

Terminologiedag 28 maart 2018

# Belgische release SNOMED CT

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Belgisch NRC - Nationaal Release Centrum SNOMED CT  
FOD Volksgezondheid, Veiligheid van de Voedselketen en Leefmilieu

# Agenda

## **Eerste Belgische release van SNOMED CT**

- De Belgische Extensie in de Internationale Browser

## **SNOMED CT release files**

- situering
- downloaden via MLDS
- structuur van een release / structuur van SNOMED CT

## **De Internationale release en de Belgische Extensie**

- inhoud
- update-cyclus
- documentatie en opleiding
- volgende stappen

## **Samenvatting**

# Agenda

## ☐ **Eerste Belgische release van SNOMED CT**

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# 15 maart 2018

## Eerste Belgische release van SNOMED CT

- De eerste Belgische Extensie is gebaseerd op de internationale release van januari 2018.
- De release files bevatten vertalingen in het Nederlands en het Frans voor **26.813** actieve concepten.



<http://browser.ihtsdotools.org/>

# SNOMED International SNOMED CT Browser


The SNOMED International SNOMED CT Browser provides ways to browse and search SNOMED CT. The browser has been implemented as part of development within the SNOMED International Open Tooling Framework, by the SNOMED International and its development partners

The Browser is provided by SNOMED International to anyone for reference purposes. The interface and REST APIs are **not** to be used as part of production systems in health care settings.





Any abuse of the REST APIs will result in the offending IP address being banned from accessing the browser.

Please provide any feedback on the browser by clicking on the feedback button at the top of the page. Your feedback is essential to the evolution and improvement of this service. Please visit the [SNOMED CT Content Request Service](#) to provide content feedback.

## International Editions

 Go browsing... International edition January 2018	 Ir al Navegador... Edición en español 2017-10-31
---	--

## Local Extensions

 Go browsing... Australian edition 2017-09-30	 Go browsing... Belgian edition 2018-03-15	 Go browsing... Canadian edition 2017-10-31	 Gå til browser-siden Danish edition 2017-09-30	 Go browsing... Netherlands edition 2017-09-30
 Börja söka... Swedish edition 2017-11-30	 Go browsing... United Kingdom edition (hosted by the UK)	 Go browsing... United States edition 2018-03-01	 Go browsing... Uruguay edition 2017-12-15	

OR [take the Tour...](#)

Many thanks to the SNOMED International Member countries who have provided their extensions in this browser. If you would like to enquire further about any of the Member

SNOMED CT - Clinical fir x

browser.ihtsdotools.org/?perspective=full&conceptId1=404684003&edition=be-edition&release=v20180315&server=https://prod-browser-exten.ihtsdotools.org/api/snomed&langRefset=21000172104,31000172101,9000000000000509007

# SNOMED International SNOMED CT Browser

© SNOMED International 2018 v1.37.2

Taxonomy Search Favorites Refset

Taxonomy

Inferred view Descendants Count: Off

- SNOMED CT Concept
  - Body structure (body structure)
  - Clinical finding (finding) →
  - Environment or geographical location (environment / location)
  - Event (event)
  - Observable entity (observable entity)
  - Organism (organism)
  - Pharmaceutical / biologic product (product)
  - Physical force (physical force)
  - Physical object (physical object)
  - Procedure (procedure)
  - Qualifier value (qualifier value)
  - Record artifact (record artifact)
  - Situation with explicit context (situation)
  - SNOMED CT Model Component (metadata)
  - Social context (social concept)
  - Special concept (special concept)
  - Specimen (specimen)
  - Staging and scales (staging scale)
  - Substance (substance)

Release: Belgian Edition 20180315 Perspective: Full Feedback About

- International Edition 20180131
- Spanish Edition 20171031
- Australian Edition 20170930
- Belgian Edition 20180315
- Canadian Edition 20171031
- Danish Edition 20170930
- NL Edition 20170930
- Swedish Edition 20171130
- US Edition 20180301
- UY Edition 20171215

Expression Refsets Members References

Stated Inferred

Clinical finding (finding) ☆

SCTID: 404684003

404684003 | Clinical finding (finding) |

Clinical finding (finding)

Clinical finding

No attributes

Children (33)

19

- ✓ Taxonomie => FSN (Fully specified name)
- ✓ FSN wordt niet vertaald
- ✓ FSN is uniek en beschrijft éénduidig over welk concept het gaat
- ✓ Bevat tussen haakjes de hiërarchie

# SNOMED International SNOMED CT Browser

Release: Belgian Edition 20180315

Perspective: Full

Feedback

About



© SNOMED International 2018 v1.37.2

Taxonomy **Search** Favorites Refset

## Search

### Options

Search Mode: Partial matching search mode

Status: Active components only

Group by concept

Type at least 3 characters Example: *shou fra*

pep ulc

## Concept Details

### Concept Details

Summary **Details** Diagram Expression Refsets Members References

Stated Inferred

#### Parents

SNOMED CT Concept (SNOMED RT+CTV3)

Clinical finding (finding)

SCTID: 404684003

404684003 | Clinical finding (finding) |

Clinical finding (finding)

Clinical finding

No attributes

#### Children (33)

33 Children

© SNOMED International 2018 v1.37.2

Taxonomy **Search** Favorites Refset

Search

Options

Search Mode: Partial matching search mode

Status: Active components only

Group by concept

Filter results by Language

- english 153
- french 9
- dutch 8

Filter results by Semantic Tag

- disorder 156
- situation 8
- procedure 4
- finding 2

Filter results by Module

- SNOMED CT core module (core metadata concept) 153

Type at least 3 characters Example: *shou fra*

Search input: pep ulc

170 matches found in 0.24 seconds.

Peptic ulcer	Peptic ulcer (disorder)
peptisch ulcus	Peptic ulcer (disorder)
ulcus pepticum	Peptic ulcer (disorder)
ulcère peptique	Peptic ulcer (disorder)
FH: Peptic ulcer	Family history: Peptic ulceration (situation)
H/O: peptic ulcer	History of peptic ulcer (situation)
PU - Peptic ulcer	Peptic ulcer (disorder)
Peptic ulceration	Peptic ulcer (disorder)
Acute peptic ulcer	Acute peptic ulcer (disorder)
ulcère peptique aigu	Acute peptic ulcer (disorder)
acuut peptisch ulcus	Acute peptic ulcer (disorder)
Chronic peptic ulcer	Chronic peptic ulcer (disorder)
Peptic ulcer disease	Peptic ulcer (disorder)
Gastric peptic ulcer	Peptic ulcer of stomach (disorder)
Bleeding peptic ulcer	Peptic ulcer with hemorrhage (disorder)

Concept Details

Concept Details

Summary **Details** Diagram Expression Refsets Members References

- Parents
- Disorder of upper gastrointestinal tract (disorder)
  - Gastrointestinal ulcer (disorder)

**Peptic ulcer (disorder)** ☆

SCTID: 13200003

13200003 | Peptic ulcer (disorder) |

- Peptic ulcer
- Gastroduodenal ulcer
- Peptic ulcer (disorder)
- Peptic ulcer disease
- Peptic ulceration
- PUD - Peptic ulcer disease
- PU - Peptic ulcer
- ulcère peptique
- ulcère gastroduodénal
- ulcus pepticum
- peptisch ulcus
- gastroduodenaal ulcus

Associated morphology → Ulcer  
Finding site → Upper gastrointestinal tract structure

- Children (10)
- Acute peptic ulcer (disorder)
  - Chronic peptic ulcer (disorder)
  - Drug-induced peptic ulcer (disorder)
  - Gastroesophageal reflux disease with ulceration (disorder)
  - Peptic anastomotic ulcer (disorder)
  - Peptic ulcer of esophagus (disorder)
  - Peptic ulcer of newborn (disorder)



# SNOMED International SNOMED CT Browser

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Taxonomy **Search** Favorites Refset

★ 1 preferred synonym  
✓ 0-n accepted synonym

Search

Options

Search Mode: Partial matching search mode

Status: Active components only

Group by concept

Filter results by Language

- english 153
- french 9
- dutch 8

Filter results by Semantic Tag

- disorder 156
- situation 8
- procedure 4
- finding 2

Filter results by Module

- SNOMED CT core module (core metadata concept) 153

Type at least 3 characters ✓ Example: shou fra

pep ulc

170 matches found in 0.526 seconds.

Peptic ulcer	Peptic ulcer (disorder)
peptisch ulcus	Peptic ulcer (disorder)
ulcus pepticum	Peptic ulcer (disorder)
ulcère peptique	Peptic ulcer (disorder)
FH: Peptic ulcer	Family history: Peptic ulceration (situation)
H/O: peptic ulcer	History of peptic ulcer (situation)
PU - Peptic ulcer	Peptic ulcer (disorder)
Peptic ulceration	Peptic ulcer (disorder)
Acute peptic ulcer	Acute peptic ulcer (disorder)
ulcère peptique aigu	Acute peptic ulcer (disorder)
acuut peptisch ulcus	Acute peptic ulcer (disorder)
Chronic peptic ulcer	Chronic peptic ulcer (disorder)
Peptic ulcer disease	Peptic ulcer (disorder)
Gastric peptic ulcer	Peptic ulcer of stomach (disorder)
Bleeding peptic ulcer	Peptic ulcer with hemorrhage (disorder)

Concept Details

Summary **Details** Diagram Expression Refsets Members References

Peptic ulcer (disorder)

SCTID: 13200003 , Primitive , Active . Descendants count, Stated: 62 concepts, Inferred: 62 concepts.

