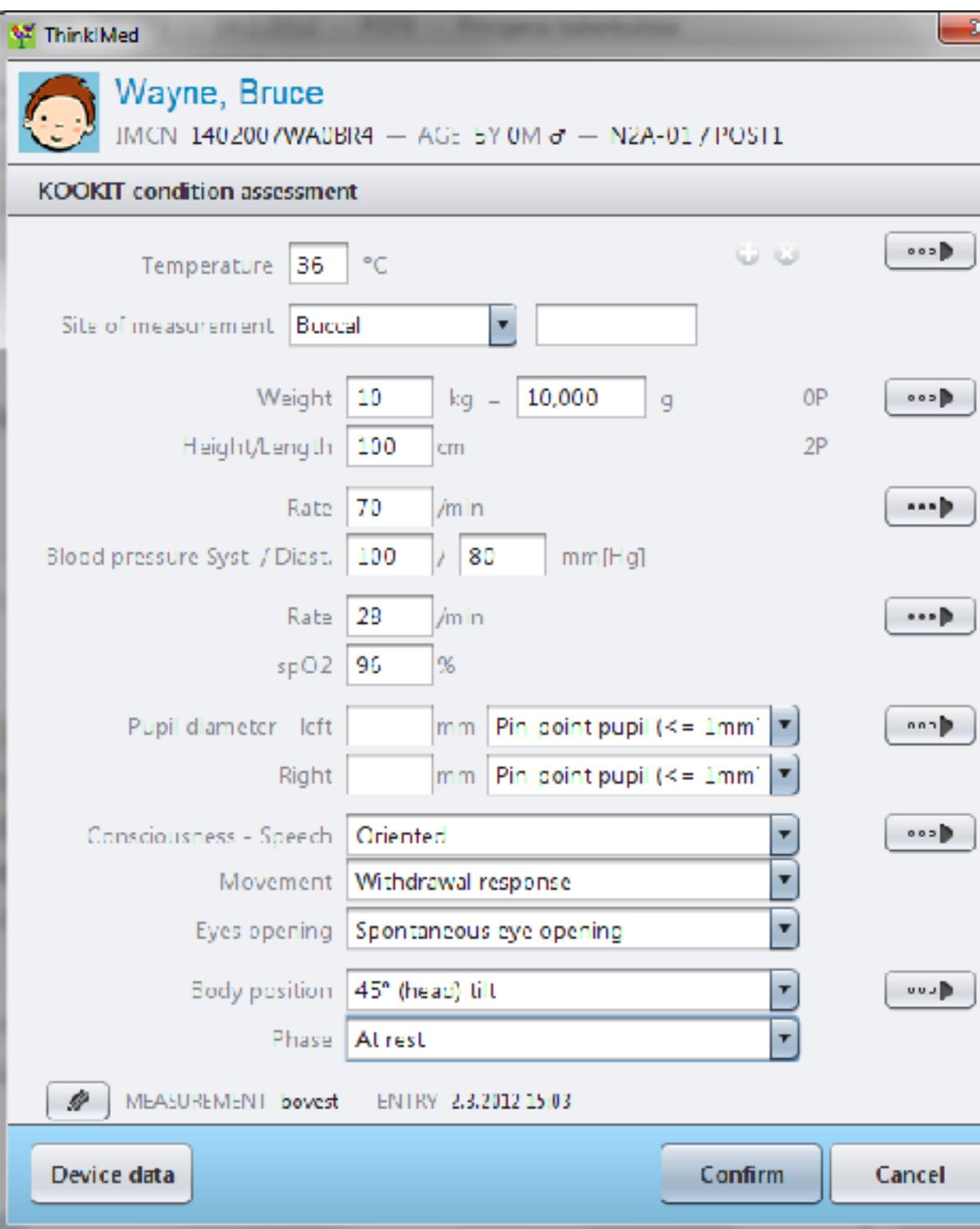


Introduction to archetypes and templates

openEHR

I want to record 'pulse rate'



```
        },
        "pulse": [
          {
            "pulse_rate": [
              {
                "|magnitude": 63.0,
                "|unit": "/min"
              }
            ],
            "time": [
              "2020-09-14T20:30:35.079Z"
            ],
            "language": [...],
            "encoding": [...]
          }
        ]
      }
```

Traditional modelling: the data dictionary

openEHR

Health and Social Care Data Dictionary

 SCOTTISH EXECUTIVE 

Dictionary - A-Z	SMR Datasets	Clinical Datasets	Other Standards
Back	<<	>>	Print

[Clinical Datasets](#) > [Stroke](#) > [Stroke Inpatient Dataset](#) > [Neurological Assessments](#) > Glasgow Coma Scale - Eye Opening

Formal Name:Glasgow Coma Scale - Eye Opening

Common Name(s)
GCS

Definition
A record of the patient's eye response assessed using the Glasgow Coma Scale tool.

Format
Characters

Field Length
2

Codes and Values: (Code order)

01 Spontaneous	Open with blinking at baseline. Score of 4.
02 To speech	Score of 3.]
03 To pain	Not applied to face. Score of 2.
04 None	Score of 1.
05 Unassessable	For example, patient does not have eyes

[Sort by Code](#) [Sort by Value](#) [Remove Headings](#)

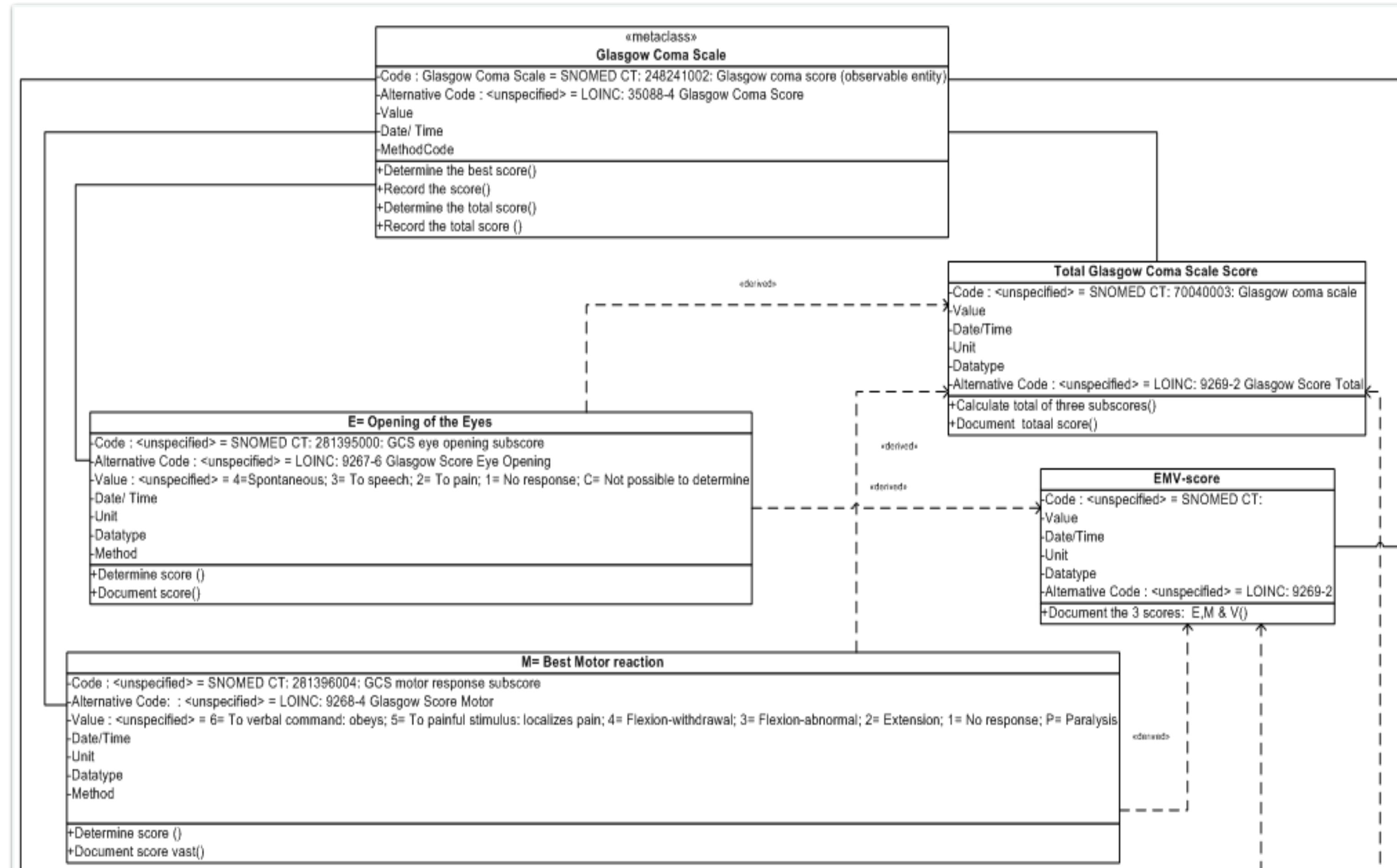
Attributes

Laterality:

Left
Right
Bilateral

UML: Clinically unfriendly

openEHR



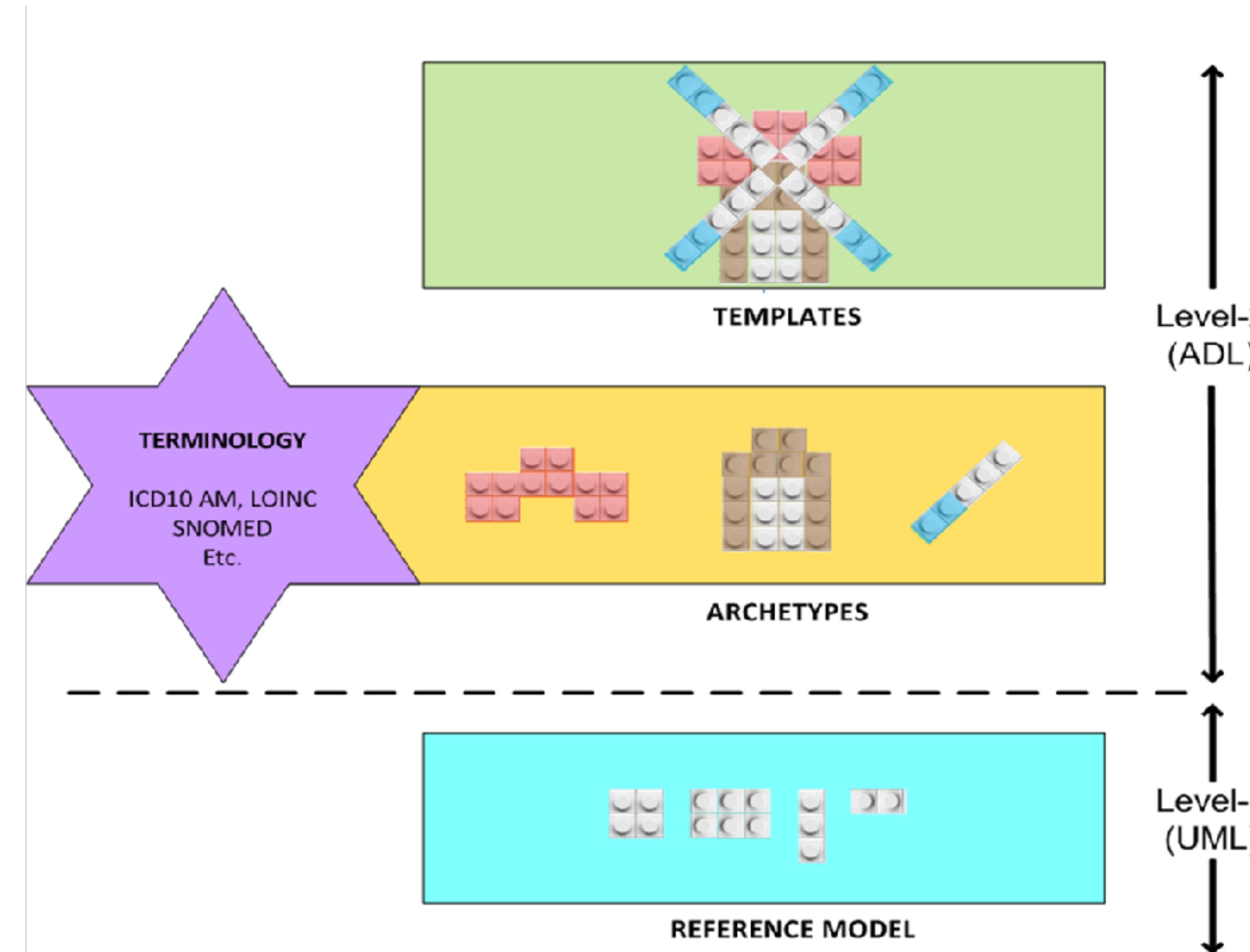
Clinically-accessible?

openEHR

Fields		
	Name	Description
◆	TypeId	Retrieves the unique identifier for the item type.
Properties		
	Name	Description
◆	AllergenCode	Gets or sets the code for the allergen that causes an allergic reaction.
◆	AllergenType	Gets or sets the type of allergen that causes an allergic reaction.
◆	CommonData	Gets the common data for the HealthRecordItem. (Inherited from HealthRecordItem.)
◆	Created	Gets the audit information associated with the creation of this health record item. (Inherited from HealthRecordItem.)
◆	EffectiveDate	Gets the date and time that the health record item data was taken. (Inherited from HealthRecordItem.)
◆	EffectivePermissions	Gets the effective permissions on the item granted to the person retrieving the HealthRecordItem. (Inherited from HealthRecordItem.)
◆	FirstObserved	Gets or sets the approximate date of the first occurrence of the allergy.
◆	Flags	Gets the HealthRecordItem flags. (Inherited from HealthRecordItem.)
◆	HealthRecordItemSignatures	Gets the signatures for the HealthRecordItem. (Inherited from HealthRecordItem.)
◆	IsDownVersioned	Gets the value indicating if the HealthRecordItem is down-versioned. (Inherited from HealthRecordItem.)
◆	IsImmutable	Gets a value indicating whether the HealthRecordItem is immutable. (Inherited from HealthRecordItem.)
◆	IsNegated	Gets or sets a value indicating whether the allergic reaction is negated with treatment.
◆	IsPersonal	Gets or sets the value indicating if the HealthRecordItem is private. (Inherited from HealthRecordItem.)

