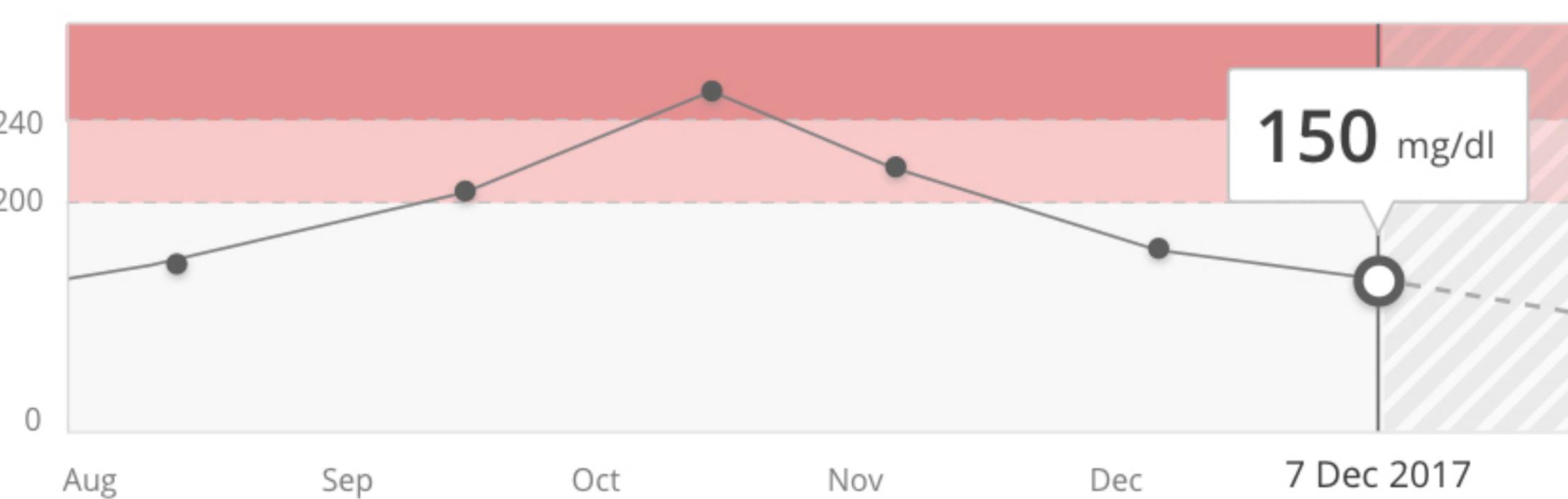
Last visit

Last post op

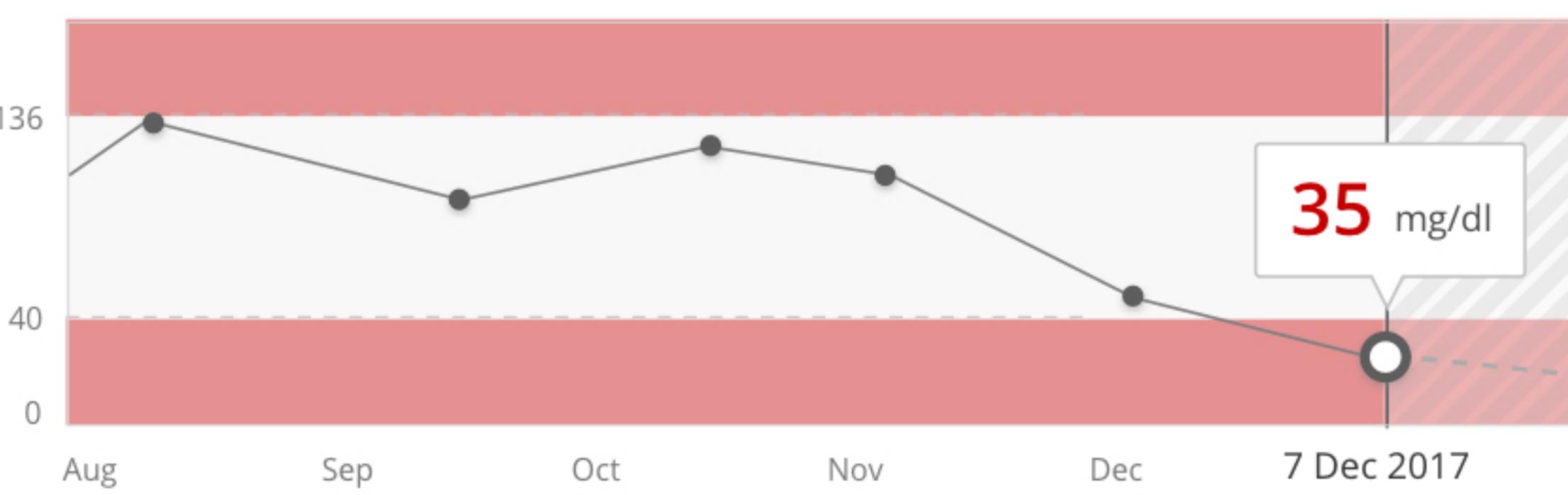
...