Belgian French language reference set

Term	Acceptability (undefined)
S ★ ulcère peptique	Preferred
S ✓ ulcère gastroduodénal	Acceptable

Belgian Dutch language reference set

Term	Acceptability (undefined)
S ★ ulcus pepticum	Preferred
S ✓ gastroduodenaal ulcus	Acceptable
S ✓ peptisch ulcus	Acceptable

United States of America English language reference set

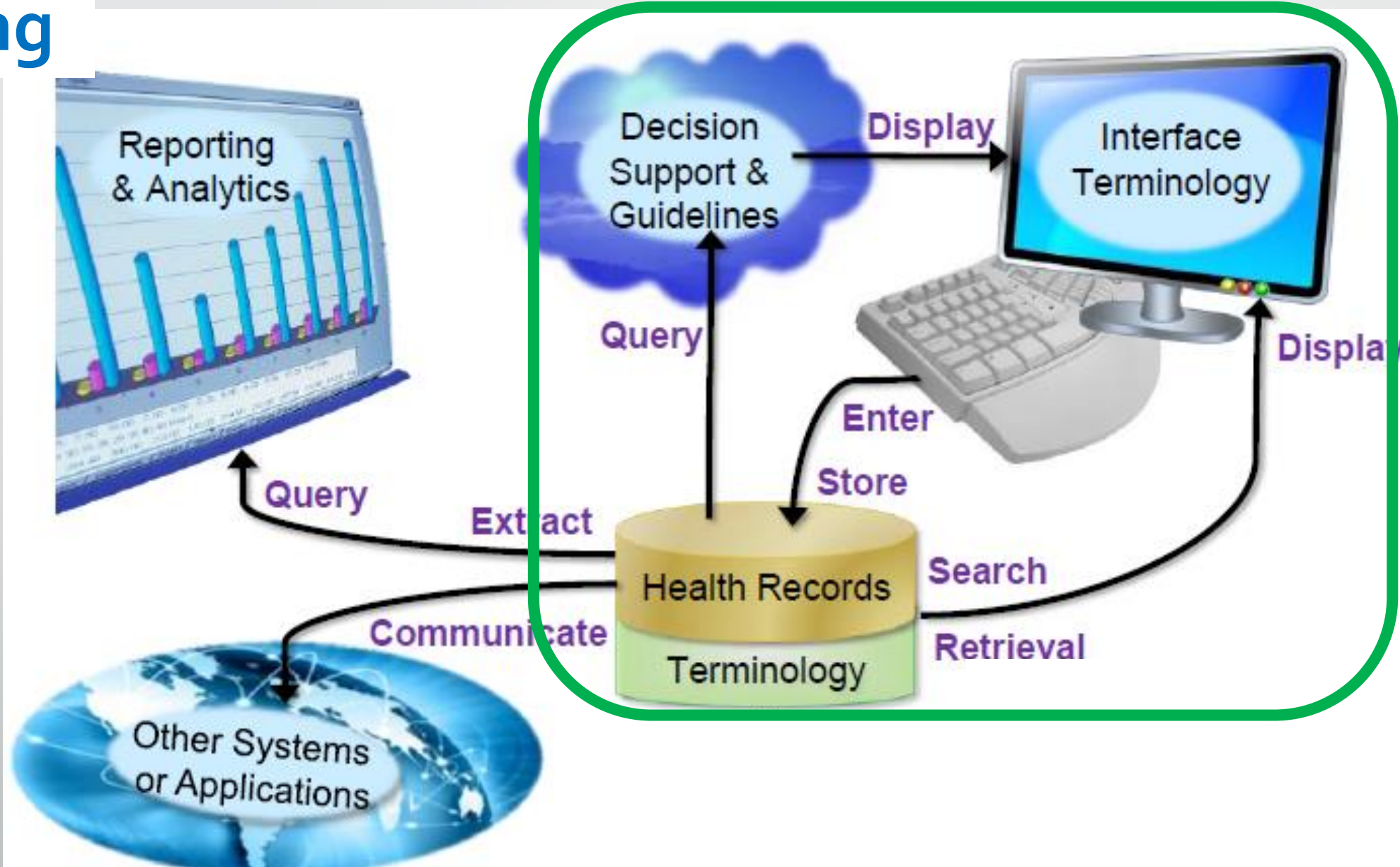
Term	Acceptability (US)
F ★ Peptic ulcer (disorder)	Preferred
S ★ Peptic ulcer	Preferred



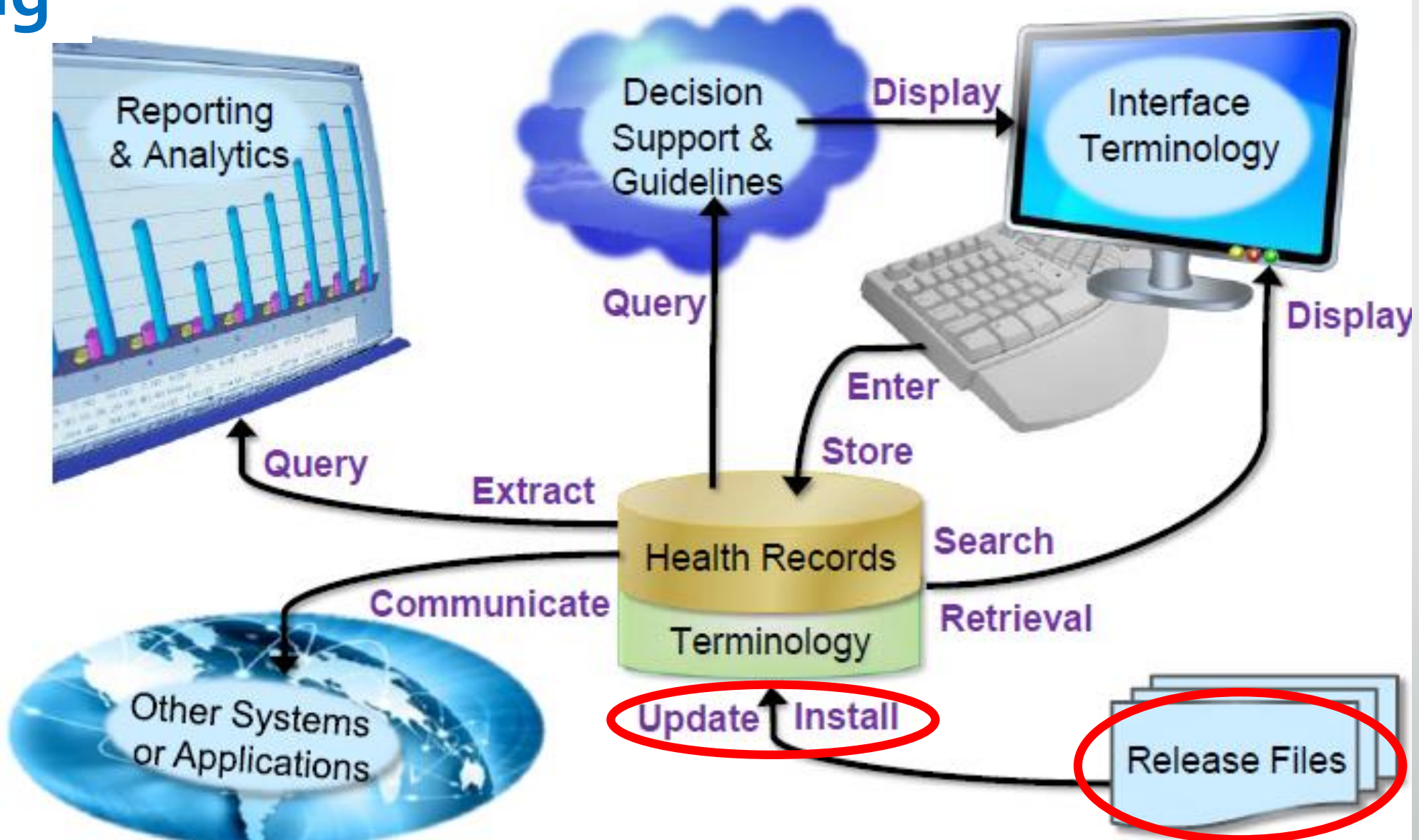
# Agenda

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  - De Belgische Extensie in de Internationale Browser
- **SNOMED CT release files**
  - situering
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  - inhoud
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  - documentatie en opleiding
  - volgende stappen
- Samenvatting

