

Score-Systeme für die Bewertung von Risikopatienten und deren Modellierung

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**Praxis der Informationsverarbeitung in Krankenhaus und
Versorgungsnetzen (KIS 2008)**

20.02.2008, Dortmund, Deutschland

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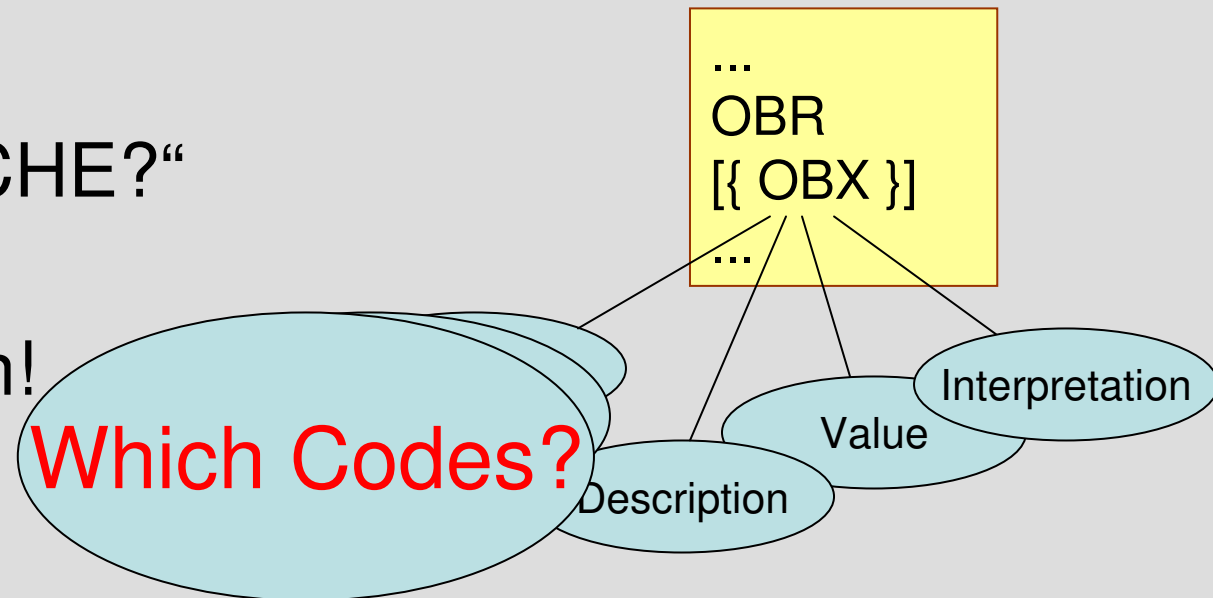
Board HL7 Germany

HL7 International Affiliate Representative to the TSC

Implementation & Conformance TC Co-Chair

Original Request

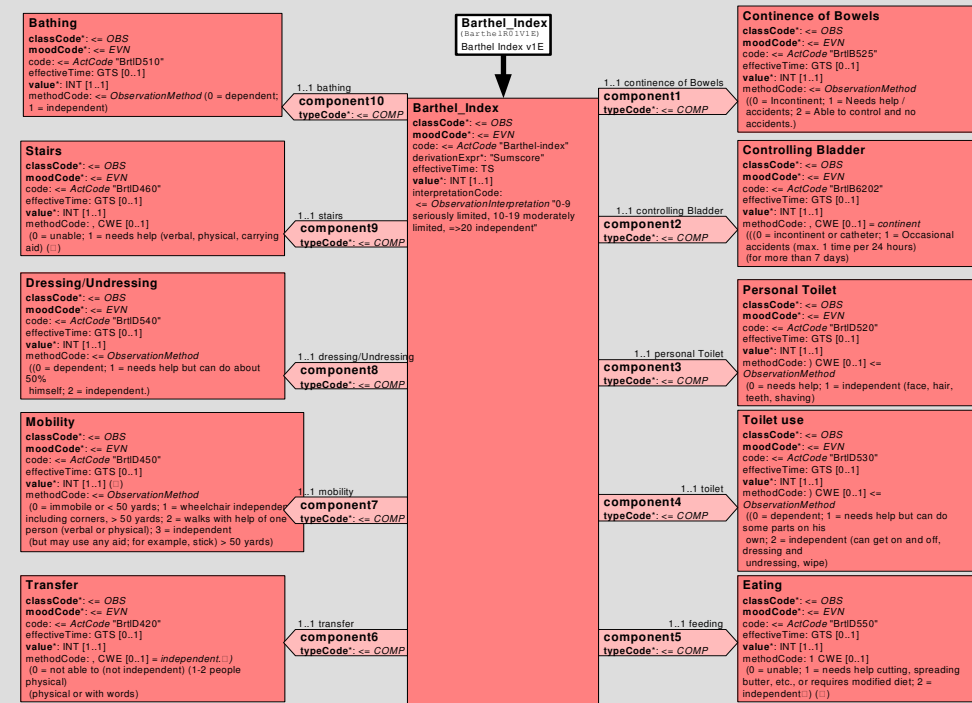
- Original Query of R&D:
„In which field shall we place APACHE values?“
- Answer:
„What is APACHE?“
- An observation!



