

Mappings

Elze van Puijvelde – de Groot

22 November 2018





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

Simple 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

Complex 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 T is the version with the most recent effectiveTime prior to or equal to time T .	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 90000000000443000 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: 90000000000496009 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 mappingrefssets 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

Complexe mapping refset



Pages / ... / 5.2 Reference Set Types

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 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 T is the version with the most recent effectiveTime prior to or equal to time T .	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 90000000000443000 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: 447250001 Complex map type reference set or 609331003 Extended 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 the other terminology or code system.	NO	NO
mapGroup	Integer	An Integer, grouping a set of complex map records from which one may be selected as a target code. Where a SNOMED CT concept maps onto 'n' target codes, there will be 'n' groups, each containing one or more complex map records.	YES	NO
mapPriority	Integer	Within a mapGroup, the mapPriority 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 target code 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 mapGroup.	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 target code from the alternatives presented to him within the group.	YES	NO
mapTarget	String	The target code in the target terminology, classification or code system.	YES	NO
correlationId	SCTID	A child of 447247004 SNOMED CT source code to target map code correlation value in the metadata hierarchy, identifying the correlation between the SNOMED CT concept and the target code.	YES	NO
The following additional field only applies to 609331003 Extended map type reference set				
mapCategoryId	SCTID	Identifies the SNOMED CT concept in the metadata hierarchy which represents the MapCategory for the associated map member. The categories vary for different target code systems, each set of categories is represented by a subtype of 609330002 Map category value . In the case of ICD-10 the individual category values are subtypes of: 447824004 ICD-10 map category value	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

Map to Nanda refset ID	Snomed ID	Nanda code	Correlation value
11000146104	31451000146105	26416006	00189 447558009
11000146104	31451000146105	247592009	00131 447558009
11000146104	31451000146105	284905001	00110 447558009
11000146104	31451000146105	72440003	447556008
11000146104	31451000146105	2073000	447556008
11000146104	31451000146105	29164008	447556008
11000146104	31451000146105	247632002	447556008
11000146104	31451000146105	274663001	00132 447557004
11000146104	31451000146105	303387009	00085 447558009
11000146104	31451000146105	23935006	00097 447557004
11000146104	31451000146105	714663007	0062 447557004
11000146104	31451000146105	248325000	00002 447557004
11000146104	31451000146105	224965009	00136 447557004
11000146104	31451000146105	111360009	00011 447557004
11000146104	31451000146105	24199005	447556008
11000146104	31451000146105	705044006	00061 447557004
11000146104	31451000146105	285038001	0078 447558009
11000146104	31451000146105	228148009	447556008
11000146104	31451000146105	18963009	00241 447557004
11000146104	31451000146105	284972002	00109 447557004
11000146104	31451000146105	425022003	447556008
11000146104	31451000146105	262526004	00044 447558009
11000146104	31451000146105	285304000	00249 447557004
11000146104	31451000146105	422587007	00134 447557004
11000146104	31451000146105	89765005	00190 447558009
11000146104	31451000146105	22253000	447556008
11000146104	31451000146105	248324006	447556008
11000146104	31451000146105	50177009	00007 447557004
11000146104	31451000146105	20573003	00032 447557004
11000146104	31451000146105	267076002	00053 447557004
11000146104	31451000146105	62476001	447556008
11000146104	31451000146105	199312002	00227 447558009
11000146104	31451000146105	43116000	00046 447558009
11000146104	31451000146105	129839007	00155 447557004
11000146104	31451000146105	288638001	00051 447558009
11000146104	31451000146105	286457005	00098 447558009
11000146104	31451000146105	129698004	00054 447557004
11000146104	31451000146105	267036007	00032 447558009
11000146104	31451000146105	18085000	00188 447558009
11000146104	31451000146105	12561000146105	00078 447560006