# Situering



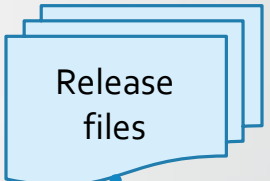
# Situering



# User-interface



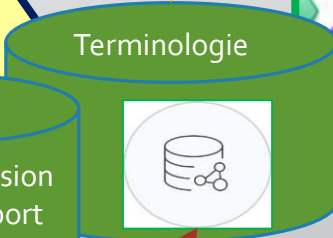
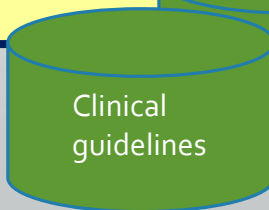
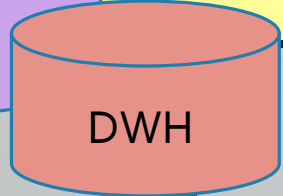
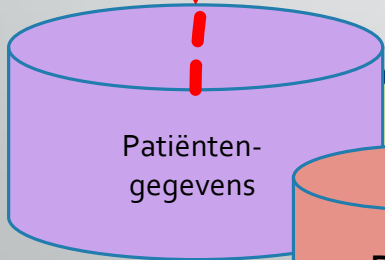
- Vrije tekst ⇒ NLP
- (Semi-) Gestructureerd
- Intelligente zoekmachine



## Application Software

Operationele databank met patiëntengegevens

- Vrije tekst
- **Gecodeerde** informatie



# SNOMED International

SNOMED International  
Leading healthcare terminology worldwide

Internationale release

## MLDS

Member Licensing and Distribution Service

Release files

Belgische Extensie

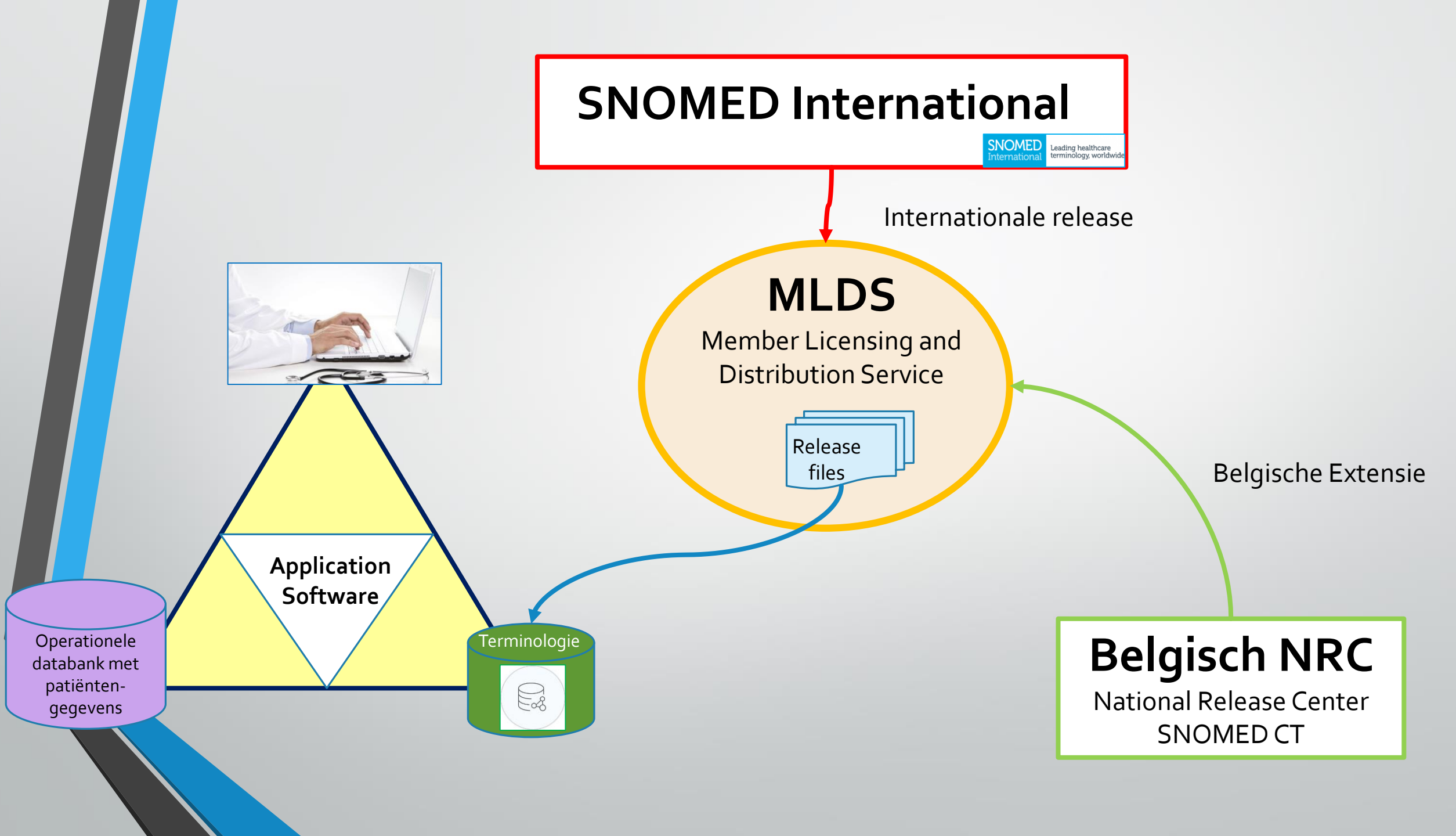
## Belgisch NRC

National Release Center  
SNOMED CT

Application Software

Operationele databank met patiëntengegevens

Terminologie



## Member Licensing and Distribution Service

### Welcome

> MLDS is a tool used by the NRC in Belgium to manage the Affiliate Licensing of SNOMED CT including new applications, renewals and usage reporting within Belgium and where relevant in non member countries.

> For further details, please refer to the [SNOMED International website](#) or the [Frequently Asked Questions](#).

[Register](#)

or [login here](#)

<https://mlds.ihtsdotools.org/>

Het gebruik van SNOMED CT is binnen de lidstaten voor alle gebruikers (individuele zorgverstrekkers, ziekenhuizen, industrie) **gratis**, maar vereist voor elk gebruik een afzonderlijke **licentie**.

https://mlds.ihtsdotools.org/

Welcome Ingrid Mertens

Usage Reports [View All >](#)

[+ New Report](#)

Report Date	Hospitals	Practices
2018-01 - 2018-12	0	0

Applications

Type	Date	Status	View
Primary	2018-01-11	Approved	<a href="#">Edit</a>

Account Information

Affiliate No: 197466

Type: Individual

Subtype: Research

Agreement Type: Affiliate

Account Standing: In Good Standing

## My Release Packages [View All >](#)

### Belgium

[Belgian National Extension](#)

[SNOMED CT International Edition](#)

[SNOMED CT Spanish package - Edición en Español](#)

[GP/FP SNOMED CT Refset and SNOMED CT to ICPC2 Map package](#)

[International Classification of Nursing Practice \(ICNP\) to SNOMED CT package](#)

#### Resources

[LOINC - SNOMED CT Cooperative package](#)

[SNOMED CT General Dentistry Diagnostic refset package](#)

[SNOMED CT Nursing refset packages - SNOMED International](#)

[SNOMED CT Odontogram refset package](#)

## Belgian National Extension

[View License](#)

March 2018 v1.0

This is the PRODUCTION Release of the March 2018 SNOMED CT Belgium Extension.

This package is dependent upon the SNOMED CT January 2018 International Edition, and so should be consumed and analysed accordingly.

This extension contains concepts, relationships and reference sets with their Dutch and French translations for healthcare professionals.

Further information is contained within the Release Notes, which can be downloaded as distinct files from this MLDS release version. They can also be found online here:

<https://confluence.ihtsdotools.org/display/RMT/SNOMED+CT+Managed+Service+-+Belgium+Extension+Release+Notes+-+March+2018>

MD5 hashes:

RF2 package: 183b9f14dc4a87d72d8026c4adbf3258

Release Notes: a4aec841206f0ea1d321ad169a7cbe47

Published on: 2018-03-15

File

[SnomedCT\\_BelgiumExtensionRF2\\_PRODUCTION\\_20180315T120000Z.zip](#)

[doc\\_SnomedCT-BE-Production-ReleaseNotes\\_Current-en-US\\_BE1000172\\_20180315.pdf](#)



# Release File Content – Examples

- Full
  - Terminology
  - Refset
    - Content
    - Language
    - Map
    - Metadata

- Snapshot
  - Terminology
  - Refset
    - Content
    - Language
    - Map
    - Metadata

- Delta
  - Terminology
  - Refset
    - Content
    - Language
    - Map
    - Metadata

- Documentation
- Resources

StatedRelationshipsToOwlKR

Concept

id	effectiveTime	active	moduleId	definitionStatusId
100000000	20090731	0	900000000000207000	90000000000074000
10000006	20020131	1	900000000000207000	90000000000074000
1000004	20030131	0	900000000000207000	90000000000074000
100001001	20090731	0	900000000000207000	90000000000074000
100002008	20090731	0	900000000000207000	90000000000074000
100003003	20090731	0	900000000000207000	90000000000074000