Lipid panel

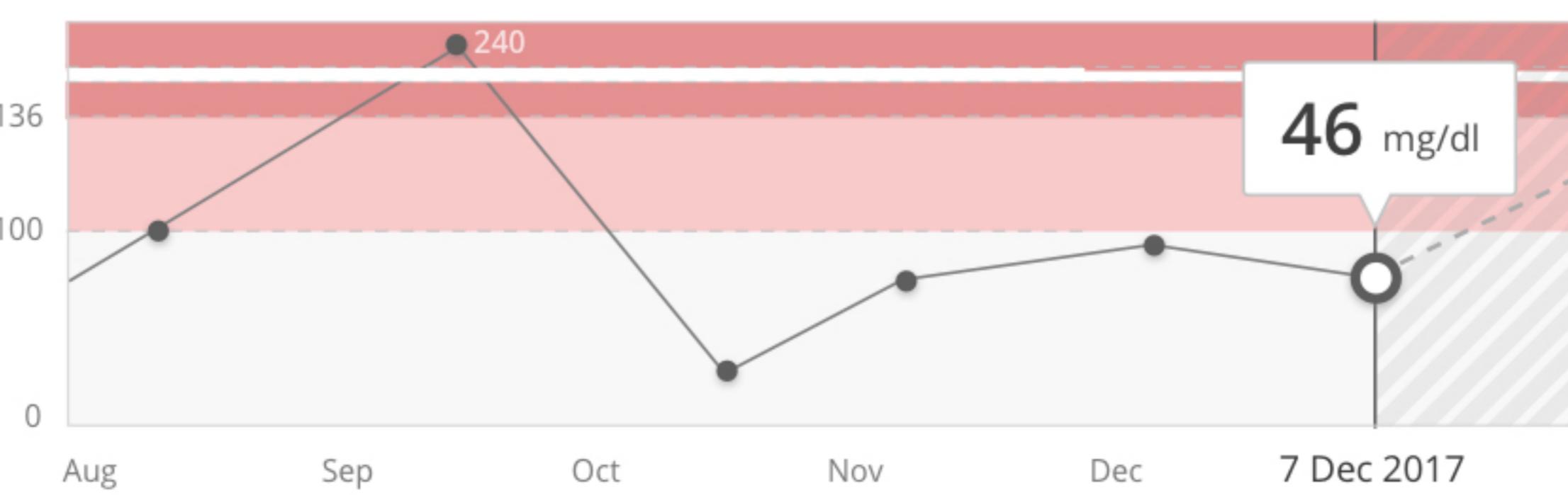
Total cholesterol



HDL cholesterol



LDL cholesterol



Triglycerides

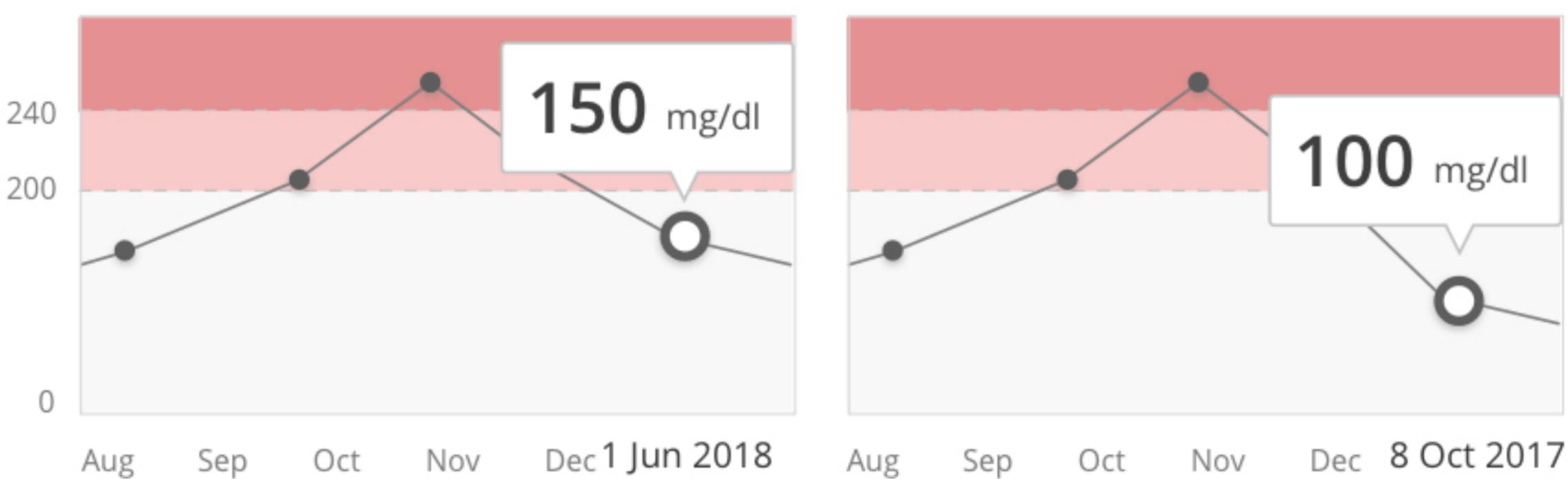
Panels (3)