History of the Project

- Examples:
 - TISS, SAPS, APACHE, BMI, Barthel, ..
- No direct guidance in standard documents
- Different approaches

- Dutch approach: individual models e.g. Barthel Index (Clinical Information Models, Zorg-Informatie-Model NL)



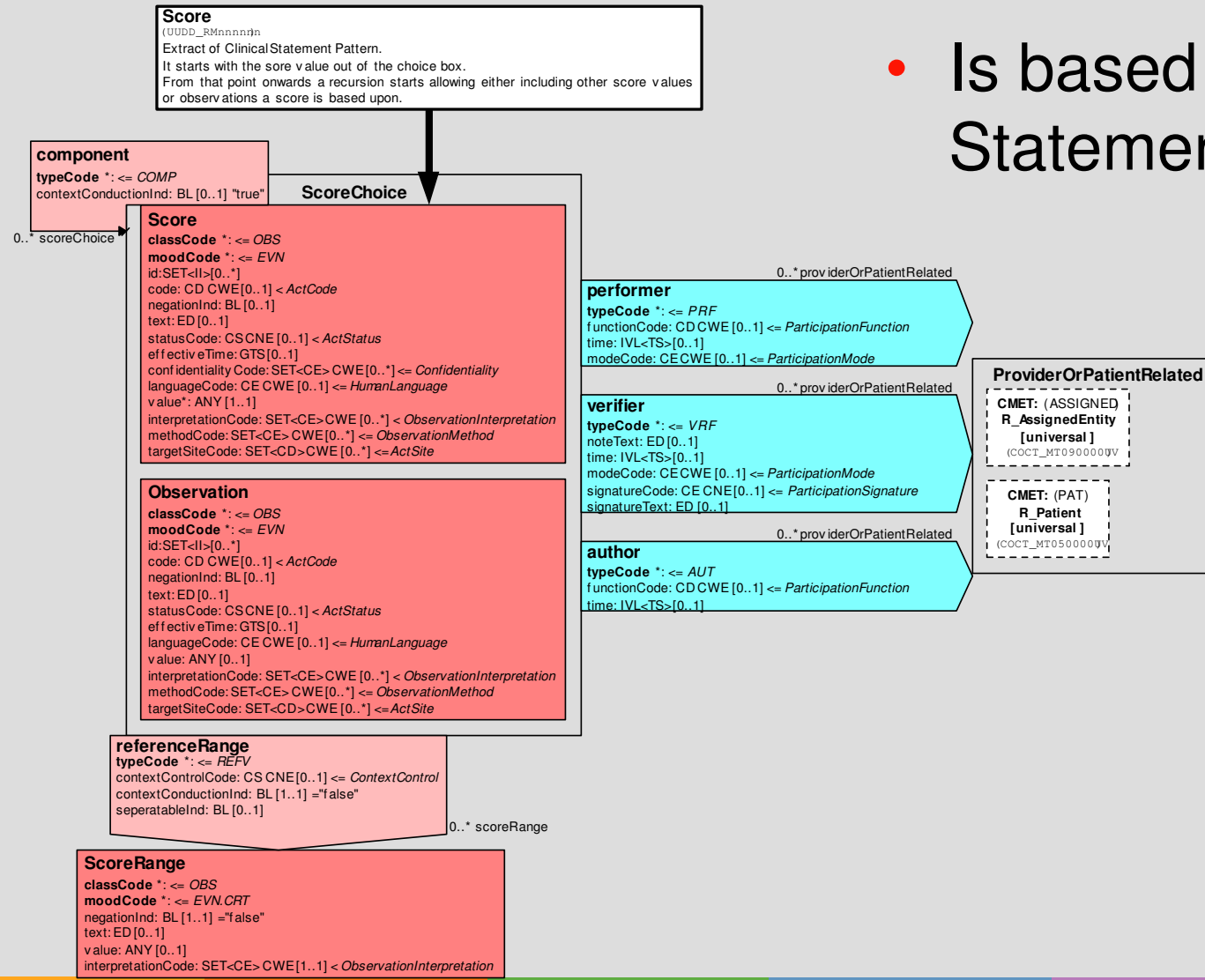
Score-Systems

- Primary Goal: Assignment of Codes
 - LOINC, Snomed CT, ICD, ICF, proprietary, ..
- Secondary Goal: Generic Model
 - Identification of components
 - Interpretation of values
- Solution
 - HL7-Models for v2.x and V3
 - Score Administration using a database
 - Cooperation with HL7-NL + Patient Care TC (USA)

} Codes

Score-Systeme: static Model

- Is based on Clinical Statement Pattern



Administration using a Database

- **Score System:**
 - name (English and German)
 - author
 - references (hyperlinks to web content)
 - status information
 - calculation method
 - copyright and trademark hints
 - assigned facilities
- **Score Details:**
 - **recursive definition**
 - description (English + German)
- **Data Type** (constraints) for:
 - HL7 v2.x
 - HL7 V3
- Units of Measurement
- (expected) **values** for each concept: score
- interpretation of values
- assigned **Codes**
 - LOINC, Snomed CT and proprietary in parallel
 - including LOINC-specific details allowing for requesting new codes for new concepts

Harmonization

- HL7 USA

- Patient Care TC
- Vocabulary TC
- Structured documents TC

New Project: ✓
Clinical
Domain
Information
Models

- IHE

- Patient Care Coordination

Open Issue: ?
Templates

Conclusions

- Models are fine,
but harmonization is necessary!
⇒ templates!
⇒ Implementation Guide!
- Commonly agreed upon codes
⇒ terminology!
⇒ interpretation of RIM classes!
- HL7 needs improvement on reference ranges
⇒ proposal in process!



Thank you

For your Attention!