Description

id	effectiveTime	active	moduleId	conceptId	languageCode	typId	term	caseId
100000016	20020131	0	900000000000207000	60203004	en	90000000000013000	Abrasion or friction burn of gum with infection	9000000000000000000
10000010	20020131	1	900000000000207000	5379004	en	90000000000013000	Small intestine muscularis propria	9000000000000000000
100001017	20020131	1	900000000000207000	60203004	en	90000000000013000	Gingival abrasion with infection	9000000000000000000
100002012	20020131	1	900000000000207000	60204005	en	90000000000013000	Cauterization of conjunctival lesion	9000000000000000000
100004013	20020131	1	900000000000207000	60206007	en	90000000000013000	Cutaneous actinobacillosis of sheep AND/OR cattle	9000000000000000000
100005014	20020131	0	900000000000207000	60206007	en	90000000000013000	Cutaneous actinobacillosis of sheep and cattle	9000000000000000000
100006010	20020131	1	900000000000207000	60207003	en	90000000000013000	Fibre lapper	9000000000000000000
100007018	20020131	1	900000000000207000	60208008	en	90000000000013000	Coagulation factor V	9000000000000000000
100008011	20130731	1	900000000000207000	60208008	en	90000000000013000	Proaccelerin	9000000000000000000

Relationship

id	effectiveTime	active	moduleId	sourceId	destinationId	relationshipGroup	typId	characteristicTypId	m
1000000021	20020731	0	900000000000207000	255116009	367639000	0	308489006	90000000000011000	9000000000000000000
100000028	20020131	1	900000000000207000	280844000	71737002	0	116680003	90000000000011000	9000000000000000000
1000001020	20020731	0	900000000000207000	255135009	49596003	0	363698007	90000000000011000	9000000000000000000
1000002029	20080731	0	900000000000207000	10002003	129304002	1	260686004	90000000000011000	9000000000000000000
10000023	20100131	0	900000000000207000	10392004	47040006	0	116680003	90000000000011000	9000000000000000000
1000003023	20030131	0	900000000000207000	10002003	119212007	3	363704007	90000000000011000	9000000000000000000
1000004028	20050131	0	900000000000207000	10041001	91241007	2	116676008	90000000000011000	9000000000000000000
1000005027	20020731	0	900000000000207000	10041001	44567001	1	363698007	90000000000011000	9000000000000000000

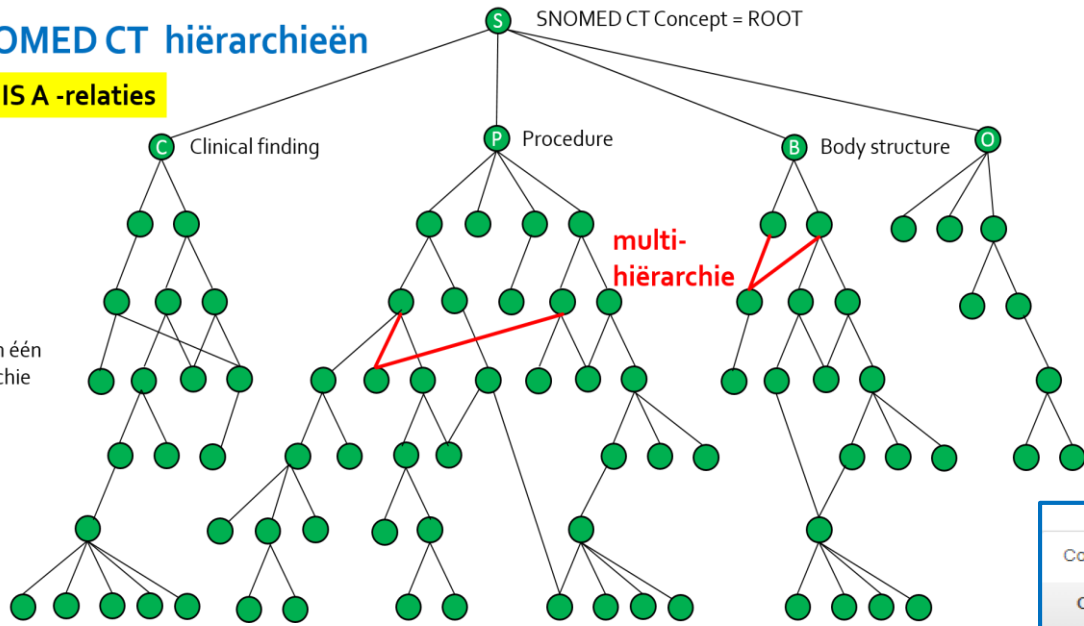
# Structuur van SNOMED CT

- De basis van SNOMED CT zijn de klinische ideeën of “**concepten**”.
- Leesbaar voor mensen :
  - elk concept heeft beschrijvingen/labels, “**descriptions**” in verschillende talen.
- Interpreteerbaar voor computers :
  - SNOMED CT concepten worden gedefinieerd op basis van “**relaties**”.

# SNOMED CT hiërarchieën

## ISA -relaties

Binnen één hiërarchie

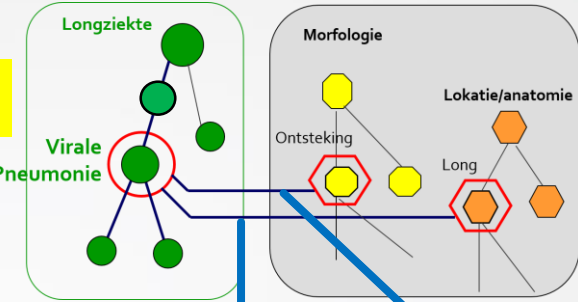


Clinical finding (finding)  
Disease (disorder)

Body structure (body structure)  
Body structure, altered from its original anatomical structure (morphologic abnormality)

## ISA -relaties

Binnen één hiërarchie



## Attribuut-relaties

Tussen hiërarchieën

Finding site      Associated morphology

<http://browser.ihtsdotools.org/>

## ISA -relaties

## Attribuut-relaties

# Agenda

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# Internationale release

## Components

- Concepts
- Relationships
- Descriptions

Engels ⇒

- ✓ FSN is uniek en beschrijft éénduidig over welk concept het gaat
- ✓ Bevat tussen haakjes de (sub)hiërarchie

- FSN : Fully specified name
- Synoniemen

## Refsets

- Language refsets ⇒ 1 preferred / 0-n accepted synonym
- Subsets
- Mappings
- ...



# Eerste Belgische Extensie

## Components

- **Concepts**
- **Relationships**
- **Descriptions**

} Voorlopig nog geen nieuwe  
Enkel wat nodig is om een nationale extensie op te starten

⇒ **Engels, Frans en Nederlands**

De **FSN** (Fully specified name) **wordt niet vertaald** en blijft in het Engels

# Eerste Belgische Extensie

## Refset :

- **Language refset :**

Aan één synoniemen wordt (binnen een bepaalde context) de voorkeur gegeven (**preferred term**)

- Engels (voor de nieuwe concepten)

