

Mappings

Elze van Puijvelde – de Groot

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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 | |
|---|---------------|--------|----------------------------------|----------------|-----------------------|----------------------|---|--------------------------------------|
| xder2_sccRefset_CorrelatedExtendedMapTypeReferenceSet_Snapshot_20170930 - Notepad | File | Edit | Format | View | Help | | | |
| id | effectiveTime | active | moduleId | refsetId | referencedComponentId | mapTarget | snomedCtSourceCodeToTargetMapCodeCorrelationValue | 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-8fd8-b70c45d0e154 | 20170930 | 1 | 11000146104 | 32321000146108 | 247592009 | b1440 | 447557004 | 31491000146103 |
| 07a6d3f7-f00a-8274-5136-5c75e6e91dd9 | 20170930 | 1 | 11000146104 | 32311000146108 | 714884000 | 2713 | 447557004 | 31511000146105 |
| 08ab22f9-3feb-5cf6-5d0e-a4ffdf7921d6a | 20170930 | 1 | 11000146104 | 32311000146108 | 285304000 | 26 | 447558009 | 31501000146108 |
| 0a10495a-18d6-b3da-c950-017b6d254fd | 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-96d732ea848 | 20170930 | 1 | 11000146104 | 32311000146108 | 422587007 | 3001 | 447558009 | 31511000146105 |
| 0bc3a99d-f98d-30bd-ab48-247eae22f93d | 20170930 | 1 | 11000146104 | 32321000146103 | 83156004 | b255 | 447557004 | 31491000146103 |
| 0bdbc01b-9c61-a7cc-b663-d4aab757310 | 20170930 | 1 | 11000146104 | 32321000146103 | 190902006 | b545 | 447557004 | 31491000146103 |
| 0c5aae57-dd47-6ac0-8cc2-8bbe12ba544 | 20170930 | 1 | 11000146104 | 32321000146103 | 67175002 | d640 | 447557004 | 31491000146103 |
| 0d3e7592-c258-e9f3-793fca20257e | 20170930 | 1 | 11000146104 | 32321000146103 | 418363000 | b840 | 447558009 | 31491000146103 |
| 0e288fd4-bd70-97f8-9577-3b834707aa4 | 20170930 | 1 | 11000146104 | 32311000146108 | 247588002 | 2304 | 447557004 | 31511000146105 |
| 0f1d91c5-e5f4-71cf-e74f-3cbd51b094f | 20170930 | 1 | 11000146104 | 32311000146108 | 83156004 | 27 | 447558009 | 31511000146105 |
| 0f4c7ec4-7617-509f-9e33-d6abb2ff5f7 | 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 |
| 0fe5d5e-efb1-6cf5-9081-2643f54f742a | 20170930 | 1 | 11000146104 | 32311000146108 | 284972002 | | 447556008 | {"conceptId": "", "defaultTerm": ""} |
| 10329722-12b5-500a-5041-b7321a09d0a | 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 | 705844006 | 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-39adfb8dd386 | 20170930 | 1 | 11000146104 | 32311000146108 | 386807006 | 23 | 447558009 | 31511000146105 |
| 1abe300d-dd91-7e83-d75a-2e176150a6a3 | 20170930 | 1 | 11000146104 | 32311000146108 | 304900007 | 41 | 447558009 | 31511000146105 |
| 1b8a1f5c-5bb4-8bf7-1150-9ef86d592f5b | 20170930 | 1 | 11000146104 | 32321000146103 | 440337002 | d859 | 447558009 | 31491000146103 |
| 1defc027-23d5-a6c2-b15d-665a8bdee649 | 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

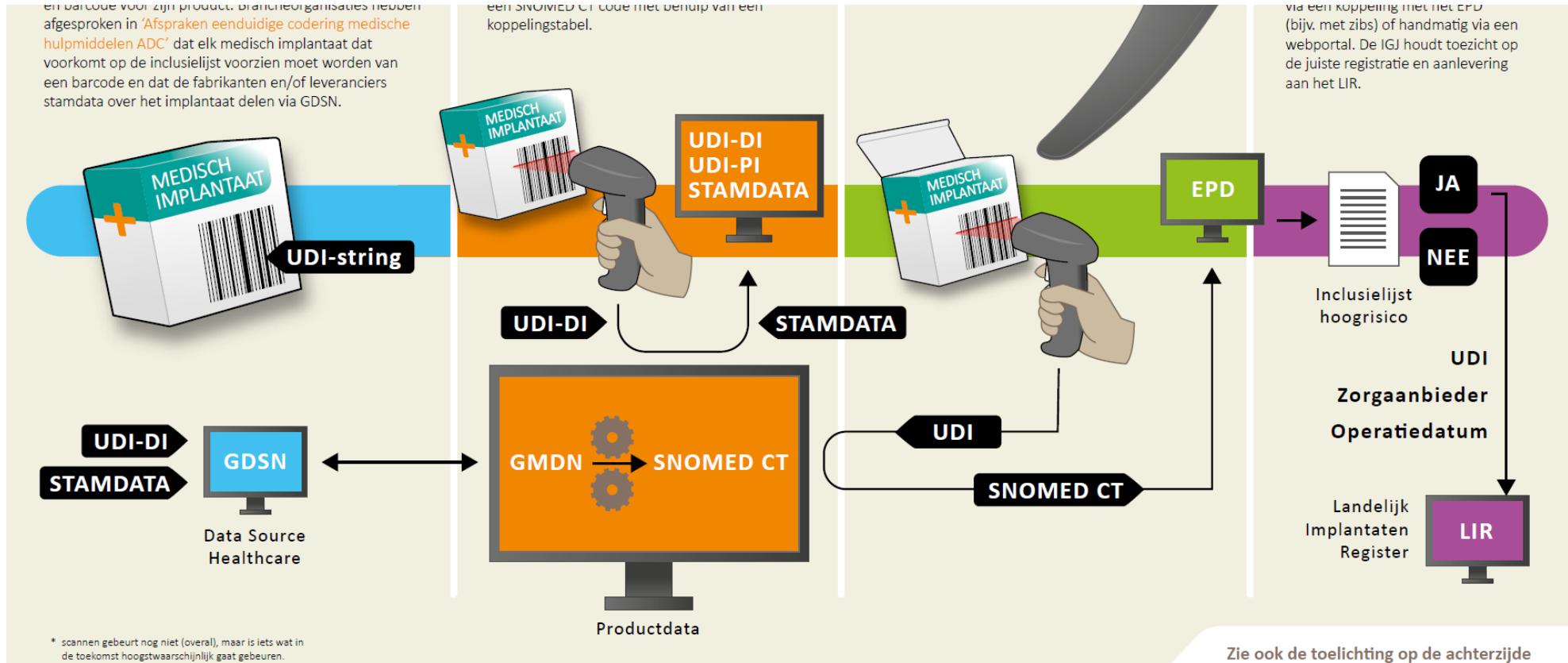
Alleen voor de referentieset patiëntproblemen

