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Implementing SNOMED CT in a Danish region

Making sharable and comparable nursing documentation

INTRODUCTION

- Co-operation pilot project between:
  - The Region of Zealand
  - Their EHR vendor - CSC Scandihealth
  - CareCom – as the terminology consultants
- Problem – the current nursing documentation is not re-useable
- Purpose - to analyse if and how the region could standardize the nursing documentation
- The starting point was to assess the degree of international terminology standards
- SNOMED CT was chosen as the primary reference terminology for the nursing documentation

A GLOBAL RECOGNIZED PROBLEM

“Nurses call to Action to Realize Sharable, Comparable Data”

(Joice Sensmeier: http://blog.himss.org/2013/08/16/nurses-call-to-action-to-realize-shareable-comparable-data/)

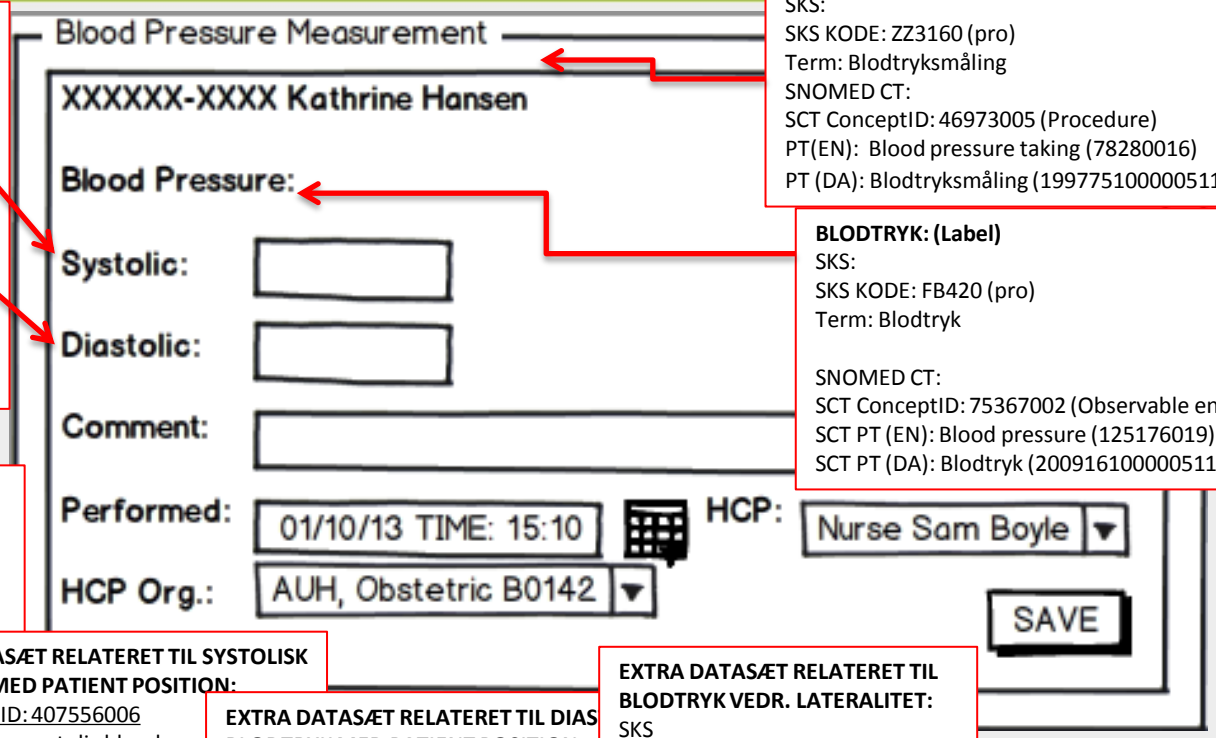
TERMINOLOGY – what is that?

