2020-11-16 - OBSERVABLE Meeting

Date and time

2020-11-16 20.00 UTC

Zoom Details

https://snomed.zoom.us/j/992630241

Attendees

Monica Harry Farzaneh Ashrafi Sarah Harry Monique van Berkum Daniel Karlsson
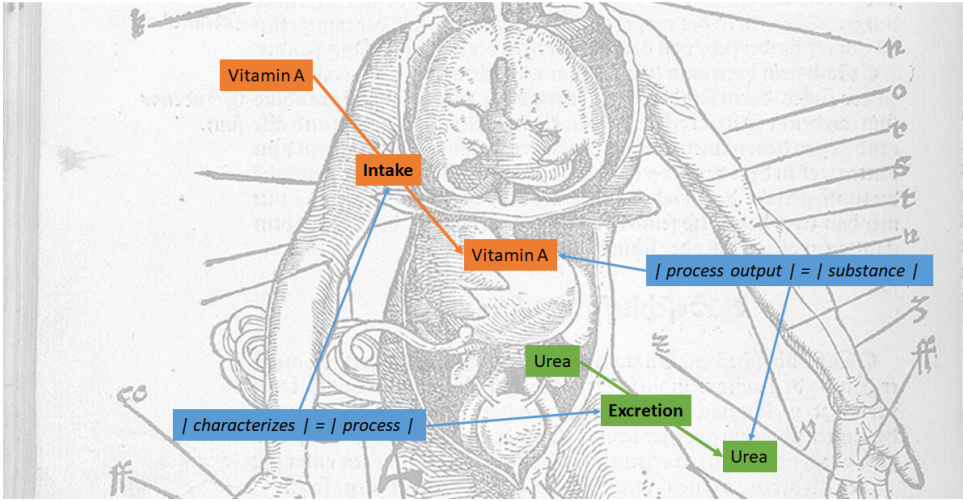
Apologies

Suzanne Santamaria

Objectives

Discuss and make progress on these issues:

Discussion items

See below.

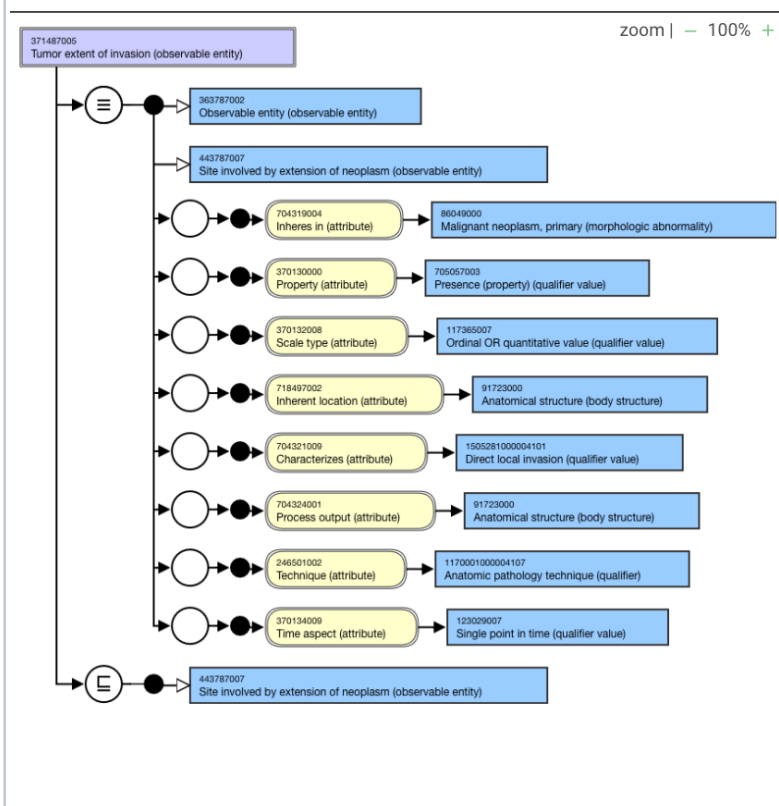| Item	Description	Owner	Notes	Action
1	Welcome & apologies	Daniel Karlsson	Remember recording!	
2	Conflicts of interest	Daniel Karlsson	None stated	
3	Minutes from previous meeting	Daniel Karlsson		
4	Evaluation procedures	Sarah Harry Daniel Karlsson	Evaluation procedures to Observables (E2O) transfer evaluation - A summary of the meeting was presented - Farzaneh Ashrafi make sure that any issue regarding the agreement is addressed	
5	Observables Editorial Guide	Daniel Karlsson Suzanne Santamaria	A review of existing Editorial Guide for Observables is due. Some pages seem dated. Comments to pages are done in a Google Doc here. - Sarah Harry terming guidelines needs updating - Many pages seem dated, e.g. Relationship between Observable Entities and NPU codes, Representing LOINC Terms with the SNOMED CT Observable Entity Model, Test Observable Entity Naming Conventions - Wording of guidelines could be lighter on the jargon - Examples from existing Observables as well as from the LOINC tech preview could be added - Process for approval of changes discussed	☑ Da Go co