- Nederlands

- Frans

}

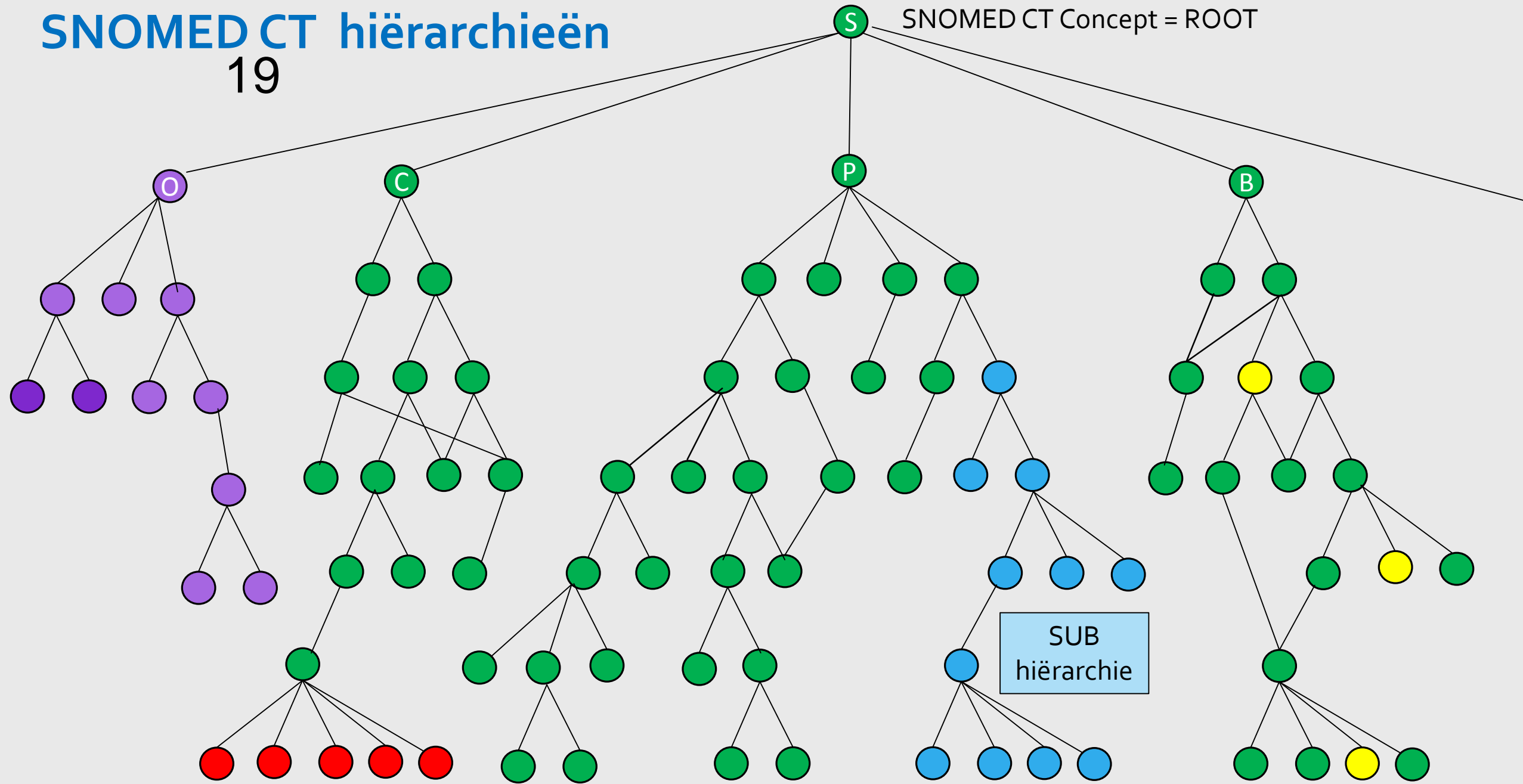
enkel wat vertaald is

⇒ aanpassen/samenvoegen in functie van gebruik

# SNOMED CT hiärarchieen

19

S SNOMED CT Concept = ROOT





# Inhoud van de eerste Belgische Extensie: vertalingen in het Nederlands en het Frans voor **26.813** actieve concepten verdeeld over de onderstaande (sub)hiërarchieën

(sub)hierarchy	Totaal (sub) hierarchy	Vertaald	%	Fr-syn	Nl-syn
finding	35606	878	2.47 %	346	240
disorder (finding)	75477	4424	5.86 %	1540	1088
procedure	55119	867	1.57 %	22	17
regime/therapy (procedure)	2687	156	5.81 %		
situation	4681	67	1.43 %	46	5
event	3623	2299	63.46 %		
organism	34303	17120	49.91 %		
Occupation (social concept)	3756	236	6.28 %		
environment (environment/location)	1200	145	12.08 %		
geographic location (environment/location)	618	618	100.00 %		
core metadata concept	50	1			
foundation metadata concept	252	2			
<b>Total (ALL)</b>	<b>341110</b>	<b>26813</b>	<b>7.86 %</b>	<b>1954</b>	<b>1350</b>

## Taxonomy



Inferred view ▾

Descendants Count: Off ▾

- ▼ ● SNOMED CT Concept
  - ▶ ● Body structure (body structure)
  - ▶ ● Clinical finding (finding) disorders
  - ▶ ● Environment or geographical location (environment / location)
  - ▶ ● Event (event)
  - ▶ ● Observable entity (observable entity)
  - ▶ ● Organism (organism)
  - ▶ ● Pharmaceutical / biologic product (product)
  - ▶ ● Physical force (physical force)
  - ▶ ● Physical object (physical object)
  - ▶ ● Procedure (procedure) regime/therapy
  - ▶ ● Qualifier value (qualifier value)
  - ▶ ● Record artifact (record artifact)
  - ▶ ● Situation with explicit context (situation)
  - ▶ ● SNOMED CT Model Component (metadata)
  - ▶ ● Social context (social concept)
  - ▶ ● Special concept (special concept)
  - ▶ ● Specimen (specimen)
  - ▶ ● Staging and scales (staging scale)
  - ▶ ● Substance (substance)

e.g. autoimmune disease

e.g. nursing-activities

e.g. (family) history

**Taxonomy**

Inferred view ▾ Descendants Count: Off ▾

- ▼ SNOMED CT Concept
  - ▶ Body structure (body structure)
  - ▶ Clinical finding (finding)
  - ▶ **Environment or geographical location (environment / location)**
  - ▶ **Event (event)** ← 63 %
  - ▶ Observable entity (observable entity)
  - ▶ **Organism (organism)** ← 50 %
  - ▶ Pharmaceutical / biologic product (product)
  - ▶ Physical force (physical force)
  - ▶ Physical object (physical object)
  - ▶ Procedure (procedure)
  - ▶ Qualifier value (qualifier value)
  - ▶ Record artifact (record artifact)
  - ▶ Situation with explicit context (situation)
  - ▶ SNOMED CT Model Component (metadata)
  - ▶ **Social context (social concept)**
  - ▶ Special concept (special concept)
  - ▶ Specimen (specimen)
  - ▶ Staging and scales (staging scale)
  - ▶ Substance (substance)

93% micro-organism

- ▼ Social context (social concept)
  - Community (social concept)
  - ▶ Family (social concept)
  - ▶ Group (social concept)
  - Institution (social concept)
  - ▶ Life style (life style)
  - ▼ Occupation (occupation)
    - ▶ Animal health occupation (occupation)
    - ▶ Assembler (occupation)
    - ▶ Catering/personal services (occupation)
    - ▶ Clerical occupation (occupation)
    - ▶ Construction/mining worker (occupation)
    - ▼ Education/welfare/health profession (occupation)
      - ▶ Career/vocational officer (occupation)
      - ▶ Education profession (occupation)
      - ▼ Healthcare professional (occupation) ← 50 %
        - ▶ Anesthetist (occupation)
        - ▶ Complementary health worker (occupation)
        - ▶ Dentist (occupation)
        - Foot care worker (occupation)
        - ▶ Health educator (occupation)

- ▶ Body structure (body structure)
- ▶ Clinical finding (finding)
- ▼ Environment or geographical location (environment / location)
  - ▼ Environment (environment)
    - ▶ Community environment (environment)
    - ▶ Geographical environment (environment)
    - ▶ Hospital environment (environment) ←
    - Inpatient environment (environment)
    - ▶ Outpatient environment (environment)
    - ▶ Personal environment (environment)
    - ▶ Physical environment (environment)
    - ▶ Place (environment)
    - ▶ Site of care (environment)
    - ▼ Geographical and/or political region of the world (geographic location) ← 100 %
      - ▶ Country (geographic location)
      - ▶ Geographical continent (geographic location)
      - ▶ Part of country (geographic location)
      - Sub-Saharan Africa (geographic location)
      - ▶ Subcontinent (geographic location)
  - ▶ Event (event)

