Management of Reference Sets by Healthcare Providers

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October 10th 2013
Content

• Reference Set Process
• Reference Set Editor
• Experiences
• Export for Vendors and Software Suppliers
• Use Case: Optometricians
Process

• Instruction
• Support by Nictiz
  • Post coordination
  • Additions to National Extension – ‘core’
• Meetings with Software Suppliers
• Export of Reference Set
• Implementation in systems
• Management of Reference Set
Tooling

• Reference set editor – Makes it possible for Care Providers to manage their own content
Reference set Editor

- Adding concepts
- Removing concepts
- Change concepts
  - Dutch terms
- Discussion (issues)
- Import new SNOMED CT release – check for changes
- Open source
- Work in progress

- [https://decor.nictiz.nl/art-decor/refsets](https://decor.nictiz.nl/art-decor/refsets)
Experiences so far

- Simple to use
- Web-based
- Difficulties with hierarchy – visualization
- Initial excel, management online
- Guidelines
Guidelines

• Post coordination
• Use of Dutch language
• Translation
  • Based on Translation Guide of IHTSDO
Technical side

• Publication
  • RF-2
  • XML

• How to cope with several Dutch synonyms and preferred terms
  • Dutch description list
  • Dutch language reference set
Dutch terms

Dutch language Refset

SNOMED CT concepts

Dutch descriptions

National extension

‘New’ concepts

Optometrician refset

P

S

P
Practice: Optometrists

Purposes:

- Clinical Documentation
- Statistics
- Billing

- Dataset – what data to document in record
- Clinical Findings (appr 600) and procedures
- Translation
### Optometric software

**Subjectief**

**Huidige correctie**

**Objectief**

<table>
<thead>
<tr>
<th>Objectief/Bovindingen</th>
<th>Afstand Visus SC</th>
<th>Nabij Visus SC</th>
</tr>
</thead>
<tbody>
<tr>
<td>OD</td>
<td>0,00° OS</td>
<td>0,00° OD</td>
</tr>
<tr>
<td>Afstand Visus CC</td>
<td>0,00° OS</td>
<td>0,00° OD</td>
</tr>
<tr>
<td>Pinhole visus</td>
<td>0,00° OD</td>
<td>0,00° OD</td>
</tr>
</tbody>
</table>

**Evaluatie/Plan**

**Priemste Diagnose**
- glaucom

**Overige Diagnose**
- Steroid-Induced glaucoma
- Secondary angle-closure glaucoma
- Secondary open-angle glaucoma
- Glaucoma
- AACG - Acute angle closure glaucoma
- CNAG - Chronic narrow angle glaucoma
- Pigmentary glaucoma
- Normal pressure glaucoma
Optometric software

Management of Reference Sets by Healthcare Providers
Optometric software

Management of Reference Sets by Healthcare Providers
Mission accomplished?

• NO, but a first step is made
  • Terms and hierarchy
Near future

• Hospital clinical findings and procedures
  • SNOMED CT reference set with Dutch preferred term and synonyms
  • Search in Dutch and English

• Mappings with ICD-10NL and billing codes
  • Semi-automatic derivation of ICD-10 and billing codes in systems

• Refset editor is further developed to create mappings to other terminologies
Explore

Management of Reference Sets by Healthcare Providers

SNOMED CT

Zoekterm(en)

S: Hypertension
P: FH: Hypertension
P: H/O: hypertension
S: Hypertension risk
P: Renal hypertension
P: Benign hypertension
P: Venous hypertension

Resultaten (50 van 456)

Hypertensive disorder, systemic arterial (disorder)
Family history: Hypertension (situation)
History of - Hypertension (situation)
Hypertension risk level (observable entity)
Renal hypertension (disorder)
Benign hypertension (disorder)
Venous hypertension (disorder)

Secondary hypertension

Renal hypertension (disorder)
Renal hypertension

Id
Definition status
28119000
Defined

Associated with
Kidney disease
Systemic circulatory system structure

Finding site
Finding of increased blood pressure

Has definitional manifestation

CTV3 simple map
XUAv2

SNOMED RT ID simple map
D3-02110

ICD-9-CM equivalence complex map reference set

ICD-10 complex map reference set
<table>
<thead>
<tr>
<th>Renal hypertension (disorder)</th>
<th>Renal hypertension</th>
</tr>
</thead>
</table>

| Id | 28119000 |
| Definition status | Defined |

**Associated with**
- Kidney disease
- Systemic circulatory system structure
- Finding of increased blood pressure

**CTV3 simple map**
- XUAv2

**SNOMED RT ID simple map**
- D3-02110

**ICD-9-CM equivalence complex map reference set**
- **Target**: 403.90
- **Correlation**: Exact match map from SNOMED CT source code to target code

**ICD-10 complex map reference set**
- **Target**: I12.9
- **Rule**: TRUE
- **Advice**: ALWAYS I12.9 | DESCENDANTS NOT EXHAUSTIVELY MAPPED
- **Correlation**: SNOMED CT source code to target map code correlation not specified

**Management of Reference Sets by Healthcare Providers**
Questions?

Reference set editor:  
http://decor.nictiz.nl/art-decor/refsets

Snomed Terminology Explorer:  
http://decor.nictiz.nl/art-decor/snomed-ct

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Screenshots
Management of Reference Sets by Healthcare Providers
SNOMED CT Referentieset's

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