Filter panels

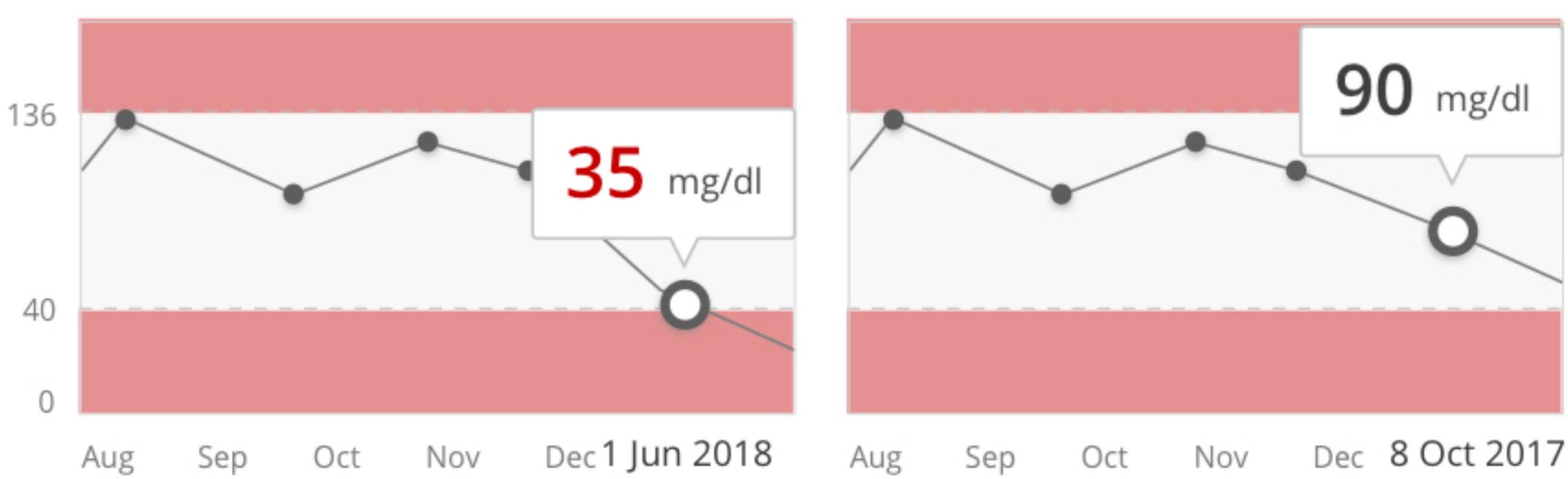
View closest to 1 Jun 2018 and 8 Oct 2017

Lipid panel

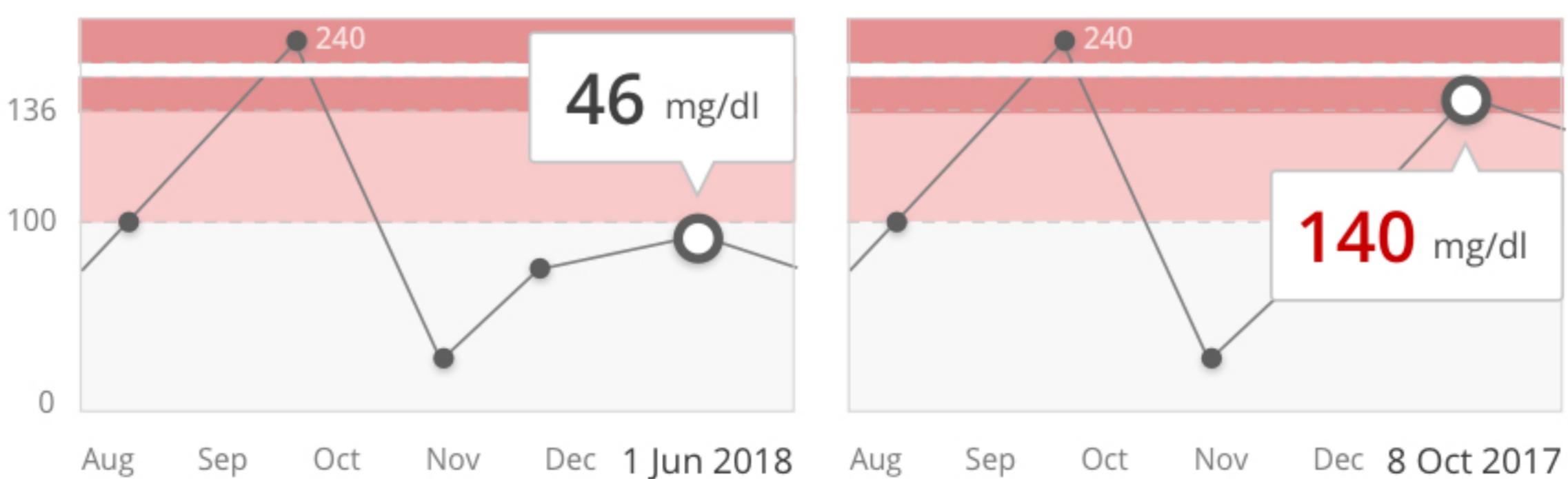
Total cholesterol



HDL cholesterol



LDL cholesterol



Triglycerides



Opportunity for parallel coordinate visualizations?

