

PROM i et tværsektorielt perspektiv National infrastruktur

Spørgeskemadata og Hjemmemålinger

Konference Patientrapporterede Resultatmål

Danske Regioner, 15.marts 2016

Jan Petersen, MedCom, jap@medcom.dk



Analyserapport – DIGST 2015

Teknisk standardisering

- Udvekslingsformat
- Semantiske regler
- Defineres af teknikere

Indholdsmæssig standardisering

- Sundhedsfagligt indhold
- Validerede skemaer
- Validerede måleinstrumenter
- Defineres af klinikere



[Hent analysen af patientrapporterede oplysninger \(PRO\) her](#)

ØA 2016 - Regionerne

Regeringen og Danske Regioner er enige om at igangsætte **landsdækkende udbredelse** af anvendelsen af patientrapporterede oplysninger (**PRO**) for **epilepsi**, **kemoterapi** og **prostatakræft** i alle regioner fra 2016 frem mod **udgangen af 2019**

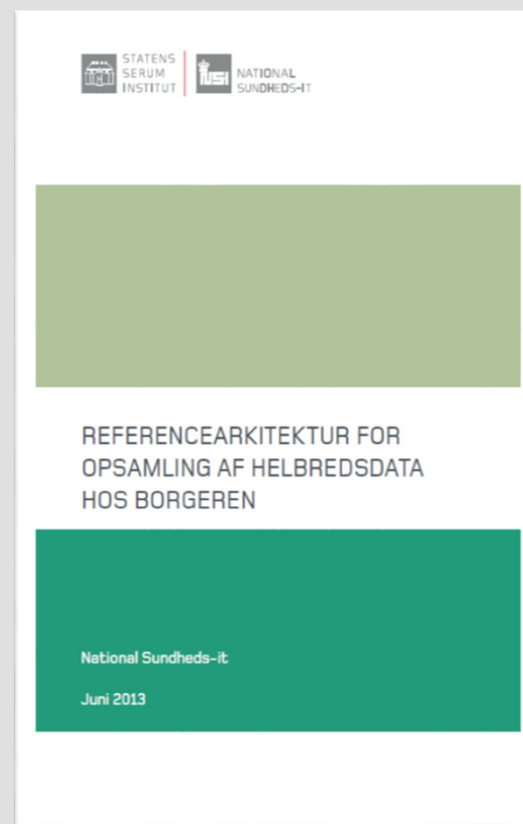
Regeringen og Danske Regioner enige om national udbredelse af **telemedicin** for borgere med **KOL** inden **udgangen af 2019**



