

Clinicians on FHIR

Notes for clinFHIR

Location

To start clinFHIR

<http://107.170.196.80/resourceCreator.html>

Or

<http://clinfhir.com/>

then select the updated 'Resource Builder' from the link

Basic functions

- Create resource instance from profile
 - Can be a base type or a profiled type
- View resources for a patient
- Create simple profiles
- Limitations
 - Doesn't handle complex extensions (yet)

First time

Resource
Creator

Patient: Use 'Select Patient' link to find patient
Profile: Use Find Profile link to load a profile



Getting Started

To create a new resource you need to select both a patient and a profile to base the resource on. Once that has been done, the 'New Resource' button will appear in top right corner, and clicking that will display the Resource Builder page.

The Patient is selected by clicking the 'Select Patient' link in the "My recent Patients" column. The dialog that appears will allow you to either select an existing patient or create a new one (optionally creating some demo data for them). After selection, the patient will appear in the list below, from where it can be directly selected.



The 'Profile' is what the resource you create will be based on. This includes both 'core' results (like CarePlan) and additional profiles that alter the base one. Select one by clicking the 'Find Profile' link in the 'My recent profiles' column below. After selection, the profile will appear in the list below, from where it can be directly selected.



Click to dismiss

My recent
patients

Select Patient

Local HAPI STU3

Test

My recent
profiles

Find Profile or Base Type

Grahame STU3 server

Test

System Configuration

Terminology Server

<http://fhir3.healthintersections.com.au/open/>

1. Select patient

- Select server
 - Grahame or HAPI (v3)
- Can create new
 - (with samples)

2. Select profile

- Select server
 - Grahame or HAPI (v3)
- Base Type or Profile

3. Click 'New Resource' button

- Upper right
- Only appears when patient & profile selected

Subsequent times

Resource
Creator

Patient: Asher Green (2713) [Details](#)
Profile: StructureDefinition/Encounter

Parked 1

New Resource



My recent
patients

Select Patient

Local HAPI STU3

Test

Asher Green

Alexis Hughes

My recent
profiles

Find Profile or Base Type

Grahame STU3 server

Test

<http://hl7.org/fhir/StructureDefinition/FamilyMemberHistory>

<http://hl7.org/fhir/StructureDefinition/familymemberhistory-genetic>

<http://hl7.org/fhir/StructureDefinition/observationforgenetics>

<http://hl7.org/fhir/StructureDefinition/Sequence>

<http://hl7.org/fhir/StructureDefinition/Condition>

<http://hl7.org/fhir/StructureDefinition/Encounter>

<http://hl7.org/fhir/StructureDefinition/Procedure>

System Configuration

Terminology Server

<http://fhir3.healthintersections.com.au/open/>

- Can select patients and profiles from history lists
- ‘New Resource’ button (upper right) appears when a patient and profile is selected
 - Click to create resource

Creating a resource

- Similar to previous version when adding elements
- Navigator to display 'child' nodes
- Park current resource button is top right
 - Restore from link top middle that appears
 - Can restore from front screen too
- Validate resource link top right
 - Very helpful
 - Can be wrong – try saving if you think you're right
- Patient and profile shown upper left

Resource Builder screen

Resource
Creator

Patient: Asher Green (2713) [Details](#)
Profile: StructureDefinition/FamilyMemberHistory

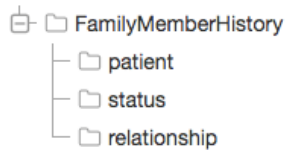
Validate

Park

Save

Close

Resource Navigator



Element Details: *FamilyMemberHistory*

Child Elements

identifier	0..*	Identifier
patient	1..1	-> Patient
date	0..1	dateTime
status	1..1	code
name	0..1	string
relationship	1..1	CodeableConcept
gender	0..1	code
born[x]	0..1	Period date string
age[x]	0..1	-> Age Range string
deceased[x]	0..1	boolean -> Age Range date string
note	0..1	Annotation
condition	0..*	BackboneElement