# SNOMED CT hiërarchieën

19

S

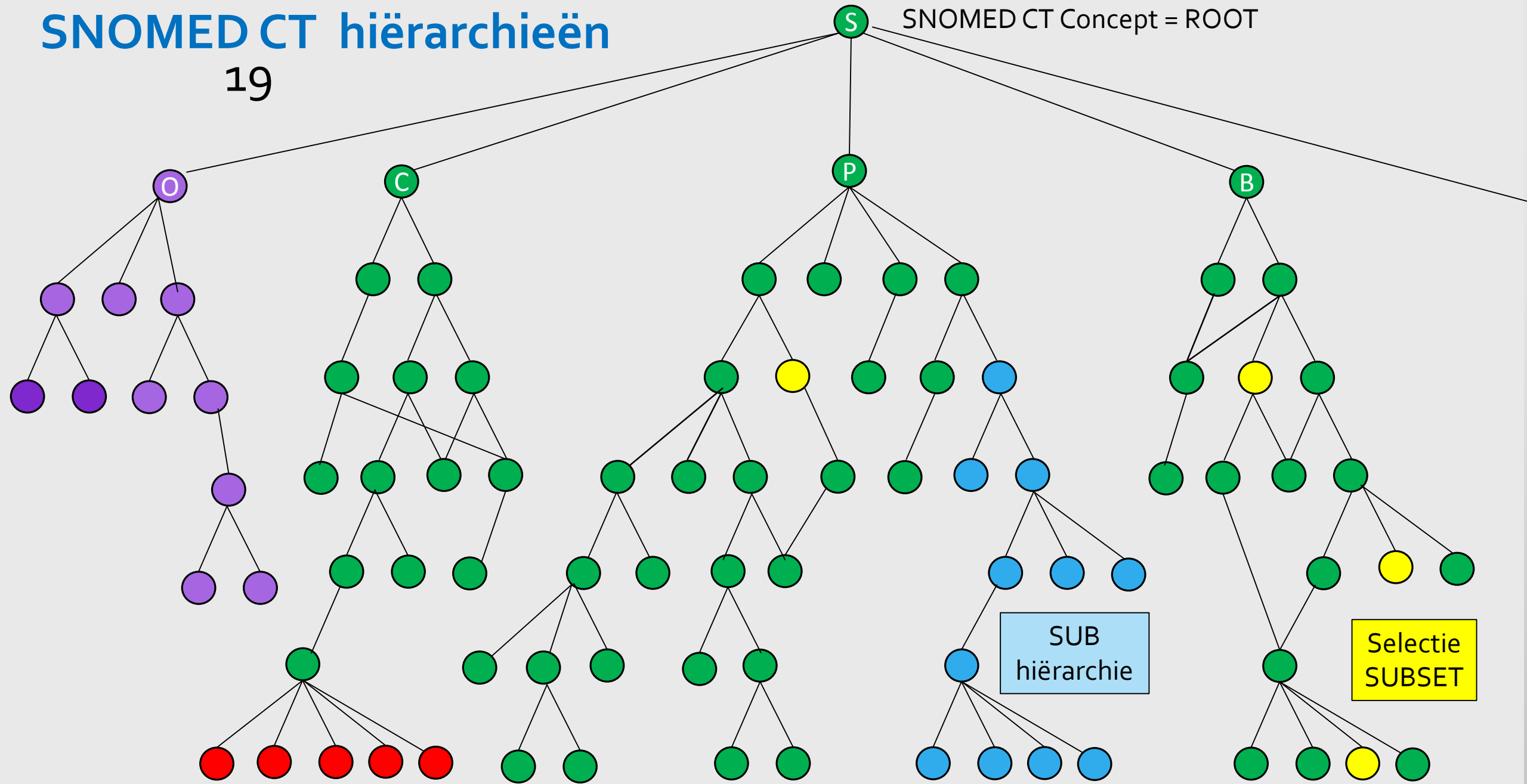
SNOMED CT Concept = ROOT

O

C

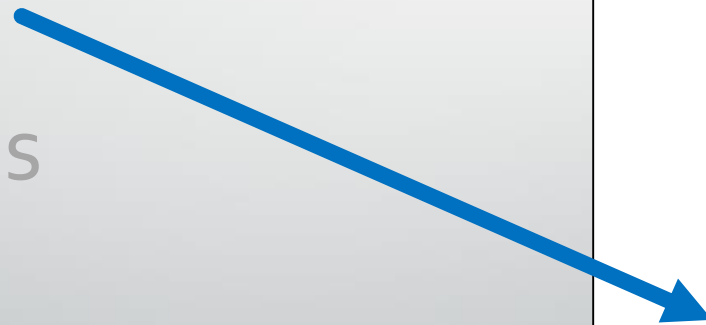
P

B



# Internationale release

- Components:
- Refsets
  - Language refsets
  - Subsets
  - Mappings
  - ...



## My Release Packages [View All »](#)

Belgium

Belgian National Extension

SNOMED CT International Edition

SNOMED CT Spanish package - Edición en Español

GP/FP SNOMED CT Refset and SNOMED CT to ICPC2 Map package

International Classification of Nursing Practice (ICNP) to SNOMED CT package

Resources

LOINC - SNOMED CT Cooperative package

SNOMED CT General Dentistry Diagnostic refset package

SNOMED CT Nursing refset packages - SNOMED International

SNOMED CT Odontogram refset package

# SNOMED CT Nursing refset packages

- ✓ Nursing **Activities** Reference Set
  - **883** active concepts (99% translated)
  - from the **Procedure** hierarchy.
- ✓ Nursing **Health Issues** Reference Set
  - **452** active concepts (22% translated)
  - from the **Clinical finding** hierarchy.

Maintained in line with each release of SNOMED CT

⇒ Nursing Editorial Group

## My Release Packages [View All >](#)

Belgium

Belgian National Extension

SNOMED CT International Edition

SNOMED CT Spanish package - Edición en Español

GP/FP SNOMED CT Refset and SNOMED CT to ICPC2  
Map package

# International General/Family Practice refset

⇒ (72% translated)

- **Reasons for encounter**
- **Health issues**

⇒ The content of the subset covers the following:

- Symptoms and signs
- Disorders and diseases
- Results
- Family history
- Allergies
- Adverse drug reactions
- Processes and procedures
- Social history

## Map to the International Classification of Primary Care : ICPC2

# Agenda

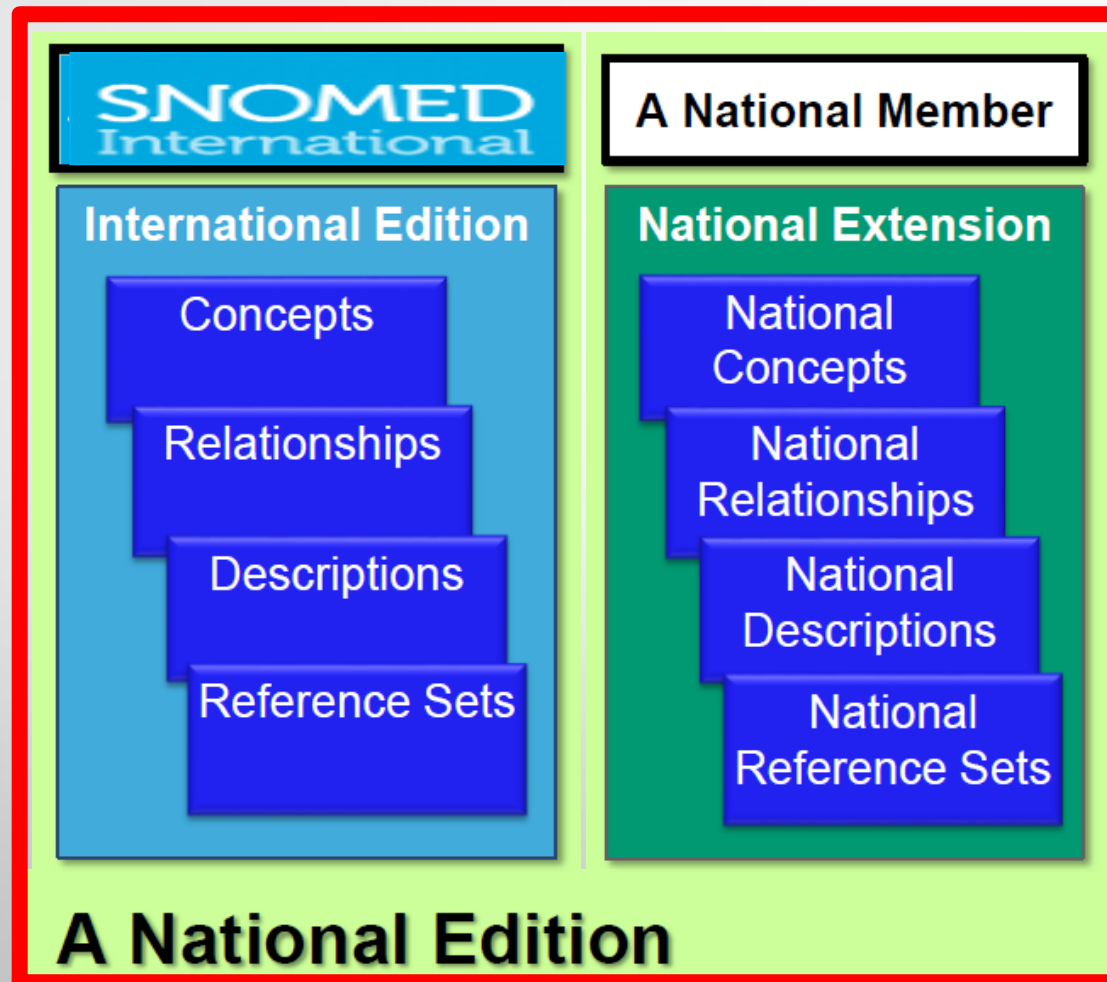
- Eerste Belgische release van SNOMED CT
  - De Belgische Extensie in de Internationale Browser
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  - situering
  - downloaden via MLDS
  - structuur van een release / structuur van SNOMED CT
- De Internationale release en de Belgische Extensie
  - inhoud
  - **update-cyclus**
  - documentatie en opleiding
  - volgende stappen
- Samenvatting