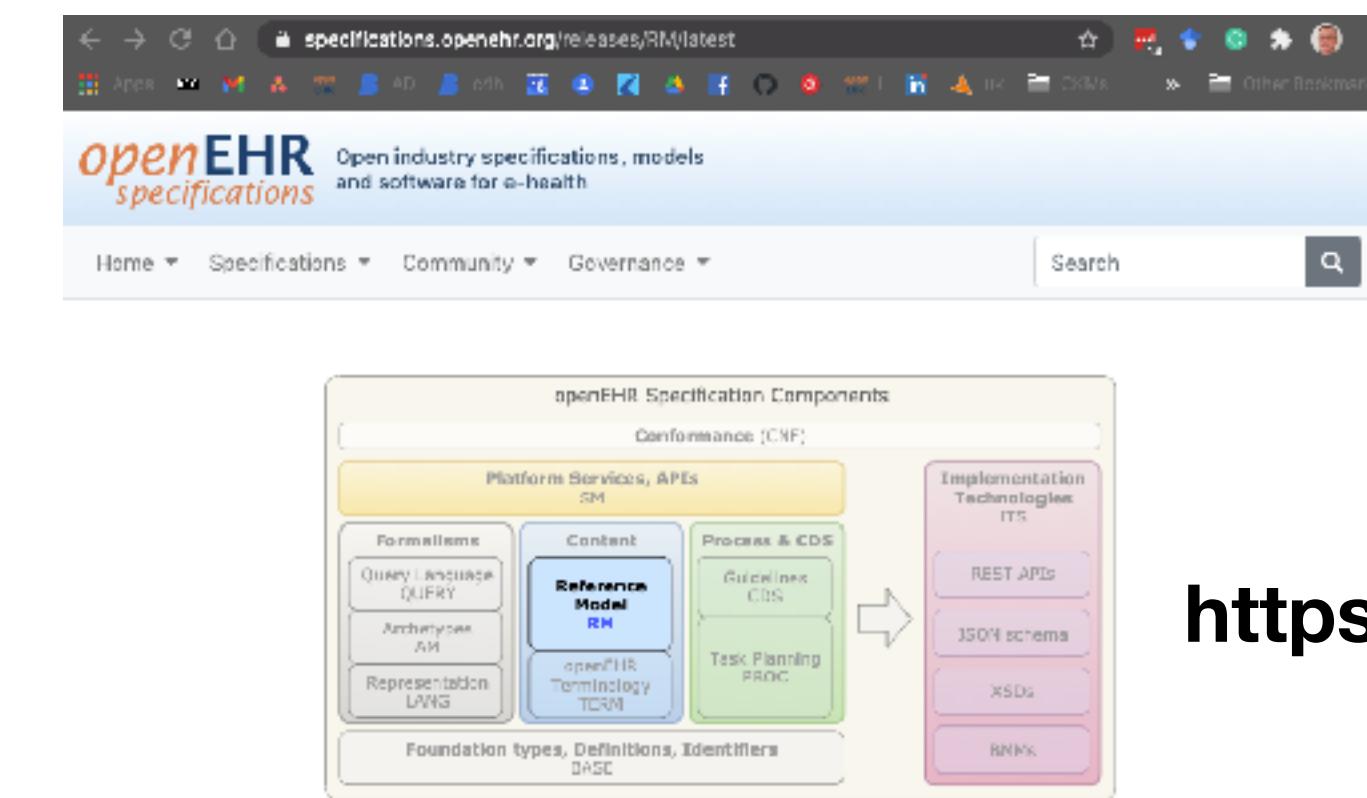
openEHR: Multi-level modelling

*open*EHR

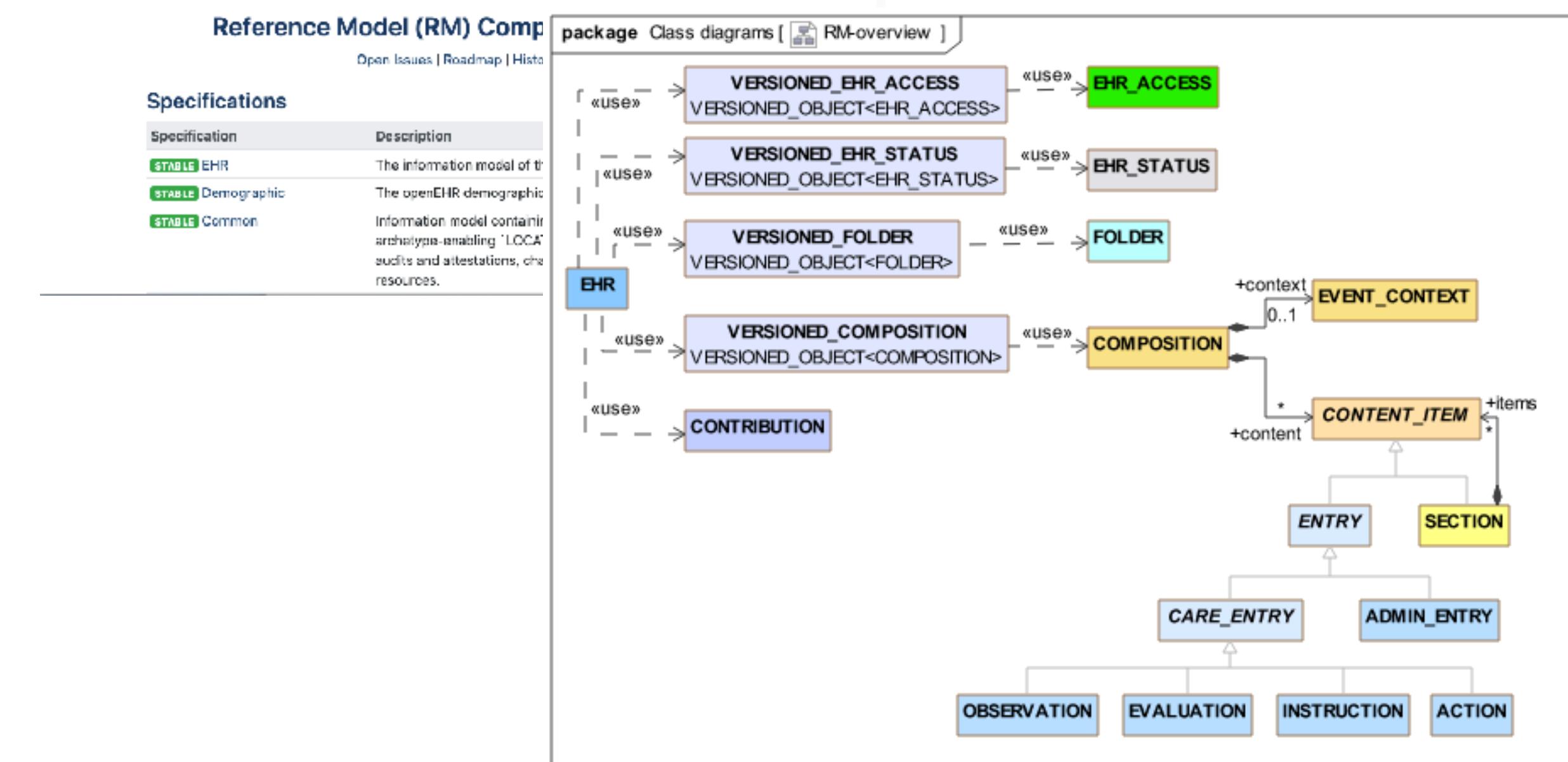


openEHR Reference Model (RM)

- Generic technical artefacts for representing health information
 - Data structures and types
 - Overall health record structure
- Security, Versioning
- People, Dates, Times etc.
- **Deliberately hidden in the clinical modelling tools**



<https://specifications.openehr.org/>



<https://specifications.openehr.org/releases/UML/latest/index.html>

openEHR Health Record

*open*EHR

EHR

Electronic health record for one person

Folders

High level organisation of the EHR,
e.g. by episode or by specialty

Compositions

Set of entries comprising a clinical care session or document, e.g. encounter, result

Sections

Clinical headings reflecting workflow or consultation process

Entries

Clinical statements about observations, evaluations, instructions, actions

Clusters

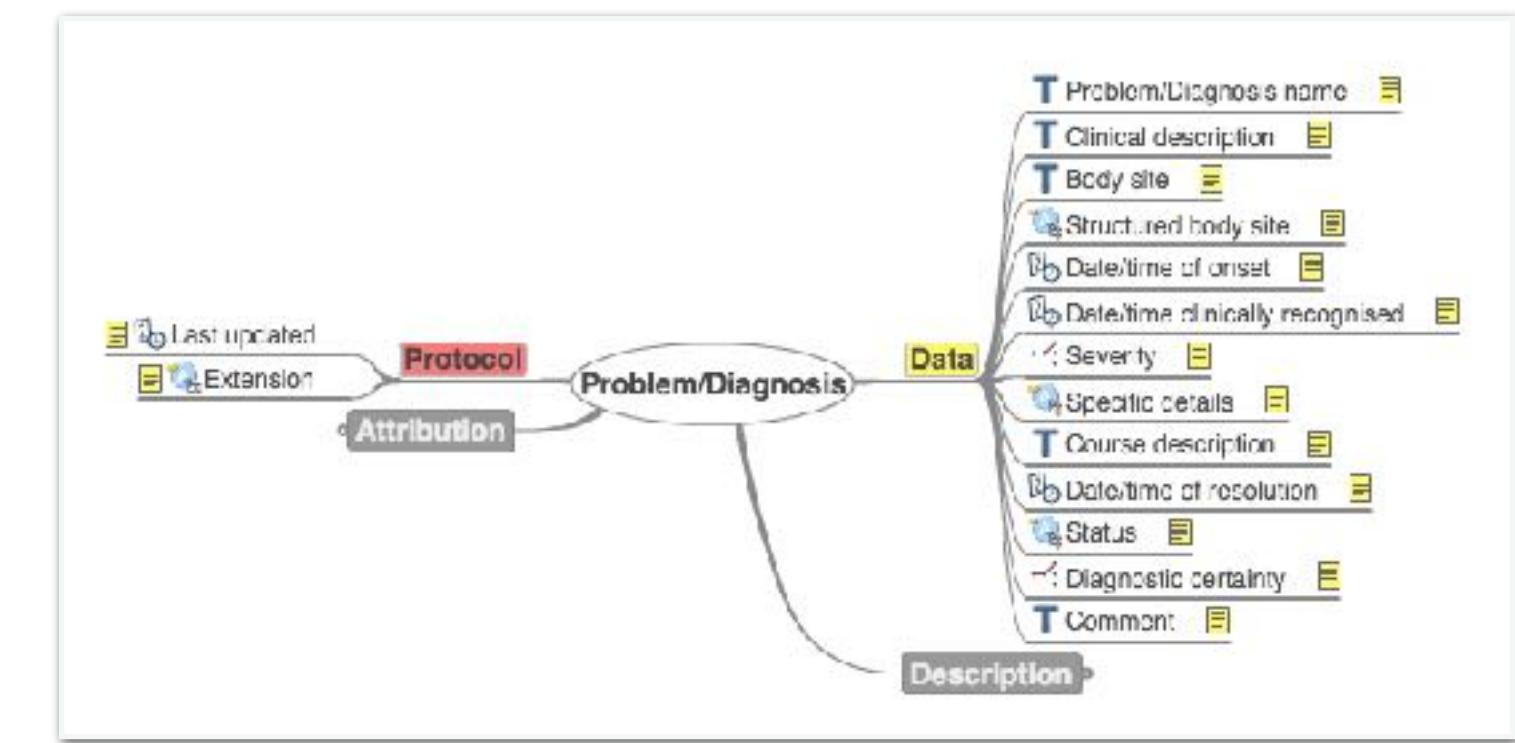
Entry subcomponents, e.g. device details or inspired oxygen information

