Nordic openEHR Collaboration Meeting

Tuesday December 5th 13:00-15:00 CET

Remote meeting through Teams

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Agenda

- 13:00 - 13:05 Welcome
- 13:05 - 13:55 Presentations
  - *The Implementation guide creation process in Sweden*
  - *Implementation of the Swedish Attention Information in openEHR*
  - *Innovation projects related to openEHR in Sweden*
- 13:55 - 14:05 Break ☕
- 14:05-14:55 Round table discussions where participants can share what they are working on now or any other relevant information related to openEHR in the Nordics
  - *Please consider before the meeting if you would like to mention something*
- 14:55-15:00 Good bye

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The Implementation Guide creation process in Sweden

Emma Molin

openEHR Sverige

Agenda

- Purpose of implementation guides
- Creation process
  - Current status
  - Upcoming work

Purpose of implementation guides

- The models in openEHR are intended to be used globally and usually have features that cover a variety of national needs if used wisely

- To suit laws and practices of a particular country, it may be necessary to agree on **how** to use the models to meet national requirements

- This should be done in a common way so that different vendors and healthcare providers do the same and can more easily reuse applications, reuse software modules and exchange data

Creation process
Current status

- Started by creating implementation guides for the following:
  - Patient data law (PDL)
  - Attention information
- Agreed on some common information in the implementation guide such as:
  - Status (DEV, TRIAL, STABLE)
  - Version history
  - Background about the field
  - Attachment containing information about the working group
- Created recommendations for usage of MUST, MUST NOT, SHOULD, SHOULD NOT, MAY

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Creation process
Upcoming work

We have already identified more fields where an implementation guide would be useful, such as the following examples:

- Drains and catheters
- Care processes
- Attestation

Creation process
Upcoming work

Review content of the implementation guides

- What does it take to make an implementation guide "official"?
  - What is the process?
- Making sure we are consistent in our guides
  - Defined headlines
  - Writing conventions
  - Clear recommendations (MUST, SHOULD, MAY etc.)
  - How do we handle references?
  - How do we handle attachments?

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Creation process
Upcoming work

- Decide on and document
    - how to package and publish implementation guides
    - the creation and approval process for implementation guides
    - how we handle English translations

Implementation of the Swedish Attention Information in openEHR

Claudia Ehrentraut

openEHR Sverige

Agenda

- Attention information in Sweden

- Working group

- Presentation of template
  - Used archetypes
  - Demo

- Content of implementation guide

Attention Information in Sweden*

- Swedens National Board of Health and Welfare (NBHW) has developed an **information specification for attention information** which contains a nationally agreed description of attention information

- The information is
  - structured based on the national information structure and national information sets
  - expressed with uniform terms and associated codes from the Swedish version of Snomed CT and the ICD-10-SE and ATC classifications