SNOMED CT – ICF

Alleen voor de referentieset patiëntproblemen



Infographic implantaten





Nuttige links

E-learning:

[Mapping introduction](#)

[Mapping - Basics](#)

Documentation:

[Technical specifications of map reference sets](#)

Tooling:

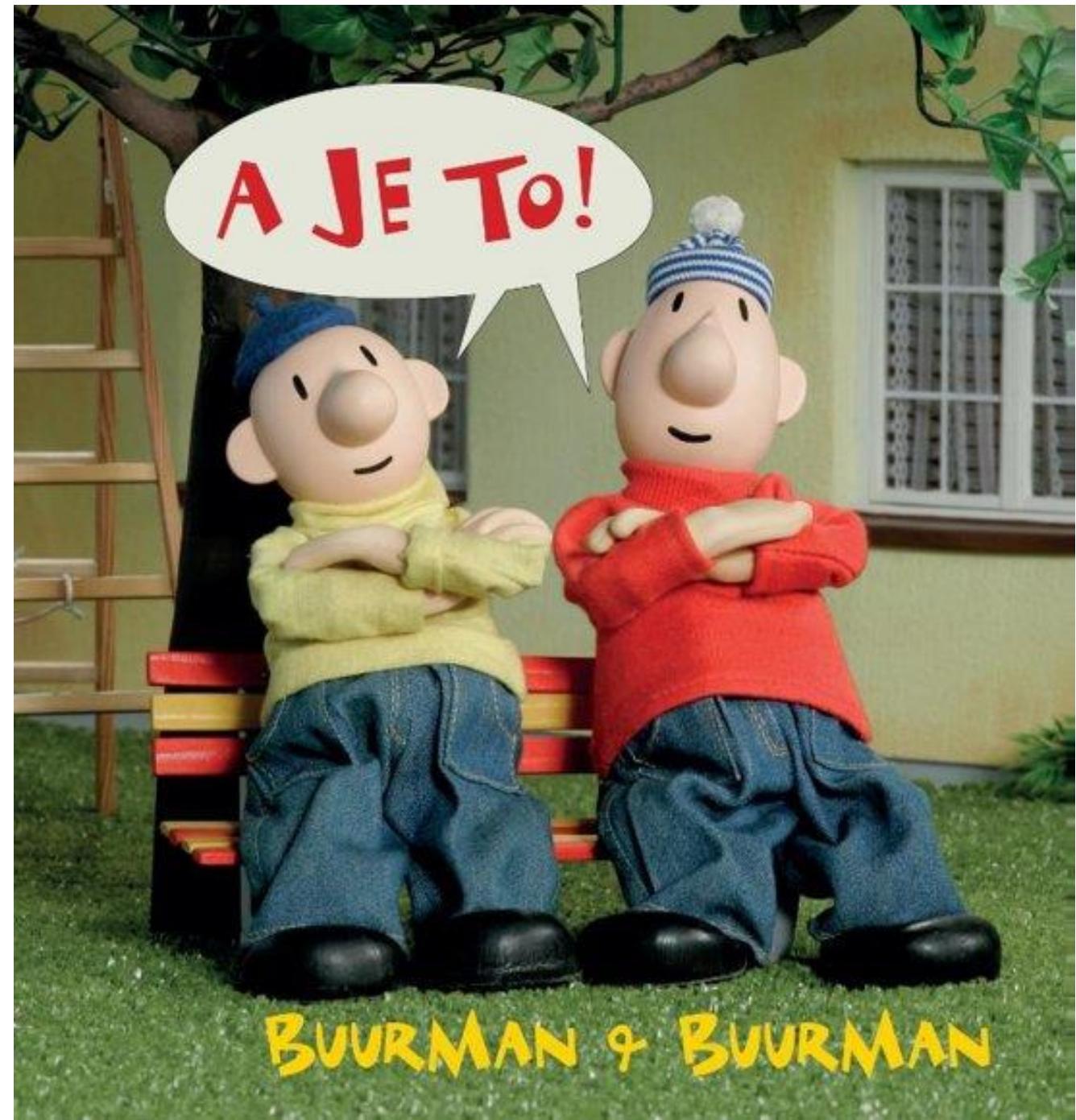
[Snomed international mapping tool](#)

[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>