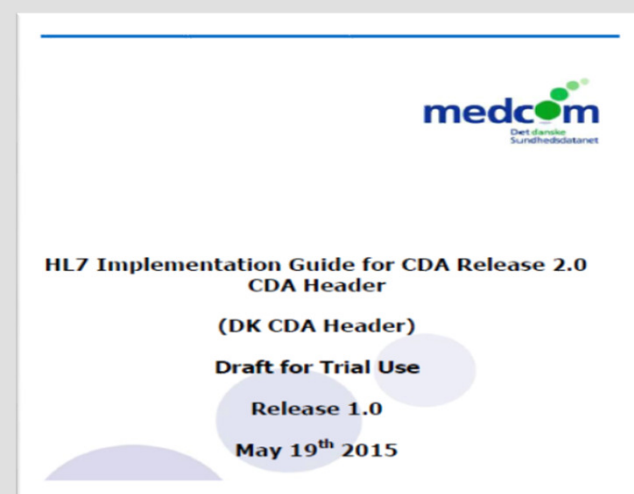
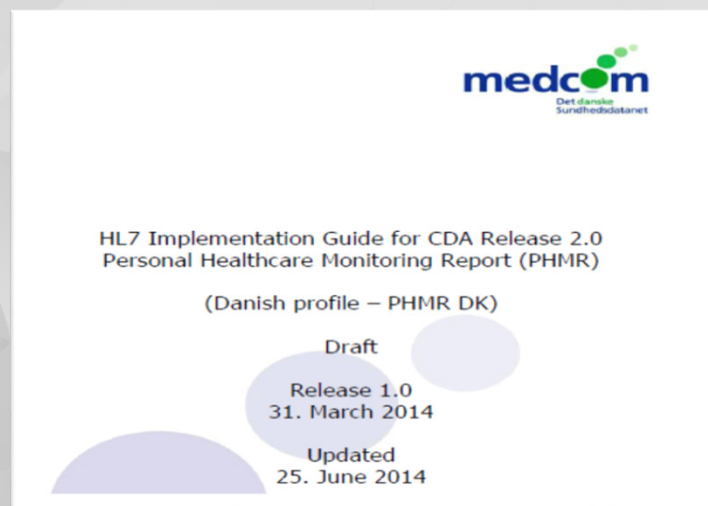
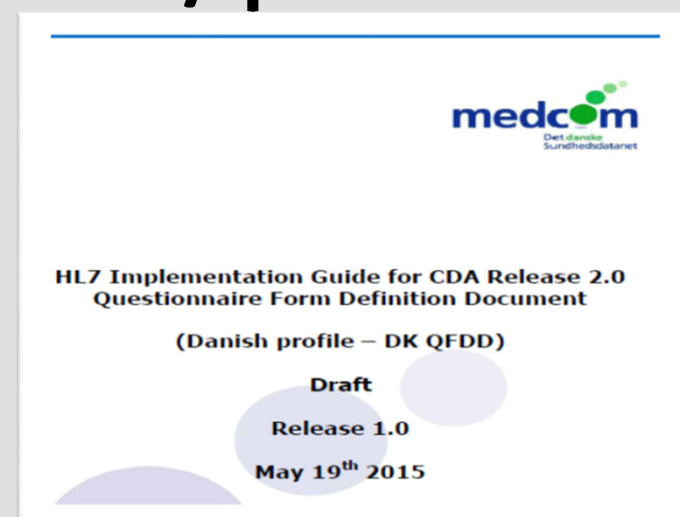
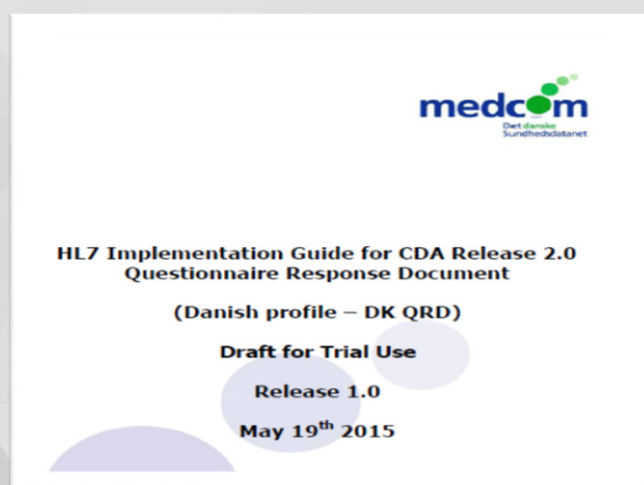
Referencearkitektur – Sundhedsdatastyrelsen

- Tværsektoriel deling af hjemmemonitorering og PRO data
- Mulighed for at modtage og dele data fra forskellige hjemmemonitorering og PRO løsninger
- Mulighed for integration i fagsystemer

