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Devices Project Update for EAG

Toni Morrison and Suzanne Santamaria
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Background

- Long history of discussing devices at SNOMED CT
- Device hierarchy problematic; no editorial guidelines
- Devices PG meeting since ~2016
- April 2019 Business Meeting: charge to develop WG, prepare proof of concept and proposal for work
- Use cases for work
 - Support clinical care
 - Support internal SNOMED modeling and maintenance
 - Support regulatory responsibility

Current Status

- Devices WG formed in May 2019 and started meeting regularly
 - External representation: ARG, AU, NZ, UK, US
 - Internal representation: MHA, SSA, TMO
- Developing proof of concept
 - Drafting organizing principles
 - Drafting text definitions for terms
 - Modeling content in two areas (breast implants: n~12, shunts: n~17) with attributes
 - Drafting editorial guidelines
 - Establishing process for working through hierarchy
- Delivered Briefing Note to MF on the work
- Developing proposal for future work
- Preparing for October 2019 Business Meeting

Modeling example: Breast implant concept

Saline-filled smooth breast implant (physical object)

769177007 Saline-filled smooth breast implant (physical object)

464376000 Saline-filled breast implant (physical object)

788372009 Surface structure (attribute) → 82280004 Smooth (qualifier value)

766939001 Plays role (attribute) → 788713009 Prosthetic role (role)

788361004 Site of device (attribute) → 76752008 Breast structure (body structure)

788373004 Filling (attribute) → 387390002 Sodium chloride (substance)

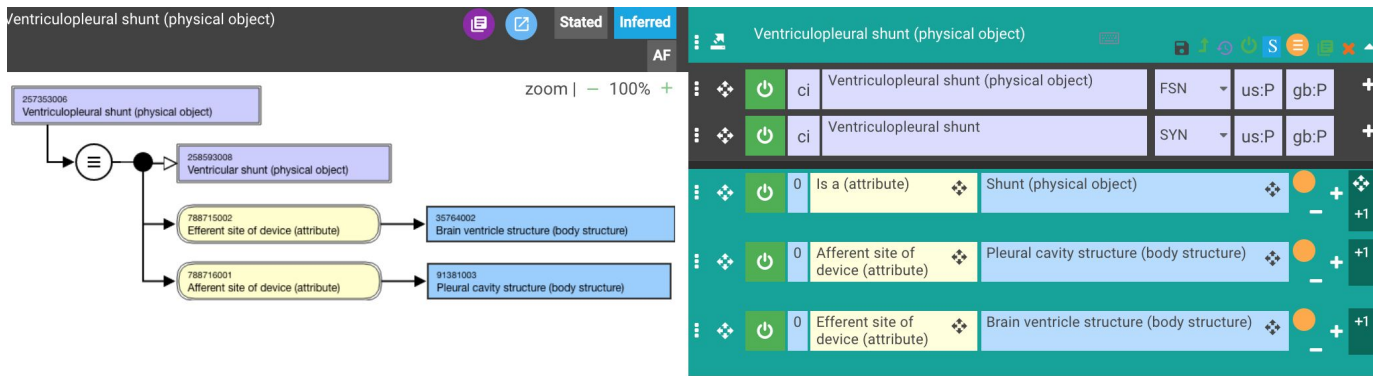
Saline-filled smooth breast implant (physical object)

ci	Saline-filled smooth breast implant (physical object)	FSN	us:P	gb:P	+
ci	Saline-filled smooth breast implant	SYN	us:P	gb:P	+
0	Is a (attribute)	Implant, device (physical object)			+1
0	Filling (attribute)	Sodium chloride (substance)			+1
0	Site of device (attribute)	Breast structure (body structure)			+1
0	Surface structure (attribute)	Smooth (qualifier value)			+1

Additional Axiom

0	Is a (attribute)	Implant, device (physical object)			+1
0	Plays role (attribute)	Prosthetic role (role)			+1

Modeling example: Shunt concept



Challenges

- Developing text definitions for terms (base/grouper, top level)
 - No authoritative terminology or standard exists
 - Definitions differ by organization
- Deciding which attributes are in/out of scope
- Developing text definitions and names for attributes
- Ambiguous and outdated content
- Limited resource allocations

Links to further information

Devices Project page on Confluence

- <https://confluence.ihtsdotools.org/display/IAP/Devices+Project>

Devices JIRA tickets

- <https://jira.ihtsdotools.org/projects/DEVICES/issues/DEVICES-92?filter=allissues>

