

# Specialist Features

## Overview

Documentation on application features for specialists.

## Specialist Features

These features are available to specialists in addition to the [General](#) features.

### Finding available work

From the specialist dashboard, the features supports finding content that needs to be worked according to one of two tabs:

- Concepts - in scope unmapped work
- QA - failed QA checks that have not yet been reviewed

The list of available work can be searched/filtered or paged through. Assigning work is done by clicking at the "Claim" icon to the left of each entry. Batches of up to 100 concepts can also be claimed by using the "Claim Batch" button.

### Available Work

Concepts (316)

QA (1)

Batch size: 25

Claim Batch

Filter concepts:

Search

Reset

First

Previous

1

2




3

4

5

Next

Last

	Id	Preferred Name
	708538000	Procedure indicated
	707745004	Tuberculosis screening declined
	707745003	Tuberculosis screening declined

### Assigning work

Assigned work fits into the same two categories as available work for a specialist. Once assigned work can be edited by clicking on the icon to the left of each entry. Clicking on the icon to the right will return work back to the pool for assignment. Concepts can also be searched/filtered and paged from this view. There are four radio buttons for seeing assigned work in different stages of the SPECIALISTS workflow

- All - all assigned work of this type
- New - assigned work that has not yet been started.
- Editing - assigned work that is still being edited
- Finished - assigned work that is done but has not yet been submitted for the next workflow review.

For New, Editing, and Finished work, the state of work performed to date is indicated by the type of icon to the left of each entry:

- New: A pencil icon
- Editing: A pushpin icon
- Finished: An underlined checkmark icon

Assigned Work

Concepts (16)

QA (0)

Filter concepts:

Search

Reset

☒ All ☐ New ☐ Editing ☐ Finished

First













Previous

1

2

Next

Last

	Id	Preferred Name	
New ➡	 706890009	Vaginal birth after previous cesarean section refused (situation)	
Editing ➡	 704051006	Referral to cardiac rehabilitation program declined (situation)	
	 706985007	Specimen received in laboratory (situation)	
	 705133000	History of exposure to occupational risk factor (situation)	
	 705070007	Long axis of fetal heart deviated to right	
Finished ➡	 705069006	Long axis of fetal heart deviated to left	

### Editing assigned work

To edit assigned work, click the icon to the left of the record. The tool will display the map record editing dashboard. A labeled screenshot is shown below, with descriptions of each component below the screenshot.

Map Record

Source Concept

Id

SNOMEDCT.708985007 ⓘ

(1)

Name

Specimen received in laboratory (situation)

Entries (New)

Map Group 1

+ [TRUE] [NO TARGET OR RELATION]

x

Add Entry

(2)

Add Group

Notes

↶ ↷

Formats

B I U ↺ ↻ Ω ↶ ↷

Shortcut to add note: Tab, Enter Add Note

(3)

Principles

Add Principle:

Principles taken from Map Principles Document

(4)

Flags

☐ Flag for consensus review
 ☐ Flag for editorial review
 ☐ Flag for map lead review

(5)

Feedback

1 checked

↶ ↷

Formats

B I U ↺ ↻ Ω ↶ ↷

Shortcut to send feedback: Tab, Enter Send Feedback

(6)

Finish

Cancel

Clear

Save/Next

Save For Later

Record Summary

Map Entries

1/1 No target

TRUE

(7)

Map Entry

Target

Target Code

ICD10: Enter target code

Set Empty Target

(8)

Preferred Term

You must specify a valid or empty target.

Mapping Parameters

Relation

No relation selected.

Set relation: No relations available to select.