Elements

Leaf nodes of name-value pair and datatype, e.g. body weight = 60kg (Quantity)

openEHR Archetypes I

- Computable models of discrete clinical concepts
 - Familiar components of a health record
 - Blood pressure, Body weight, Symptom
 - Medication order, Family history
 - ‘Maximal dataset’ philosophy
 - Capture as many clinical perspectives as possible



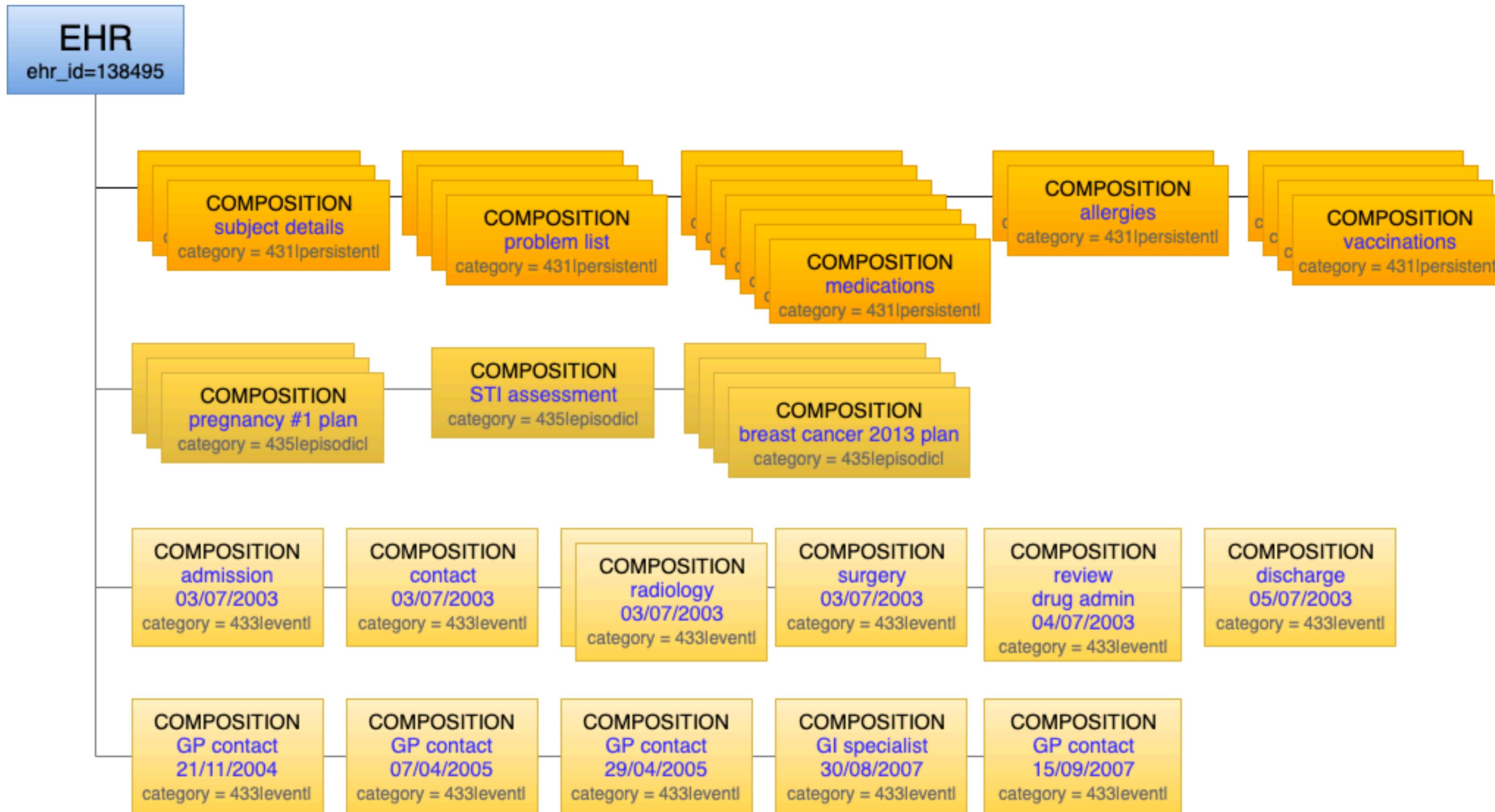
Problem/Diagnosis, Published Archetype [Internet]. openEHR Foundation, openEHR Clinical Knowledge Manager [cited: 2016-03-09]. Available from: http://openehr.org/ckm/#showArchetype_1013.1.169

COMPOSITION archetypes

- ‘Top level document’ container for all clinical data
- All clinical data saved inside a Composition
- Represent generic document types in clinical system
 - Encounter, Report, Lab Report
 - Problem List, Discharge Summary, End of Life Care plan
- Simple
- Do not define detailed content.

