

Change request

Measurement Method

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Dataset release	2023.1	Consulted expert	-

1 Change request input / rationale

For the Blood Pressure concept, the value set for the measurement method is defined as SNOMED CT codes child of: 716777001 | Hemodynamic monitoring (regime/therapy) | or child of: 46973005 |Blood pressure taking (procedure)|". Both of these SNOMED CT concepts aren't descendants of the SNOMED CT concept 122869004 |Measurement procedure (procedure)|, which breaks the semantics chain, i.e. quality checks will not be possible without implementing exceptions. Therefore, the following is requested:

Change the specification of the value set for Measurement Method to a higher concept in SNOMED CT which incorporates 46973005 |Blood pressure taking (procedure)| and 122869004 |Measurement procedure (procedure)|. This can be the concept 128927009 |Procedure by method (procedure)|.

2 Comparison to other standards/data models

Not applicable.

3 Change content

3.1 Currently released concept

Concept name	Description	Type	Standard	Value set	Meaning binding SNOMED CT
Measurement Method	procedure used to measure an amount, quantity, size, level, extent, or magnitude, resulting in an qualitative or quantitative value				122869004 Measurement procedure (procedure)
code	code, name, coding system and version assigned to the procedure used for measurement	Code	SNOMED CT	child of : 122869004 measurement procedure (procedure)	

3.2 Proposed new concept

Concept name	Description	Type	Standard	Value set	Meaning binding SNOMED CT
Measurement Method	procedure used to measure an amount, quantity, size, level, extent, or magnitude, resulting in an qualitative or quantitative value				128927009 Procedure by method (procedure)
code	code, name, coding system and version assigned to the procedure used for measurement	Code	SNOMED CT	descendant of : 128927009 Procedure by method (procedure)	

4 Pros and cons

4.1 Advantages

The new value set definition allows for proper quality checks and mechanisms for inference for Blood Pressure data.

4.2 Disadvantages

None.

5 Impact and effort

5.1 Impact on SPHN Dataset

None.

5.2 Impact on SPHN RDF Schema

The value set allowed for the class MeasurementMethod is broadened resulting in a change in the owl:Restriction.

6 Discussion

As the value set changes the meaning binding should change as well accordingly.