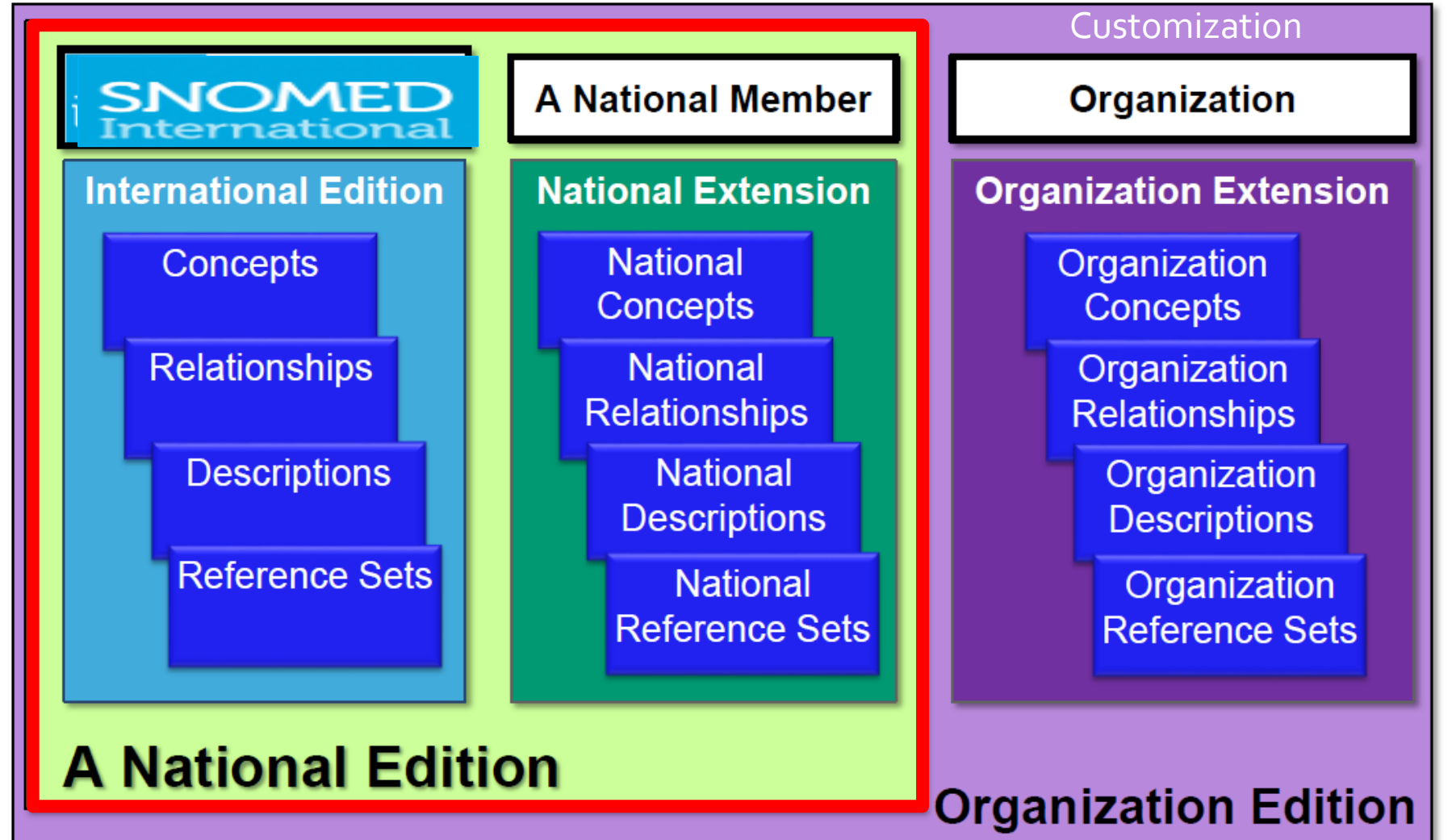
# Update van Belgische extensie

- **Volgt de internationale release**
- **Om de 6 maanden**
- **Midden maart en midden september**

# Steeds Internationale Editie nodig + Belgische Extensie



# Steeds Internationale Editie nodig + Belgische Extensie



# Agenda

- Eerste Belgische release van SNOMED CT
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- **Samenvatting**

## SNOMED CT

11/04/2016



Artikel

- ▶ [Belgische Extensie](#)
- ▶ [Publicaties](#)
- ▶ [Licenties](#)
- ▶ [Aanvragen](#)

### SYSTEMATIZED NOMENCLATURE OF MEDICINE CLINICAL TERMS® (SNOMED CT®)

SNOMED CT® is een internationaal terminologiestelsel en bevat een medisch gevalideerde, semantisch rijke en gecontroleerde lijst van klinische termen met hun synoniemen. Deze terminologie wordt in de directe patiëntenzorg gebruikt voor het vastleggen van onder meer psychische en fysieke klachten, symptomen, omstandigheden, ziekteprocessen, interventies, diagnoses, resultaten en besluitvorming. SNOMED CT® voorziet hierdoor in een gemeenschappelijke taal voor gezondheidswerkers en onderzoekers zowel nationaal als internationaal. Momenteel wordt het systeem in meer dan 50 landen toegepast en maakt het een consistente, verwerkbare weergave van klinische gegevens in elektronische patiëntendossiers mogelijk.

#### Inhoud en structuur van SNOMED CT®

SNOMED CT® bevat meer dan 350 000 klinische concepten, onderverdeeld in 19 hiërarchische groepen (o.a. geneesmiddelen, medische bevinding...). Ieder concept vertegenwoordigt een eenduidige klinische betekenis

Bezoek onze sectie licentie indien u zich wenst te [registreren voor het verkrijgen van een vrije licentie](#).

#### Referenties

- ▶ [SNOMED International](#) <sup>1</sup>
- ▶ [SNOMED CT® Document Library met toegang tot Engelstalige documentatie, inclusief de meest recente Engelstalige versie van startersgids](#) <sup>2</sup>
- > [SNOMED CT Startersgids \(Nederlandstalige versie\)](#) (juli 2014)
- ▶ [SNOMED CT® E-learning server met toegang tot de gratis Foundation Course \(Opgelet, u dient uzelf eerst op de website te registreren alvorens u hier toegang tot zal krijgen\)](#) <sup>3</sup>

## SNOMED CT : Belgische Extensie

12/03/2018



Artikel

### Inleiding

De Belgische extensie van SNOMED CT is vanaf 15 maart 2018 beschikbaar. In lijn met de internationale releasecyclus zal deze extensie tweemaal per jaar geüpdatet worden, in maart en september. Stelselmatig zal ook het aantal vertalingen toenemen.

De Belgische extensie is afhankelijk van, en dient dus steeds samen met de SNOMED CT January 2018 International Edition release gebruikt te worden.

### Inhoud: maart 2018

De Belgische extensie bevat 26.814 vertaalde internationale concepten, waaronder 2 nieuwe concepten en 3 concepten specifiek voor de Belgische release, namelijk de Belgische module (core metadata concept) en de Franse en Nederlandse *language refset* (foundation metadata concept).

Alle concepten hebben een Franse en Nederlandse preferred term. Daarnaast bevat de release ook 1.945 Franse en 1.373 Nederlandse synoniemen.

Meer informatie over de inhoud van de release leest u in de release notes, beschikbaar op de MLDS-service van SNOMED International.

### Release downloaden

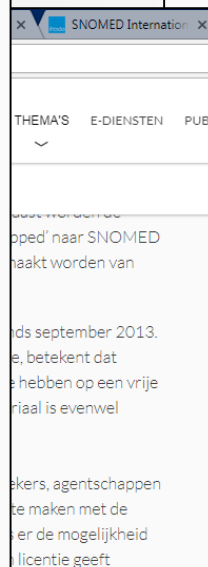
Iedereen die over een licentie beschikt kan de Belgische release downloaden via de MLDS-service van SNOMED International. Indien u nog geen licentie heeft, bezoek dan onze sectie licentie waar u zich kunt [registreren](#).

### Nieuwe versies

Tweemaal per jaar wordt de internationale versie van SNOMED CT door SNOMED International geactualiseerd. De Belgische extensie zal dus ook tweemaal per jaar vernieuwd worden, en dit in maart en september.

### Feedback geven?

Heeft u vragen of feedback over onze Belgische extensie? Contacteer ons dan via [terminologie@health.belgium.be](mailto:terminologie@health.belgium.be) <sup>1</sup>. U kunt via deze weg eveneens vragen stellen over de internationale editie.



SNOMED CT Document Library

SNOMED Documentation Search

Release Documents

Informal Papers and Guides

Public Draft Documentation

Technical Resources

SNOMED CT Browsers

Expo

SNOMED CT Expo

Other Documents

Space tools

Pages / SNOMED CT Document Library 9,056 view(s)

Save for later Watch Share

## Release Documents

Created by David Markwell, last modified on 2017-Dec-19

Release Documents Informal Papers and Guides Draft Documentation Technical Resources Browsers Expo Presentations

Documents provided with the SNOMED CT release. Individually elements of these documents may be formally approved specifications or guidance. However, the documents may also include draft material. The status of each document or section is indicated either by a textual status note or using colored symbols explained in the document preface.

Title	Description
<b>Starter Guide</b>	The best place to start learning about SNOMED CT or to refresh existing knowledge. An overview of a range of topics related to the terminology.
<b>Vendor Introduction to SNOMED CT</b>	An informative practical introduction to SNOMED CT focused primarily on the needs of vendors and developers of EHRs and other related applications in healthcare information technology.
<b>Technical Implementation Guide</b>	The Technical Implementation Guide (TIG) provides a general overview of technical topics related to SNOMED CT implementation. It also provides an entry point to individual guides on more specific topics. <ul style="list-style-type: none"><li>Release File Specification</li><li>Expressions - Compositional Grammar Specification</li><li>Expression Constraint Specification</li><li>URI Standard</li><li>Diagramming Guideline</li><li>Terminology Services Guide</li><li>Search and Data Entry Guide</li><li>Record Services Guide</li><li>Editorial Guide</li><li>Machine Readable Concept Model</li><li>Practical Guide to Reference Sets</li><li>Data Analytics with SNOMED CT</li><li>Decision Support with SNOMED CT</li><li>Extensions Guide</li><li>Change Management Guide</li></ul>
<b>National Release Center Guide</b>	The National Release Center Guide (NRC Guide) offers a practical starting point for IHTSDO Member countries. It provides guidance on NRC responsibilities and the relationships between NRCs, IHTSDO, and implementers and users within a Member country. To learn more about SNOMED CT please refer instead to the SNOMED CT Starter Guide.
<b>Editorial Guide</b>	Detailed information about SNOMED CT content development. SNOMED CT CT, hierarchies, defining relationships and content model.
<b>ICD-10 Mapping Specification</b>	The specification for the SNOMED CT to ICD-10 Maps and Guidance on implementation of this specification.
<b>Data Analytics with SNOMED CT</b>	This document reviews current approaches, tools and techniques for performing data analytics using SNOMED CT and to share developing practice in this area. It is anticipated that this report will benefit members, vendors and users of SNOMED CT by promoting a greater awareness of both what has been achieved and what can be achieved by using