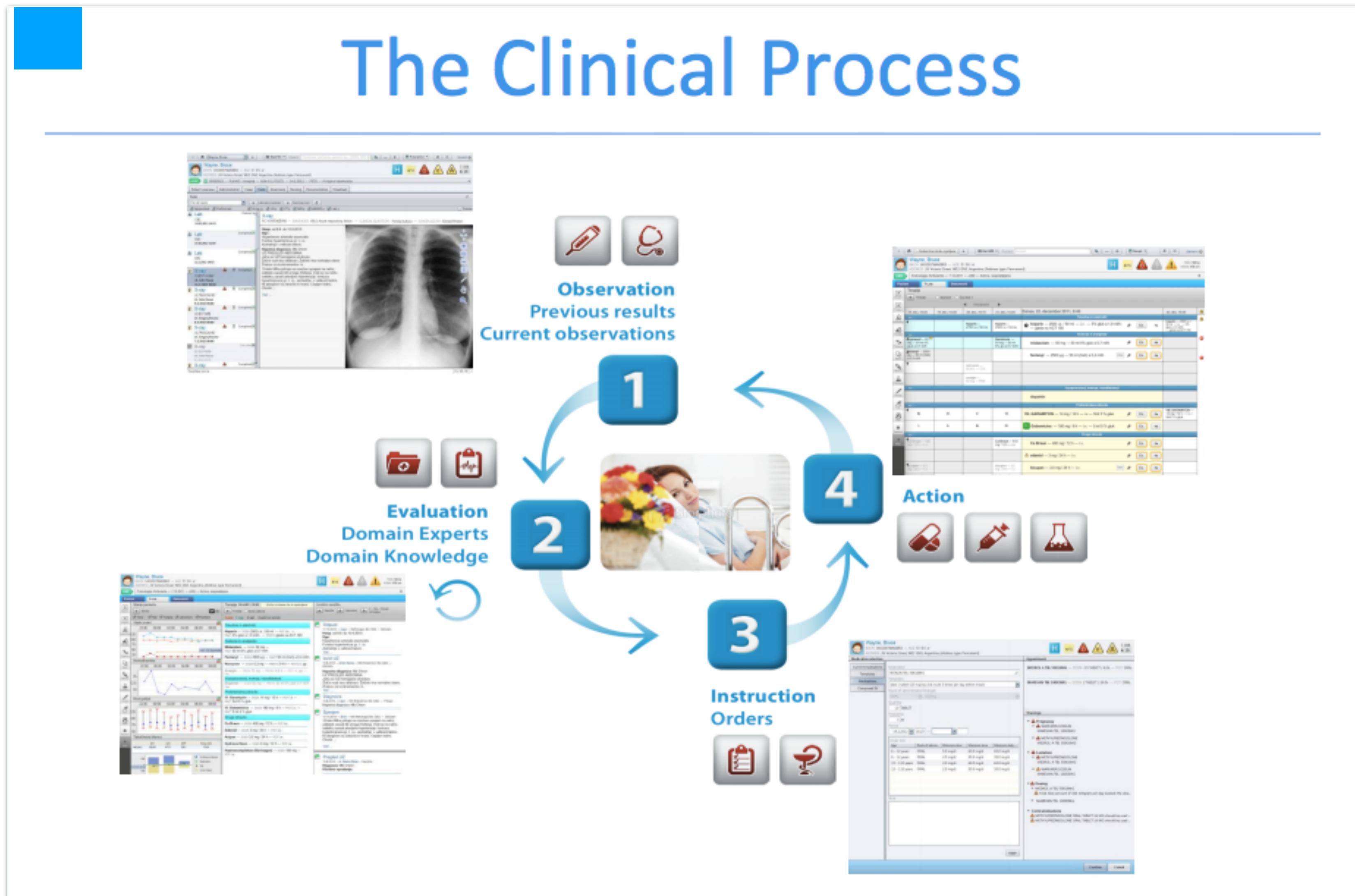


'Persistent' compositions



The ENTRY archetypes

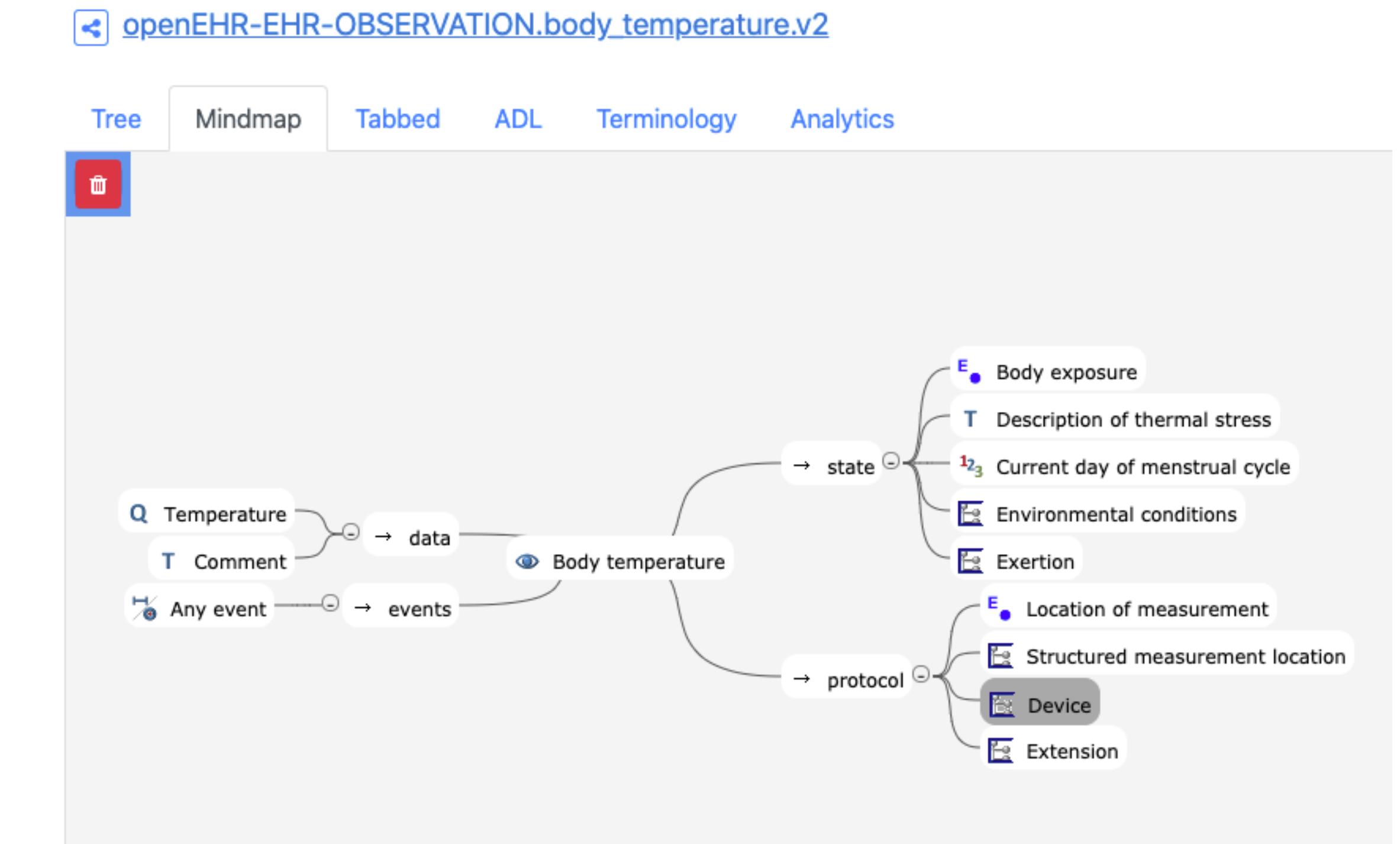
openEHR



OBSERVATION archetypes



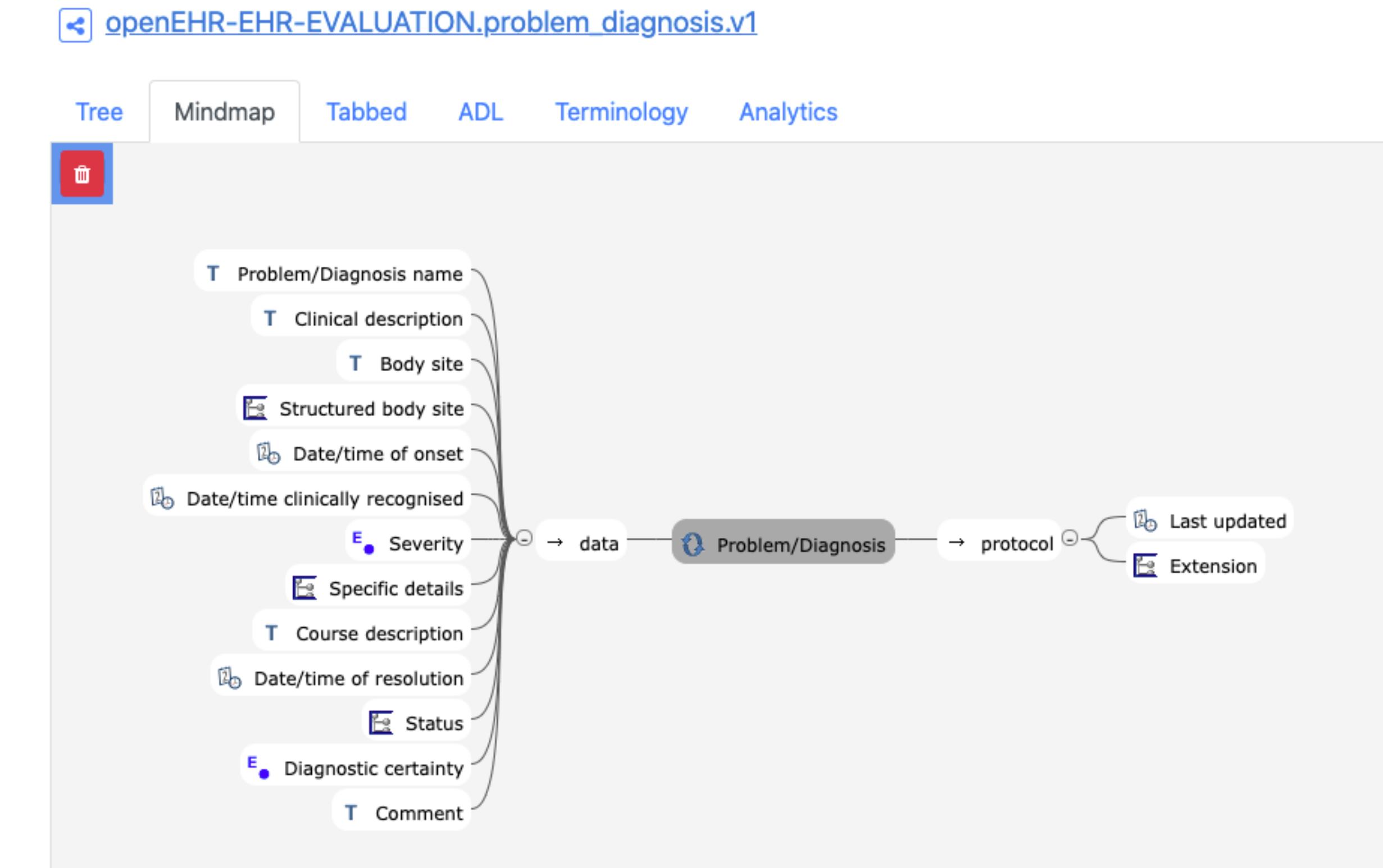
- Gathering of evidence
- Measurable / observable data
 - Patient history, physical examination
 - Lab tests, imaging
 - Scores and scales



EVALUATION archetypes



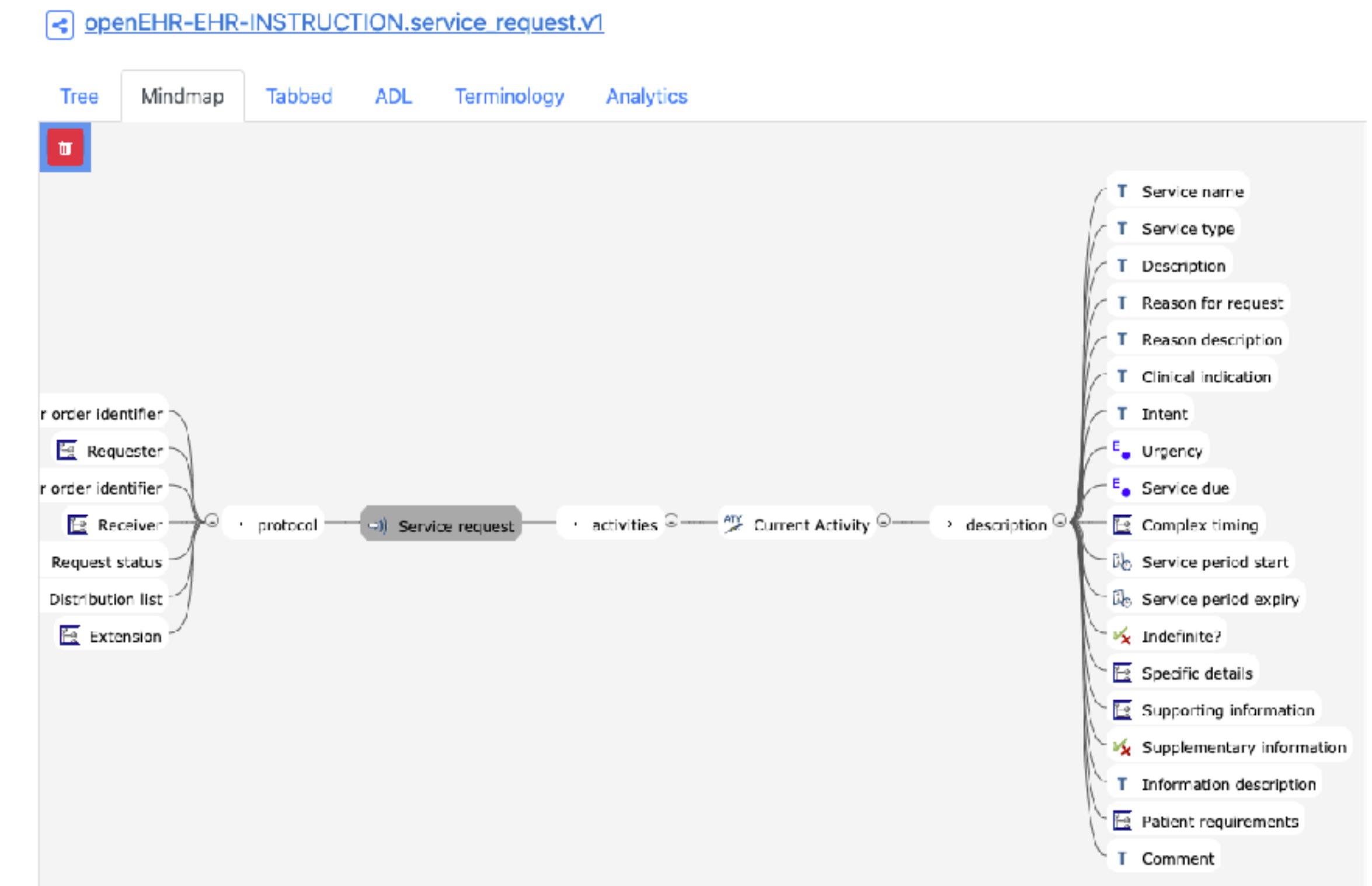
- Outcomes of a clinical assessment or decision
- Clinically interpreted findings
 - “I think the problem is ...”
 - I think there is a risk of ...
 - The treatment goal is ...’
 - Diagnosis, synthesis
 - Genetic risk, Risk of Adverse reaction
 - CPR Decision



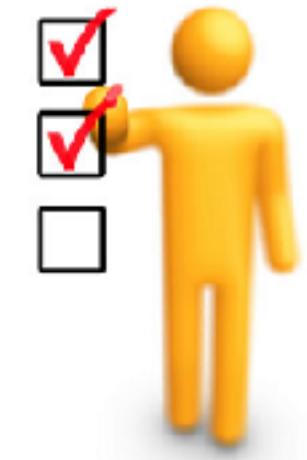
INSTRUCTION archetypes



- Orders that arise from clinical assessment
- Initiation of workflow process
 - “I will order some blood tests”
 - “I would like you to start this medication”
 - “I would like to refer you to a specialist”
- Lab test request, referral
- Medication order
- Nursing task



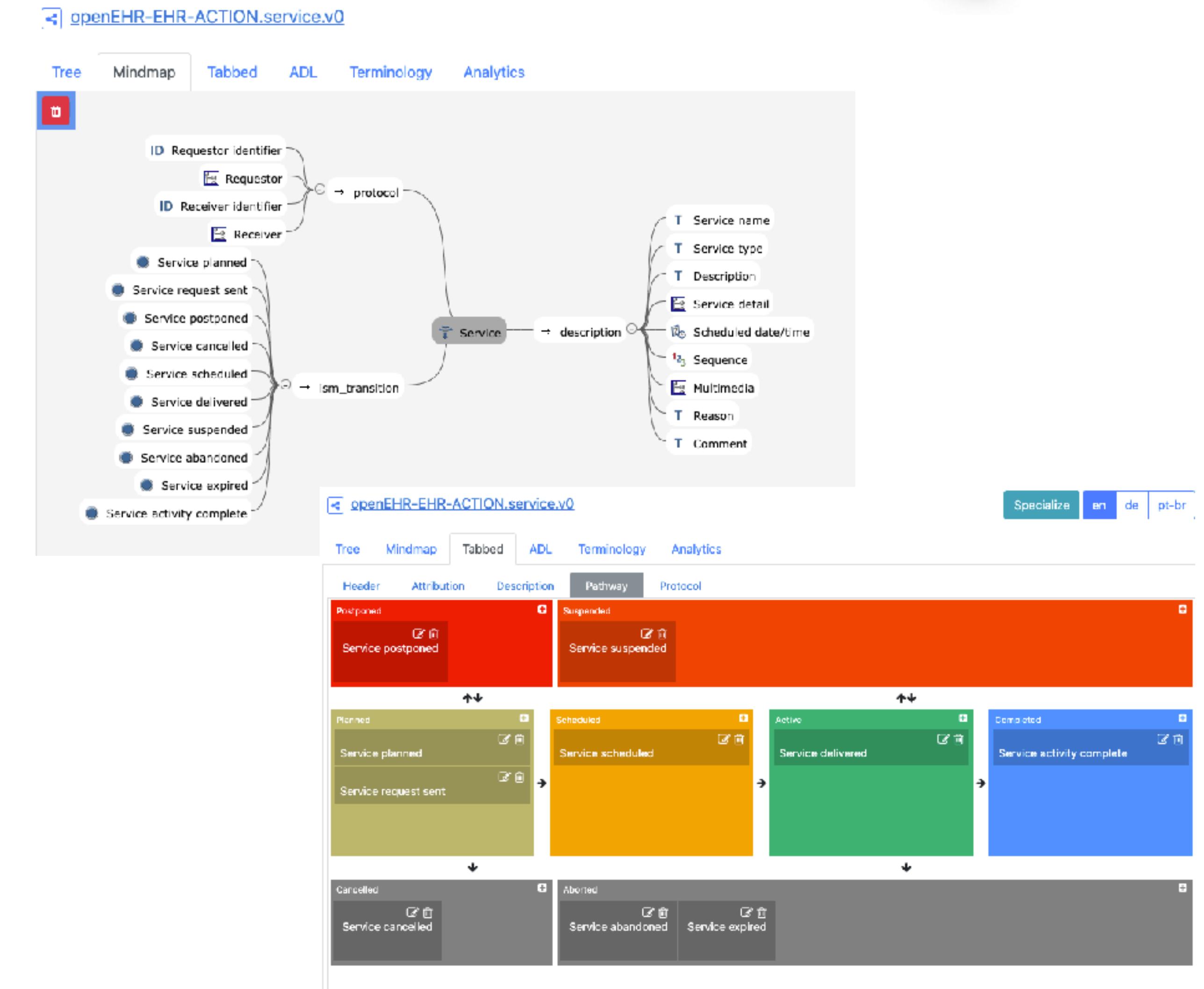
ACTION archetypes



- Activities that result from an Instruction

- “Lab test performed”
- “Medication prescribed, administered”
- “Procedure performed”