Resource: Json

Data Entry

[Selected Element](#)

```
{
  "resourceType": "FamilyMemberHistory",
  "patient": {
    "reference": "Patient/2713",
    "display": "Asher Green"
  },
  "status": "completed",
  "relationship": {
    "coding": [
      {
        "system": "http://hl7.org/fhir/v3/RoleCode",
        "code": "MTHFOST",
        "display": "foster mother"
      }
    ],
    "text": "foster mother"
  }
}
```

View resources

- 'Details' link by patient (upper left)
- Similar to previous
 - Slight UI re-arrangement
 - No XML
- Click 'New Resource' button (upper right)
 - to return to edit screen
- Click 'Front' button (upper right)
 - Returns to front page

View resources screen

Resource Creator **Patient:** Asher Green (2713) [Details](#)
Profile: StructureDefinition/Condition

[Front](#) [New Resource](#)

Resource Types

Appointment	2
Condition	6
Encounter	7
FamilyMemberHistory	1
List	1
Observation	16
Patient	1
Practitioner	2
Procedure	1
Sequence	1
Vitals	

Encounter resources

2016-05-12 12:00 0 days ago
2016-05-12 12:00 0 days ago
2016-04-21 12:53 3 weeks ago
2016-05-07 12:53 5 days ago
2016-05-10 12:53 2 days ago
2016-04-30 12:53 12 days ago

Encounter/2827

```
{
  "resourceType": "Encounter",
  "id": "2827",
  "meta": {
    "versionId": "1",
    "lastUpdated": "2016-05-12T14:11:18.605-04:00"
  },
  "status": "planned",
  "patient": {
    "reference": "Patient/2713",
    "display": "Asher Green"
  },
  "period": {
    "start": "2016-05-12",
    "end": "2016-05-16"
  },
  "indication": [
    {
      "reference": "Condition/2719",
      "display": "Asthma"
    },
    {
      "reference": "Procedure/2826",
      "display": "Appendectomy Appendectomy [80146002]"
    }
  ]
}
```

Outward references

Encounter.patient ==> Patient/2713 Asher Green
Encounter.indication 0 ==> Condition/2719 Asthma
Encounter.indication 1 ==> Procedure/2826

Inward references

localhost:8000/#

Elements Console Sources Network Timeline Profiles Resources Security Audits AngularJS

Creating a profile

- Click on the 'eye' in left side of the list of profiles
 - This will be your base type
 - Can edit existing profile
 - Only edit profiles you create!
- Click on 'new profile' and enter name
- You can:
 - Remove a node
 - Change multiplicity & ValueSet for a node
 - Add a new node (extension)
 - Including reference, but can't specify type
- Save & create resource

Profile Builder screen

Resource
Creator

Patient: Asher Green (2713) [Details](#)
Profile: StructureDefinition/Condition

New Resource



Creating a new profile

myCondition

Save

Close

Condition

- Condition
 - Identifier
 - patient
 - encounter
 - asserter
 - dateRecorded
 - code
 - category
 - clinicalStatus
 - verificationStatus
 - severity
 - onset[x]
 - abatement[x]
 - stage
 - evidence
 - bodySite
 - notes

Details

Json

Path	Condition.identifier
DataType/s	Identifier
Definition	This records identifiers associated with this condition that are defined by business processes and/or used to refer to it when a direct URL reference to the resource itself is not appropriate (e.g. in CDA documents, or in written / printed documentation).
Multiplicity	0..*
ValueSet	
MetaData	{"path":"identifier"}

Remove from profile

Add Child Node

Add Sibling Node

0..*



Gotcha's

- Navigator sometimes has 2 nodes selected
 - Click the one you want
- If the navigator is replaced by an endless spinner (sometimes after deleting a node)
 - You're toast. Start again. Sorry.
- Re-load page if want to create multiple profiles
 - Seems to get stuck on the previous one created
- If weird stuff happens
 - Re-load page
 - Ask David
 - Cry