

Referentiesets, mappings & ZIBs

Elze van Puijvelde – de Groot

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Nictiz  Better health through
better information





Wat zijn referentiesets?

Subsets van Snomed

- Simpele referentiesets lijst van concepten
- Taalreferentiesets geldige beschrijvingen binnen een taalgebied
- Mapping-referentiesets afleidingen naar andere terminologiestelsels
- Historische associaties verbanden tussen inactieve & vervangende concepten

Snomed e-Learning & documentatie:

- Subsets - creation, distribution and use - <https://elearning.ihtsdotools.org/mod/scorm/view.php?id=926>
- Reference sets overview - <https://elearning.ihtsdotools.org/mod/scorm/view.php?id=1613>
- Practical guide to reference sets - <http://snomed.org/refsetpg>

Simpele referentiesets

Simpele referentiesets

- Extensioneel
 - handmatige 'pick list' van concepten
- Intensioneel (of query specification)
 - concepten die voldoen aan een bepaalde beschrijving
 - Bv. 'alle subtypen van 406455002 |allergeen (substantie)|'

Wat is een mapping?

Map

The relationship between a code, concept or term in one code system so that it is represented by a code(s), concept(s) or term(s) in another code system.

Mapping

The Process of defining a relationship between each code, concept or term in one code system to a set of code(s), concept(s) or term(s) in another code system, in accordance with a documented rationale, for a given purpose.

Soorten mappings

1 op 1

1 sourcecode is gekoppeld met 1 maptarget **Simpele mappingrefset**

1 op N

1 sourcecode is gekoppeld met meerdere maptargets

N op 1

meerdere sourcecodes zijn gekoppeld aan dezelfde maptarget

N op N

meerdere sourcecodes zijn gekoppeld aan dezelfde maptarget

1 sourcecode is gekoppeld met meerdere maptargets

Complexe mappingrefset



Simple mappingrefset

A [Simple map reference set](#) is a [String reference set](#) used to represent one-to-one maps between SNOMED CT concepts and codes in another terminology, classification or code system. Its structure is shown in the following table.

Table 5.2.9-1: Simple map reference set - Data structure

Field	Data type	Purpose	Mutable	Part of Primary Key
id	UUID	A 128 bit unsigned Integer , uniquely identifying this reference set member . Different versions of a reference set member share the same id but have different effectiveTime . This allows a reference set member to be modified or made inactive (i.e. removed from the active set) at a specified time.	NO	YES (Full /Snapshot)
effectiveTime	Time	The inclusive date or time at which this version of the identified reference set member became the current version. The current version of this reference set member at time <i>T</i> is the version with the most recent effectiveTime prior to or equal to time <i>T</i> .	YES	YES (Full) Optional (Snapshot)
active	Boolean	The state of the identified reference set member as at the specified effectiveTime . If active = 1 (true) the reference set member is part of the current version of the set, if active = 0 (false) the reference set member is not part of the current version of the set.	YES	NO
moduleId	SCTID	Identifies the SNOMED CT module that contains this reference set member as at the specified effectiveTime . The value must be a subtype of 900000000000443000 Module (core metadata concept) within the metadata hierarchy.	YES	NO
refsetId	SCTID	Identifies the reference set to which this reference set member belongs. In this case, a subtype descendant of: 900000000000496009 Simple map type reference set	NO	NO
referencedComponentId	SCTID	A reference to the SNOMED CT component to be included in the reference set . Refers to the SNOMED CT concept that is mapped to and/or from the other terminology or code system.	NO	NO
mapTarget	String	The equivalent code in the other terminology, classification or code system.	YES	NO