- “Lab test tracking”
- “Medication supply”



Slots

- Where one archetype can be slotted into another
- Entry, Section into Composition
- Entry into Composition
- Cluster into Entry
- **But not Entry into Entry**

The screenshot shows the openEHR archetype browser interface. The title bar says "openEHR-EHR-OBSERVATION.body_temperature.v2". The left pane displays a tree view of the archetype structure under "Body temperature > protocol > Device". The structure includes "Body temperature", "data" (with "Any event", "Temperature", "Comment", "state"), "protocol" (with "Location of measurement", "Structured measurement location", "Device", "Extension"), and "Extension". The right pane contains constraint settings: Path is "/protocol[<]", Occurrences is "0..1", Type is "SLOT", and Includes is "openEHR-EHR-CLUSTER\device\,v1".

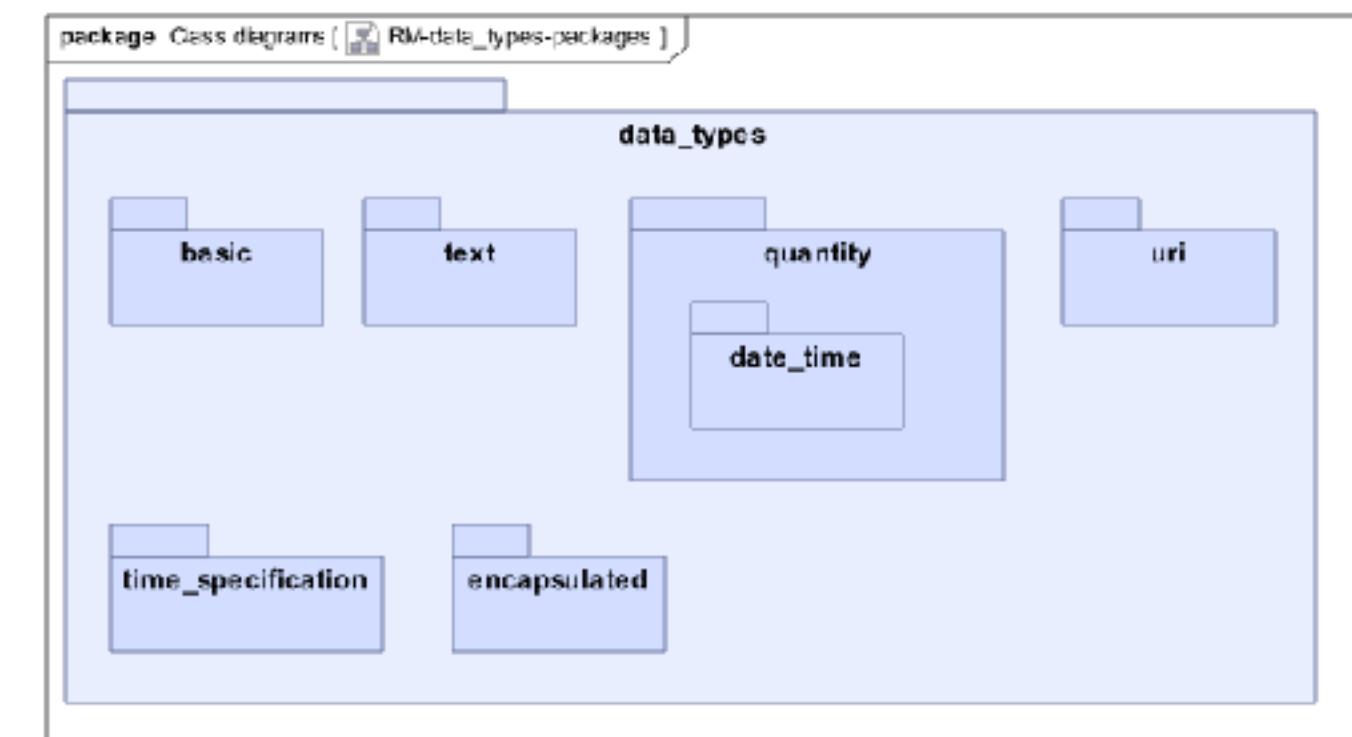
The screenshot shows the openEHR archetype browser interface. The title bar says "openEHR-EHR-COMPOSITION.report.v1". The left pane displays a tree view of the archetype structure under "Analytics Report > content". The structure includes "Report", "context" (with "other_context" containing "Report ID", "Status", and "Extension"), and "content". The right pane contains constraint settings: Path is "/content", Type is "ATTRIBUTE", Archetype id is "openEHR-EHR-COMPOSITION.report.v1", and Cardinality is "(0..*)".

openEHR RM datatypes

openEHR

- The modelling tools expose most aspects of the data types that are of interest to the clinical modeller
- Some RM attributes of datatypes are not clear or only apply to the actual data, not the models

T	Coded Text
T _{2 67}	
Q	Quantity
1:2	Proportion
1 ₂ 3	Count
⌚	Datetime
🕒	Time
📅	Date
☰	Ordinal
✓✗	Boolean
E•	Choice
🌐	Cluster (internal)
📝	Slot
⌚⌚	Duration
ID	Identifier



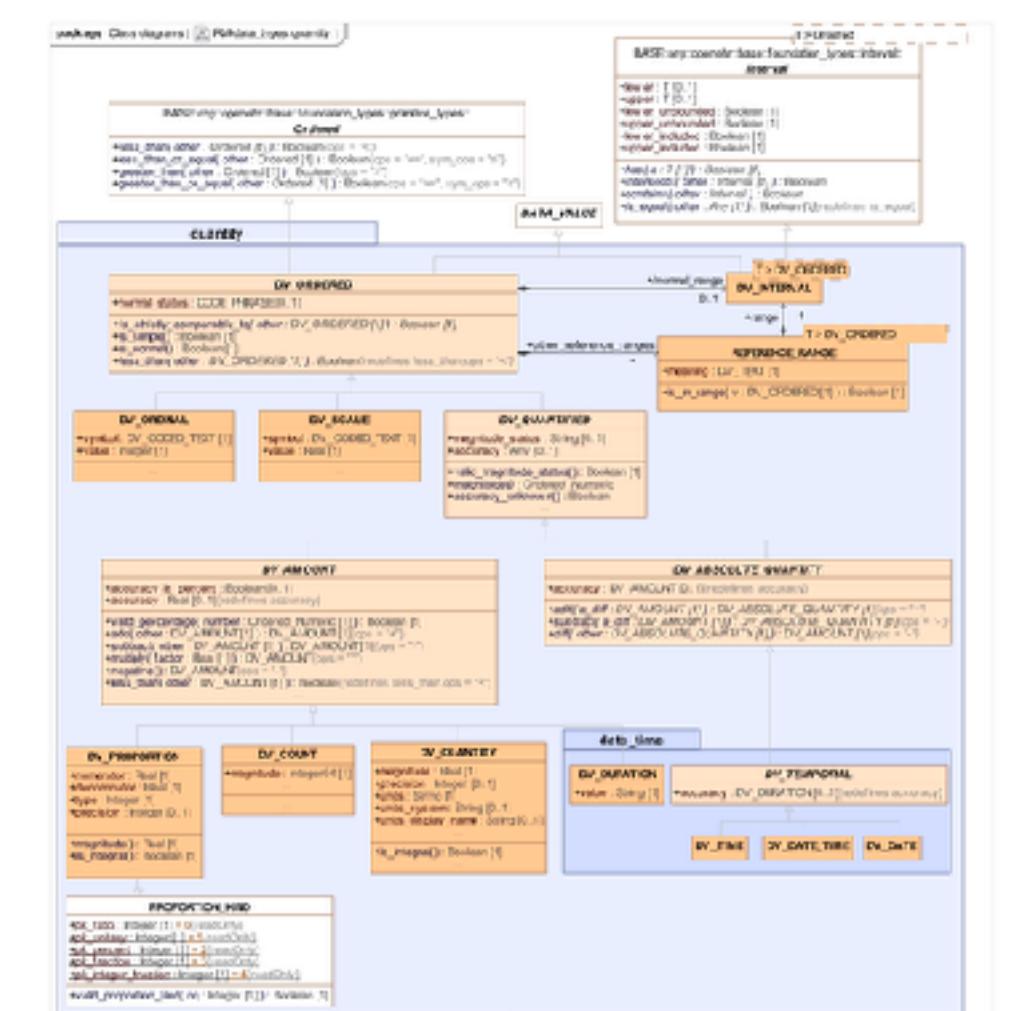
https://specifications.openehr.org/releases/RM/latest/data_types.html

Quantity datatype

- Units
 - e.g. mmHg, mmol/l, /min
- Normal_range
 - For lab or device normal ranges
 - e.g. 20-46 mmol/l
- Other reference ranges
 - For age or sex-specific reference ranges
 - Normal range for children : 18-28 mmol/l

Occurrences	1..1	
Type	QUANTITY	
Runtime constraints	<input checked="" type="checkbox"/> Not set (Click to edit)	
Available types	<input type="checkbox"/> Quantity	
Types	Quantity	
Units	Cel <input type="button" value="+"/> <input type="button" value="-"/>	
Label	<input type="text"/>	
Range	<input checked="" type="checkbox"/> Min \geq <input type="text" value="0"/>	<input checked="" type="checkbox"/> Max $<$ <input type="text" value="100"/>

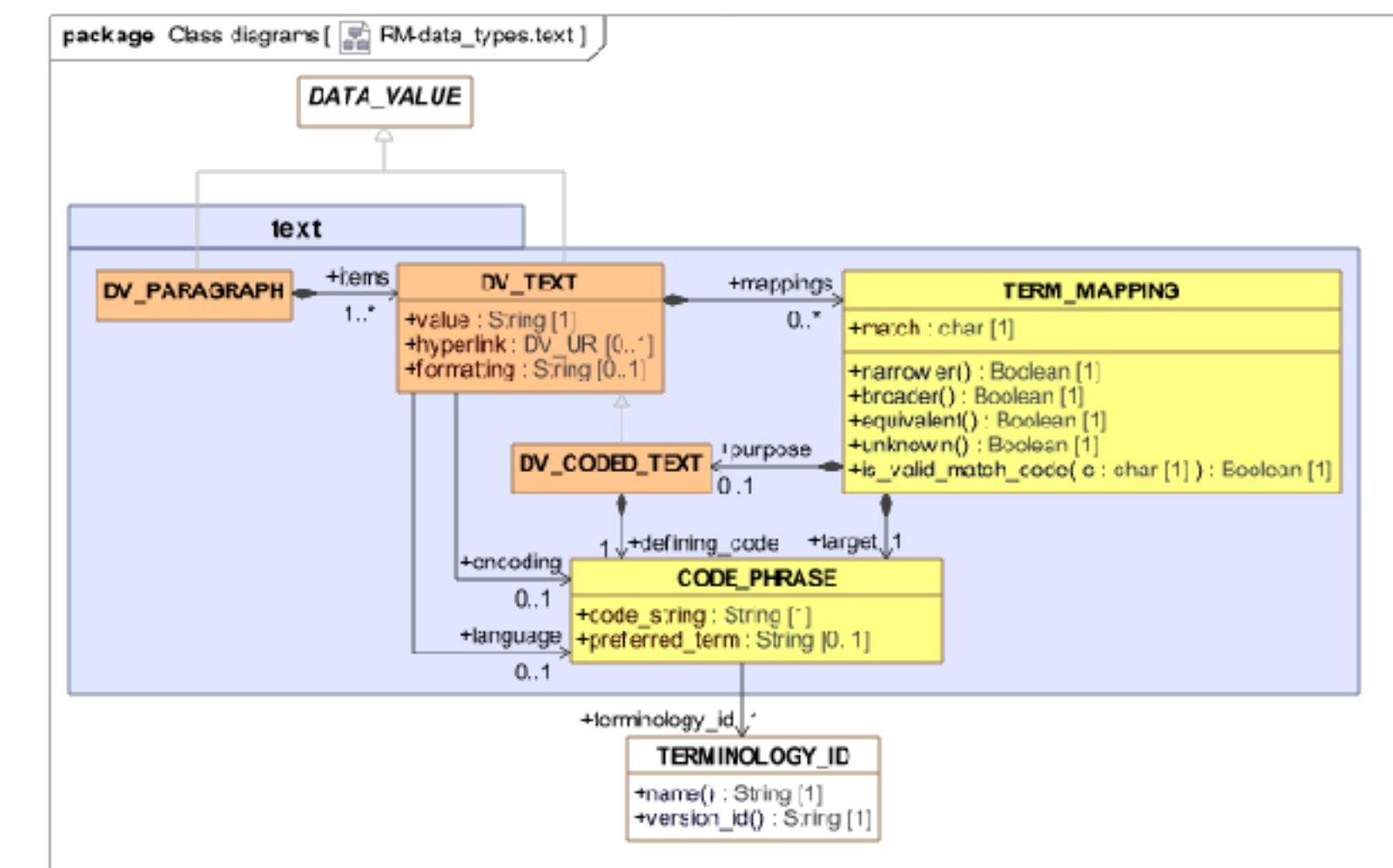
- Magnitude_status
 - To allow numeric to be qualified
 - E.g. ≤ 5 (Less than or equal to 5)
 - ~ 7.3 (approximately 7.3)
- Normal_status
 - High, normal, low based on HL7 lab messages
 - e.g. HHH,HH,H, ,L,LL,LLL