- The information should serve as a basis for the implementation of attention information in healthcare information systems
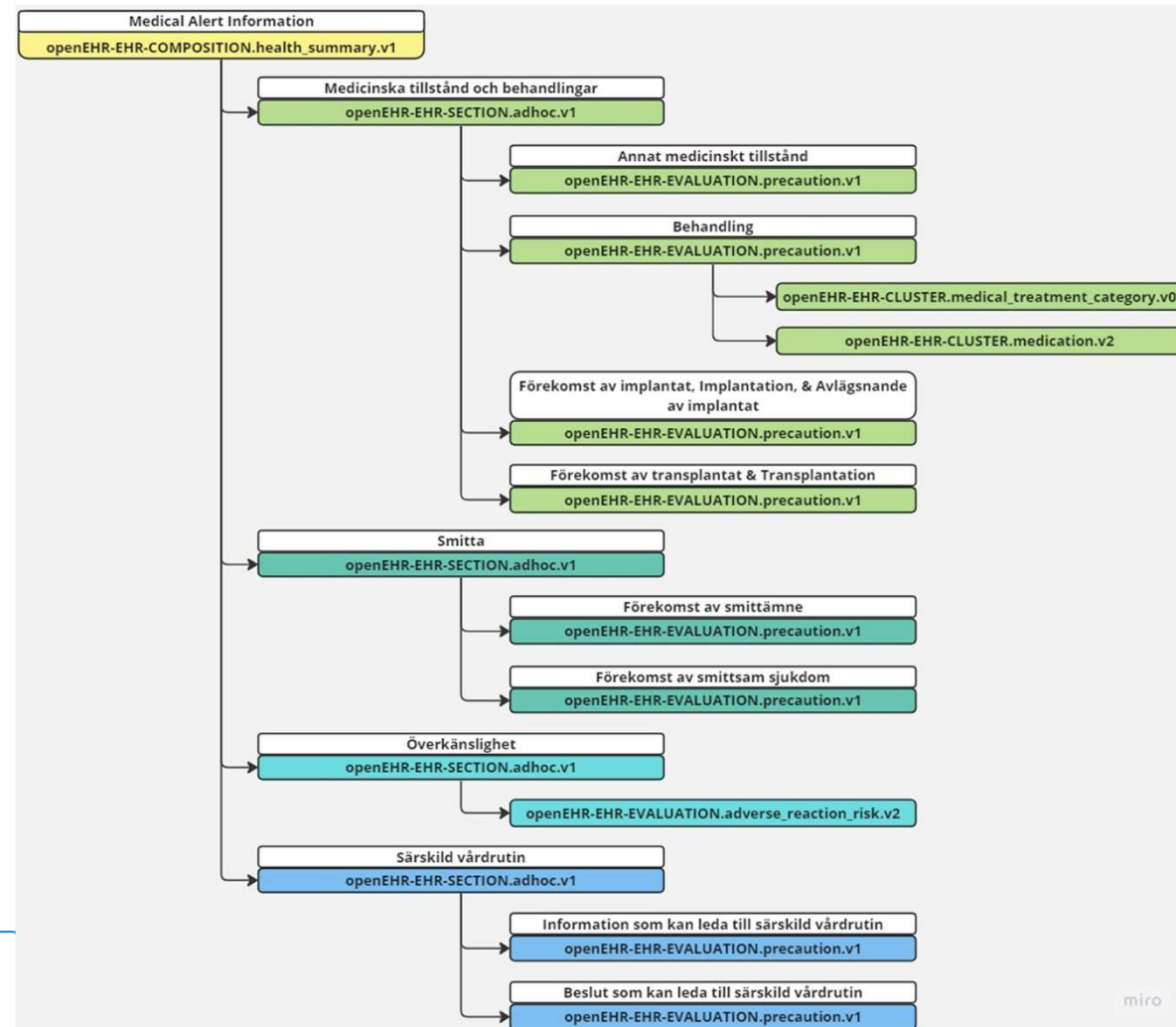
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Working group

- Formed in 2022

- Consists of representatives from several stakeholders (mainly the Swedish regions and healthcare information system suppliers)

- Aim is to create
  - a template and
  - an associated implementation guide

- Approach
  - Base work on NBHW's information specification for attention information
  - Take the work done in Norway inte account, i.e., the template Kritisk informasjon i Kjernejournal

Presentation of template
Used archetypes

- COMPOSITION health summary v1
- SECTION adhoc v1
- EVALUATION adverse reaction risk v2
- EVALUATION precaution v1
- CLUSTER medication v2
- CLUSTER medical treatment category v0

Presentation of template

Demo

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Content of implementation guide

- Description of attention information as defined by the NBHW

- Recommendation for implementing attention information in openEHR, including:
  - decription of the created template and used archetypes
  - mapping between classes/attributes in NBHW's information specification for attention information and the used archetypes
  - logic that isn't expressed in template