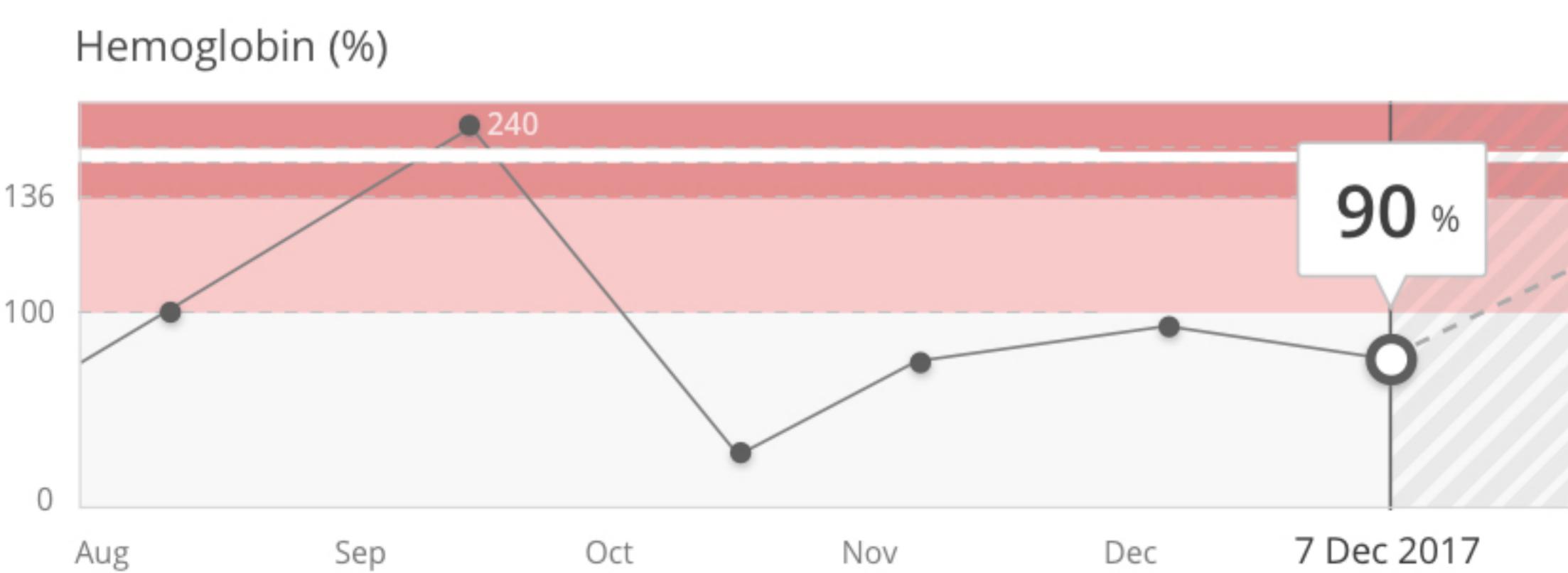
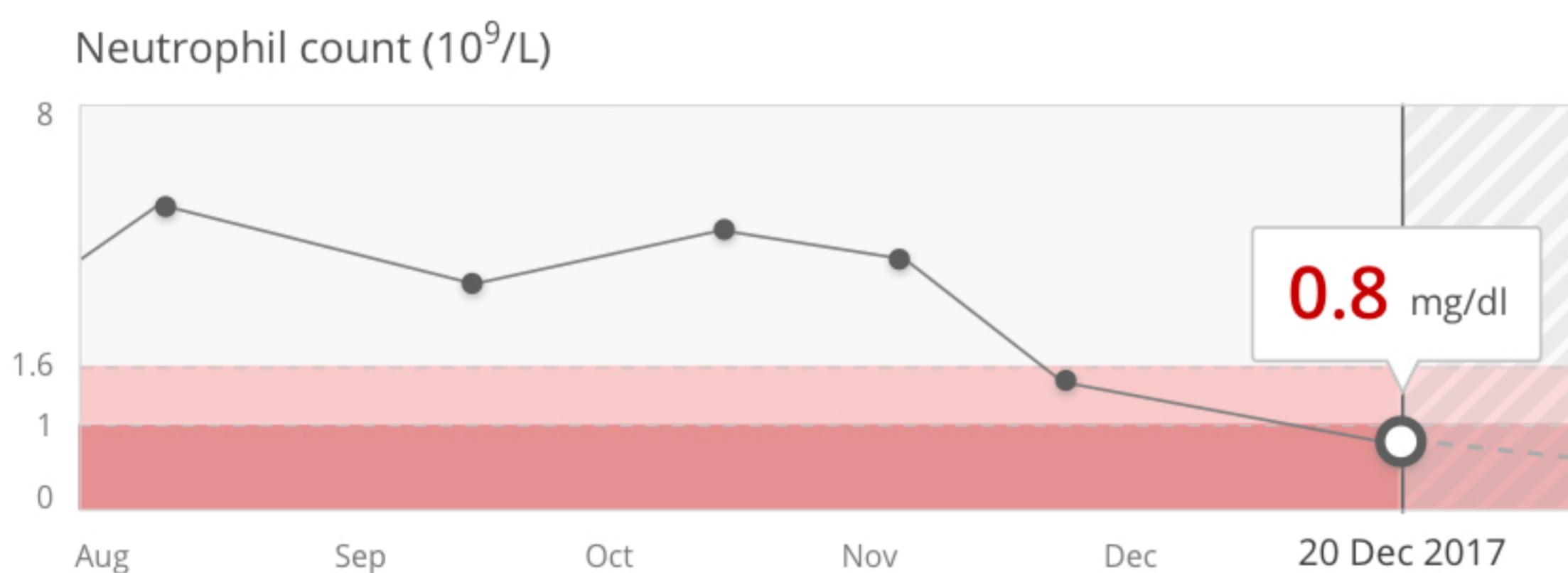