Text/CodedText datatype

- Any Text datatype can also act as a CodedText datatype
 - if you have defined an element to be Text, it can still carry CodedText
- **Defining_code**
 - The actual code of a CodedText e.g “123478-AS”
 - The terminology/version of the CodedText e.g. “ICD-10”
- **Mappings**
 - to external terminologies
 - e.g. The original code is an internal code “at007::Left” but is mapped to SNOMED code |123456|left|

Code	Text	Description
at0025	Rectum	Temperature measured with
at0024	Axilla	Temperature is measured from
at0023	Ear canal	Temperature is measured from
at0051	Forehead	Temperature is measured or
at0022	Mouth	Temperature is measured with
at0026	Nasopharynx	Temperature is measured with
at0027	Urinary bladder	Temperature is measured in



Other datatypes

- Duration : 1 day , 3 minute, including ages
- Boolean: True/ False
- Proportion: 83%
- Ordinal: 3: Moderate
- Multimedia: Image, Sound
- Identifier: NHSNumber
- Parsable Text: XML, JSON
- URI : Web-type links



openEHR Templates

openEHR

- Computable models bringing together component archetypes
 - create a dataset for a particular clinical context or purpose
 - adjust component archetypes to make them 'fit for purpose'
 - make items mandatory
 - remove unwanted items
 - set default values
 - create terminology mappings
 - In practice, creating a dataset to underpin
 - data entry / message / interface definitions

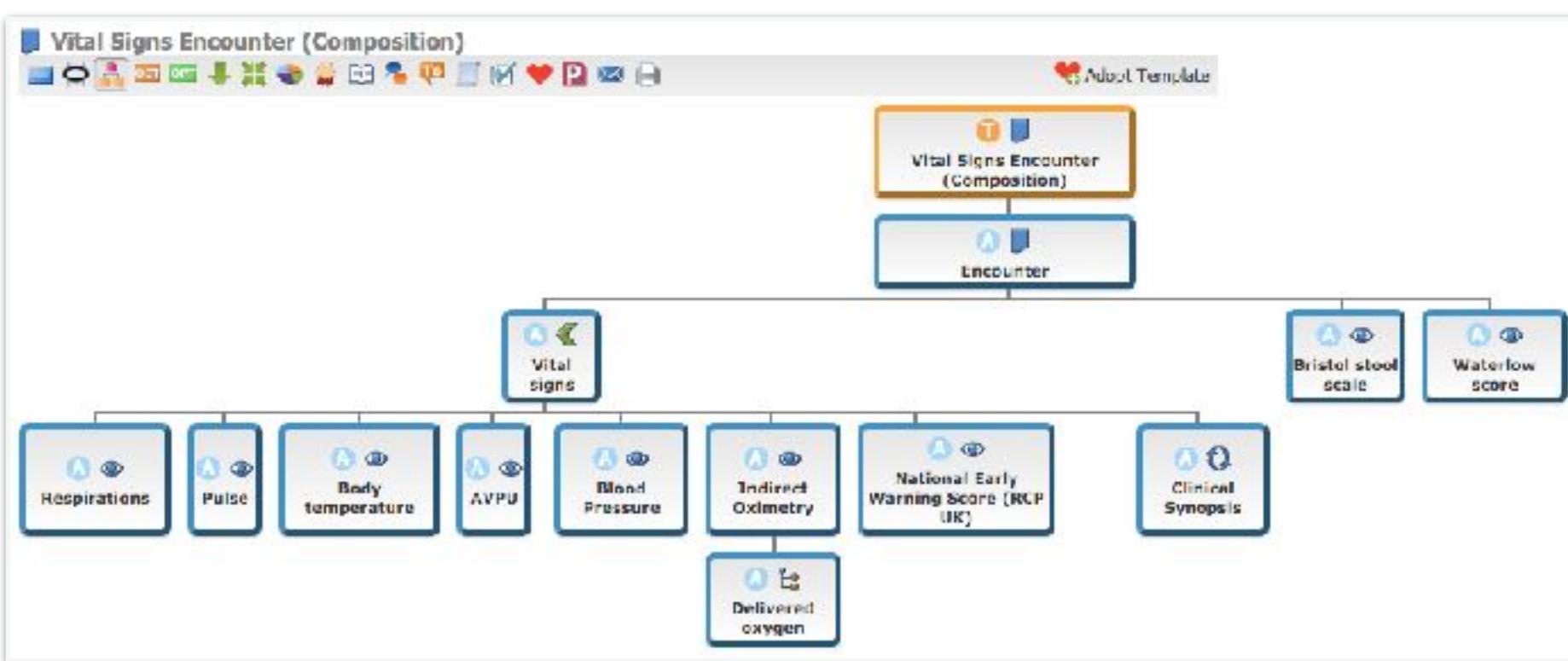
The screenshot shows the openEHR template editor interface. At the top, there's a header for 'The Princess Alexandra Hospital NHS Trust'. Below it is a 'Social Situation' form with sections for personal care, domestic responsibilities, meal prep, occupation, transport, dependents, and pets. The 'Personal Care' section includes fields for shower/bath/stripwash. The 'Domestic Responsibilities' section includes cleaning/shopping. The 'Meal Prep' section includes a field for equipment in situ. The 'Occupation' section includes a field for POC and agency. The 'Transport' section includes a field for key safe and pendant alarm. The 'Dependents' section includes a field for safeguarding concerns. The 'Pets' section is currently empty.

At the bottom, a detailed view of the 'Current COVID Status' archetype is shown. It includes fields for report ID, status, content, and data. The 'Content' section is expanded, showing 'Current COVID Status' with options for Problem/Diagnosis name, diagnostic certainty, and last updated. The 'Data' section is also expanded, showing 'Isolation Status' with options for service name, reason for request, and reason for isolation. Other sections like protocol, activities, and description are also listed.

Templates vs Forms

openEHR

Template = Dataset



Vital Signs Encounter (Composition), Draft Template [Internet]. UK Clinical Models, UK Clinical Models Clinical Knowledge Manager [cited: 2016-03-09]. Available from: http://clinicalmodels.org.uk/ckm/#showTemplate_1051.57.23

Form = User Interface

The screenshot shows the EhrScape user interface for entering vital signs. It features three main sections: 'Temperature', 'Blood pressure', and 'Weight'. The 'Temperature' section includes fields for 'TEMPERATURE' and 'BODY EXPOSURE'. The 'Blood pressure' section includes fields for 'SYSTOLIC', 'DIASTOLIC', and 'POSITION'. The 'Weight' section includes a field for 'BODY WEIGHT'. Each section has a dropdown menu icon to its left.

<https://www.ehrscape.com/forms-demo.html>

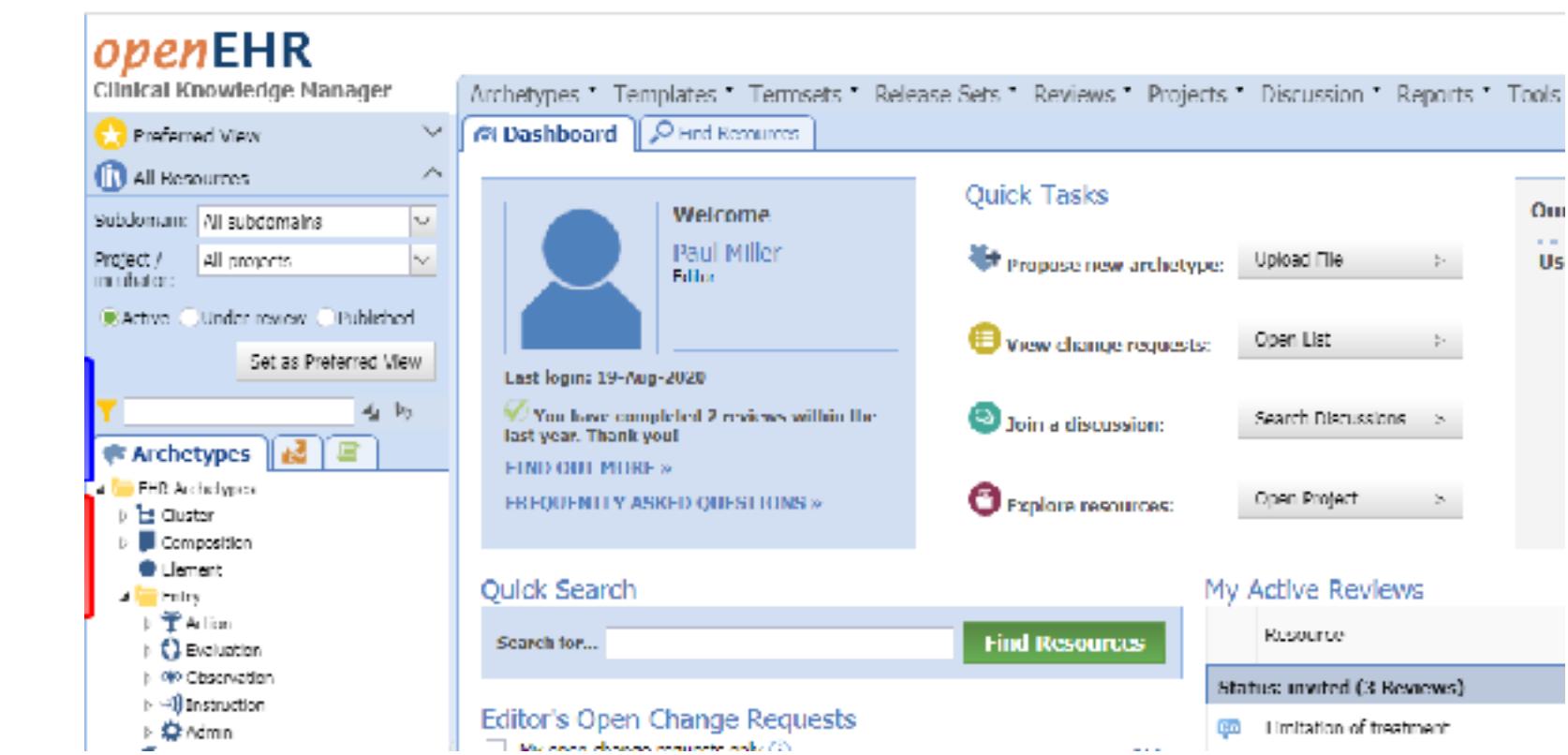
Templates - the openEHR ‘workhorse’?