BLODTRYKSTYPE:
SNOMED CT:
SCT ConceptID: 271649006 (Observable entity)
SCT PT: Systolic blood pressure (406507015):
SCT PT: Systolisk blodtryk (2242131000005115):

SCT ConceptID: 271650006 (Observable entity)
SCT PT: Diastolic blood pressure (406508013):
SCT PT: Diastolisk blodtryk (2242141000005111):

Eller:
LOINC:
Kode: Term (EN): Term(DA)
8462-4: Diastolic blood pressure Diastolisk blodtryk
8480-6: Systolic blood pressure Systolisk blodtryk

BLODTRYKSMÅLING:
SKS:
SKS KODE: ZZ3160 (pro)
Term: Blodtryksmåling
SNOMED CT:
SCT ConceptID: 46973005 (Procedure)
PT(EN): Blood pressure taking (78280016)
PT (DA): Blodtryksmåling (1997751000005116)



BLODTRYK: (Label)
SKS:
SKS KODE: FB420 (pro)
Term: Blodtryk

SNOMED CT:
SCT ConceptID: 75367002 (Observable entity)
SCT PT (EN): Blood pressure (125176019):
SCT PT (DA): Blodtryk (2009161000005115):

EXTRA DATASET RELATED TO BLOODTRYK:
MED PATIENT POSITION:
SCT ConceptID: 163033001
PT (EN): Lying blood pressure
PT (DA): blodtryk i liggende stilling
SCT ConceptID: 163035008
PT (EN): Sitting blood pressure
PT (DA): blodtryk i siddende st
SCT ConceptID:163034007
PT (EN): Standing blood pressu
PT (DA): blodtryk i stående stil

EXTRA DATASÆT RELATERET TIL SYSTOLISK BLODTRYK MED PATIENT POSITION:
SCT ConceptID: 407556006
PT (EN): Lying systolic blood pres
PT (DA): Systolisk blodtryk i liggen
SCT ConceptID: 407554009
PT (EN): Sitting systolic blood pres
PT (DA): Systolisk blodtryk i sidde
stilling
SCT ConceptID: 400974009
PT (EN): Standing systolic blood p
PT (DA): Systolisk blodtryk i ståen

EXTRA DATASÆT RELATERET TIL DIAS
BLODTRYK MED PATIENT POSITION:
SCT ConceptID: 407557002
PT (EN): Lying diastolic blood pressure
PT (DA): Diastolisk blodtryk i liggende
SCT ConceptID: 407555005
PT (EN): Sitting diastolic blood pressur
PT (DA): Diastolisk blodtryk i siddende
SCT ConceptID:400975005
PT (EN): Standing diastolic blood press
(DA): Diastolisk blodtryk i stående still

EXTRA DATASÆT RELATERET TIL BLODTRYK VEDR. LATERALITET:
SKS
Kode: Term:
FZSG31 (til) højre
FZSG32 (til) venstre
SNOMED CT:
Kode: Term (EN): Term (DA):
24028007: Right højre
7771000: Left venstre
HL7ActSite:
Kode: Term (EN): Term (DA):
RA: Right arm højre arm
LA: Left arm venstre arm