Rule

TRUE

Set Rule

(9)

ICD10 Terminology Browser

Search

Reset

I: Certain infectious and parasitic diseases

II: Neoplasms

III: Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism

IV: Endocrine, nutritional and metabolic diseases

V: Mental and behavioural disorders

VI: Diseases of the nervous system

VII: Diseases of the eye and adnexa

VIII: Diseases of the ear and mastoid process

IX: Diseases of the circulatory system

X: Diseases of the respiratory system

XI: Diseases of the digestive system

XII: Diseases of the skin and subcutaneous tissue

XIII: Diseases of the musculoskeletal system and connective tissue

XIV: Diseases of the genitourinary system

XV: Pregnancy, childbirth and the puerperium

XVI: Certain conditions originating in the perinatal period

XVII: Congenital malformations, deformations and chromosomal abnormalities

XVIII: Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified

XIX: Injury, poisoning and certain other consequences of external causes

XX: External causes of morbidity and mortality

XXI: Factors influencing health status and contact with health services

XXII: Codes for special purposes

(10)

## 1. Source Concept Details Panel

- Displays the source terminology, concept id, and concept name.
- If the source terminology is SNOMEDCT, a blue information icon is displayed. Clicking this opens the SNOMEDCT Concept Browser
- If the destination terminology is ICD10 (or another terminology with loaded indexes), a blue book icon is displayed. Clicking this opens the Index Viewer.

## 2. Map Group and Map Entries Panel

- Displays a summary current map entries attached to the record, sorted by group. The entry currently being edited is highlighted in green.
- To add a map group or entry, click the Add Entry/Group buttons.
- Entries and groups can be deleted by clicking the "x" icon attached to the desired element. Note that deleting a group will also delete all of its entries.
- Entries and groups can be reordered by drag-and-drop.

An example of multiple groups and entries is shown below, with the current entry highlighted in green.

Entries (New)

Map Group 1

[TRUE] Z01.7 Laboratory examination

[TRUE] Not Classifiable

Add Entry

Map Group 2

[TRUE] R75 Laboratory evidence of human immunodeficiency virus [HIV]

Add Entry

Add Group

### 3. Map Notes Panel

- Displays any notes currently attached to the record. Notes can be deleted by clicking the "x" icon on the desired note.
- To add notes to the record, enter some text into the rich text editor and click "Add Note".
- Note can be entered directly or copied and pasted from external sources such as websites or MS Word documents, with formatting preserved. This editor supports the following elements:
  - Basic formatting (bold, italics, underline)
  - HTML elements (e.g. <p>, <div>, anchor tags, hyperlinks)
  - HTML image elements hosted on another website/server

A sample note is shown below.

Notes

[By Krista Lilly on 01-12-2015 14:51]

This is a **sample** note with *various* forms of formatting applied, [a link to google](#), and with the google logo inserted

Formats

**B**

*I*

U

Shortcut to add note: Tab , Enter

Add Note

### 4. Map Principles Panel

- Displays any principles currently attached to the record. Principles can be deleted by clicking the "x" icon on the desired note.
- Principles can be added from the drop-down box, with displayed principles taken from the hyperlinked document.

An example of an applied principle is shown below.

The screenshot shows a panel titled 'Principles' with a dropdown arrow in the top right. Inside, there is a yellow box containing the text '08: POSSIBLE REQUIREMENT FOR CAUSATIVE AGENT CODE' with an information icon on the left and a close icon on the right. Below this is a text input field labeled 'Add Principle:' followed by a dropdown menu showing '08: POSSIBLE REQUIREMENT FOR CAUSATIVE AGENT'. At the bottom, it says 'Principles taken from Map Principles Document'.

5. Flags Panel
  - a. To flag a record for review, simply click the checkbox.
  - b. The three currently supported flags are Consensus Review, Editorial Review, and Lead Review.
6. Feedback Panel
  - a. Displays any communication between the user and anyone else involved in a discussion about this record.
  - b. To submit new Feedback to one or more leads attached to the project, enter text and click "Send Feedback".
  - c. Feedback can be formatted in the same ways Map Notes can (see #3)
7. Record Summary Widget: Displays a summary of the current state of the record as edited.
8. Target Panel:
  - a. Displays the currently selected target code and Preferred Term for the selected map entry (highlighted in green in #2)
  - b. To change the target, enter the target code into the text box and click "Set Target".
  - c. If the entry has no target, this must be explicitly indicated by clicking "Set Empty Target" when the text box is empty
9. Mapping Parameters Panel:
  - a. Displays the map relation, map advices, and map rule for the selected map entry (highlighted in green in #2)
  - b. Only those parameters appropriate to the current project are displayed. For example, if the project is not rule-based, the "Rule" row and button will not appear.
  - c. If map relations are available for this project and selected target, a drop-down menu will appear with those relations valid for assignment.