- Archetypes get the glory, templates deliver the datasets
- Key clinical endpoint and starting point for generation of technical artefacts
 - Class libraries, GUI skeletons, Message schema
- Most demand for archetyped content will originate as requests for datasets
 - Data entry forms
 - Diabetes shared care message
 - Discharge summary message



CKM: Clinical Knowledge Manager

- Repository
- Collaboration for Reviews
- Two main CKMS
 - International:
 - <https://ckm.openehr.org/ckm/>
 - UK & 5 Nations / Apperta
 - <https://ckm.apperta.org/ckm/>
 - Searching
 - Sharing
 - Reviewing



openEHR

Clinical Knowledge Manager

Preferred View

All Resources

Subdomain: All subdomains

Project / incubator: All projects

Active Under review Published

Set as Preferred View

Archetypes

- EHR Archetypes
 - Cluster
 - Composition
 - Element
- Entry
 - Action
 - Evaluation
 - Observation
- Demographic Model Archetypes

Preferred View

All Resources

Subdomain: All subdomains

Project / incubator: All projects

Active Under review Published

Set as Preferred View

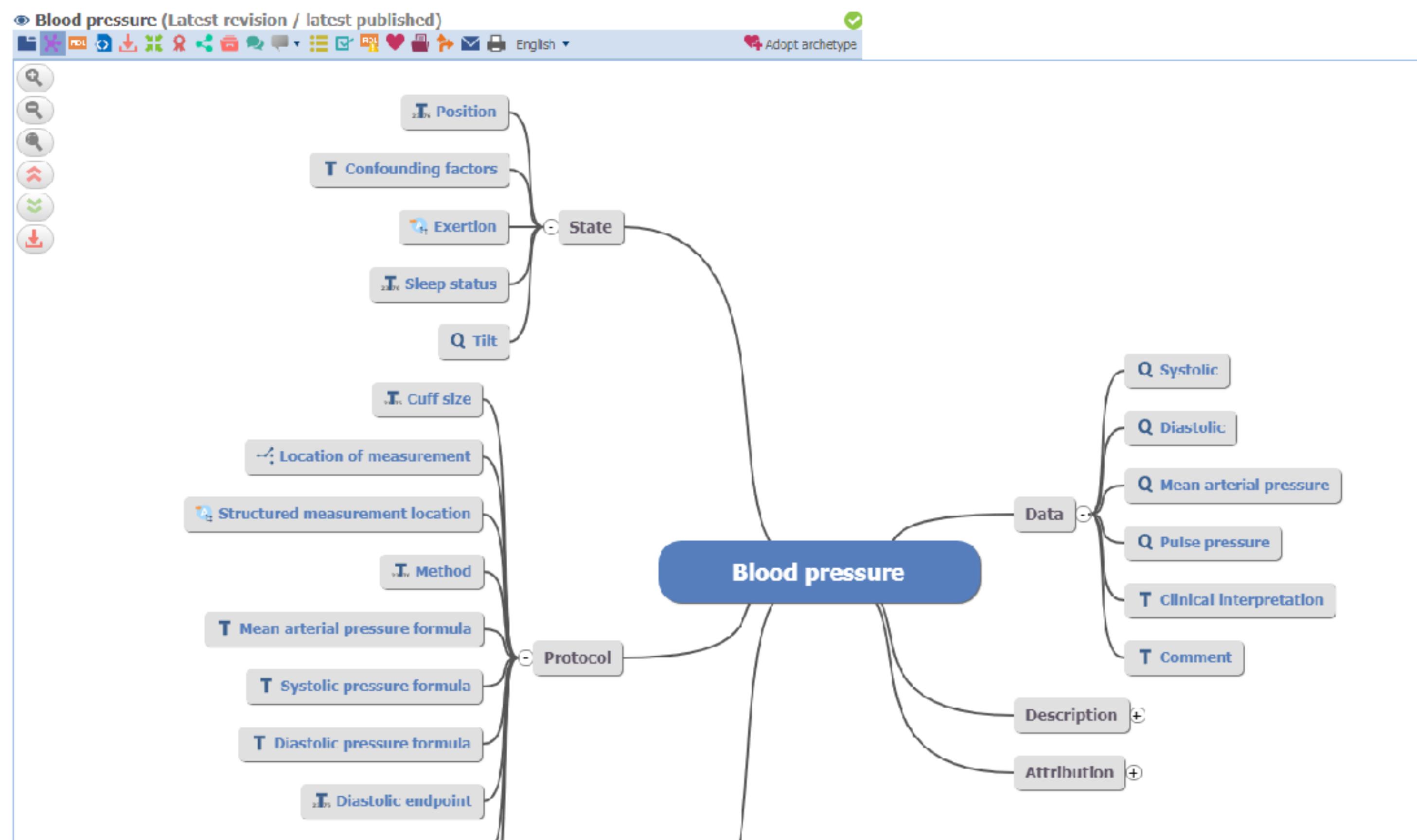
Archetypes

- EHR Archetypes
 - Cluster
 - Composition
 - Element
- Entry
 - Action
 - Evaluation
 - Observation
 - 4AT (v0)
 - 6 CIT Assessment (v0)
 - Abbey pain scale (v0)
 - ABC-stroke risk score (v0)
 - ABCD2 score (v0)
 - Acoustic reflex test result (v0)
 - ACVPU scale (v1)
 - Age (v0)
 - Alcohol intake (v0)
 - Alcohol Use Disorders Identif
 - Alvarado score (v0)
 - Angina symptom classificatio
 - Ankle Osteoarthritis Score (v
 - AOFAS Score (v0)
 - Apgar score (v2)
 - Appendicitis Inflammatory Re
 - ASA physical status classifica
 - Assessment of Blood Consum
 - ATRIA bleeding risk score (v
 - ATRIA stroke risk score (v0)

Set as Preferred View

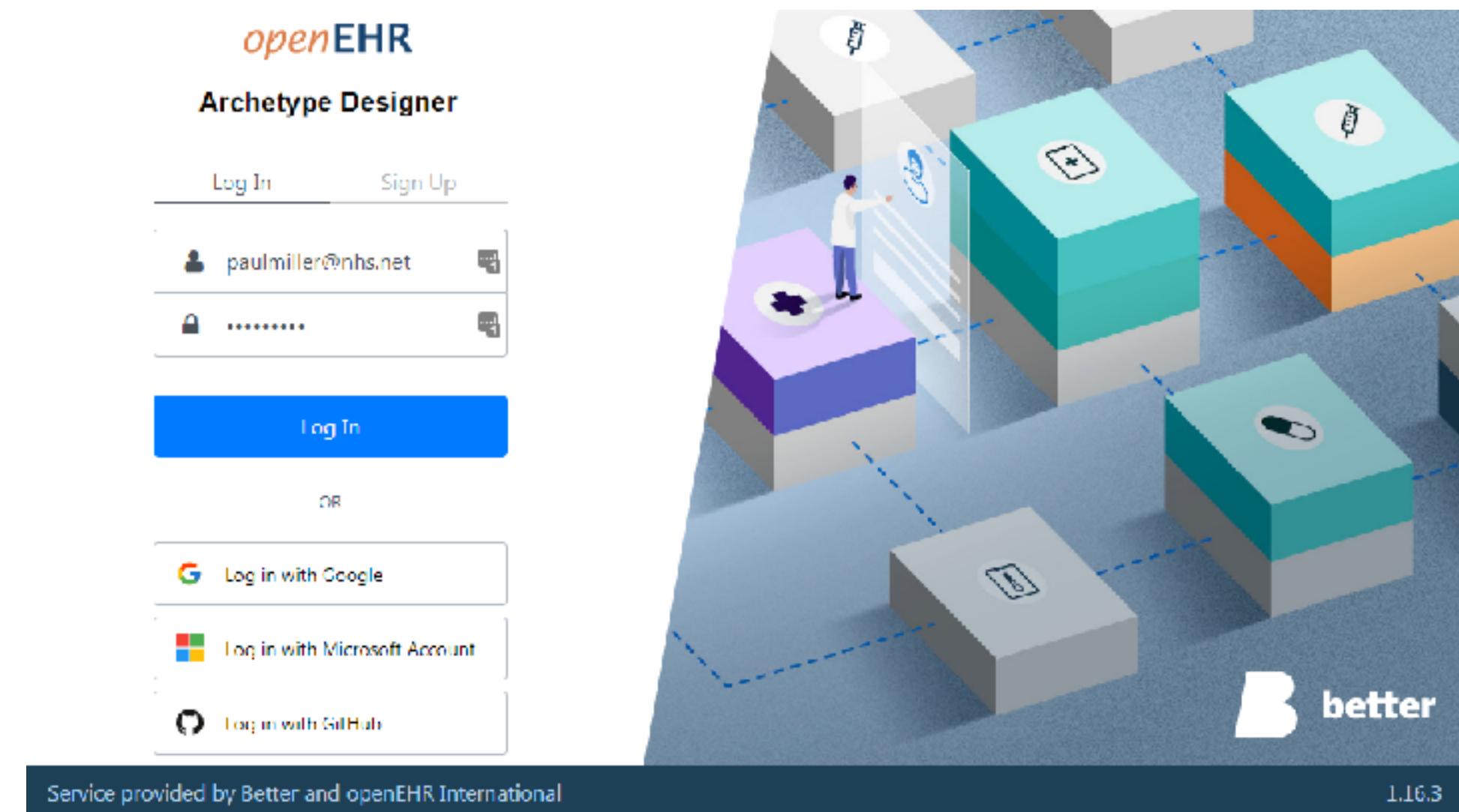
Archetypes

- Behavioural observation audi
- Beighton hypermobility score
- Bishop score (v0)
- Blood pressure (v2)
- Body composition (v0)
- Body mass index (v2)
- Body segment area (v1)
- Body segment circumference
- Body segment length (v1)
- Body surface area (v1)
- Body temperature (v2)
- Body weight (v2)
- Braden scale (v1)
- Briganti Risk Score (v0)
- Bristol stool scale (v0)
- CAGE questionnaire (v0)
- Capillary refill time (CRT) (v1)
- Carer observation (v0)
- CHA2DS2-VASc score (v0)
- CHA2DS2VASc score (v0)
- Chest circumference (v0)
- Child growth indicators (v0)
- Child-Pugh score (v0)
- Childhood Health Assessmen
- Childhood Myositis Assessme
- Children's Global Assessment
- Clinical Frailty Scale (CFS) (v
- Comfort behaviour scale (v0)



Archetype Designer

- <https://tools.openehr.org/designer/#/>
- For creating Archetypes and Templates
- Can store locally / cloud
- Github
- Download from CKM, import to AD
- Export from AD, upload to CKM
- Marand (Better) tool – free to use



Templates

openEHR

Archetype Designer Repositories Save Export Import

open-eREACT EREACT - COVID status.v0 ×

ERACT - COVID status.v0 (openEHR-EHR-COMPOSITION.report.v1)

en

Definition Description Analytics

COVID status monitoring > content > Current COVID Status > data > Problem/Diagnosis name

atCode Details Annotations Rm Attributes

Occurrences Type

Terminology Default value

Code

Constraints Details Annotations Rm Attributes

atCode at0002.1

Occurrences 1..1

Type CODED TEXT

Free text External Coded

External terminology requires terminology and uri.

Terminology SNOMED-CT

Add valueset 1240761000000102 Suspected Covid-19

Edit valueset

Default value

Terminology

Code

COVID status monitoring NAME (from: 'Report')

→ context

→ other_context

T Report ID

T Status

→ content

Current COVID Status NAME (from: 'Problem/Diagnosis')

→ data

T Problem/Diagnosis name △ Values changed

Diagnostic certainty △ Types set changed

→ protocol

⌚ Last updated

Isolation Status NAME (from: 'Service request')

→ activities

ATY Current Activity

→ description

T Service name △ Values changed

T Reason for request △ Values changed

T Reason for isolation NAME (from: 'Reason description')

Complex timing

Use-case dataset

*open*EHR

Create a new template

openEHR

The screenshot shows the open-eREACT application interface. At the top left is a green header bar with the 'open-eREACT' logo. To its right is a tab labeled 'EREACT - COVID status.v0'. Below the header, there's a large green button with a white plus sign and the word 'New'. To the right of this button is a card for 'EREACT - COVID status.v0' with a timestamp 'Last opened 10.11.2020 at 16:06'. A search bar with a magnifying glass icon is positioned above a list of template types. The list includes: Archetype, Template (which is selected and highlighted in orange), Observation, Evaluation, Instruction, Action, Admin entry, Cluster, Section, Composition, Task Plan, Work Plan, Blood pressure, and Body temperature. Each item in the list has a corresponding icon and a brief description below it.

A modal dialog box titled 'Create new template' is displayed. It contains fields for 'Rm Type' (set to 'COMPOSITION'), 'Root Archetype Id' (set to 'openEHR-EHR-COMPOSITION.report.v1'), 'Template Id' (set to 'Covid Care Home report.v0'), and two buttons at the bottom: 'Close' and 'Create'.