Welke simpele mappingrefsets zijn er

GMDN – SNOMED CT

Elke GMDN-code is 1 op 1 gekoppeld met een SNOMED CT concept

ICD-O – SNOMED CT

Elke ICD-O-code is 1 op 1 gekoppeld met een SNOMED CT concept

ICNP – SNOMED CT

Interventies en problemen

Elke ICNP-code is 1 op 1 gekoppeld met een SNOMED CT concept

Complex mapping refset



Table 5.2.10-1: Complex and Extended map reference sets - Data structures

Field	Data type	Purpose	Mutable	Part of Primary Key
id	UUID	A 128 bit unsigned <i>Integer</i> , uniquely identifying this <i>reference set member</i> . Different versions of a <i>reference set member</i> share the same <i>id</i> but have different <i>effectiveTime</i> . This allows a <i>reference set member</i> to be modified or made <i>inactive</i> (i.e. removed from the active set) at a specified time.	NO	YES (Full /Snapshot)
effectiveTime	Time	The inclusive date or time at which this version of the identified <i>reference set member</i> became the current version. The current version of this <i>reference set member</i> at time <i>T</i> is the version with the most recent <i>effectiveTime</i> prior to or equal to time <i>T</i> .	YES	YES (Full) Optional (Snapshot)
active	Boolean	The state of the identified <i>reference set member</i> as at the specified <i>effectiveTime</i> . If <i>active</i> = 1 (true) the <i>reference set member</i> is part of the current version of the set, if <i>active</i> = 0 (false) the <i>reference set member</i> is not part of the current version of the set.	YES	NO
moduleId	SCTID	Identifies the <i>SNOMED CT module</i> that contains this <i>reference set member</i> as at the specified <i>effectiveTime</i> . The value must be a <i>subtype</i> of 900000000000443000 <i>Module (core metadata concept)</i> within the metadata hierarchy.	YES	NO
refsetId	SCTID	Identifies the <i>reference set</i> to which this <i>reference set member</i> belongs. In this case, a <i>subtype</i> descendant of: 447250001 <i>Complex map type reference set</i> or 609331003 <i>Extended map type reference set</i>	NO	NO
referencedComponentId	SCTID	A reference to the <i>SNOMED CT component</i> to be included in the <i>reference set</i> . Refers to the <i>SNOMED CT concept</i> that is mapped to the other terminology or code system.	NO	NO
mapGroup	Integer	An <i>Integer</i> , grouping a set of complex map records from which one may be selected as a <i>target code</i> . Where a <i>SNOMED CT concept</i> maps onto 'n' <i>target codes</i> , there will be 'n' groups, each containing one or more complex map records.	YES	NO
mapPriority	Integer	Within a <i>mapGroup</i> , the <i>mapPriority</i> specifies the order in which complex map records should be checked. Only the first map record meeting the run - time selection criteria will be taken as the <i>target code</i> within the group of alternate codes.	YES	NO
mapRule	String	A machine-readable rule, (evaluating to either 'true' or 'false' at run-time) that indicates whether this map record should be selected within its <i>mapGroup</i> .	YES	NO
mapAdvice	String	Human-readable advice, that may be employed by the software vendor to give an end-user advice on selection of the appropriate <i>target code</i> from the alternatives presented to him within the group.	YES	NO
mapTarget	String	The <i>target code</i> in the target terminology, classification or code system.	YES	NO
correlationId	SCTID	A <i>child</i> of 447247004 <i>SNOMED CT source code to target map code correlation value</i> in the metadata hierarchy, identifying the correlation between the <i>SNOMED CT concept</i> and the <i>target code</i> .	YES	NO
<i>The following additional field only applies to 609331003 Extended map type reference set </i>				
mapCategoryId	SCTID	Identifies the <i>SNOMED CT concept</i> in the metadata hierarchy which represents the <i>MapCategory</i> for the associated map member. The categories vary for different <i>target code</i> systems, each set of categories is represented by a <i>subtype</i> of 609330002 <i>Map category value</i> . In the case of ICD-10 the individual category values are <i>subtypes</i> of: 447624004 <i>ICD-10 map category value</i>	YES	NO

Correlated mapping

● SNOMED CT source code to target map code correlation value (foundation metadata concept) ☆ ↗

SCTID: 447247004

447247004 | SNOMED CT source code to target map code correlation value (foundation metadata concept) |

en SNOMED CT source code to target map code correlation value (foundation metadata concept)

en SNOMED CT source code to target map code correlation value

No attributes

Children (6)

- ● Broad to narrow map from SNOMED CT source code to target code (foundation metadata concept)
- ● Exact match map from SNOMED CT source code to target code (foundation metadata concept)
- ● Narrow to broad map from SNOMED CT source code to target code (foundation metadata concept)
- ● Partial overlap between SNOMED CT source code and target code (foundation metadata concept)
- ● SNOMED CT source code not mappable to target coding scheme (foundation metadata concept)
- ● SNOMED CT source code to target map code correlation not specified (foundation metadata concept)