An example of an assigned relation with drop-down options is shown below.

The screenshot shows a panel titled 'Mapping Parameters' with a dropdown arrow in the top right. Inside, there is a section labeled 'Relation' with the text 'SOURCE SNOMED CONCEPT IS AMBIGUOUS'. Below this is a 'Set relation:' label followed by a dropdown menu. The dropdown menu is open, showing four options: 'Ambiguous WHO ICD-10 Code', 'Ambiguous SNOMED CT Concept', 'Incomplete', and 'Not Classifiable'. To the left of the dropdown menu is a section labeled 'Rule'.

- d. To set the rule (for a rule-based project), click the "Set Rule" button. A modal pop-up will prompt for the Rule Category and any required parameters. Click "Add Rule" to finish setting the rule.

An example of using the Rule Constructor to set a chronological age requirement is shown below.

**Rule Constructor**

Select Rule Category  
Age - Chronological

Select from preset age ranges  
Childhood, < 19 years

**Rule Preview:**

IFA 424144002 | Current chronological age (observable entity) | < 19 years

Add Rule Cancel

- e. If Map Advices are available for this project and selected target, a drop-down picklist will appear with those advices valid for assignment. Advice can be added by simply selecting the desired item in the drop-down box. Advice can be removed by clicking the "x" icon on the displayed advice values.

An example of advices attached to the entry is shown below.

**Mapping Parameters**

**Relation** MAP SOURCE CONCEPT IS PROPERLY CLASSIFIED  
Set relation: No relations available to select.

**Rule** TRUE Set Rule

**Advice**

MAPPED FOLLOWING WHO GUIDANCE x

POSSIBLE REQUIREMENT FOR MORPHOLOGY CODE x

Add Advice: [dropdown]

#### 10. Terminology Browser Panel

- a. Displays a nested-tree structure representing the target terminology.
- b. The terminology browser has three major components, which are marked in the screenshot below.
  - i. Search Tools
    1. To perform a search, enter text and hit Enter or "Search". The tree will change to reflect only those nodes (and parents) that match the search terms.
    2. To reset the search, hit "Reset". The tree will revert to the full top-level hierarchy for the terminology.
    3. Searches are remembered for each session; to go forward or back use the arrow buttons.
  - ii. Tree Node Controls
    1. If a target code has children, toggle display of those children with the arrowhead button preceding the target code.
    2. If a target code does not have children, it is a leaf node and a leaf icon will appear.
    3. If a target code has additional information (e.g. inclusions, exclusions), toggle display of that information with the blue information icon.
    4. If a target code is valid for assignment, assign this entry to the current entry (see #2, #8).
  - iii. Information Panel: Displays any relevant information for this target code. Depending on the target terminology, may contain clickable links to other target codes or code ranges. Clicking these links will perform a new search based on the linked content.

c. An example of a search for "cholera" performed in the Terminology Browser for ICD10 is shown below.

ICD10 Terminology Browser

cholera

Search

Reset

←

(i)

I: Certain infectious and parasitic diseases

A00-A09: Intestinal infectious diseases

A00: Cholera

(ii)

A00.0 : Cholera due to *Vibrio cholerae* 01, biovar *cholerae*

Preferred

Cholera due to *Vibrio cholerae* 01, biovar *cholerae*

Inclusion

Classical cholera

A00.1 : Cholera due to *Vibrio cholerae* 01, biovar *eltor*

A00.9 : Cholera, unspecified

XX: External causes of morbidity and mortality

Y40-Y84: Complications of medical and surgical care

Preferred

Complications of medical and surgical care

Exclusion

accidental overdose of drug or wrong drug given or taken in error ( X40-X44 )

Inclusion

correct drug properly administered in therapeutic or prophylactic dosage as the cause of any adverse effect

surgical and medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the ...

complications of medical devices

misadventures to patients during surgical and medical care

Y40-Y59: Drugs, medicaments and biological substances causing adverse effects in therapeutic use

Y58: Bacterial vaccines

Y58.2 : Cholera vaccine

XXI: Factors influencing health status and contact with health services

Z20-Z29: Persons with potential health hazards related to communicable diseases

Z23: Need for immunization against single bacterial diseases

Z23.0 : Need for immunization against cholera alone

Z27: Need for immunization against combinations of infectious diseases

Z27.0 : Need for immunization against cholera with typhoid-paratyphoid [cholera + TAB]

## Finishing assigned work from the dashboard

When viewing assigned work with the Editing filter applied, a new option appears to finish work for either (1) individual concepts or (2) all currently assigned concepts presently in editing.