Add an archetype

openEHR

The screenshot shows the Archetype Designer interface with two main panes. The left pane displays the 'Covid Care Home report.v0 (openEHR-EHR-COMPOSITION.report.v1)' definition. It includes tabs for Definition, Description, and Analytics. Under the Definition tab, there is a 'Constraints' section with 'atCode' set to 'content' and 'Type' set to 'ATTRIBUTE'. Below this is a 'Mandatory' checkbox. A 'Add archetype' section contains a search bar and a list of available archetypes, with one item highlighted by a red box: 'Body temperature openEHR-EHR-OBSERVATION.body_temperature.v2'. The right pane shows the 'Covid Care Home report.v0 (openEHR-EHR-COMPOSITION.report.v1)' definition in a more detailed view, including sections for Definition, Description, and Analytics. It lists various components like 'Covid Care Home report.v0 > content' and 'Body temperature'. On the far right, there is a sidebar for 'Constraints' and a list of 'Add archetype' options.

'Constrain' the template

openEHR

open-eREACT EREACT - COVID status.v0 Covid Care Home report.v0

Covid Care Home report.v0 (openEHR-EHR-COMPOSITION.report.v1)

Definition Description Analytics

Constraints Details Annotations Rm Attributes

atCode at0004

Occurrences 1..1

Type QUANTITY

Units Cel Set available

Label

Range Min Max 0 60

Assumed value

Limit decimal places 1

Contextual navigation tree:

- ↳ Covid Care Home report.v0 NAME (from: 'Report')
 - ↳ context
 - ↳ other_context
 - T Report ID
 - T Status
 - E Extension
 - ↳ content
 - ↳ Body temperature
 - ↳ data
 - ↳ Any event
 - ↳ Temperature
 - Comment Δ [0..1] to [0..0]
 - ↳ state
 - ↳ protocol

Covid Care Home report.v0 (openEHR-EHR-COMPOSITION.report.v1)

Definition Description Analytics

Constraints Details Annotations Rm Attributes

atCode at0063.1

Occurrences 0..0

Type TEXT

Free text External Coded

Edit values

Default value

Value

Contextual navigation tree:

- ↳ Covid Care Home report.v0 NAME (from: 'Report')
 - ↳ context
 - ↳ other_context
 - T Report ID
 - T Status
 - E Extension
 - ↳ content
 - ↳ Body temperature
 - ↳ data
 - ↳ Any event
 - ↳ Temperature Δ Units and/or magnitude narrowed
 - Comment Δ [0..1] to [0..0] 0..1
 - ↳ state
 - ↳ protocol

Archetype Designer

 paulmiller@nhs.net

Manage, select or create new repositories



Extended search

+ New repository

Repositories Recent

Date opened ↑



Vaccinations (Created by: paulagmiller)



KIS



eACP (Created by: paulagmiller)

...



Tsum (Created by: paulagmiller)

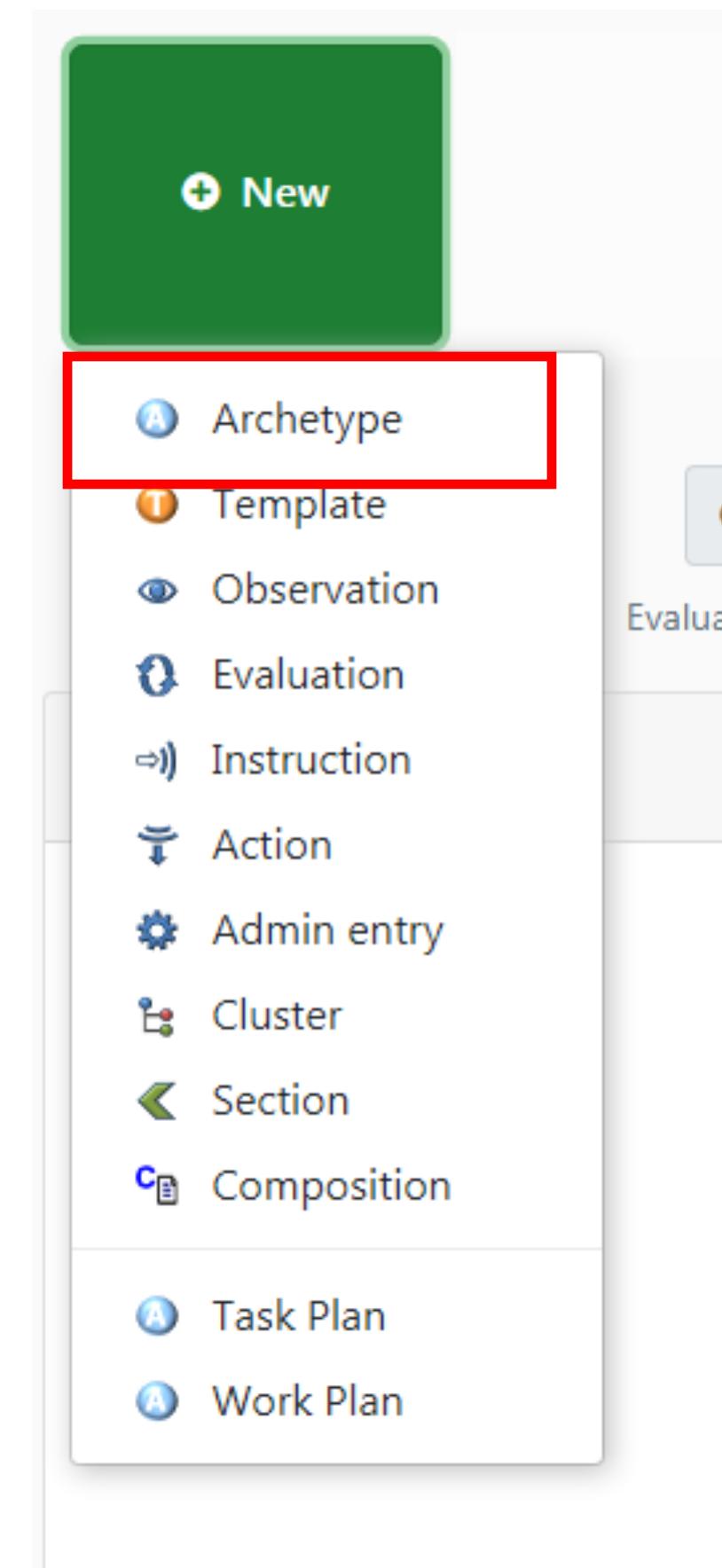


Devices (Created by: paulagmiller)



Labs (Created by: paulagmiller)

v1.16.3



Create new archetype

Archetype id: openEHR ...v0

Rm Type
Click to select...

Concept

Version
0

Original Language
English (en)

Close **Create**

The 'Concept' field is also highlighted with a red box.

Create new archetype

X

Archetype id: openEHR--..v0

Rm Type

Click to select...

EHR

- OBSERVATION
- EVALUATION
- INSTRUCTION
- ACTION
- ADMIN_ENTRY
- CLUSTER
- SECTION
- COMPOSITION
- CARE_ENTRY
- ELEMENT

 New

-  Archetype
-  Template
-  Observation
-  Evaluation
-  Instruction
-  Action
-  Admin entry

Create new archetype

X

Archetype id: openEHR-EHR-OBSERVATION.weightexample.v0

Rm Type

OBSERVATION

Concept

WeightExample

Version

0

Original Language

English (en)

Close

Create

openEHR-EHR-OBSERVATION.weightexample.v0

Tree Mindmap Tabbed ADL Terminology Analytics

WeightExample

WeightExample     

→ data

Any event

→ data

→ protocol

WeightExample > data > Any event > data

WeightExample      

→ data

Any event

→ data

→ protocol



- T
- T 267
- Q
- 1:2
- 1:2 3
- 1:1
- 1:1 2
- 1:1 3
- 1:1 4
- 1:1 5
- 1:1 6
- 1:1 7
- 1:1 8
- 1:1 9
- 1:1 10
- 1:1 11
- 1:1 12
- 1:1 13
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Archetype Designer Repositories **Save**  Export Import

WorkshopDay * A openEHR-EHR-OBSERVATION.weightexample.v0 

 [openEHR-EHR-OBSERVATION.weightexample.v0](#)

Tree Mindmap Tabbed ADL Terminology Analytics

WeightExample > data > Any event > data > Weight

- ⊖ **WeightExample**
- ⊖ → data
- ⊖ **Any event**
- ⊖ → data
 - ⊖ **Weight**      
- protocol

Constraints Details Annotations Rm Attributes

Path: 0002]/data[at0003]/items[at0004]

Occurrences: 0..1

Type: QUANTITY 

Runtime constraints: Not set (Click to edit)

Available types: 

Types: Quantity

Units: cm  

Label:

Range: Unbound

Assumed value:

Limit decimal places:

Better Studio

- CDR utility
 - Form-builder
 - AQL Builder

The screenshot displays two main components of the Better Studio interface:

- Form-builder:** On the left, a tree view shows the structure of a form template named "DHI - Urology_PROMs-v0". The template includes sections for "Prostate cancer PROMs report", "What matters to me", "howRU score", and "EORTC QLQ-C30". The "what matters to me" section contains a dropdown labeled "What matters to me" with options like "Pain or discomfort", "Feeling low or worried", "Limited in what I can do", and "Dependent on others". The "howRU score" section has a dropdown labeled "Pain or discomfort" with options "Pain or discomfort", "Feeling low or worried", "Limited in what I can do", and "Dependent on others". The "EORTC QLQ-C30" section has a dropdown labeled "Any event" with options "Trouble doing strenuous activities", "Trouble taking a long walk", and "Trouble taking a short walk outside of the house". The right side of the screen shows the "Design" tab of the form builder, displaying various configuration options for fields such as "Label", "Field", "Readonly", "Hidden", "Presentation", "Multiplicity", "Size", and "Layout".
- AQL Builder:** On the right, a window titled "NCD-Generic Patient Encounter.v0" shows an AQL query. The query retrieves data from the EHR database, specifically focusing on vital signs (Heart rate, Blood pressure, Body temperature, Oxygen saturation) and body measurements (Weight, Height, BMI, Glucose result). The results are displayed in a table at the bottom, showing 10 rows of data. The table columns include compositionId, compositionName, magnitude, and systolic.

#	compositionId	compositionName	magnitude	systolic
1	7b20dc2b-6494-467d-8986-467367f2c75b:4ccce5a07-be4d-4318-a94f-3b8401853a20::1	Passport observations	169	169
2	3d84653f-c211-464b-baee-83ff626d0b6bc4ccce5a07-be4d-4318-a94f-3b8401853a20::1	Passport observations	169	169
3	eaa1da4b-ea92-4933-ac25-65184bcd17cc4ccce5a07-be4d-4318-a94f-3b8401853a20::1	Passport observations	110	110
4	ae04cf64-4d75-4742-9c44-3ff2b8a2e9fd:4ccce5a07-be4d-4318-a94f-3b8401853a20::1	NCD - first visit	99	99
5	ae04cf64-4d75-4742-9c44-3ff2b8a2e9fd:4ccce5a07-be4d-4318-a94f-3b8401853a20::1	NCD - first visit	169	169

Practical session

<https://freshehr.github.io/training/>

The screenshot shows a web browser window with the URL <https://freshehr.github.io/training/> in the address bar. The page title is "openEHR Practical Modelling Examples". On the left, there's a sidebar with links for "openEHR Practical Modelling Examples" and "openEHR modelling practical". The main content area has a heading "openEHR modelling practical" followed by a "Getting started" section with a numbered list of steps. To the right, there's a "Table of contents" sidebar with several items listed under "Getting started".

openEHR modelling practical

Getting started

1. Open a web browser – Chrome or Firefox are best
2. Go to <https://tools.openehr.org/designer> (Best if you open this link in a new tab).
3. Login: freshehr_training Password: ad4freshertraining
4. Choose the repository allocated to you – Aberdeen, Dundee or Inverness
5. Find 'Nursing Admission Assessment STARTER.v0' in the list of templates. This will open the template.
6. Open the original 'Nursing Admission Assessment paper form' (Best if you open this link in a new tab).

A. Tidy the basic template

Problem/Diagnosis

- Rename the Problem/Diagnosis archetype to 'Main Diagnosis'
- Constrain out everything apart from 'Problem/Diagnosis name'

Table of contents

Getting started

A. Tidy the basic template

Problem/Diagnosis

Adverse Reaction Risk

Medication Order

Vital Signs section

Add a Clinical Frailty scale

B. Create a new local archetype - Additional information on admission