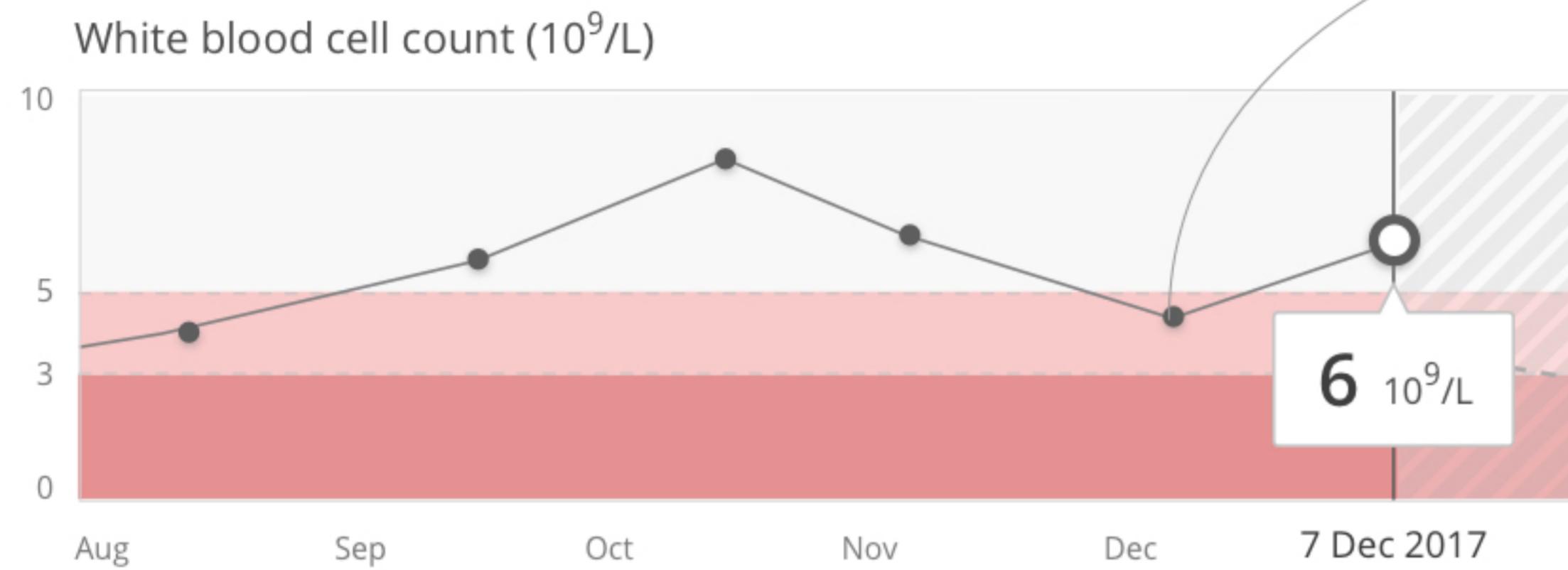
Is there a use case for comparing longitudinal values when looking at 2 dates?

