Procedure Classifications

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Some issues in procedure classifications

Difference in purpose (mostly reimbursement)
Developed for and by coders
Quality of care demands clinically sensible terms
Clinicians make ill-designed local (specialty) lists
Separation in diagnostic/therapeutic procedures
Continuous need for safe (local) updates
Hard to track changes between versions
Diverting developments in e.g. ICPM
Costly development/maintenance

So,
Some examples......
Medische Informatiekunde at the heart of health care

Exclusie:
- operatieve verrichtingen aan schedel (5-01 en 5-02)

5-76...5-77 Operationen an Kiefer- und Gesichtsschädelknochen
- 5-76 Operationen bei Gesichtsschädelfrakturen
- 5-77 Andere Operationen an Gesichtsschädelknochen

5-78...5-86 Operationen an den Bewegungsorganen
- 5-78 Operationen an anderen Knochen
- 5-79 Reposition von Fraktur und Luxation
- 5-80 Offene chirurgische Gelenkoperationen
- 5-81 Arthroskopische Gelenkoperationen
- 5-82 Endoprothetischer Gelenk- und Knochenersatz
- 5-83 Operationen an der Wirbelsäule
- 5-84 Operationen an der Hand
- 5-85 Operationen an Muskeln, Sehnen, Faszieen und Schleimbeuteln
- 5-86 Replantation, Exartikulation und Amputation von Extremitäten und an
XV Procedures on Musculoskeletal System

XV.A HEAD

- 1360 Application, insertion or removal procedures of head
- 1361 External fixation of mandible
- 1362 Exploration of temporomandibular joint
- 1363 Other incision procedures on maxilla or mandible
- 1364 Excision procedures on maxilla, mandible or temporomandibular joint
- 1365 Reduction of fracture of nasal bone
- 1366 Reduction of fracture of mandible or maxilla
- 1367 Reduction of fracture of mandibular or maxillary alveolar ridge
- 1368 Reduction of fracture of zygomatic bone
- 1369 Reduction of temporomandibular joint
- 1370 Reduction of fracture or dislocation of other facial bone
- 1371 Repair procedures on maxilla, mandible or temporomandibular joint
- 1372 Procedures for osteomyelitis of maxilla or mandible

XV.B NECK AND THORAX

- 1373 Application, insertion or removal procedures of neck or thorax
Intermediate representation, that makes definition explicit
Change consensus on terms to consensus on definitions
Transform definition in (any?) formal representation
Classify
Assess result
"Open fixation of a fracture of the neck of the left femur"

MAIN  fixing
   ACTS_ON fracture
      HAS_LOCATION neck of long bone
         IS_PART_OF femur
            HAS_LATERALITY left
   HAS_APPROACH open
### Classification Management Economics

Update of ICPM-DE version 2.4
20 new rubrics in Musculo-Skeletal Surgery

#### Consensus Method
- 6 full day meetings, 10 specialists
- Ad hoc, scattered update
- > 5 manmonth effort
- 5 Rubrics need revision
- Turnaround 8 months
- Invisible costs
- Constant high cost of maintenance

#### GALEN Method
- 2 half day meetings, 5 specialists
- One time dissection, 1720 Rubrics
- = 2.5 manmonth effort
- 20% Rubrics need revision
- Turnaround 2 months
- Clear defined cost
- Decreasing cost of maintenance
- Initial cost much lower than expected
How to move on

Need for sound categorial structures
Need for ‘recepies’

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Prove ‘application independence’ of IR
Does it work for other domains?

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