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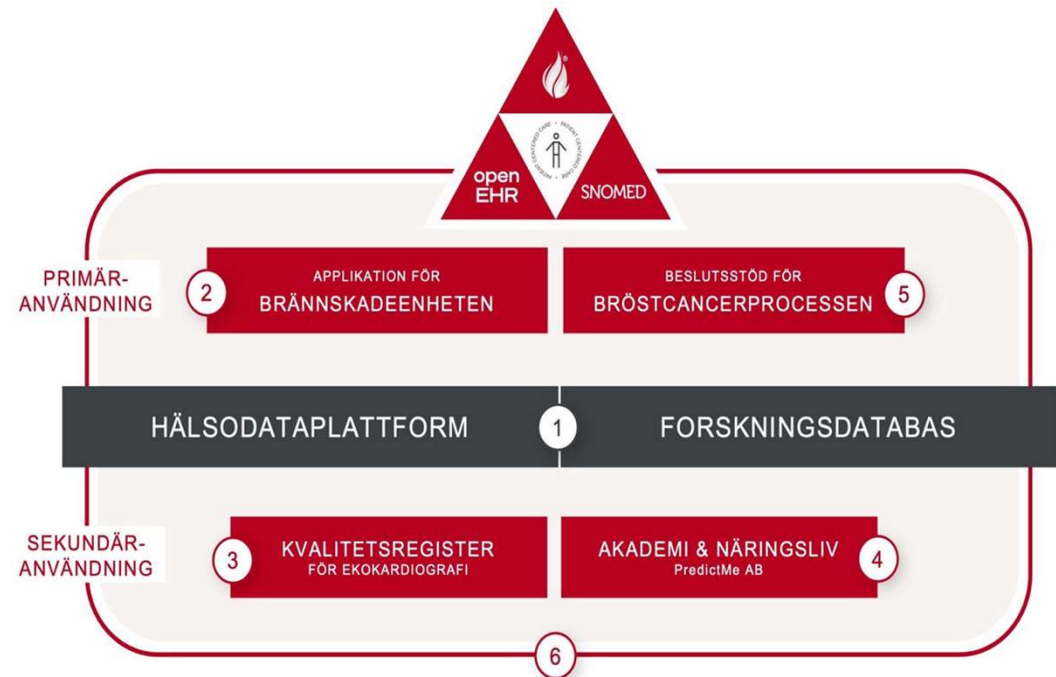# Innovation projects related to openEHR in Sweden

Åsa Skagerhult

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Innovation projects related to openEHR in Sweden

- Vinnova, the Swedish innovation authority, has funded 3 innovation projects with the aim to enhance health data management (30 MSEK each over 4 years, 2024-2027)

- One of the projects is coordinated by Region Östergötland
  - Project goal is to
    - Show spectrum of benefits with using international open informatics standards – mainly openEHR, but also Snomed CT and FHIR
    - Act as a role model for other actors in Sweden
  - Participants are Cambio, Linköping university, PredictMe, Region Uppsala, Karolinska university hospital, Region Kalmar and Region Jönköping

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ASHA – Region Östergötland's project

- **Burn injuries application**
  - Feral system with quality issues
  - All-in-one: EHR, quality registry, research db
- **Breast cancer process support**
  - Surgery, cytostatics, pathology, overview for multidisciplinary conferences
- **Quality register ecocardiography**
  - 4D protocol
- **AI-based app for prediction of lung diseases**
  - Feed with textual health data as complement to image data

1 Cambio Platform (openEHR) + University research db (AIDA data hub)
2-6 Subprojects on different use cases

Round table discussions

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Round table discussions

- Norway
- Finland
- Sweden

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Sweden
About openEHR Sweden

- Working group under the Swedish Association for Medical Informatics (SFMI)

- Open group where representatives from different actors in Sweden participate, including regions, healthcare information system suppliers and government agencies

- Everyone who wants to contribute with their knowledge in the clinical domain, informatically, or otherwise participate is welcome

- Work is held together by two product owners

- Work is done in Swedish

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Sweden
Ongoing work in openEHR Sweden

- Creating templates via local initiatives for
  - Drains and catheters
  - Recommended treatment (Cancer theme)
  - Treatment decisions (Cancer theme)
  - Prescription of medical oncology treatment
  - Administered medical oncology treatment
  - Request (Breast Pathology)
  - Result report (Breast pathology)

Sweden
Ongoing work in openEHR Sweden

- Translating, creating and further developing archetypes via local initiatives
  - Translations into Swedish
    - Medical device
    - Laboratory archetypes
  - New development
    - Information on drug regimens
    - Information on clinical trials
  - Further development
    - Anatomical_pathology_exam

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Sweden
Ongoing work in openEHR Sweden

- Developed Swedish definitions for archetype and template together with the Swedish eHealth Agency

- Creating implementation guides for
  - Patient data law (PDL)
  - Attention information (see separate presentation)

- Creating and documenting processes
  - Document process of translating archetypes and process of reviewing translations
  - Set process and structure for implementation guides (see separate presentation)

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Sweden
Ongoing work in openEHR Sweden

- Involved in procurement activities
  - Joint request for information (RFI) for openEHR platform and tools
  - Joint requirement bank for openEHR platform and tools

- Responded to discussion paper "Roadmap for a national digital infrastructure for health data based on standards" initiated by the Swedish government

- Created LinkedIn channel to strengthen our external communication openEHR Sverige: Company Page Admin | LinkedIn

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