Correlated map reference set

Betere gezondheid
door betere informatie



Nanda mapping

xder2_scRefset_CorrelatedMapTypeReferenceSet_Snapshot_20170930 - Notepad

id	effectiveTime	active	moduleId	refsetId	referencedComponentId	mapTarget	snomedCtSourceCodeToTargetMapCodeCorrelationValue
069c895e-5915-32e2-a36a-f7612855eaa8	20170930	1	11000146104	31451000146105	26416006	00189	447558009
07b60d2c-21fc-278f-5672-423e11c2c4d7	20170930	1	11000146104	31451000146105	247592009	00131	447558009
080a9489-f304-528f-fb1d-99db1c8de1cc	20170930	1	11000146104	31451000146105	284905001	00110	447558009
087e9252-c976-d7e7-222d-8cbdeeebc20f	20170930	1	11000146104	31451000146105	72440003		447556008
0bbd9d1d-3884-e72f-4530-f07531b832aa	20170930	1	11000146104	31451000146105	2073000	447556008	
0df1373f-eed8-c91a-dfca-2c184245a05f	20170930	1	11000146104	31451000146105	29164008		447556008
0f1007e1-b504-8243-7f2c-b93d53840550	20170930	1	11000146104	31451000146105	247632002		447556008
11c7d96f-94b4-dd26-fa92-93c5254eb83a	20170930	1	11000146104	31451000146105	274663001	00132	447557004
126761b6-c82d-c124-3764-71d4bcc6c963	20170930	1	11000146104	31451000146105	303387009	00085	447558009
131764b2-4ac5-8c59-f4a9-8f18a452c0fe	20170930	1	11000146104	31451000146105	23935006	00097	447557004
1396b72b-c7ec-7822-b519-58d678ada55a	20170930	1	11000146104	31451000146105	714663007	0062	447557004
14a86246-5a73-1dff-e876-e18d0692f2d5	20170930	1	11000146104	31451000146105	248325000	00002	447557004
1a09cbdd-1a68-b8ff-edec-5b90cdc45394	20170930	1	11000146104	31451000146105	224965009	00136	447557004
1b9bef96-a98a-6ff7-f4e2-59f03d2898f3	20170930	1	11000146104	31451000146105	111360009	00011	447557004
1d20ffba-5887-9865-95aa-1ad7676fe53a	20170930	1	11000146104	31451000146105	24199005		447556008
1f469afd-0283-502b-7f3d-b0154048d951	20170930	1	11000146104	31451000146105	705044006	00061	447557004
1f9291fe-87c2-6a4e-2ed0-c62b9de7ea55	20170930	1	11000146104	31451000146105	285038001	0078	447558009
2097685a-730e-c8a3-acb2-8b914c302d1f	20170930	1	11000146104	31451000146105	228148009		447556008
2366f3c9-eb1f-6f6f-2d7a-1e747b41831e	20170930	1	11000146104	31451000146105	18963009	00241	447557004
252e858f-2df3-9a17-1b00-a1ac6bdc2ed6	20170930	1	11000146104	31451000146105	284972002	00109	447557004
25ae1c29-26e4-8357-ab83-081d1e7582b0	20170930	1	11000146104	31451000146105	425022003		447556008
2d9227b4-1bed-4907-0b37-835b859e415d	20170930	1	11000146104	31451000146105	262526004	00044	447558009
31234b45-b18e-c0e3-82b4-0a780ab2aa13	20170930	1	11000146104	31451000146105	285304000	00249	447557004
323cb46d-2651-57e0-3cbc-d44bf98272f5	20170930	1	11000146104	31451000146105	422587007	00134	447557004
35d65aeb-4b5d-0ee8-7252-8bd884b8c32f	20170930	1	11000146104	31451000146105	89765005	00190	447558009
39369ffb-71d9-0f7a-0eac-6b30b7762926	20170930	1	11000146104	31451000146105	22253000		447556008
398c80da-b4f6-0411-73e6-5199cf3b5120	20170930	1	11000146104	31451000146105	248342006		447556008
3aab310a-7cfd-6663-a676-6f7197413169	20170930	1	11000146104	31451000146105	50177009	00007	447557004
3b86e75b-3d40-1213-6afd-445da1edaf0b	20170930	1	11000146104	31451000146105	20573003	00032	447557004
3e766091-fec3-5736-7dbd-8eb6a14221a7	20170930	1	11000146104	31451000146105	267076002	00053	447557004
43e632a6-f49c-f9da-5e6e-aec15ea460e2	20170930	1	11000146104	31451000146105	62476001		447556008
49183868-ab2f-2e2b-7d83-45721ebf5983	20170930	1	11000146104	31451000146105	199312002	00227	447558009
4b0f7eaa-d5a9-96c1-d2f4-1c84992bef7b	20170930	1	11000146104	31451000146105	43116000	00046	447558009
4c887e56-bbe8-5106-b84a-9181e30c200d	20170930	1	11000146104	31451000146105	129839007	00155	447557004
4d2efcd4-298e-fc3b-0569-f5344ed8aeb4	20170930	1	11000146104	31451000146105	288638001	00051	447558009
4dc30700-e68d-3b79-4c76-3be9679cd9e9	20170930	1	11000146104	31451000146105	286457005	00098	447558009
4f5bf953-e7de-1ac0-73ba-ab23b76aa653	20170930	1	11000146104	31451000146105	129698004	00054	447557004
515486aa-69e1-4d49-417d-3f11aeb67a41	20170930	1	11000146104	31451000146105	267036007	00032	447558009
5262092e-771a-3170-4c0a-63950d853004	20170930	1	11000146104	31451000146105	18085000	00188	447558009
53801aba-8663-23ad-281b-a757738d317c	20170930	1	11000146104	31451000146105	12561000146105	00078	447560006

