

The following are concepts that explore the search and view data source functionality within Flux Notes. The dropdown interaction for search should be viewed as a first step towards a more robust search functionality.

1 SEARCH - SHORT TERM DESIGN

1.1 SEARCH - SHORT TERM DESIGN

Flux Notes

Dr. Bran24 Michel09A

Debra24 Hernandez98Aj

5 Apr 1966 (51)

Female

Boston, MA

Pre-encounter

Ductal carcinoma of the breast

Search

disease status |

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.

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**.

1

She underwent a lumpectomy. She underwent a sentinel lymph node biopsy on 20 September 2012 which revealed infiltrating poorly differentiated

2

ductal carcinoma, estrogen receptor 0, etc. A diagnostic mammogram on 4 October 2013 revealed a 2 cm mass in the right breast at 7 o'clock and an indeterminate lymph node in the right axilla, 13 mm.

Timeline

All conditions

Show all

Inpatient

Outpatient

Condition status

Medications

Ductal carc...

Feb

Mar

Apr

May

Jun

Jul

7 search results

Disease status

Progressing on 15 May 17

Section name > Disease status

Progressing on 15 May 17

Clinical follow-up 2 Aug 2017

her **disease status** is currently...

Clinical follow-up 20 Jun 2017

has **ProgressingDisease** due to...

Clinical follow-up 14 May 2017

has **ProgressingDisease** due to...

Summary (3)

No recent **disease status**

Disease status (8)

Progressing on 15 May 17

8 May 2017

Clinical follow-up

Dr. Ineed Will

Dana Farber Cancer Inst...

View 10 more clinical notes from 2015 - 2017

Once search term(s) are fully typed and user presses "enter", search returns results based on relevance:

1. Section name match
2. Subsection name match
3. Clinical note content match
4. Content within section match

Returned results based on:

- Keyword match
- Related context (e.g. progressing disease is a term related to 'disease status')

More user feedback is required before determining search result priority (clinical note, patient record narrative view, patient record tabular view), and type of data priority (exact text, unstructured, structured, related text, etc).

1.2 SEARCH - SHORT TERM DESIGN

Search

disease status |

7 search results

Disease status

Progressing on 15 May 17

Section name > Disease status

Progressing on 15 May 17

Clinical follow-up 2 Aug 2017

her **disease status** is currently...

Clinical follow-up 20 Jun 2017

has **ProgressingDisease** due to...

Clinical follow-up 14 May 2017

has **ProgressingDisease** due to...

Summary (3)

No recent **disease status**

Disease status (8)

Progressing on 15 May 17

Narrative:

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. No recent **disease status**. Her previous **disease status**, recorded on 15 May 2017, is of **worsening**, disease progression based on pathology, imaging, and symptoms.

Visual:

Disease status timeline

1 W | 1 M | 6 M | 1 Y

Status

Size

2015

2016

2017

2018

The latest entry within the visualization view

The section name is highlighted

The subsection name is highlighted

For clinical note results, the entire individual clinical note is listed as a result. For example, whether the note had "disease status" written within it once, or several times, the note itself is shown as a single result.

Only the first or latest instance of the search match within a section is highlighted. When the user jumps to that section, all instances of that term (3) are highlighted in the view.

For the non clinical note results, the results reflect whatever view (narrative, tabular, visual) is currently being used for each section of the record.

The order of the results is determined by the lefthand minimap ordering of the sections.

1.3 SEARCH - SHORT TERM DESIGN

Search

histological grade |

3 search result

Clinical follow-up 2 Aug 2017

The **histological grade...**

Clinical follow-up 15 May 2017

The **histological grade...**

Pathology

Tumor Margins

Pathology

Invasive ductal carcinoma of breast

Color	Missing data
Weight	Missing data
Size	30 mm
Tumor Margins	Missing data
Histological Grade	High grade or poorly differentiated

An example of a more specific search term

2 EXAMINE DATA SOURCE

2.1 EXAMINE DATA SOURCE

Summary

Ductal carcinoma of the breast

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1

She underwent a lumpectomy. She underwent a senti

2

ductal carcinoma, estrogen receptor 0, etc. A diagnosti

October 2013 revealed a 2 cm mass in the right brea

indeterminate lymph node in the right axilla, 13 mm.

+ insert "imaging"

+ insert info on imaging

open source note

12/23/2017

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**.

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ductal carcinoma, estrogen receptor 0, etc. A diagnosti

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indeterminate lymph node in the right axilla, 13 mm.

+ insert "symptoms"

+ insert info on symptoms

source unknown

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**.

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She underwent a lumpectomy. She underwent a senti

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ductal carcinoma, estrogen receptor 0, etc. A diagnosti

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indeterminate lymph node in the right axilla, 13 mm.

+ insert "imaging"

+ insert info on imaging

view external source

import