Assigned Work

Concepts (3)

QA (0)

Filter concepts:

Search

Reset

☐ All
☐ New
☒ Editing
☐ Finished

Id	<div>2</div>	<div>✓</div> Preferred Name	<div>🗑️</div>
<div>✈️</div> 704051006	<div>✓</div>	Referral to cardiac rehabilitation program declined (situation)	<div>↩️</div>
<div>✈️</div> 706890009	<div>✓</div>	Vaginal birth after previous cesarean section refused (situation)	<div>↩️</div>
<div>✈️</div> 705133000	<div>1</div>	History of exposure to occupational risk factor (situation)	<div>↩️</div>

Clicking either button will display a modal pop-up window displaying a summary of the record and results of record validation:

- If the record cannot be validated successfully, the reasons for validation failure will be displayed and an orange "Skip" button will be shown. See the first example below.
- If the record is successfully validated, a blue "Finish" button will be shown. See the second example below.
- Clicking "Finish All" will attempt to validate all records currently in editing, but will only successfully finish work on those records that fail validation.



Viewing Record 1 of 3

Skip

Done

Cannot finish due to errors:

- Map record has no entries

Referral to cardiac rehabilitation program declined (situation)  
SNOMEDCT concept 704051006

Map Entries

Finish All Records

Viewing Record 2 of 3

Finish

Skip

Done

Vaginal birth after previous cesarean section refused (situation)  
SNOMEDCT concept 706890009

Map Entries

1/1 O75.7 Vaginal delivery following previous caesarean section  
TRUE

MAP SOURCE CONCEPT IS PROPERLY CLASSIFIED

Finish All Records

## Recently edited work

To view recently edited work, go to the Recently Edited Widget on the main dashboard.

- Enter search text and click Search to retrieve results OR leave the search field blank to retrieve all work
- To clear the search, click Reset.
- To view details of a previously edited record, click the [+] link next to the concept's name.
- To go further back into history, click the Older button. Move forward in history by clicking the Newer button.

An example of retrieved edited work is shown below, with one record's summary expanded.

Recently Edited		
<input type="text"/> <input type="button" value="Search"/> <input type="button" value="Reset"/> <span>1</span>		
Date Edited	Concept Id	Concept Name
09/30/2014	706987004	[+] Flagellate dermatitis
09/30/2014	706922007	[-] Complicated fracture of bone
		Map Entries 1/1 714.20 Fracture of unspecified body region closed TRUE <div>             MAPPED FOLLOWING WHO GUIDANCE              POSSIBLE REQUIREMENT FOR AN EXTERNAL CAUSE CODE              MAP SOURCE CONCEPT IS PROPERLY CLASSIFIED           </div>
09/30/2014	706912001	[+] Complication of health care
09/30/2014	706923002	[+] Longstanding persistent atrial fibrillation
09/30/2014	134031000119108	[+] Benign endometrial hyperplasia
09/30/2014	706914000	[+] Cellular changes consistent with Cytomegalovirus
09/29/2014	706921000	[+] Listeria not isolated
09/29/2014	706919005	[+] Bacillus cereus not isolated
09/29/2014	706920004	[+] Aeromonas not isolated
09/29/2014	706918002	[+] Staphylococcus aureus not isolated
<input type="button" value="← Newer"/>		<input type="button" value="Older →"/>

## Feedback

From the Main Dashboard, this widget displays feedback and conversation status for mapping work.