Map to
Nanda
refset ID

Snomed
ID

Nanda
code

Correlation
value

Extended map reference set

Betere gezondheid
door betere informatie



Omaha en ICF mapping

Map to Omaha/ICF refset ID
Snomed ID
Omaha/ICF code
Correlation value
Qualifier

xder2_sccRefset_CorrelatedExtendedMapTypeReferenceSet_Snapshot_20170930 - Notepad

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id	effectiveTime	active	moduleId	refsetId	referencedComponentId	mapTarget	snomedCtSourceCodeToTargetMapCode	CorrelationValue	mapTargetQualifier	
01d6c92e-3cf2-df08-f92f-516474af1919			20170930	1	11000146104	32311000146108	22253000	24	447557004	31511000146105
060220a6-7c6d-651d-0828-5188be33bb37			20170930	1	11000146104	32311000146108	7653001	447556008		{"conceptId": "", "defaultTerm": ""}
072f8bd3-7333-238d-8fdd-b70c45d0e154			20170930	1	11000146104	32321000146103	247592009	b1440	447557004	31491000146103
07a6d3f7-f00a-8274-5136-5c75e6e91dd9			20170930	1	11000146104	32311000146108	714884000	2713	447557004	31511000146105
08ab22f9-3feb-5cf6-5d0e-a4ffd7921d6a			20170930	1	11000146104	32311000146108	285304000	26	447558009	31501000146108
0a10495a-18d6-b3da-c950-017b67d254fd			20170930	1	11000146104	32311000146108	262526004	2601	447558009	31511000146105
0a9a93ce-291c-7526-a704-abf582063328			20170930	1	11000146104	32311000146108	129899009	2908	447557004	31511000146105
0b16c260-8978-85ec-a966-5ab35175acb7			20170930	1	11000146104	32311000146108	50177009	2715	447558009	31511000146105
0ba90a64-2064-7609-72af-96d732eaa848			20170930	1	11000146104	32311000146108	422587007	3001	447558009	31511000146105
0bc3a99d-f98d-30bd-ab48-247eae22f93d			20170930	1	11000146104	32321000146103	83156004	b255	447557004	31491000146103
0bdbcb01b-9c61-a7cc-b663-d43aab757310			20170930	1	11000146104	32321000146103	190902006	b545	447557004	31491000146103
0c5aae57-dd47-6ac0-8cc2-8bbbee12ba544			20170930	1	11000146104	32321000146103	67175002	d640	447557004	31491000146103
0d3e7592-c258-ef38-a895-793fca20257e			20170930	1	11000146104	32321000146103	418363000	b840	447558009	31491000146103
0e288fd4-bd70-978f-9577-3b8347070aa4			20170930	1	11000146104	32311000146108	247588002	2304	447557004	31511000146105
0fd1d91c5-e5f4-71cf-e7f4-3cbd5610b94f			20170930	1	11000146104	32311000146108	83156004	27	447558009	31511000146105
0f4c7ec4-7617-509f-9e33-d6abb2ff5f7f			20170930	1	11000146104	32311000146108	247617009	23	447558009	31511000146105
0f55151d-b60d-33d7-903f-326c2b7bbcb1			20170930	1	11000146104	32311000146108	267036007	28	447558009	31511000146105
0fc23c93-e6f4-7f58-19fe-86c7f385b7d8			20170930	1	11000146104	32321000146103	19657006	b1140	447557004	31491000146103
0fef5d5e-efb1-6cf9-5081-2643f54f742a			20170930	1	11000146104	32311000146108	284972002		447556008	{"conceptId": "", "defaultTerm": ""}
10329722-12b5-500a-5041-b7321a09dd0a			20170930	1	11000146104	32321000146103	225507001	b1801	447557004	31491000146103
105b2e5e-196b-5b7b-b78e-884f0c96e440			20170930	1	11000146104	32321000146103	18232000	d240+b1643	447560006	31491000146103