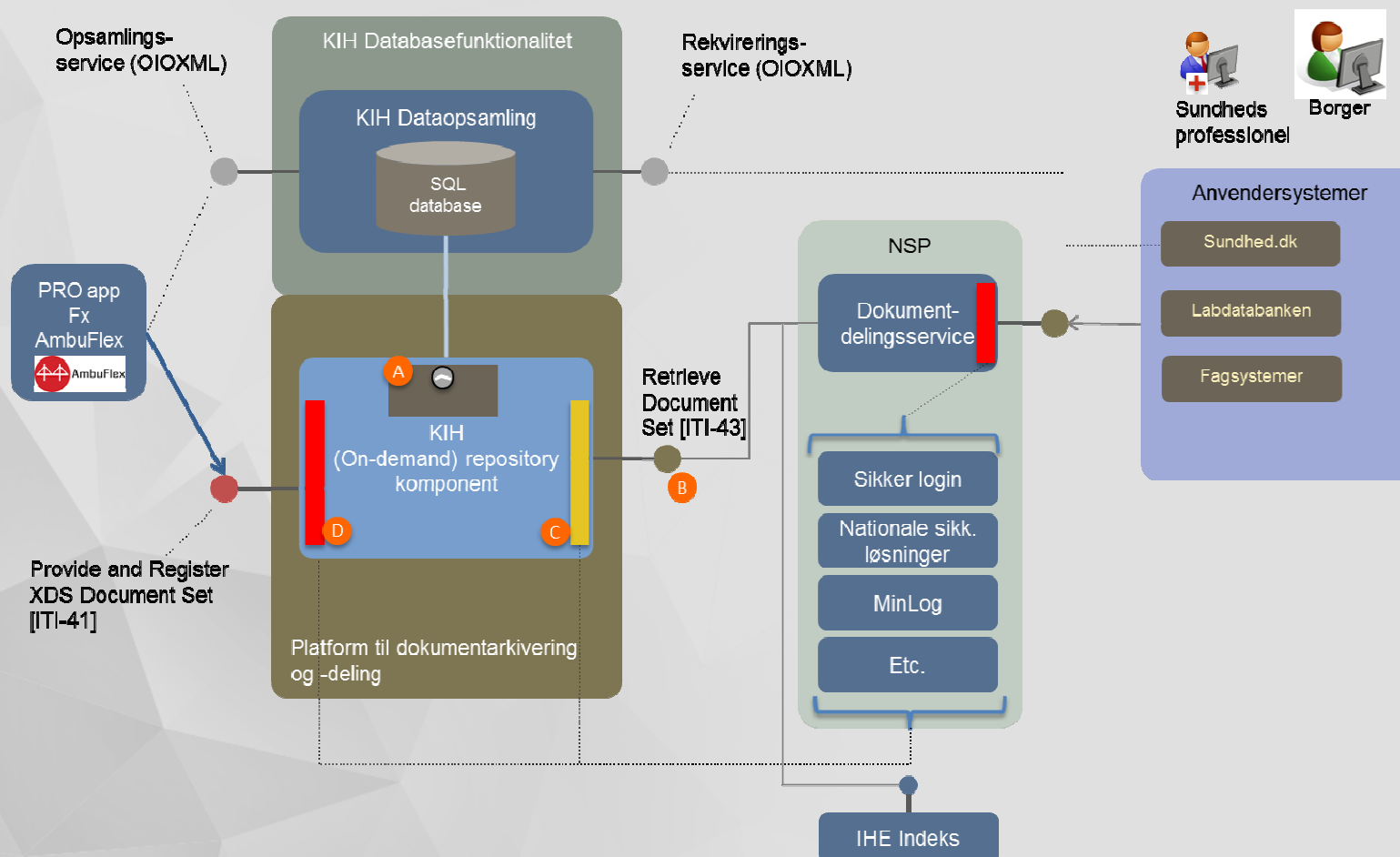
[Referencearkitektur for opsamling af helbredsdata hos borgeren \(PDF\)](#)



Danske snitflader/profiler



Telemedicinsk infrastruktur



PRO – spørgeskemaer standarder

Med henblik på at skabe fælles ramme for indhentning og udveksling af PRO oplysninger opsamlet via spørgeskemaer besluttede MedCom styregruppen 03. oktober 2014 at iværksætte en dansk profilering af HL7 standarder i CDA® Release 2 formatet, herunder:

- QFDD - HL7 Implementation Guide for CDA® Release 2: Questionnaire Form Definition Document, Release 1
- QRD - HL7 Implementation Guide for CDA® Release 2: Questionnaire Response Document, Release 1

Disse standarder understøtter de almindeligste spørgsmål/svartyper

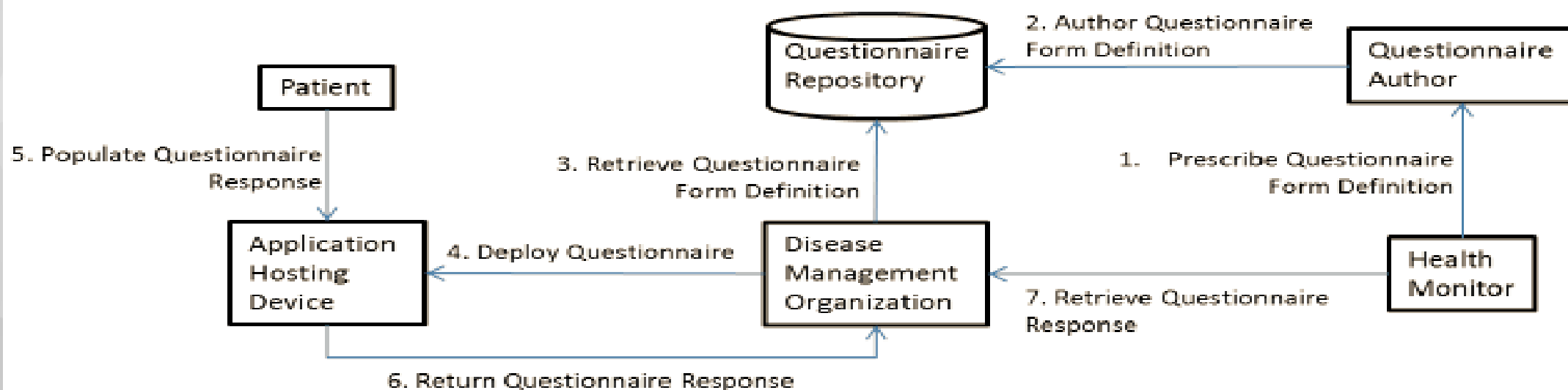
Standardiseret PRO data

Ved at bruge de nævnte standarder til deling af PRO data opnås mulighed for:

- at udveksle pre-definerede spørgeskemaer i et fælles format
- at udveksle PRO data i et fælles format
- at udveksle PRO data indenfor den eksisterende telemedicinske infrastruktur
- at integrere PRO data i eksisterede fagsystemer (Standarden er fuldt struktureret)
- at vise PRO data i en simpel browserløsning (standarden understøtter dette)

Spørgeskemaer – use case

Typical Use Case



Remote Patient Monitoring Survey

Document Id	aa127024.1 2.16.840.1.113883.3.1817
Document Created:	March 28, 2013
Author	Continua Health Alliance Staff, Continua Health Alliance
Contact info	Work Place: 3855 SW 153rd Drive Beavertonn, Oregon 97006, USA Tel: (913)-207-8226
Document maintained by	Continua Health Alliance
Contact info	Work Place: 3855 SW 153rd Drive Beavertonn, Oregon 97006, USA Tel: (913)-207-8226

Hello %First Name% please answer the following questions

Are there any new circumstances that influence your mental well-being?:

• Yes
• NO Et svar

Select mental conditions that where applicable at any moment in time last week.:

• Depressed
• Cheerful
• Tired Flere svar

What are the new circumstances that influence your mental well-being?: Tekst svar

How many hours did you sleep last night?: Numerisk svar

How do you rate the side effects of your medicine?:

• No
• Minor
• Considerable
• Severe Multiple choice

What are the new circumstances that influence your mental well-being?: Tekst svar

Your last pulse value was quite high. Is there anything that could explain this high value?:

• Yes, probably
• No, there was nothing unusual Et svar

What could explain your high pulse?:

• I had a stressful day
• I couldn't take my medication
• I had some physical exercise before
• I have been drinking more than usual
• Another reason... Multiple choice

Der vises kun teksten. Hvis spørgeskemaet skal kunne udfyldes af borgeren (og eventuelt indbygget funktionalitet skal være aktivt) kræver det applikationshåndtering.

Response to the Remote Patient Monitoring Survey

Patient	Mr. Adam Everyman
Date of birth	November 25, 1955
Sex	Male
Contact info	Primary Home: 2222 Home Street Boston, MA 02368, US Tel: (555)555-2004
Patient IDs	999.1 2.16.840.1.113883.19 444-33-3333 2.16.840.1.113883.4.1 adameveryman@direct.sampleHISP.com 2.16.123.123.12345.1234
Document Id	aa127024.2 2.16.840.1.113883.3.1817
Document Created:	March 28, 2013
Author	Adam Everyman
Contact info	Primary Home: 2222 Home Street Boston, MA 02368, US Tel: (555)555-2004
Information recipient:	Adam Everyman
Information recipient:	Dr. Patricia Primary
Contact info	address not available Tel: (781)555-1212
Document maintained by	MyPersonalHealthRecord.Com

Response to the remote patient monitoring survey

Sequence	Question	Answer
1	Are there any new circumstances that influence your mental well-being?	Yes
2	Select mental conditions that where applicable at any moment in time last week.	Depressed, Tired
3	What are the new circumstances that influence your mental well-being?	I drink too much coffee
4	How many hours did you sleep last night?	7
5	How do you rate the side effects of your medicine?	Considerable
6	What are the new circumstances that influence your mental well-being?	i wake up several times a night
7	Your last pulse value was quite high. Is there anything that could explain this high value?	Yes, probably
8	What could explain your high pulse?	I had a stressful day

Publicerede standarder

Spørgeskemadefinition- HL7 QFDD CDA-2

Spørgeskemabesvarelse – HL7 QRD CDA-2

- Standarderne er publiceret her: <http://svn.medcom.dk/svn/releases/Standarder/HL7/>

Standarderne skal teknisk implementeres og klinisk afprøves i forbindelse med national udbredelse af telemedicinske løsninger og PRO understøttelse

Standarderne er specielt relevante i forhold til NSP, KIH Databasen, hjemmemonitoreringsløsninger (fx OpenTele), PRO instrumenter

Tak for opmærksomheden
