

Questionnaire Viewer

Questionnaire Viewer

A module that displays Questionnaire resource instances from a number of perspectives

This documentation is under development and may not completely match the application

Select a Questionnaire

There are 3 ways to select a Questionnaire (Q)

- Retrieve from the Library
- Retrieve from an external Forms Manager
- Upload an ad-hoc Q

Library

This is a collection of Q from a couple of sources:

- Published by the Forms designer
- Saved from an uploaded Q

Publishing is not further considered here (still working through some of the details)

The library presents a list of Questionnaires that can be filtered by title, publisher and/or status.

Note that the default status is active.

Questionnaire viewer

[Documentation](#)

Select Questionnaire

Questionnaire selection

Retrieve from Library

Retrieve from External Form Manager

Upload Questionnaire

Title

Filter text on title

Publisher

All

Status

active

Title	Name	Version	Publisher	Status	Description
Request	coloRectalrequest-Request	3	David Hay	active	
Skin report	SkinProject-imported-skin_report	1		active	
Skin request	SkinProject-skin_request	3		active	Create a request bundle for a histological examination request of a skin biopsy

Save a Q to the library

To save a Q to the library, first upload it (using the upload option - 3rd option above) and parse it to view in the outline view. Then, click the 'Save Questionnaire to Library' link, update the metadata and save. It will then be available from the Library.

Note that the Q status is not changed when saved to the library, so if it is not initially visible in the library list you may need to change the status to view or re-load the browser.

Questionnaire viewer: Melanoma
Url: [http://clinfhir.com/questionnaire/ICCRQuestionnaires-Melanoma\[T-draft\]](http://clinfhir.com/questionnaire/ICCRQuestionnaires-Melanoma[T-draft]) [Documentation](#)

Select Questionnaire Outline Rendered Form SDC view Questionnaire Graph Validate Questionnaire Json

Melanoma 1-draft [Make to](#) [Save Questionnaire to Library](#)

- Metanoma
 - Tumor site
 - Specified tumor site**
 - Specimen laterality
 - Specimen submitted
 - Submitted lymph node specimen
 - Specified submitted lymph node specimen
 - Macroscopic satellite lesions
 - Surgical margin status
 - Margin status of melanoma in situ
 - Margin status of invasive melanoma
 - Breslow thickness
 - Specified Breslow thickness
 - Ulceration
 - Mitotic count
 - Number of mitoses
 - Microsatellites
 - Microsatellites margins

Specified tumor site

aLeg4Q (Tumor site) =

Load Lab Save and open in Lab

Item Details [Json](#) [Json \(no children\)](#) [SDC](#)

Title	Specified tumor site		
Description			
OE Code			
Type	string		
Q type	string		
Cardinality	1..1		
Conditional	Source	Op.	Value
	aLeg4Q (Tumor site)	=	
Linkid	i0842g		

Metadata.

Save Questionnaire to Library

[Cancel](#)[Save](#)

Q details	Q Json
Title	Melanoma
Name	Melanoma
Url	http://clinfhir.com/questionnaire/ICCRQuestionnaires-M
Version	1-draft
Publisher	RCPA
Description	

Url, version, title and publisher are mandatory. It's OK to change these on this screen. The Url should be globally unique (but the title doesn't need to be). The Url and version combination must also be unique on the server.

External Forms Manager

A FHIR server that stores Questionnaires and provides a REST API to access them. Loosely aligns with the SDC [Form Manager](#) role.

Select the server then query for the Q you want (the query is limited to a max of 50). You can add new Form Servers which are stored in the browser cache.

Questionnaire viewer

Documentation

Select Questionnaire

Questionnaire selection

Retrieve from Library

Retrieve from External Form Manager

Upload Questionnaire

Form Server

Australian Sparked Server

Add new server

Filter

Title

ab

Publisher

Url

Query: https://smartforms.csiro.au/api/fhir/Questionnaire?_count=50&_summary=true&title=ab

Title	Version	Date	Publisher
Aboriginal and Torres Strait Islander Health Check	0.3.0-assembled	Mar 14, 2025	AEHRC CSIRO
Aboriginal and Torres Strait Islander Health Check	0.4.0	Mar 14, 2025	AEHRC CSIRO
Aboriginal and Torres Strait Islander Health Check	0.4.0-assembled	Mar 14, 2025	AEHRC CSIRO
Aboriginal and Torres Strait Islander Health Check - About The Health Check	0.4.0	Mar 14, 2025	AEHRC CSIRO
Aboriginal and Torres Strait Islander Health Check - Absolute Cardiovascular Disease Risk Calculation	0.4.0	Mar 14, 2025	AEHRC CSIRO
Aboriginal and Torres Strait Islander Health Check - Allergies/Adverse Reactions		Mar 14, 2025	