10bbd36b-30e8-210a-9422-e291b4f7a268			20170930	1	11000146104	32311000146108	18963009	1222	447557004	31511000146105
11060485-7a75-2f86-2a3b-1164be12e713			20170930	1	11000146104	32321000146103	300228004	b230	447557004	31491000146103
1298f0fe-78ad-e19e-c888-eb10585fb2db			20170930	1	11000146104	32311000146108	425022003		447556008	{"conceptId": "", "defaultTerm": ""}
13206f99-123c-882c-69c7-d2240afc95a5			20170930	1	11000146104	32311000146108	405273008	12	447558009	31511000146105
1335f4a2-d2e5-96c2-3d3e-5b01ab790f61			20170930	1	11000146104	32321000146103	424573006	d7200	447558009	31491000146103
13bd13c7-6d87-6f4c-4832-29d5070376f4			20170930	1	11000146104	32311000146108	303387009	27	447558009	31511000146105
15029557-42ff-9a32-4ede-299389d9ae71			20170930	1	11000146104	32321000146103	130987000	b110+b114	447558009	31491000146103
159e7eb7-42fd-28d1-4b55-0d46aa397914			20170930	1	11000146104	32311000146108	705044006	14	447558009	31511000146105
163bb3f0-2074-f7b0-1c9b-42a848680827			20170930	1	11000146104	32311000146108	284905001	3807	447557004	31511000146105
1a6ade22-98dd-f4af-c1f6-30c57d98eb98			20170930	1	11000146104	32311000146108	386702006	16	447557004	31511000146105
1a6c173c-8af3-5c07-f21d-39adf8b8dd386			20170930	1	11000146104	32311000146108	386807006	23	447558009	31511000146105
1abe300d-dd91-7e83-d75a-2e176150a6a3			20170930	1	11000146104	32311000146108	304900007	41	447558009	31511000146105
1b8a1f5c-5bb4-8bf7-1150-9ef8d6592f5b			20170930	1	11000146104	32321000146103	440337002	d859	447558009	31491000146103
1defc027-23d5-a6c2-b15d-665a8bddee649			20170930	1	11000146104	32311000146108	12551000146107	12	447558009	31511000146105
1eee25c6-e96c-9e9d-c4fb-b284d96c6e7a			20170930	1	11000146104	32321000146103	704426000	b1102	447558009	31491000146103
20d03b2b-e488-6a81-15ed-278100b405af			20170930	1	11000146104	32311000146108	300228004	19	447557004	31511000146105
2469f40b-87f4-d5fb-052b-a10e939d97a4			20170930	1	11000146104	32311000146108	72042002	3107	447557004	31511000146105
261ebc72-a1aa-e66c-9e28-48800e78253c			20170930	1	11000146104	32311000146108	418363000	2606	447557004	31511000146105
262d99bd-dd09-510e-1906-f480ee91a336			20170930	1	11000146104	32321000146103	271807003	b810+s810	447560006	31491000146103



Welke complexe mappingrefsets zijn er?

SNOMED CT - ICD-10

Elke Snomed CT code is gekoppeld aan ICD-10

Met regels en adviezen

SNOMED CT - ICPC

Alleen voor General Practice / Family Practice reference set

SNOMED CT – NANDA

Alleen voor de referentieset patiëntproblemen

Extended:

SNOMED CT – OMAHA

Alleen voor de referentieset patiëntproblemen

SNOMED CT – ICF

Alleen voor de referentieset patiëntproblemen

ICD-10

- **Doel: statistiek, internationale standaard**
- **Termen zijn hiërarchisch gerelateerd**
 - Strikte mono-hiërarchie: **classificatie**
- **'Unieke' codes identificeren termen**
 - * locatie
 - † etiologie
- **Gebaseerd op pre coördinatie**
 - G00 Bacterial Meningitis, n.e.s
 - G01 Meningitis in bacterial diseases classified elsewhere
 - G02 Meningitis in other infectious and parasitic diseases



