SEMantic INterOPerability

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eHealth-Platform
Terminology Working Groups

- Organisation
- Methodology
- Status per sector
Organisation Terminology Working Groups

- **Experts**
  - Objective
    - Supervision, validation terminology work
    - Communication internal & external
  - Profile
    - Universities, professional organisations

- **Terminologists**
  - Development terminology
  - Terminology center
Methodology Terminology Working Groups

- Development Terminology
  - Selection concepts
  - Translation
  - Mapping
  - Rule base

- Testing

- Production

- Maintenance
Selection concepts

- Existing lists
  - Local
  - Snomed

- Two independant terminologists (Fr/Nl)
  - Criteria in-/exclusion
  - Linking Snomed CT
    - Subset
    - Extension
  - Comparison & Discussion
Selection concepts

- Clinical (registration in Electronic Health Record)
  - Not ‘…. Other’ ‘…. NEC’
- Specific, not vague
  - E.g. not like 'Heart block'
- Not ambiguous (no homonyms)
  - Not ‘…. Other’ ‘…. Or ….’
- Actual
  - E.g. not 'Hepatitis non-A non-B'
- No synonyms
  - Synonyms in Terminology interface
Translation Ni/Fr

- As literal as possible
- Singular preferred
- Description preferred over eponym
- Lower case letter in the first word
- No abbreviations
- Prefer a noun over adjective
  - « de la prostate » vs. « prostatique »
Mapping Belgian Terminology

- **National Id**
  - Labo: Albert-code
  - Clinical: IBUI (Identificateur Belge Unique / Belgische Unieke Identifier)
  - Medication: CNK
  - Medical devices: CMM

- **International**
  - Diagnoses
    - ICD-10 (WHO), ICD-9-CM, ICD-10-CM, ICPC2, Snomed
  - Procedures
    - ICD-9-CM, ICD-10-CM/PCS, ICPC2, Snomed
  - Medication
    - ATC, Snomed
  - Medical devices
    - Snomed
  - Observations
    - LOINC, Snomed

- **Local codes**
  - E.g. Resource Management Systems
Snomed CT

- English Reference Terminology (US, UK, AU…)
  - Clinical registration in Electronic Health Record
  - AI types of concepts (disorders, procedures, function loss, medication, observations, professions…)
  - Formal Ontology
  - Harmonisation agreements
    - WHO-classifications (ICD-10, ICPC-Wonca, ICNP, ICF, ICDO)
    - LOINC (labo, observations)
    - ICD-9-CM, ICD-10-CM (AHA/3M/Health Language)
    - Medical Subject Headings en UMLS (Unified Medical Language System)
    - NANDA, NIC, NOC?
  - Translations
    - Spanish, Danish, Swedish, Estonian, Slowenia,…
    - Subset French (Canada), German (Health Language), the Netherlands
IHTSDO

- Cooperation between member states
  - Board
  - Terminology National Release centers
  - Special Interest Groups
  - Meetings, teleconferences

- Products
  - Snomed CT Terminology
    - Content
    - Methodology
  - Software
    - Browsers, Workbench
  - Training

- Membership Belgium in Dec. 2011?
Rule Base

- Reimbursement criteria
  - Chapter IV
  - Nursing, kine,…
- Decision support
- Clinical Path Ways
- Work Flow
Belgian Reference Terminology

- **Type gegeven**
  - Contact, Diagnosen, Procedures, Therapie, Sessies, Vaccinatie, Autonomie/functieverlies (psychisch, fysisch), Medicatie, Voorschrift, Toediening, Medical devices, Sociale factoren, Ongevallen, Beroepen, Instellingen, Agentia (chemisch, fysisch, biologisch), Zorgprogramma’s, Klinische studies …

- **Sectoren**
  - Huisartsgeneeskunde, specialisten ambulant, specialisten ziekenhuizen, farma, apothekers, verpleegkunde thuis, verpleegkunde ziekenhuizen, patiëntveiligheid, kine, tandheelkunde, logopedie, nutritionist, sociaal werker, verzekeringartsen, arbeidsgeneesheren, geneesheren farma, overheid (beroepsziekten, invaliditeit), …
Working Package Diagnoses

- Terminology Diagnoses (3BT/UZB) n = 15.700  Q3 2011
  - Validation concepts
  - Validation translation Fr/Nl

- Canada Snomed Subset n = 17.000 -> Q4 2011
  - Validation concepts
  - Translation NL, validation Fr
Working Package Procedures

- Terminology Surgery = 10.000  Q2 2012
  - Validation concepts
  - Translation Fr/Nl
  - ICD-9-CM
  - RIZIV/INAMI
  - ICD-10-CM  Q4 2013
Hospitals objectives

- Fast registration en coding in EPD with secondary
  - MKG
  - Tarification
  - Registers
    - eCare
    - Kankerregister
    - Smureg
    - Mortaliteitsregister
  - Communicatie verwijzer
    - Ontslag/Opname/Preop
  - Resource Management Systems
  - Geneesmiddelenbewaking
  - Klinische paden
  - Hoofdstuk IV
  - Studies
Pilot studies project hospitals 2012-2013

- Terminology server in EPD
  - Terminology Diagnoses & Procedures
  - Terminology interface
    - Syntactic –Semantic
    - Context sensitive

- Communication to
  - Registers
    - TuCo
  - MKG/RCM
  - G.P.?
  - Resource Management System?
G.P. objectives

- Fast registration and coding in EPD with secondary
  - Communication
    - Eerstelijnskluis / Intermed
    - Zorgpaden/Trajets de soins
    - Vaccinet?
  - Epidemiology WIV/ISP
    - Peilpraktijken?
  - Tarification
    - Derde betaler Tiers payant
  - Chapter IV
  - Drug surveillance
  - Guidelines (EBMeds)
Pilot studies General Practice 2012-2013

- Mapping with prior Thesauri
  - 3BT  Q2 2012
  - Diadat (Medidoc), Medigest …

- Terminologieserver in EMR applications  Q4 2012
  - Terminologie Diagnosen & Procedures
  - Terminology interface
    - Syntactic – Semantic
    - Context sensitive

- Definition priorities study projects
Other Terminology Working Groups

- Kine, Nursing, Dentists
  - Preliminary analysis: identify business needs

- Labo, Pharma
  - Cf. Other presentations

- Patient Safety, Handicap, Exposure agents
  - Planned