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
01d6c92e-3cf2-df08-f92f-516474af1919	20170930	1	11000146104	32311000146108	22253000	24	447557004
060220a6-7c6d-651d-0828-5188be33bb37	20170930	1	11000146104	32311000146108	7653001	447556008	{"conceptId": "", "defaultTerm": ""}
072f8bd3-7333-238d-8fdd-b70c45d0e154	20170930	1	11000146104	32321000146108	247592009	b1440	447557004
07a6d3f7-f00a-8274-5136-5c75e6e91dd9	20170930	1	11000146104	32311000146108	714884000	2713	447557004
08ab22f9-3feb-5cf6-5d0e-a4ffdf7921d6a	20170930	1	11000146104	32311000146108	285304000	26	447558009
0a10495a-18d6-b3da-c950-017b6d254fd	20170930	1	11000146104	32311000146108	262526004	2601	447558009
0a9a93ce-291c-7526-a704-abf582063328	20170930	1	11000146104	32311000146108	129899009	2908	447557004
0b16c260-8978-85ec-a966-5ab35175acb7	20170930	1	11000146104	32311000146108	50177009	2715	447558009
0ba90a64-2064-7609-72af-96d732ea848	20170930	1	11000146104	32311000146108	422587007	3001	447558009
0bc3a99d-f98d-30bd-ab48-247eae22f93d	20170930	1	11000146104	32321000146103	83156004	b255	447557004
0bdbc01b-9c61-a7cc-b663-d4aab757310	20170930	1	11000146104	32321000146103	190902006	b545	447557004
0c5aae57-dd47-6ac0-8cc2-8bbe12ba544	20170930	1	11000146104	32321000146103	67175002	d640	447557004
0d3e7592-c258-ef38-a895-793fca20257e	20170930	1	11000146104	32321000146103	418363000	b840	447558009
0e288fd4-bd70-97f8-9577-3b834707aa4	20170930	1	11000146104	32311000146108	247588002	2304	447557004
0f1d91c5-e5f4-71cf-e74f-3cbd51b094f	20170930	1	11000146104	32311000146108	83156004	27	447558009
0f4c7ec4-7617-509f-9e33-d6abb2ff5f7	20170930	1	11000146104	32311000146108	247617009	23	447558009
0f55151d-b60d-33d7-903f-326c2b7bbcb1	20170930	1	11000146104	32311000146108	267036007	28	447558009
0fc23c93-e6f4-7f58-19fe-86c7f385b7d8	20170930	1	11000146104	32321000146103	19657006	b1140	447557004
0fe5d5e-efb1-6cf5-9081-2643f54f742a	20170930	1	11000146104	32311000146108	284972002		447556008
10329722-12b5-500a-5041-b7321a09d0a	20170930	1	11000146104	32321000146103	225507001	b1801	447557004
105b2e5e-196b-5b7b-b78e-884f0c96e440	20170930	1	11000146104	32321000146103	18232000	d240+b1643	447560006
10bbd36b-30e8-210a-9422-e291b4f7a268	20170930	1	11000146104	32311000146108	18963009	1222	447557004
11060485-7a75-2f86-2a3b-1164be12e713	20170930	1	11000146104	32321000146103	300228004	b230	447557004
1298f0fe-78ad-e19e-c888-eb10585fb2db	20170930	1	11000146104	32311000146108	425022003		447556008
13206f99-123c-882c-69c7-d2240afc95a5	20170930	1	11000146104	32311000146108	405273008	12	447558009
1335f4a2-d2e5-96c2-3d3e-5b01ab790f61	20170930	1	11000146104	32321000146103	424573006	d7200	447558009
13bd13c7-6d87-6f4c-4832-29d5070376f4	20170930	1	11000146104	32311000146108	303387009	27	447558009
15029557-42ff-9a32-4ede-299389d9ae71	20170930	1	11000146104	32321000146103	130987000	b110+b114	447558009
159e7eb7-42fd-28d1-4b55-0d46aa397914	20170930	1	11000146104	32311000146108	705844006	14	447558009
163bb3f0-2074-f7b0-1c9b-42a848680827	20170930	1	11000146104	32311000146108	284905001	3807	447557004
1a6ade22-98dd-f4af-c1f6-30c57d98eb98	20170930	1	11000146104	32311000146108	386702006	16	447557004
1a6c173c-8af3-5c07-f21d-39adfb8dd386	20170930	1	11000146104	32311000146108	386807006	23	447558009
1abe300d-dd91-7e83-d75a-2e176150a6a3	20170930	1	11000146104	32311000146108	304900007	41	447558009
1b8a1f5c-5bb4-8bf7-1150-9ef86d592f5b	20170930	1	11000146104	32321000146103	440337002	d859	447558009
1defc027-23d5-a6c2-b15d-665a8bdee649	20170930	1	11000146104	32311000146108	12551000146107	12	447558009
1eee25c6-e96c-9e9d-c4fb-b284d96c6e7a	20170930	1	11000146104	32321000146103	704426000	b1102	447558009
20d03b2b-e488-6a81-15ed-278100b405af	20170930	1	11000146104	32311000146108	300228004	19	447557004
2469f40b-87f4-d5fb-052b-a10e939d97a4	20170930	1	11000146104	32311000146108	72042002	3107	447557004
261ebc72-a1aa-e66c-9e28-48800e78253c	20170930	1	11000146104	32311000146108	418363000	2606	447557004
262d99bd-dd09-510e-1906-f480ee91a336	20170930	1	11000146104	32321000146103	271807003	b810+s810	447560006