Coderen vs. klasseren

- SNOMED CT is bedoeld om gegevens in detail te kunnen registreren, en op basis daarvan te kunnen abstraheren
- Classificaties (bv. ICD, DBC) zijn bedoeld om te kunnen aggregeren; patiënten in “1 hokje” te kunnen stoppen

ICD-10 vs SNOMED CT

ICD-10	SNOMED CT
68.000 diagnosegroepen	100.000 diagnoses
Statistiek	Medisch dossiervoering
Registratie na zorgproces	Registratie tijdens zorgproces
Monohierarchie	Multihierarchie
Niet uitbreidbaar	Wel uitbreidbaar
Textueel gedefinieerd	Logisch gedefinieerd (relaties)
Mindere mate geschikt voor data-analyse	Zeer geschikt voor data-analyse



ICD-10 vs SNOMED CT

	ICD-10	SNOMED CT
Asperger's disorder	F84.5 Asperger's disorder	23560001 Asperger's disorder
Apert syndrome	Q87.0 Congenital malformation syndromes predominantly affecting facial appearance	205258009 Apert syndrome
Metabolic acidosis	E87.2 Acidosis	205258009 Apert syndrome
Respiratory acidosis	E87.2 Acidosis	12326000 Respiratory acidosis
Lactic acidosis	E87.2 Acidosis	91273001 Lactic acidosis

