Nictiz in one sheet

• dec 2001: one platform for ICT in Healthcare

• 2002 - 2006 make an EHR possible in NL
  • choice for national index registry and HL7v3

• 2007 - 2011 legislation for use of identifiers
  • EHR rejected in parliament on April 5th 2011 (supposed privacy issues: politicians have 'cold feet')

• 2012 - ... split up of Nictiz
  • funded by the Government Nictiz continues the standards and developments to improve Healthcare IT
  • denationalization of the national index registry and continuation in a private service centre for healthcare

• National Release Centre of SNOMED CT
What is a Terminology Explorer?

- Searching through terminologies
- Internet
- XML database
- Semantic web technology
- Always in development
Results (50 of 1042)

P: Pneumonia
S: Pneumouria
P: Pneumocyte
P: Pneumonitis
S: Pneumoneces
S: Pneumovirus
P: Pneumocystis

**Pneumonia** (disorder)

- Pneumonitis (disorder)
- Haematoleech (organism)
- Genus Pneumovirus (organism)
- Pneumocystis (organism)
- Pneumocyte (cell)
- Pneumonuria (finding)

**Lung consolidation**

**Pneumonitis**

**Pneumonia (disorder)**

- Id: 233604007
- Definition status: Primitive
- Associated morphology: Consolidation
- Associated morphology: Inflammation
- Finding site: Lung structure

- Abscess of lung with pneumonia
- Acute mucous pneumonia
- Aspiration pneumonia
Why?

Snoflake browser

- What else does a terminology explorer offer?
Why?

- Fast and simple
- Help the user to understand and use terminology
- Help the user to get familiar with search techniques
- Not just SNOMED CT
- Part of more
Fast and simple

• No other functionalities like mapping and creation of reference sets
• Focus on the way of searching and showing
• Simple use via internet – no registration needed
Design and notion of terminology

• Introduce terminology to user
• Help the user to understand how the terminology is set up
• Create awareness where terminology can be used for
• Get familiar with the content of terminology
• Let the user ‘taste’ by looking into the terminology
  • Experience the terminology
  • Get used to English terms
  • Completeness of terminology
  • Complexity of terminology
Get used to search techniques

- Care professional is familiar with terms and not with codes
- Search with part of terms
- Search with combination of terms
- Search in English and Dutch
- Showing the **terms** that are familiar to care professional
Not just SNOMED

• Layout that fits the terminology
• Links between the terminologies

• DHD diagnoses – diagnosis list of hospitals
• Logical Observation Identifiers Names and Codes (LOINC)
• ICD10
• International Classification of Functioning (ICF)
• ISO 9999 - Assistive products for persons with disability
Part of more

• Tool: Art-decor (Advanced Requirements Tooling)
• More terminology explorers → one database
• Datasets with value sets → terminology
• HL7 mapping
Demo

- Search in SNOMED CT
- Search in diagnosis list, link to SNOMED CT
- Search in ISO 9999, search in English and Dutch

- Demo
Whats next

• Adding more terminology explorers:
  • National Extension
  • Reference sets with specific purposes
    • Physical therapists ICF in combination with SNOMED CT
    • Optometristic data: SNOMED CT with Dutch synonyms

• Open source:
  • Disposal of search and find modules to integrate in software
  • Subscription to updates of data

• Development: filtering

• Always in development: Comments about the terminology explorers are very welcome!
Wrap up

- Terminology explorer shows terms and their definition of a specific terminology
- Terminology Explorers offer
  - Introduction
  - Notion
  - Awareness
Questions?

Links:

Advanced requirements tool
http://decor.nictiz.nl/art-decor/home

SNOMED CT Explorer
http://terminologie.nictiz.nl

Elze de Groot
Consultant

www.nictiz.nl