6	Mental Function observables	X	Piper Allyn Ranallo is doing a mental health clean up based on Mental & Behavioral CRG work - she has submitted some requests for editing and applying the observable entity model to existing content: 285231000 |Mental function (observable entity)|, 8373002 |Nervous system function (observable entity)|, 4065008 |Affect, function (observable entity)|311465003 |Cognitive functions (observable entity)|. Need advice on applying the model to these function observables.	Daniel Ka Amos and James R. discussio process h

Hello Daniel and Suzanne

I have now received a reply from Piper to Daniel's questions:
https://prod-request.ihtsdotools.org/#/requests/preview/745434?kb
The new comment is:
Hi Nicki, Regarding the relationship between functions --

- both mental and cognitive functions are specific kinds of central nervous system (CNS) functions.
- Motor functions and sensory functions are specific kinds of nervous system functions, with some motor and sensory functions inhering only in the PNS (peripheral nervous system). others inhering in only the CNS, and others inhering in both the PNS and CNS.
- A cognitive function is generally thought to be a more specific kind of mental function, although I don't know whether there's a clear consensus among scientists about how to unambiguously define the line between a mental and a cognitive function. In general, most scientists describe a cognitive functions as higher level, or more complex, mental function -- functions related to things like consciousness.
- 'Executive cognitive functions' are an even more specific (i.e., more complex, higher level) kind of cognitive function that includes reasoning, memory, attention, etc.
- The relationship between cognitive and intellectual function is unclear to me. An intellectual function may be synonymous w executive cognitive functions. I just don't know.
- Regarding the body structure in which the functions inhere - we'll need to look in more detail at the literature and consult with cognitive neuroscience experts.
- Regarding the process that the functions realize, we will need to work on defining that more specifically.
- In terms of modeling these concepts, one thing that is unclear to us is the distinction between processes in the qualifier hierarchy and processes in the observable hierarchy.
- Another question we have relates more generally to different needs for modeling mental and behavioral phenomena (v. biological phenomena). While biological phenomena can be meaningfully defined in terms of body structures and physiologic processes, most mental, behavioral, and social phenomena are more appropriately defined in terms of functional systems that may or may not have clearly defined biological underpinnings. This is a topic that MBH-CRG would like to explore with the folks working on the Observable and Investigation Model Project. Thanks you, Piper

2020-04-20:

Daniel Karlsson participated on MBHCRG call 2020-04-08. A central issue is two aspects of mental function observables, e.g. Folstein MMT asks about the current date, but the function studied is the ability to orient in time. The raw value is a date, but the clinical value is about function. Observables preferably should allow representation of both aspects.

2020-06-15:

Need for clarification of what "function" means in function observables.

Other MBHCRG issues.

2020-07-20:

James R. Campbell presented a hierarchy of "neuropsychological" processes. We agreed to contact the MBHCRG through the liaison Paul Amos to start getting agreement on such a hierarchy, likely to be a central piece in definition of MBH observables.

2020-08-17:

With participation from the Mental and Behavioural Health CRG, James R. Campbell presented the neuropsychological processes. Piper Allyn Ranallo asked the group how to progress the work that MBHCRG needs to do to better define both Clinical findings and Observables in the MBH space. One concern is the demarcation of process observables on the one hand and process qualifier values on the other. Due to a large legacy of existing not always well-represented Observables, trying to make sense of the current MBH observables is likely not a worthwhile effort. It was suggested to focus on use cases that need to be represented in SNOMED and then see what concepts are needed both to define Observables and Clinical findings and to allow those respective hierarchies to reflect the intended meaning.