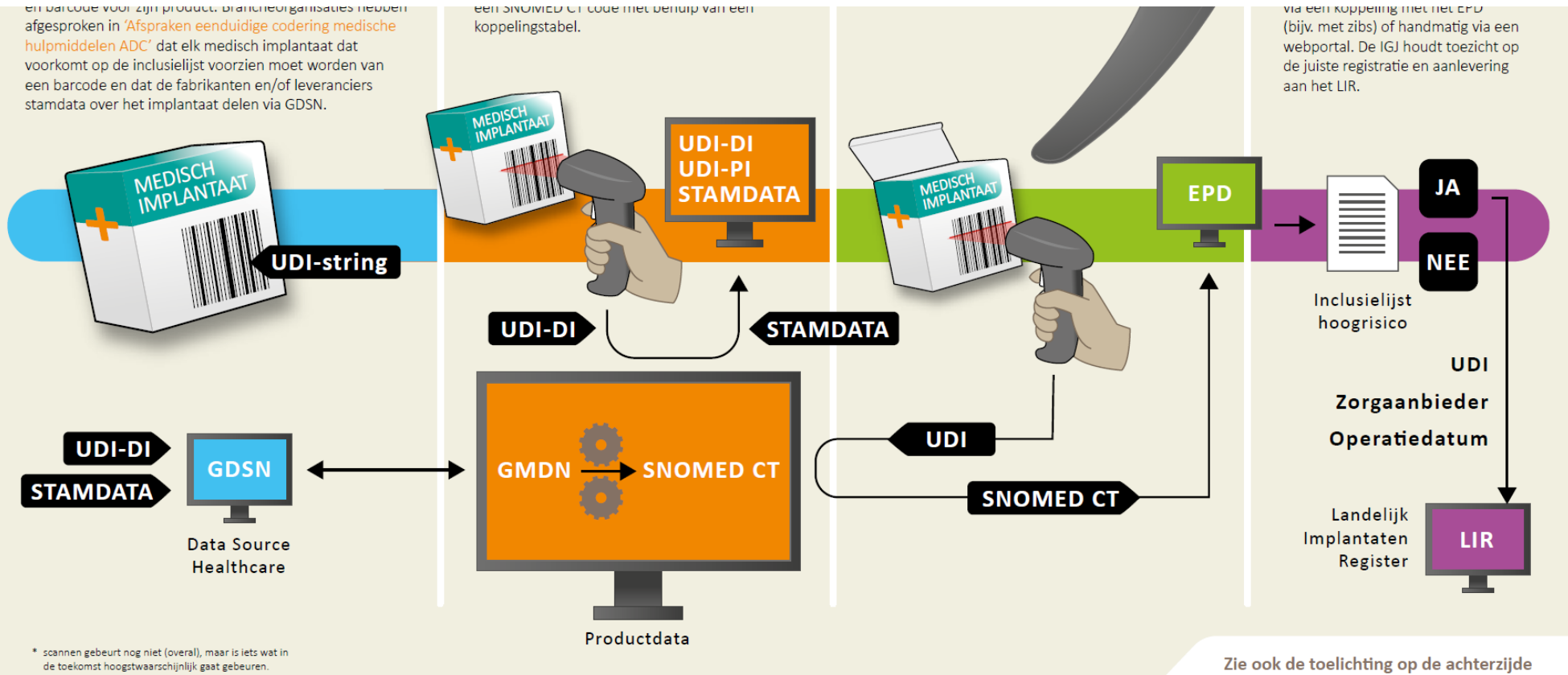


Infographic implantaten

en barcode voor zijn product. Brancheorganisaties hebben afgesproken in 'Afspraken eenduidige codering medische hulpmiddelen ADC' dat elk medisch implantaat dat voorkomt op de inclusielijst voorzien moet worden van een barcode en dat de fabrikanten en/of leveranciers stamdata over het implantaat delen via GDSN.

een SNOMED CT code met behulp van een koppelingstabel.

via een koppeling met het EPD (bijv. met zibs) of handmatig via een webportal. De IJG houdt toezicht op de juiste registratie en aanlevering aan het LIR.



Snomed in ZIBs



In drie vormen:

- Als *value set* oftewel waardenlijst
 - Bv. LaboratoriumUitslag - InterpretatieVlaggenCodelijst
- Als Snomed-referentieset
 - Bv. LaboratoriumUitslag - MicroorganismeCodelijst
- Als *expression constraint* oftewel query
 - Bv. LaboratoriumUitslag - Containertype

LateraliteitCodelijst

Valueset OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.12				Binding: Extensible
Conceptnaam	Conceptcode	Codestelselnaam	Codesysteem OID	Omschrijving
Links	7771000	SNOMED CT	2.16.840.1.113883.6.96	Links
Rechts	24028007	SNOMED CT	2.16.840.1.113883.6.96	Rechts
Bilateraal	51440002	SNOMED CT	2.16.840.1.113883.6.96	Rechts en links

MicroorganismeCodelijst

Valueset OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.10			Binding: Extensible
Conceptnaam	Codestelselnaam	Codesysteem OID	
SNOMED CT: ^ 2581000146104 Referentieset voor micro-organismen	SNOMED CT	2.16.840.1.113883.6.96	

MonsterAnatomischeLocatieCodelijst

Valueset OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.11			Binding: Extensible
Conceptnaam	Codestelselnaam	Codesysteem OID	
SNOMED CT: < 442083009 Anatomische of verworven lichaamsstructuur	SNOMED CT	2.16.840.1.113883.6.96	

MonstermateriaalCodelijst

Valueset OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.6			Binding: Extensible
Conceptnaam	Codestelselnaam	Codesysteem OID	
SNOMED CT: < 105590001 Substantie	SNOMED CT	2.16.840.1.113883.6.96	

MorfologieCodelijst

Valueset OID: 2.16.840.1.113883.2.4.3.11.60.40.2.13.1.13			Binding: Extensible
Conceptnaam	Codestelselnaam	Codesysteem OID	
SNOMED CT: < 49755003 Morfologische afwijking	SNOMED CT	2.16.840.1.113883.6.96	



Nuttige links Mappings en ZIBs

E-learning:

[Mapping introduction](#)

[Mapping - Basics](#)

Documentation:

[Technical specifications of map reference sets](#)

[Zorginformatiebouwstenen](#)

Tooling:

[Snomed international mapping tool](#)

[Infographic](#)

Oefenen met Snowstorm

Implantatenregister

Afleiden uit ICD-10

Zorginformatiebouwstenen



Snowstorm

SNOMED CT Terminology Server REST API

Created by SNOMED International

See more at <https://github.com/IHTSDO/snowstorm>

[Apache 2.0](#)

Admin : Code Systems

Show/Hide | List Operations | Expand Operations

Branching : -

Show/Hide | List Operations | Expand Operations

Concepts : -

Show/Hide | List Operations | Expand Operations

Descriptions : -

Show/Hide | List Operations | Expand Operations

MRCM XML : -

Show/Hide | List Operations | Expand Operations

Refset Members : -

Show/Hide | List Operations | Expand Operations

GET

`/branch/members`

findRefsetMembers

GET

`/branch/members/{uuid}`

fetchMember

Relationships : -

Show/Hide | List Operations | Expand Operations

Version : Build Version

Show/Hide | List Operations | Expand Operations

Refset Members :-

GET /{branch}/members

findRefsetMembers

Response Class (Status 200)