Labs Ductal carcinoma of the breast



- > Panels (5) —
- ✓ Labs (84) —
- > Filter labs

View closest to Pick date and Pick date

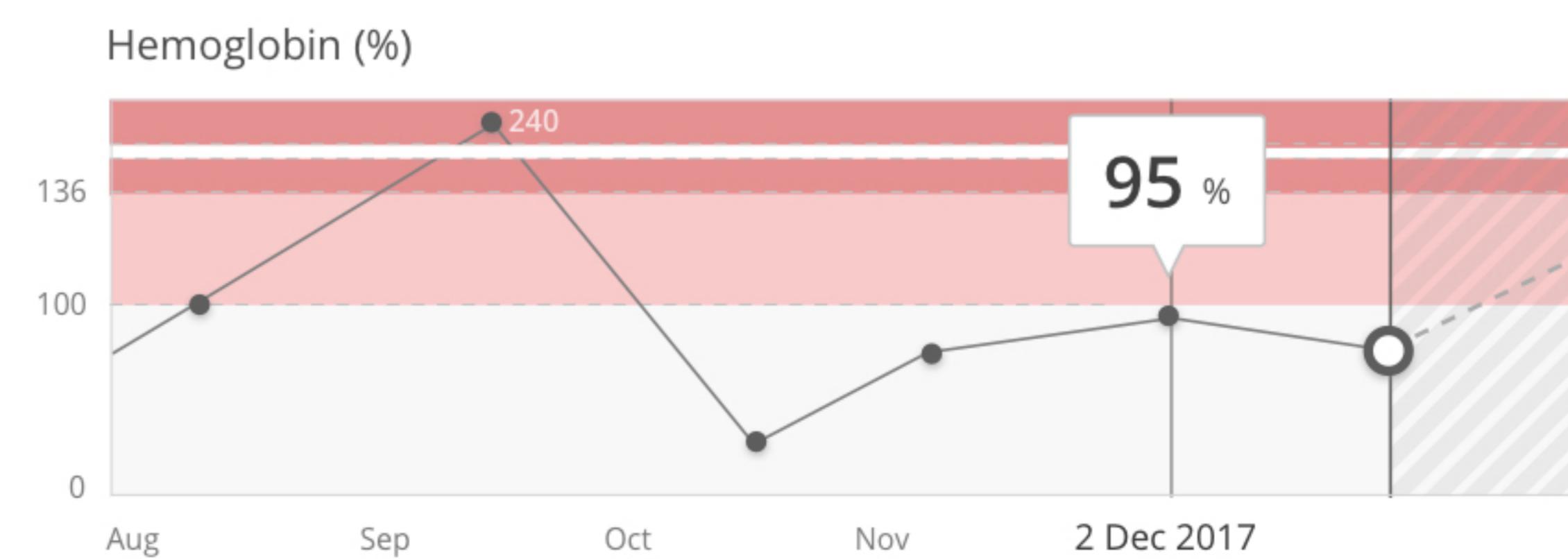
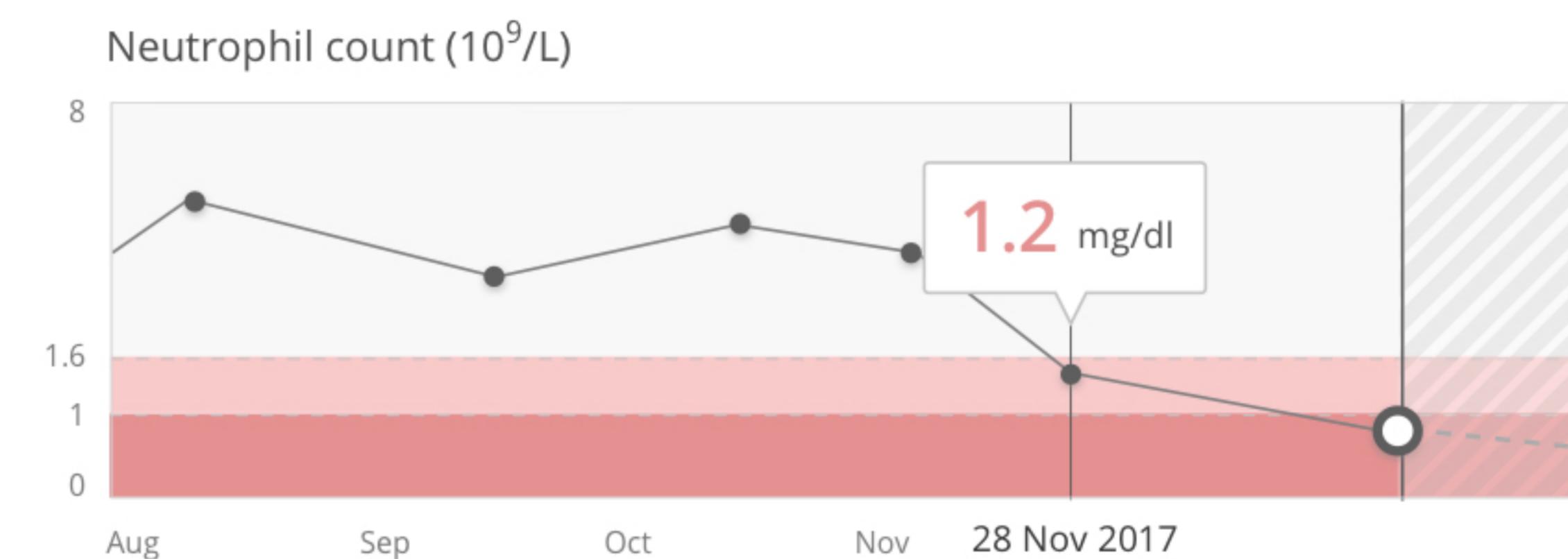
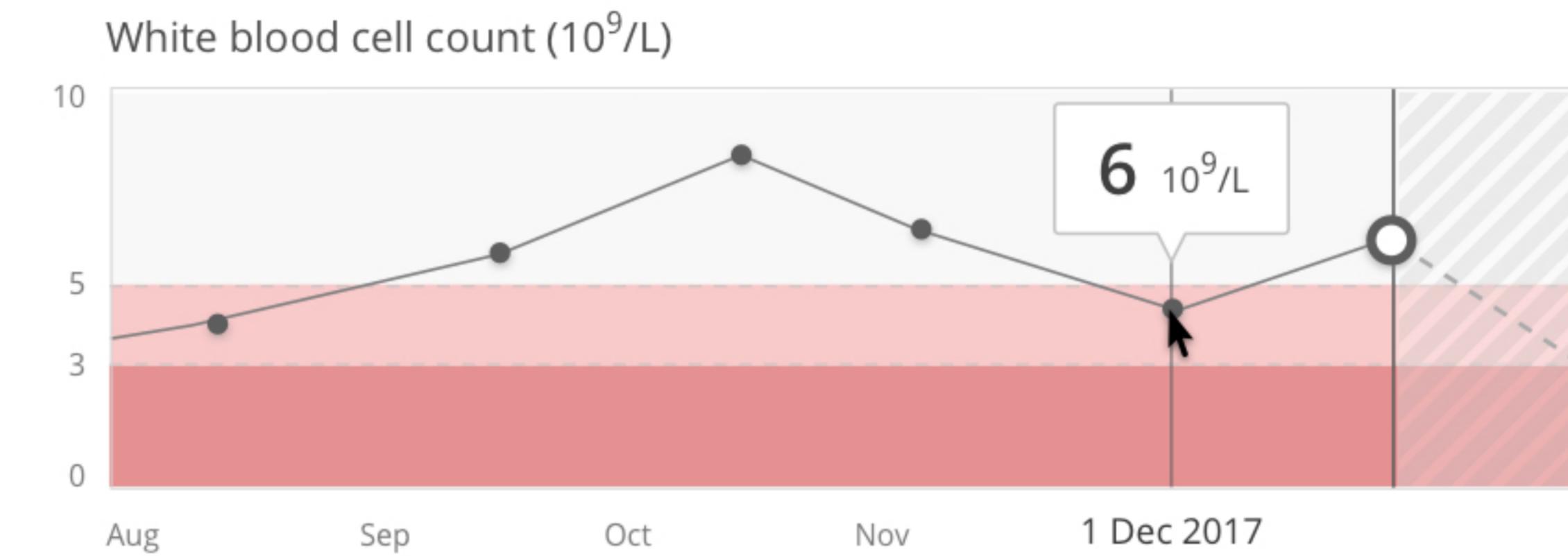