Execute query

Upload ad-hoc Questionnaire

Paste the Json representation of the Q into the viewer and click parse. The Q will be parsed and displayed in the viewer. As noted above, it can be added to the Library if desired

View a Questionnaire

Once a questionnaire has been selected, the view tabs are enabled. (You can select a different Q by returning to the ‘Select Questionnaire’ tab).

Outline

This view has 3 panes.

In the left pane is a tree view of the Q.

Selecting a node will display a ‘mini rendered’ view of that element and any children in the middle pane and details of the selected node on the right..

Questionnaire viewer: Skin request [Documentation](#)

Url: http://clinfhir.com/questionnaire/SkinProject-skin_request|3

Select Questionnaire Outline Rendered Form SDC view Questionnaire Graph Validate Questionnaire Json

SkinProject-skin_request 3 [Make link](#)

- Skin request
 - Request date
 - Patient
 - Help text goes here
 - NHI
 - Name
 - Given name
 - Family name
 - Date of Birth
 - Ethnicity**
 - Gender
 - eyeColour
 - Clinical details
 - Request date
 - text
 - Category
 - Specimen
 - Location
 - Description
 - Status
 - category

Ethnicity 1
sLExmA (Gender) = Female

[Load Lab](#)
[Save and open in Lab](#)

Item Details
[Json](#)
[Json \(no children\)](#)
[SDC](#)

Title	Ethnicity						
Description							
OE Code							
Type	CodeableConcept						
Q type	choice						
Cardinality	0..1						
ValueSet	https://nzhts.digital.health.nz/fhir/ValueSet/ethnic-group-level-4-code View VS						
Conditional	<table border="1"> <thead> <tr> <th>Source</th> <th>Op.</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>sLExmA (Gender)</td> <td>=</td> <td>female Female</td> </tr> </tbody> </table>	Source	Op.	Value	sLExmA (Gender)	=	female Female
Source	Op.	Value					
sLExmA (Gender)	=	female Female					
LinkId	t39a1w						

There are a couple of links at the top of the right pane

- Save and open in Lab will save the Q to the [Fhirpath lab](#), and then load the Lab with that Q. The Lab will validate the Q and will only display it if it is valid - otherwise you will get an error message and the Lab will not load.
- Load lab loads the most recent version of the Q that has been saved to the lab using the 'save and open' link. This was added as some browsers (eg Brave) prevent the Lab from opening.

Clicking on the LinkId will display a modal dialog showing the selected item. The image below shows the json contents, other tabs are useful when debugging SDC extensions - especially the Extensions ancestry which shows all extensions (and definition values) for the selected item and it's ancestry. Very useful for determining what is in context at a point in time.

View Item: Ethnicity

[Close](#)

Ancestors of this item

[Q](#)[Skin request](#)[Patient](#)[Ethnicity](#)

Links

[Questionnaire resource \(R4\)](#)[SDC Spec](#)[SDC Pre-population](#)[SDC Extraction](#)

Common SDC Extensions

[launchContext](#)[preferredTerminologyServer](#)[initialExpression](#)[extractAllocatId](#)[definitionExtract](#)[definitionExtractValue](#)[entryFormat](#)[collapsible](#)[itemControl](#)[Json](#)[SDC view](#)[Children](#)[Extensions ancestry](#)

```
{
  "linkId": "t39aiw",
  "type": "choice",
  "text": "Ethnicity",
  "answerValueSet": "https://nzhts.digital.health.nz/fhir/ValueSet/ethnic-group-level-4-code",
  "definition": "http://hl7.org/fhir/StructureDefinition/Patient#Patient.extension.value",
  "extension": [
    {
      "url": "http://hl7.org/fhir/uv/sdc/StructureDefinition/sdc-questionnaire-definitionExtractValue",
      "extension": [
        {
          "url": "definition",
          "valueUri": "http://hl7.org/fhir/StructureDefinition/Patient#Patient.extension.url"
        },
        {
          "url": "fixed-value",
          "valueString": "http://hl7.org.nz/fhir/StructureDefinition/nz-ethnicity"
        }
      ]
    }
  ],
  "enableWhen": [
    {
      "question": "sLExmA",
      "operator": "=",
      "answerCoding": {
        "system": "http://hl7.org/fhir/administrative-gender",
        "code": "female",
        "display": "Female"
      }
    }
  ],
  "enableBehavior": "all"
}
```