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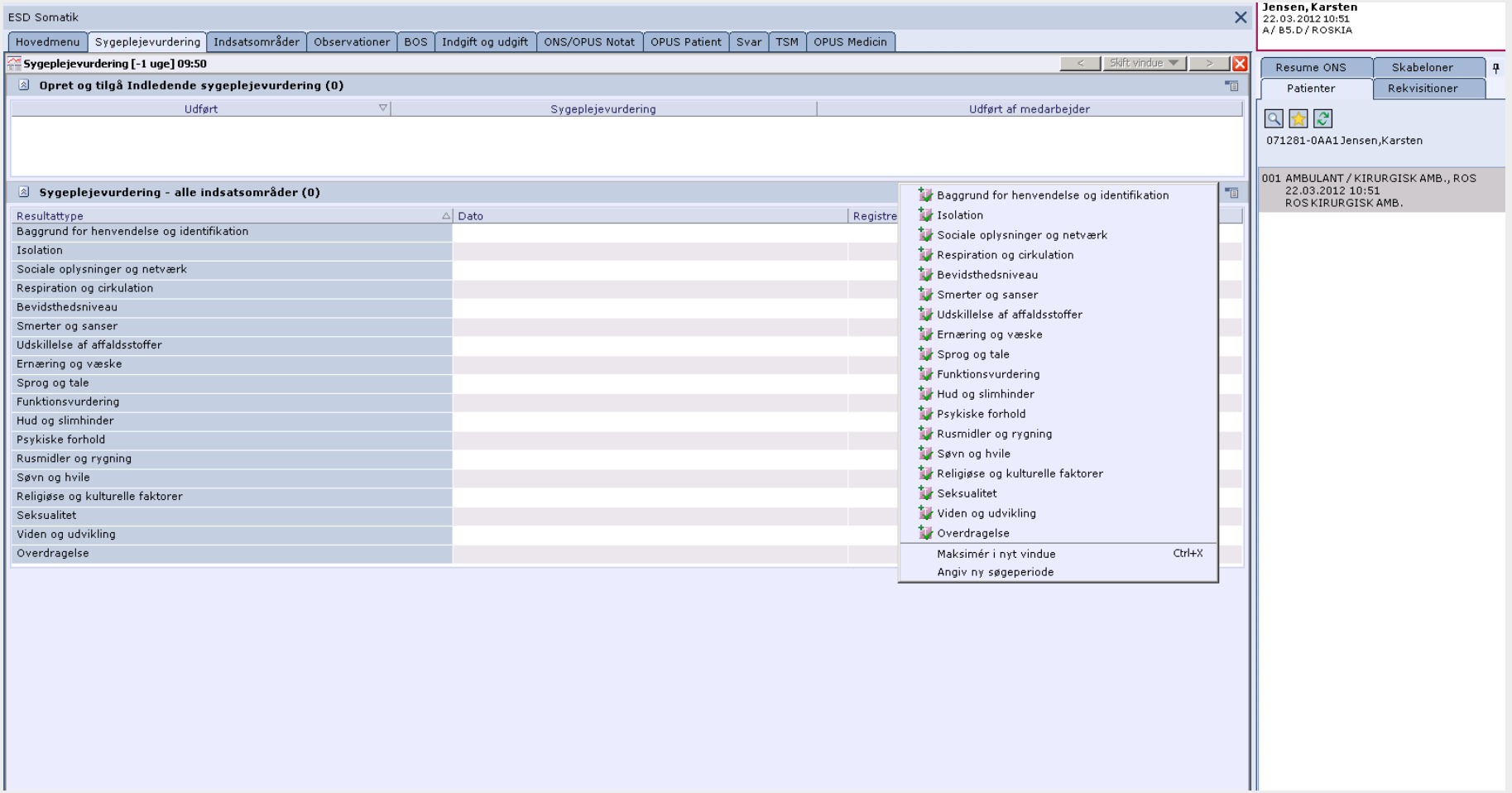
METHOD

- 17 information areas based on the model ”VIPS”
- Data collection of legacy data from the EHR system
- Collection of experience from other data set developments
- Data collection used to identify the new data sets
- 2-(3) data sets for each area
- Tooling: HealthTerm Terminology Platform
- Data sets consists of: Clinical findings, observables and procedures
- Extended the current documentation posibility

IMPLEMENTATION

- The data sets were implemented in the EHR as search fields and dropdowns based on the data sets
- It was tested in a pre-pilot in 2 wards:
  - A geriatric ward
  - A psychiatric ward
- Evaluated on (using group interviews):
  - Adoption of the new documentation process
  - Was the documentation need covered
  - Recognition of the documentation possibilities/terms