Feedback					
<input type="text"/> <input type="button" value="Search"/> <input type="button" value="Reset"/> 16 results, page 1 of 2					
<input type="button" value="First"/> <input type="button" value="Previous"/> <input checked="" type="button" value="1"/> <input type="button" value="2"/> <input type="button" value="Next"/> <input type="button" value="Last"/> <span>(1)</span>					
Error Feedback <input type="button" value="All"/> <input type="button" value="All"/> <span>(2)</span>					
	Id	Preferred Name	Title	Owner	Last Modified
<input checked="" type="checkbox"/>	60671007	Paspalum commersonii poisoning	Error Feedback	kli	08-27-2014 (dmo)
<input type="checkbox"/>	703623009	Non-union of ankle joint without infection	Error Feedback	kli	08-27-2014 (dmo)
<input type="checkbox"/>	703624003	Non-union of joint of foot without infection	Error Feedback	kli	08-27-2014 (dmo)
<input type="checkbox"/>	367841000119100	Postinfective bulbous urethral stricture	Error Feedback	kli	08-26-2014 (dmo)
<input checked="" type="checkbox"/>	704204003	Nephropathy induced by lead	Error Feedback	kli	08-26-2014 (dmo)
<input type="checkbox"/>	8061000119107	Vasculopathic erectile dysfunction	Error Feedback	kli	08-22-2014 (dmo)
<input type="checkbox"/>	71721000119101	Nephrotic syndrome due to type 1 diabetes mellitus	Error Feedback	kli	08-22-2014 (dmo)
<input type="checkbox"/>	71441000119104	Nephrotic syndrome due to type 2 diabetes mellitus	Error Feedback	kli	08-22-2014 (dmo)
<input type="checkbox"/>	40391000119106	Secondary chronic nephritis	Error Feedback	kli	08-22-2014 (dmo)
<input type="checkbox"/>	115551000119104	Sebaceous cyst of penis	Error Feedback	kli	08-22-2014 (dmo)

The main components of the Feedback widget, as labeled on the screenshot, are:

1. The search and pagination controls.
2. The filter controls. You may filter by:
  - a. Feedback Type (e.g. Specialist Feedback, Error Feedback)
  - b. Viewed/Unviewed status
  - c. Resolved/Unresolved status
3. The feedback list, comprised of a table with the following columns:
  - a. Viewed status: If this feedback has not yet been viewed, a crossed-out eye icon will appear
  - b. Resolved status: If this feedback conversation has not yet been resolved, the checkbox will be unchecked. To mark a conversation resolved, click the checkbox.
  - c. The concept's terminology id. Click this link to view the entire conversation surrounding this concept's mapping.
  - d. The concept's preferred term.
  - e. The feedback's title, identical to the Feedback Type
  - f. The owner of the map record in question
  - g. The time of the last addition to the conversation, with the user name of the user leaving feedback.

## Feedback Conversations

Accessed from the Feedback widget, this feature displays the full history of a conversation surrounding mapping a concept.

The screenshot shows the 'Error Feedback - Concept 115551000119104: Sebaceous cyst of penis' interface. It includes a header with the record owner (Krista Lilly) and map entries. A yellow box contains conversation history with timestamps and user names. Below this is a rich text editor with a toolbar and a '1 checked' dropdown. At the bottom, there are tabs for 'Mapped Concept View', 'SNOMED CT Browser', and 'Index Viewer', along with checkboxes for 'Mark unviewed' and 'Mark resolved', and a 'Send Feedback' button. Red numbered labels (1) through (5) point to specific elements: (1) points to the record owner, (2) points to the conversation history, (3) points to the rich text editor, (4) points to the '1 checked' dropdown, and (5) points to the 'Send Feedback' button.

The main components of the Feedback Conversations widget are, as labeled in the screenshot:

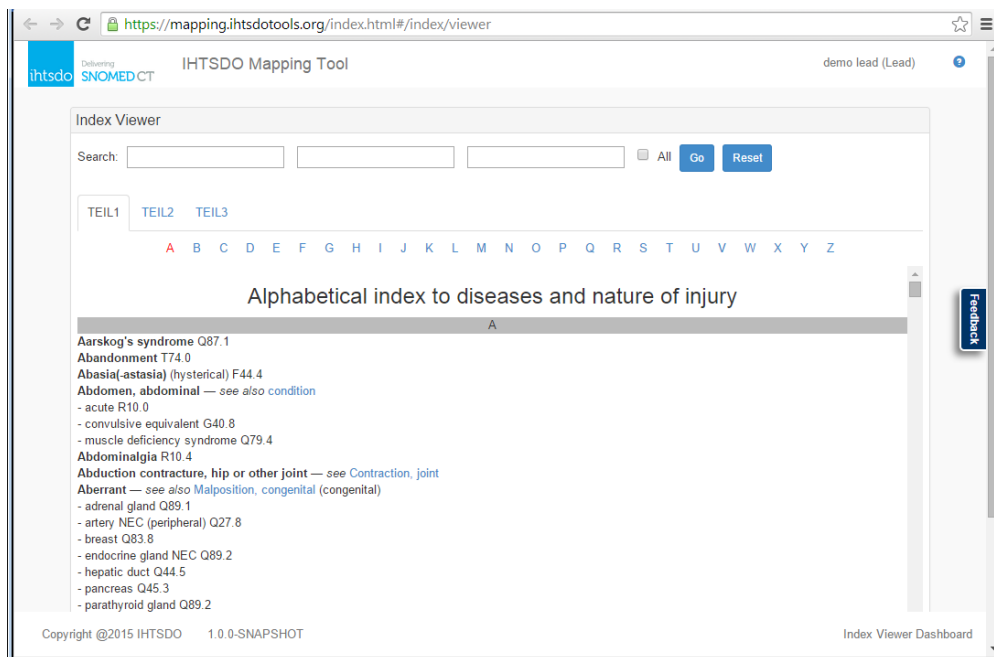
1. A summary of the map record being discussed..
2. The comments left by individuals participating in the conversation.
3. The rich text editor where new comments can be edited. See [Map Record Notes](#) for further details on this editor.
4. The recipients list
  - a. Displays the number of recipients who will receive the new feedback.
  - b. To add or remove users from the list, click the drop-down and select or deselect the desired recipients
5. The general controls
  - a. Mapped Concept View: Opens the Concept Records page displaying all mappings for all viewable projects for this concept, including historical mappings.
  - b. SNOMEDCT Browser: Only displayed if the source terminology is SNOMEDCT. Opens the SNOMEDCT Browser for this record's concept.
  - c. Index Viewer: Only displayed if an index viewer is available for this project's destination terminology. Opens the index viewer for this project's destination terminology.
  - d. Mark unviewed: Check/uncheck this box to change the viewed status of this conversation.
  - e. Mark resolved: Check/uncheck to change the resolved status of this conversation.
  - f. Send Feedback: Click to submit the contents of the text editor as a new comment on this conversation.

## Index Viewer

This feature provides access to any indexes available for a project's target terminology. These indexes aide the mapper in finding a target id for a mapping given some search terms. This feature is accessible from the book icon on the Map Records dashboard if the project has indexes available. See below. It is also available from the Feedback Conversation Dashboard and the Map Project widget.

The screenshot shows the 'Map Record' interface. It has a 'Source Concept' section with a dropdown arrow, displaying 'Id SNOMEDCT,10000006' and 'Name Radiating chest pain (finding)'. A red circle highlights a book icon next to the ID. Below this is an 'Entries (New)' section with a dropdown arrow, showing a 'Map Group 1' entry with a plus icon and a close button.

Upon opening, the Index Viewer will appear in a separate browser tab from the Mapping Tool. Displayed are the indexes for ICD10.