# Online opleidingen

<https://elearning.ihtsdotools.org>

- **Foundation Course**

A starting point from which anyone with a general interest in healthcare information can begin learning about SNOMED CT

- **Vendor Course**

Introductory guide for system vendors to learn about the value and options for using SNOMED CT within their systems

- **Implementation Course**

Detailed specifications of release files and other standards

Guidance on various aspects of SNOMED CT implementation

- **SNOMED CT Content Development Theory E-Learning Course**

# Volgende stappen

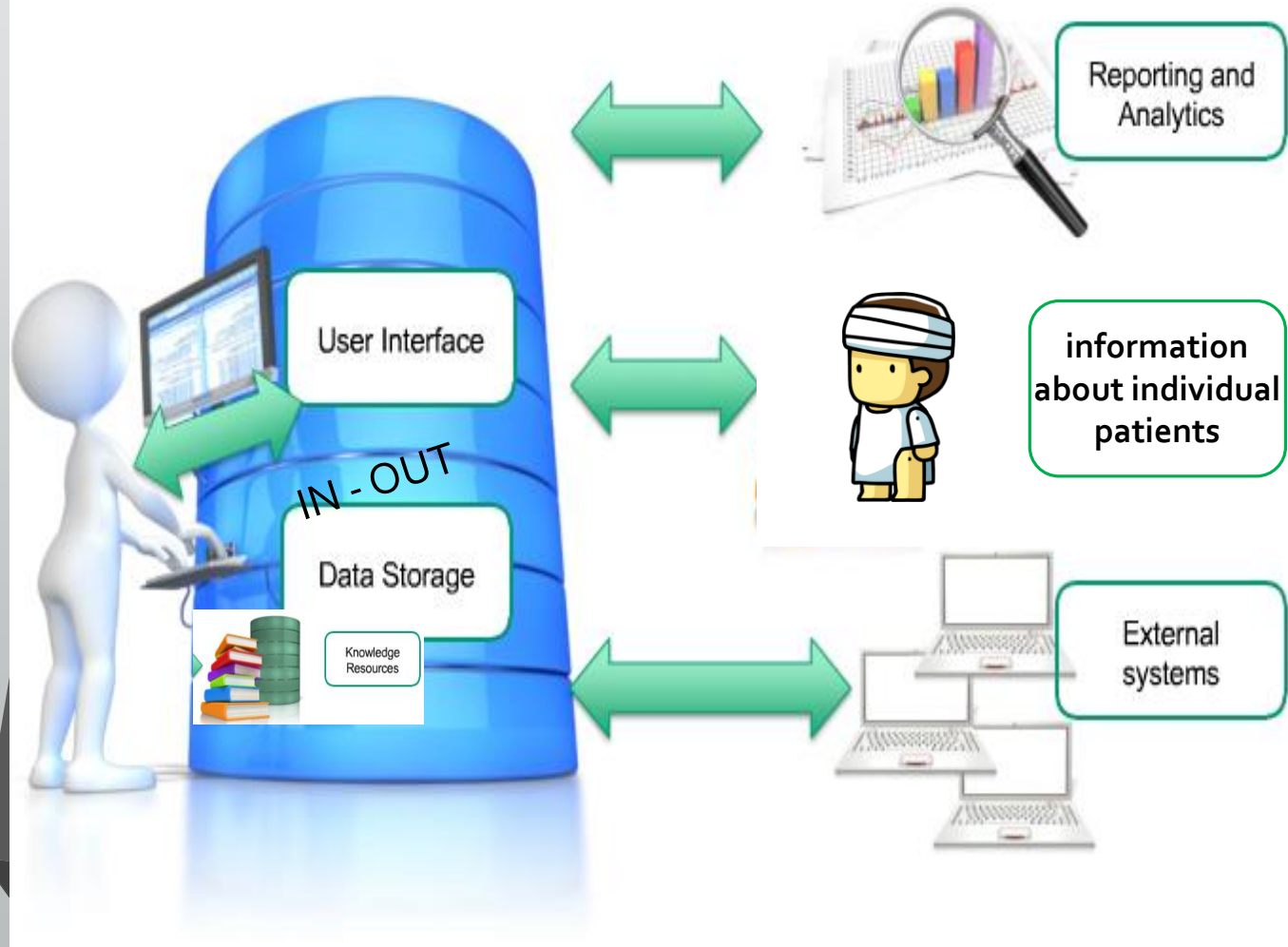
- **Verder vertalen:**
  - Prioriteiten bepaald door use-cases
  - Internationale subsets
  - Quick wins
- **Use-cases:**
  - Vertalen van beschrijvingen van betrokken concepten
  - Refsets : Subsets / Value-sets / mappings
  - Nieuwe concepten: Internationaal / Extensie
- **Care-sets:**
  - Moeder-kind



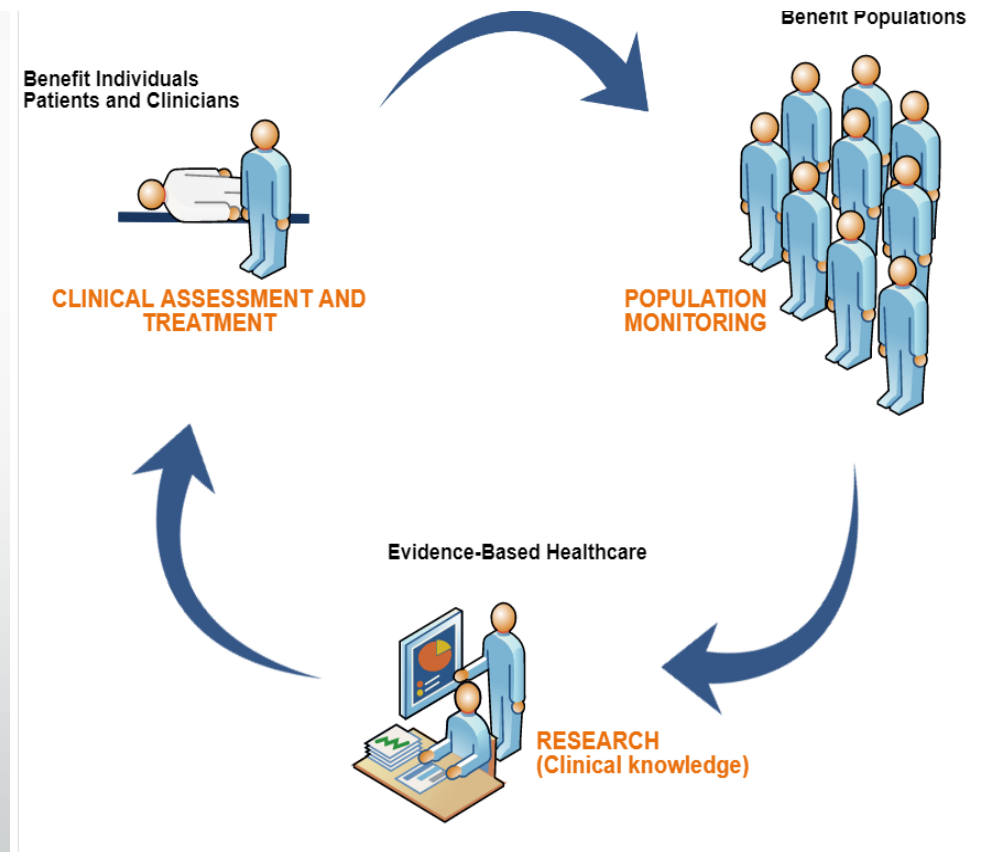
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  - volgende stappen
- **Samenvatting**

# Using SNOMED CT in Clinical Information



## SNOMED CT Benefits



# SNOMED CT Implementation

User-interface



Application  
Software

Referentie-DB

EBM

Terminologie



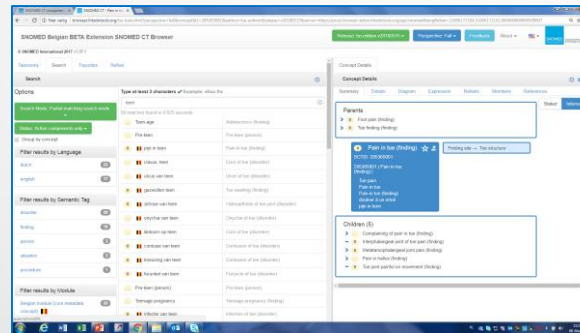
Genees-  
middelen

MLDS = Member Licensing and Distribution Service



- Internationale Release :  
3 Components : concepts, descriptions, relations  
Refset : language, subsets, value-sets, mappings
- BE-Extensie

SNOMED International  
Browser  
Int + BE-Ext



NRC :

- Licentiebeheer
- Belgische Extensie :
  - Vertalingen
  - Belgische concepten
  - Refsets voor implementatie:  
=> Voor use-cases/care-sets
    - Language
    - Subsets
    - Value-set
    - Mappings
- Opleiding/ondersteuning

Dank U voor Uw  
aandacht



**Terminologiecentrum**  
<http://www.terminology-center.be>  
[terminologie@gezondheid.belgie.be](mailto:terminologie@gezondheid.belgie.be)