7	Dentistry observables	Daniel Karlsson	At a Dentistry CRG meeting 2020-08-05 it was requested that the Observables PG discussed observables for count of teeth with caries of various types (active and arrested particularly), likely children of 251319000	Decayed tooth count (observable entity) |. See Dentistry page.	☐ Da us LC

Discussion will be held next call (2020-09-21)!

2020-09-21:

Slides on use of component for defining count of carious teeth: https://docs.google.com/presentation/d/10t0zEBwtR5-RpUN4nAwS281HZdsavecZ5aXS4RufnfM/edit?usp=sharing

Definitions both in the Observables model and Evaluation procedure model needs to aligned and updated.

8	Target observables	Daniel Karlsson	The issue of representation of target observables has been raised again in a Jira ticket.		Su Jir ob
			The question the group needs to answer is whether targets and observables need to be seperated or to be kept apart. In practice, is there a requirement to query for both observables and "settings" alternatively is there a risk in having targets and observations mixed up?		
			One solution would be to (minimally) add a primitive parent "setting observable" (or just "setting") to all targets, settings, parameters, etc. in the current observables hierarchy.		
			2020-09-21:		
			Suzanne Santamaria shared with the nutrition group, will share with Jim Case		
			2020-11-16:		
			Release of content postponed to July 2021.		
9	Process observable attributes	X	The use of attribute	process output	for intake observables is at least mildly confusing. Is there a need for updated guidance or clarification?		
			2020-02-24:		
			Guidance needs clarification. This particular attribute is difficult to explain and often needs re-explaining(!). Alternatives	process target	?		
			2020-03-16:		
			Check existing use of the attribute in the SNOMED release as well as in the LOINC linking results.		
			2020-04-20:		

Deadline for MRCM changes has passed, so more time is available for analysis. All LOINC expressions with | process output | are also | characterizes | = | excretory process |. The other | process output | Observables are <<364075005 | Heart rate (observable entity) and <<86290005 | Respiratory rate (observable entity) |.

2020-05-18:

Use case from histopathology: representation of invasion.

[Slides](#)

2020-06-15:

Update of range of | process output | to include Products.

2020-07-20:

[Slides](#) updated. Use cases presented compared to other ontology work, primarily the Relations Ontology of BFO. The use case from CSRPG (specifying the anatomic structure into which a neoplasm has proliferated) seems not to be supported by any single attribute. Recommendation is to use | process output | until this issue is resolved and a batch update can be made.

2020-09-21:

(More than) Time to decide on new attributes: https://docs.google.com/presentation/d/1zdM5Ld4H74GCmelaH0K1a5DlnK7ETSQpVFezgpdUEDY/edit?usp=sharing

| 10 | Next meeting | Daniel Karlsson | Next meeting is 2020-12-14 20.00UTC |
| 11 | AOB | Daniel Karlsson | |

Meeting Files

File	Modified
PNG File process_output.png	2020-Oct-19 by Daniel Karlsson
PNG File image2020-2-13_14-31-40.png	2020-Oct-19 by Daniel Karlsson
Microsoft Word Document Observable_EG_comments.docx	2020-Nov-13 by Daniel Karlsson

[Download All](#)

Recordings

Previous Meetings

Title	Creator	Modified
E2O meeting 20220825	Daniel Karlsson	2022-Aug-25
2022-05-23 - OBSERVABLE Meeting	Daniel Karlsson	2022-May-24
E2O meeting 20220504	Daniel Karlsson	2022-May-05
2022-04-25 - OBSERVABLE Meeting	Daniel Karlsson	2022-Apr-26
2022-04-06 - OBSERVABLE Face-to-face Meeting	Daniel Karlsson	2022-Apr-25
2022-03-21 - OBSERVABLE Meeting	Daniel Karlsson	2022-Mar-31
E2O 23rd meeting 20220223	Daniel Karlsson	2022-Feb-23
2022-02-21 - OBSERVABLE Meeting	Daniel Karlsson	2022-Feb-22
E2O 22st meeting 20220202	Daniel Karlsson	2022-Feb-02
2022-01-24 - OBSERVABLE Meeting	Daniel Karlsson	2022-Jan-24
2021-12-20 - OBSERVABLE Meeting	Daniel Karlsson	2021-Dec-20
2021-11-15 - OBSERVABLE Meeting	Daniel Karlsson	2021-Dec-16

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