Below the links are a set of tabs

- **Details** has some of the key details for the selected note (ie Q.item)
- **Notes** is used when using the app for reviewing. This is not further described here.
- **Data** shows data entered in the middle pane. It's not that useful...
- Model shows the Q.item element - with and without child items. The ED tab can be ignored
- The Q tab shows the whole Questionnaire (npt just the selected element). It has a 'Validate' link that will cause the Q to be sent to the lab for validation and shows the Operation Outcome resource that is returned.

Questionnaire viewer
ICCRQuestionnaires-BreastCancer

2.0.1 ☒ Technical view 

Select Questionnaire Tree view **Rendered Form** SDC view Questionnaire Graph Questionnaire Json

ICCRQuestionnaires-BreastCancer 1

- Breast Cancer
 - Operative procedure
 - Type of excision**
 - Type of mastectomy
 - Specimen laterality
 - Tumor site
 - Distance from nipple
 - Clock position *
 - Quadrant *
 - Tumor focality
 - Number of foci
 - Specified number of foci
 - Sizes of individual foci
 - Tumor dimensions
 - Greatest dimension
 - Specify exact measurement rounded to nearest mm
 - Second greatest dimension
 - Smallest dimension

Type of excision

a1Mwlg (Operative procedure) = Excision (less than total mastectomy) - Excision of breast (procedure)

Load Lab Save and open in Lab

Details Notes Data Model Q

Validate Download Json Copy to clipboard (124 K)

information	Validation of 'Questionnaire/ICCRQuestionnaires-BreastCancer' for create was successful (with 1 warnings)
warning	Unable to resolve reference to profile 'http://canshare.co/nz/StructureDefinition/canshare-release-notes' Questionnaire.extension[4]

Rendered Form

This uses the Fhirpath lab to render the Q and display it in the page (technically it's in an iframe and uses the [SMART web messaging standard](#) to communicate between clinFHIR & [Fhirpath lab](#) which uses the CSIRO renderer to render the form).

Questionnaire viewer: Skin request

Url: http://clinfhir.com/questionnaire/SkinProject-skin_request3 [Documentation](#)

Select Questionnaire Outline **Rendered Form** SDC view Questionnaire Graph Validate Questionnaire Json

Prepop config Set pre-populate Get extract Bundle Refresh QR Data QR Json

Skin request

Request date DD/MM/YYYY

AM/PM

Patient

Help text goes here

NHI

Name

Given name The patients first name

Family name

Date of Birth DD/MM/YYYY

Gender

Generally the view will auto-populate, however you can use the 'refresh' link just above the iframe to - well - refresh the view.

There are 2 other links above the iframe.

Set prepopulate executes the SDC [expression based pre-population](#). A sample patient and practitioner is supplied - these can be altered using the 'Prepop config' link above the iframe on the left.

SDC view

This tab shows a number of views that relate to [SDC](#) operations against the Q.

Questionnaire viewer

ICCRQuestionnaires-BreastCancer

2.0.1

☒ Technical view



Select QuestionnaireTree viewRendered FormSDC viewQuestionnaire GraphQuestionnaire Json

ElementsSet valuesContext variablesExpression usageReport Json

Elements

☐ Show only with SDC instructions

Text	Lvl	LinkId	Type	Card.	Hidden	SDC
ICCRQuestionnaires-BreastCancer						
ICCRQuestionnaires-BreastCancer	0					Allocate Id: patientID
Breast Cancer	0	Aynk-w	group	0..1		
Operative procedure	1	a1Mwlg	choice	1..1		Item control: radio-button
Type of excision	2	SlIERQ	choice	1..1		Item control: radio-button
Type of mastectomy	2	WuCqdw	choice	1..1		Item control: radio-button
Specimen laterality	1	jXJJjw	choice	1..1		Item control: radio-button
Tumor site	1	s1zHTw	choice	1..1		Item control: radio-button
Distance from nipple	2	Q39b0Q	decimal	1..1		
Clock position *	2	PGQ0WA	choice	1..*		
Quadrant *	2	uuFX7w	choice	1..*		
Tumor focality	1	7o7Whw	choice	1..1		Item control: radio-button
Number of foci	2	U8EAYQ	choice	0..1		Item control: radio-button
Specified number of foci	2	U8EAYQ	choice	0..1		Item control: radio-button

Of particular use to the SDC author is the 'View item' dialog that is displayed when the linkId is clicked.