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

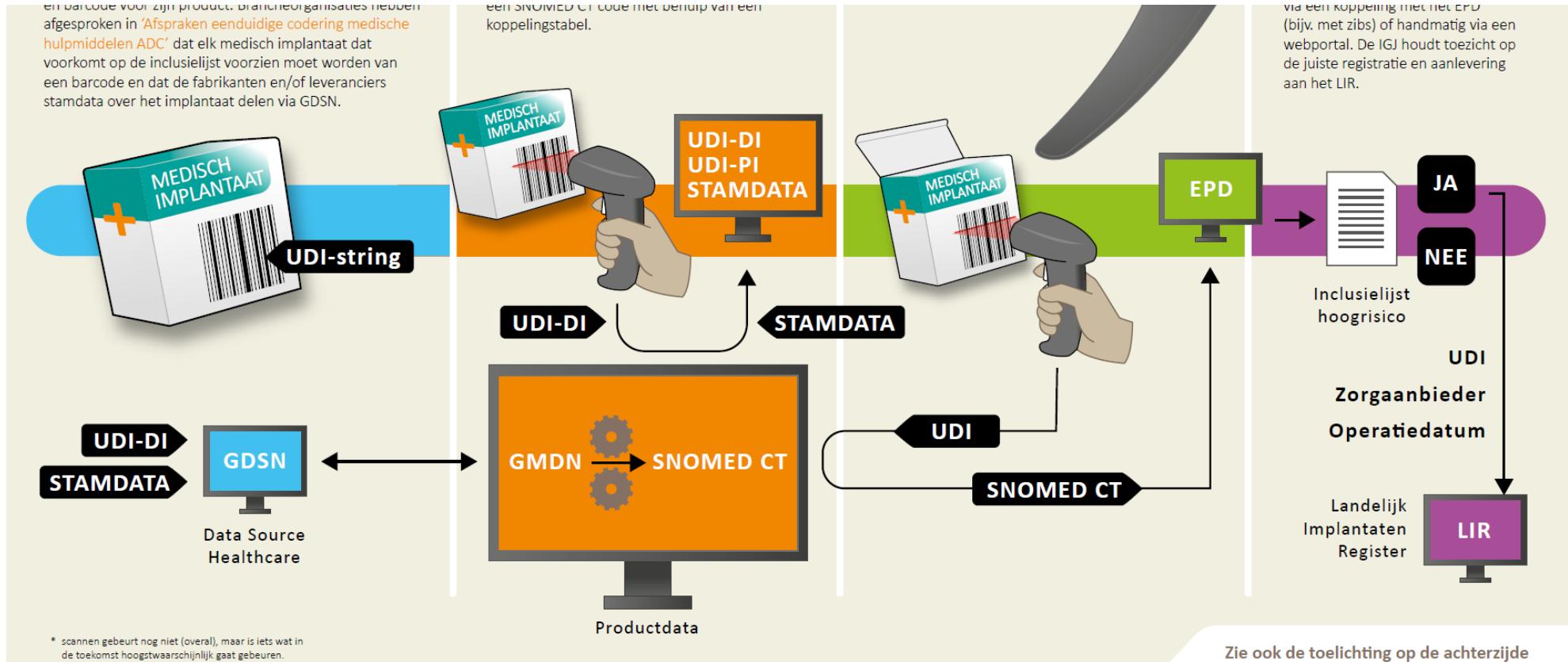
Alleen voor de referentieset patiëntproblemen

SNOMED CT – ICF

Alleen voor de referentieset patiëntproblemen



Infographic implantaten





Nuttige links

E-learning:

[Mapping introduction](#)

[Mapping - Basics](#)

Documentation:

[Technical specifications of map reference sets](#)

Tooling:

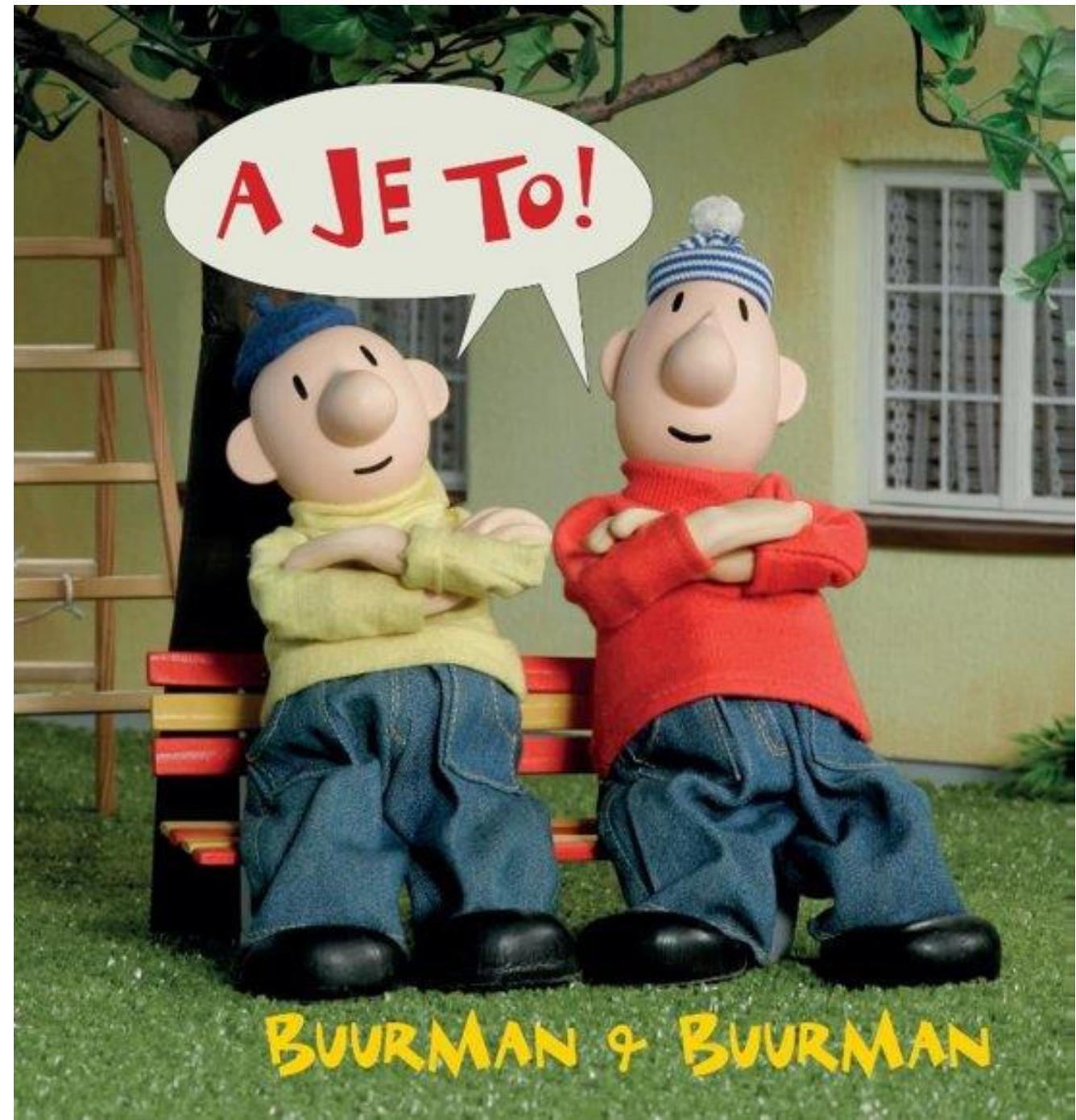
[Snomed international mapping tool](#)

[Infographic](#)

En nu jullie...



Better health through
better information





Oefening 1 Simpele mapping

- **Wat is het SNOMED concept behorende bij de volgende GMDN codes, toon deze in een lijst van NL voorkeurstermen**

43553

47986

47710

46573

34223

<https://termdemo.test-nictiz.nl/MAIN/members?referenceSet=467614008&mapTarget=targetid>

- **Welke van bovenstaande staat of staan op de referentieset voor implantatenregister (inclusielijst)?**

<https://termdemo.test-nictiz.nl/MAIN/members?referenceSet=52801000146101&referencedComponentId=conceptid>



Oefening 2 Complex: Nanda

- **Voor welke SNOMED CT concepten is er geen mapping met Nanda?**

<https://termdemo.test-nictiz.nl/MAN/members?referenceSet=31451000146105>

- **In Nanda is het probleem 00188 geregistreerd. Geef aan de gebruiker weer welke NL SNOMED CT voorkeurstermen dit kunnen zijn**

<https://termdemo.test-nictiz.nl/MAN/members?referenceSet=31451000146105&mapTarget=0018>



Oefening 3: Complex map: ICD-10

- Welke SNOMED CT concepten vallen in de ICD-10 groep I50.9

<https://termdemo.test-nictiz.nl/MAN/members?referenceSet=447562003&mapTarget=ICD-10-code>

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

<https://termdemo.test-nictiz.nl/MAN/members?referenceSet=447562003&referencedComponentId=8619003>