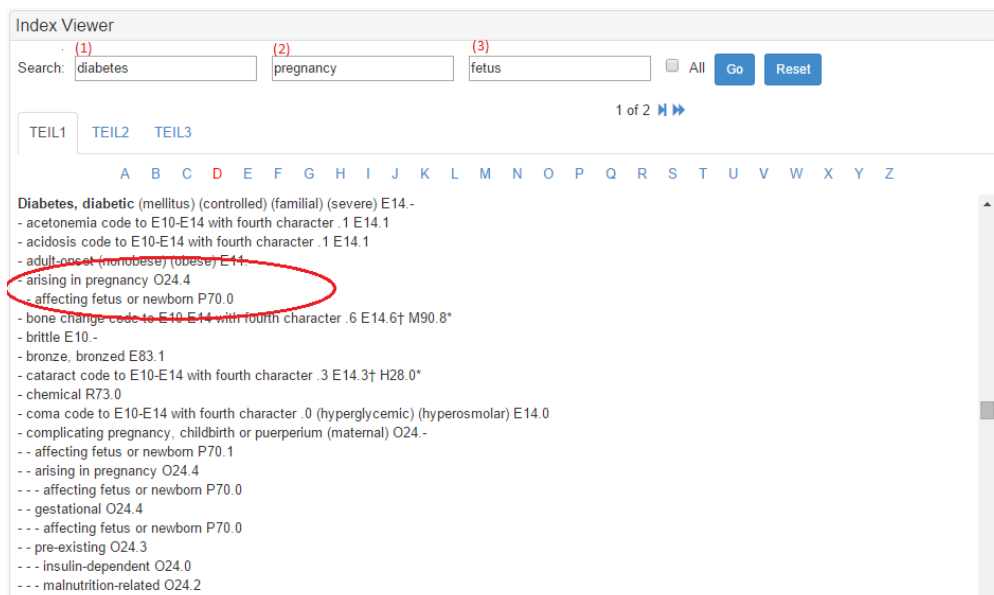


## Searches

Searches can be performed by typing text strings into the various search fields, followed by clicking on the 'Go' button.

## Contextualized Term Searches

Searches begin by entering words intended to match the main terms of the index files. In the example below, "diabetes" is the initial main term search. To search within the main term results, the second search box can be populated. In this example, the sub-search term "pregnancy" is used. And finally, a sub-sub term search can be performed within the results of the first two fields. In this example, "fetus" is used.



The first search box (1) searches only the main term level, the sub search box (2) to only the term level immediately below the main term level, and the sub-sub search box (3) to only the term level immediately below that one.

## Special Searches

If you want to search by code instead of by term, the field prefix "code" can be used as in the example below, with the search "code:O03.9". Note, the same restrictions on the "level" of the search described above apply here too.

Index Viewer

Search:    ☐ All

Prediabetes, prediabetic 1 of 1

TEIL1 **TEIL2** TEIL3

A B C D E F G H I J K L M N O **P** Q R S T U V W X Y Z

**Prediabetes, prediabetic R73.0**  
 - complicating pregnancy, childbirth or puerperium O99.8  
 Predislocation status of hip at birth Q65.6  
 Pre-eclampsia O14.9  
 - with pre-existing hypertension O11  
 - affecting fetus or newborn P00.0  
 - mild O13  
 - moderate O14.0  
 - severe O14.1

If you want to find search results that are known to start with a particular word, you can use the field prefix "s" as in the example below, with the search "s:diabetes". If you try searching just "diabetes" you will note there are a many more results spread across the various lettered tabs.

Index Viewer

Search:    ☐ All

Diabetes, diabetic 1 of 1

TEIL1 **TEIL2** TEIL3

A B C **D** E F G H I J K L M N O P Q R S T U V W X Y Z

**Diabetes, diabetic (mellitus) (controlled) (familial) (severe) E14.-**  
 - acetoneuria code to E10-E14 with fourth character .1 E14.1  
 - acidosis code to E10-E14 with fourth character .1 E14.1  
 - adult-onset (nonobese) (obese) E11.-  
 - arising in pregnancy O24.4

When clicking on a linked entry in one of the tabs, it attempts to construct a matching search to find the corresponding results. Note - due to inconsistencies in the representation and other data quality issues it is not always possible to find a matching entry. And in some cases, the linked strings have more than three parts and the search only supports three parts. In these cases an appropriate notification message will be displayed. Use this feature where appropriate but realize that it may require additional manual intervention.

Amebiasis 1 of 1

TEIL1 **TEIL2** TEIL3

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

**Amebiasis A06.9**  
 - with abscess — see **Abscess, amebic**  
 - acute A06.0  
 - chronic (intestine) A06.1  
 - with abscess — see **Abscess, amebic**  
 - cutaneous A06.7  
 - hepatic — see also **Abscess, liver, amebic** A06.4

## References/Links

- n/a