View Item: Mitotic count (square millimeter) Close

Ancestors

- Q
- Breast Cancer
- Histological tumor grade
- Mitotic findings
- Mitotic count (square millimeter)**

Json **SDC view** **Children**

```
{
  "linkId": "Rsc460",
  "type": "decimal",
  "text": "Mitotic count (square millimeter) ",
  "extension": [
    {
      "url": "http://canshare.co.nz/fhir/StructureDefinition/original-path",
      "valueString": "BreastCancer.921176685571.876970324758.925145094464"
    }
  ],
  "code": [
    {
      "system": "http://snomed.info/sct",
      "code": "443158003",
      "display": "Number of mitotic figures per square millimeter (observable entity)"
    }
  ],
  "children": "Child elements: "
}
```

Note that the element 'children' was added by this routine - it isn't in the actual item

This shows the Json of the selected item (plus a couple of detailed tabs) and all of its parents up to the Questionnaire root.

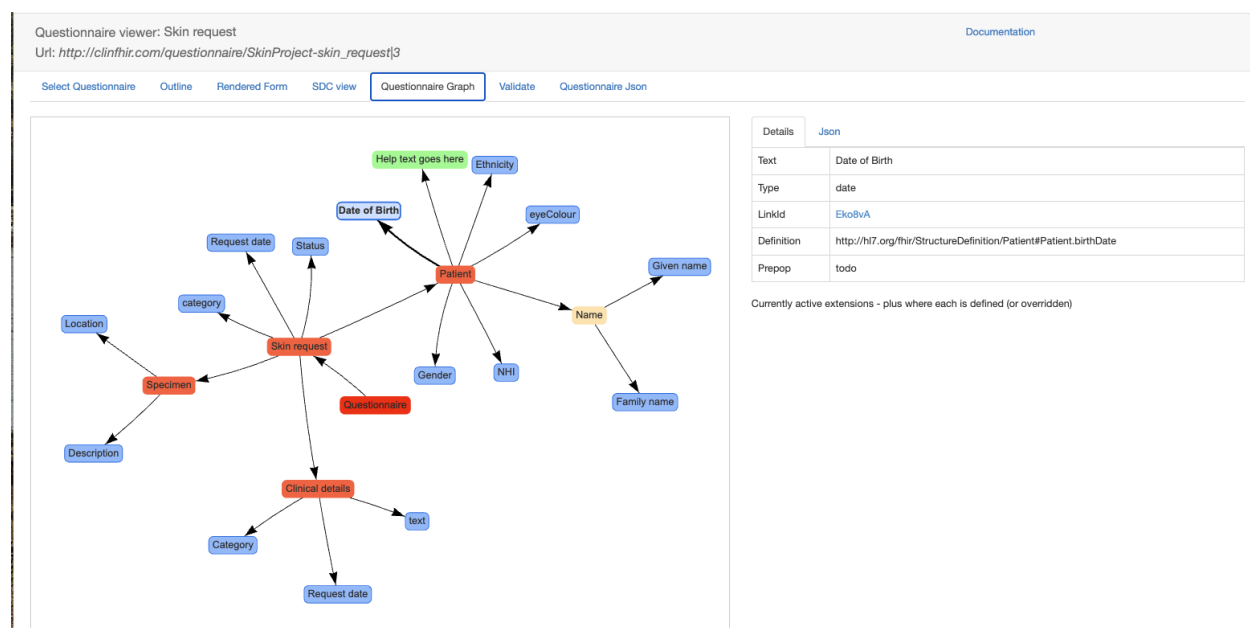
It is useful as in SDC there is the concept of context where extensions on an item 'propagate' down the hierarchy through the child items, and this view allows you to easily 'step up' through the hierarchy to see what SDC extensions could be affecting behaviour of this item.

Validate

This performs validation using the [Fhirpath lab](#) validator. This validation has some SDC smarts.

Questionnaire Graph

This shows the Questionnaire as a graph of linked items.



It's not that useful at present (though it is kinda pretty).

Questionnaire Json

The raw Json of the Questionnaire

todo

copy QR to clipboard / download