OK

Model | Model Schema

```
{
  "items": {},
  "limit": 0,
  "offset": 0,
  "total": 0
}
```

Response Content Type

Parameters

Parameter	value	Description	Parameter Type	Data Type
branch	<input type="text" value="MAIN"/>	branch	path	string
referenceSet	<input type="text"/>	referenceSet	query	string
referencedComponentId	<input type="text"/>	referencedComponentId	query	string
active	<input type="text" value=""/>	active	query	boolean
targetComponent	<input type="text"/>	targetComponent	query	string
mapTarget	<input type="text"/>	mapTarget	query	string
offset	<input type="text" value="0"/>	offset	query	integer





branch	<input type="text" value="MAIN"/>	branch	path	string
referenceSet	<input type="text" value="52801000146101"/>	referenceSet	query	string
referencedComponentId	<input type="text"/>	referencedComponentId	query	string
active	<input type="text" value="true"/>	active	query	boolean
targetComponent	<input type="text"/>	targetComponent	query	string
mapTarget	<input type="text"/>	mapTarget	query	string
offset	<input type="text" value="0"/>	offset	query	integer
limit	<input type="text" value="50"/>	limit	query	integer
Accept-Language	<input type="text" value="nl-NL"/>	Accept-Language	header	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
401	Unauthorized		
403	Forbidden		
404	Not Found		

Try it out!

[Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' --header 'Accept-Language: nl-NL' 'https://termdemo.test-nictiz.nl/MAIN/members?re
```

Request URL

```
https://termdemo.test-nictiz.nl/MAIN/members?referenceSet=52801000146101&active=true&offset=0&limit=50
```

En nu jullie...





Oefening 1a: Implantatenregister

Scenario: *Wanneer een ziekenhuis een prothese implanteert of ander hulpmiddel gebruikt, scant het de barcode en legt de bijbehorende SNOMED CT-code vast. De SNOMED CT-code kan afgeleid worden van de GMDN-code, die binnenkomt via de GDSN. Wanneer dit soort hulpmiddel op de inclusielijst staat, wordt deze doorgegeven aan het kwaliteitsregister LIR. De zorgverlener krijgt hiervan een melding.*

Vandaag zijn er een aantal hulpmiddelen gebruikt/geïmplantéerd met de volgende GMDN-codes:

- * 43553
- * 47986
- * 47710
- * 46573
- * 34223

Bepaal voor elk concept:

- * De bijbehorende Snomed-code
- * Of dit concept in de inclusielijst staat
- * Wat de Nederlands-medische voorkeursterm is. Als deze ontbreekt, geef dan de Engelse



Oefening 1b: Afleiden van ICD-10

Scenario: Bij de klinische registratie van een diagnose wordt SNOMED CT vastgelegd. Voor de DBC en aanlevering aan de LBZ is een ICD-10 (classificatie) vereist. Deze kan automatisch afgeleid worden van de vastgelegde SNOMED CT-code met een mappingstabel.

- In het EPD zijn de volgende SNOMED CT-codes vastgelegd:
 - 12676007 |fractuur van radius (aandoening)|
 - 82571000119107 |Traction retinal detachment co-occurrent and due to type 1 diabetes mellitus (disorder)|
 - 253314003 |Inferior vena cava interruption with right sided azygos continuation (disorder)|

Welke ICD-10-codes kunnen hieruit afgeleid worden?

- In het EPD wordt deze SNOMED CT-code vastgelegd: 8619003 |Infertile (finding)|. Uit de patientregistratie blijkt dat het om een man gaat. Welke ICD-10 code kan hieruit afgeleid worden?



Oefening 2: Data ophalen uit ZIB

Zie LaboratoriumUitslag: [https://zibs.nl/wiki/LaboratoriumUitslag-v4.2\(2018NL\)](https://zibs.nl/wiki/LaboratoriumUitslag-v4.2(2018NL))

Waardenlijstindex:

<http://decor.nictiz.nl/decor/services/ProjectIndex?prefix=zib2017bbr->

Probeer zoveel mogelijk waardenlijsten op te halen. Negeer hierbij de volgende lijsten:

- * 'InterpretatieMethodeCodelijst': deze is nog niet bepaald
- * OnderzoekCodelijst: hier komt de Nederlandse Labcodeset te staan, maar deze is nog niet af
- * TestCodeCodelijst: idem