Labs Ductal carcinoma of the breast



- > Panels (5) —
- ✓ Labs (84) —
- > Filter labs

View closest to Pick date and Pick date



1 to 1 relationship while viewing lab values. When hovering over a particular value for a lab, the value labels on all other labs jumps to the same date, or near it if that date entry does not exist.

3

CLINICAL TRIALS

Clinical Trials



Enrolled (2)

Trial	Start date	End date	Description
PATINA	10 Nov 2017	10 Nov 2019	Metastatic breast cancer
PALLAS	10 Nov 2017	10 Nov 2019	Early breast cancer

Potential to enroll (4)

Trial	Criteria fit	Start date	Description
Trial3	5 of 10	10 Nov 2019	Metastatic breast cancer
Trial4	4 of 10	10 Nov 2019	Metastatic breast cancer
Trial5	3 of 8	10 Nov 2019	Metastatic breast cancer
Trial6	1 of 10	10 Nov 2019	Metastatic breast cancer

Clinical Trials



Ella is enrolled in [PATINA](#) and [PALLAS](#).

She can potentially enroll in [Trial3](#), [Trial4](#), [Trial5](#), [Trial6](#).

Clinical Trials



Enrolled (2)

Trial	Start date	End date	Description
PATINA	10 Nov 2017	10 Nov 2019	Metastatic breast cancer
PALLAS	10 Nov 2017	10 Nov 2019	Early breast cancer

Potential to enroll (4)

Trial	Criteria fit	Start date	Description
Trial3	5 of 10	10 Nov 2019	Metastatic breast cancer
	+ Insert trial3 enrollment	019	Metastatic breast cancer
		019	Metastatic breast cancer
	> View eligibility criteria	019	Metastatic breast cancer

Clinical Trials



Enrolled (2)

Trial	Start date	End date	Description
PATINA	10 Nov 2017	10 Nov 2019	Metastatic breast cancer
PALLAS	10 Nov 2017	10 Nov 2019	Early breast cancer

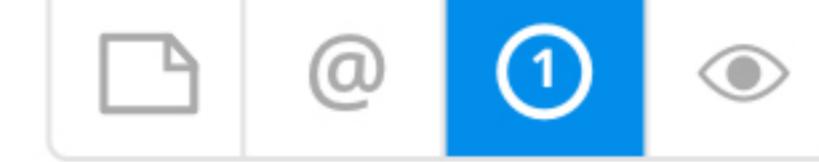
Potential to enroll (4)

Trial	Criteria fit	Start date	Description
Trial3	5 of 10	10 Nov 2019	Metastatic breast cancer
	+ Insert trial3 enrollment	019	Metastatic breast cancer
	> View eligibility criteria	019	Metastatic breast cancer
		019	Metastatic breast cancer

Follow-up
10 April 2018

Dr. Free2 Will
Dana Farber Cancer Institute

 Close



B I U 

Patient > Trial 3

Missing criteria 

1 Plan

Ella #enrollment in #trial3

Ella #enrollment in #trial3

Exclusion criteria:
Pregnancy

Patient is pregnant

Patient is not pregnant

Ignore

Additional information on
trial3 exists online.