SCREENSHOT - AREAS



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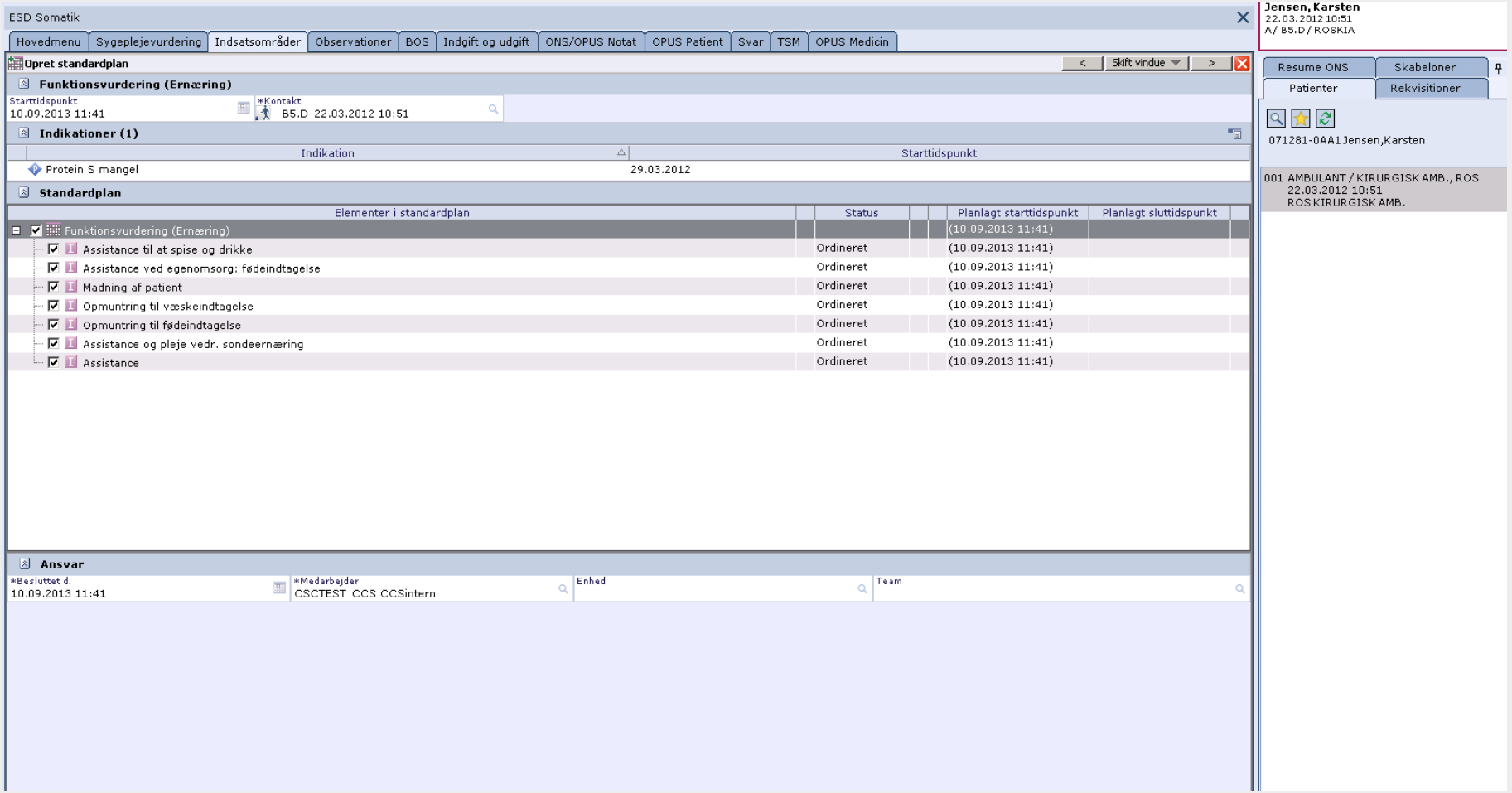
SCREENSHOT – DATA SET



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CHALLENGES

- Skills in order to develop standardized data
- Adoption the new documentation process
- Recognition of the terms VS concepts
- Adjustments of the data sets between pre-pilot and pilot

RESULT

- User group interview feedback:
  - Difficult to adopt the new documentation process - needed more training
  - The needed documentation possibilities was available
  - They did recognized most of the terms – but a request to add synonyms
  - They was inspired, curious and educated of the extended data sets
- Big satisfaction among the clinicians in the pre-pilot due to the fact they could se the re-use and understanding outcome of structured data
- Request to the Management Board of a full implementation in the Region of Zeeland
- Implementation is now on-going
- Started with 3 somatic ward's and 2 psychiatric ward's in May 2013
- Herein after one hospital at a time
- The neighbour region - Region H have expressed a interest in adopting the data sets

CONTRIBUTORS

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CSC

REGION SJÆLLAND

– vi er til for dig

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Close the gaps between your business and semantics!