[View trial3 website](#)

Ignore

Clinical Trials



Enrolled (2)

Trial	Start date	End date	Description
PATINA	10 Nov 2017	10 Nov 2019	Metastatic breast cancer
PALLAS	10 Nov 2017	10 Nov 2019	Early breast cancer

Potential to enroll (4)

Trial	Criteria fit	Start date	Description
Trial3	5 of 10	10 Nov 2019	Metastatic breast cancer
	+ Insert trial3 enrollment	019	Metastatic breast cancer
		019	Metastatic breast cancer
		019	Metastatic breast cancer

Inclusion

- ✓ Female
- ✓ Pre-op mammogram
- ✓ Biopsy confirming breast carcinoma

...

Exclusion

- ✓ No BRCA 1 or 2 mutation
- ✓ No Cowden's disease

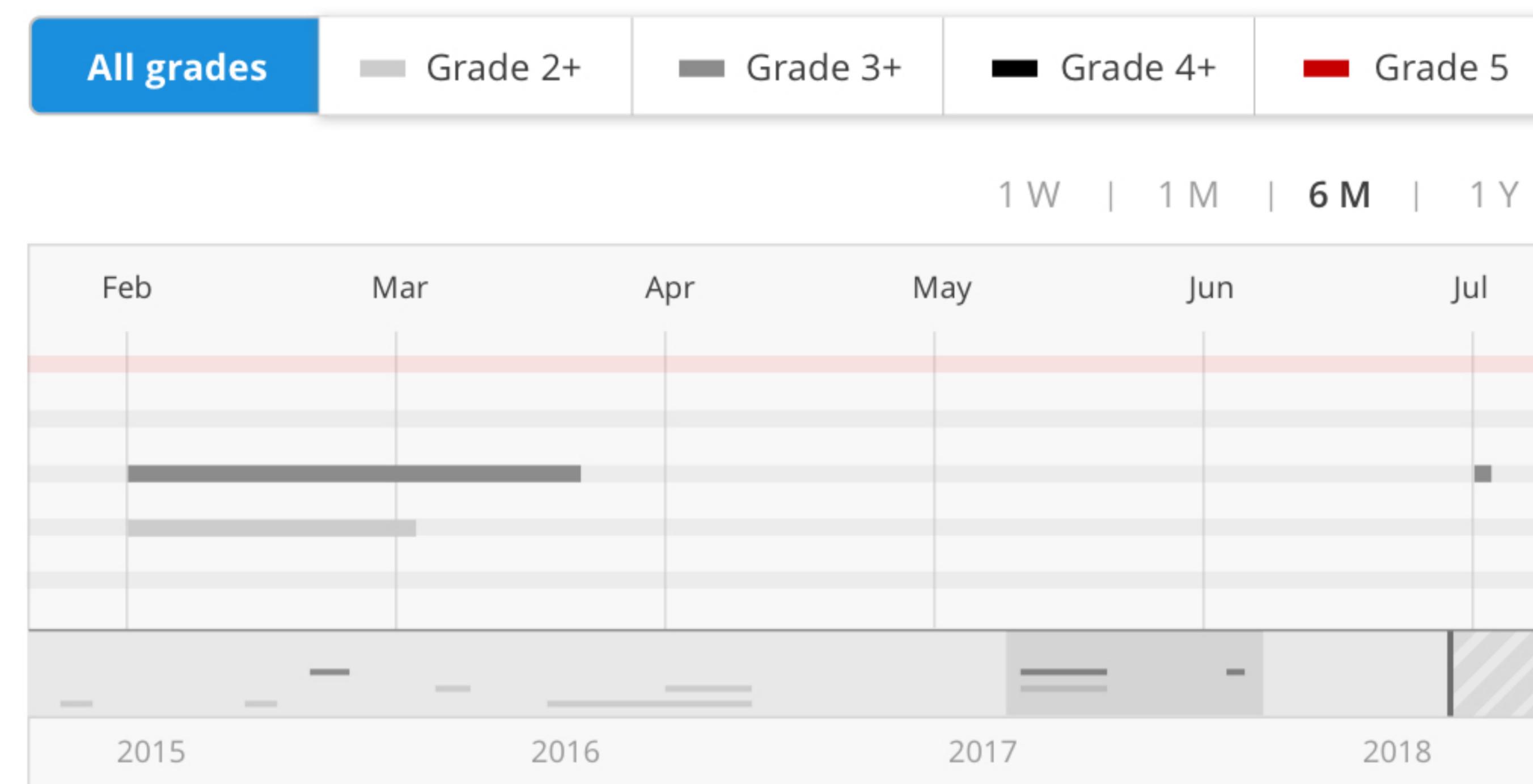
Not pregnant Missing

...

4

TOXICITIES (VISUAL)

Toxicities Ductal carcinoma of the breast



2017

1 month ago **Neutropenia Grade 0**
1 Jun 16 - 1 Jun 18 Treatment | Dr. Will253 Anne3 | Boston hospital

6 months ago **Nausea Grade 3**
1 Jul Treatment | Dr. Will253 Anne3 | Boston hospital

10 months ago **Constipation Grade 3**
1 Feb - 20 Mar Treatment | Dr. Will253 Anne3 | Boston hospital

10 months ago **Cough Grade 2**
2 Mar Unknown | Dr. Will253 Anne3 | Boston hospital

11 months ago **Constipation Grade 2**
1 Feb - 2 Mar Unknown | Dr. Will253 Anne3 | Boston hospital

Always track the ~5 most common toxicities specific to the condition, even if no adverse reactions were observed.