eMedication in Switzerland

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How can we support Patients and Healthcare Professionals?

IHE-Europe EXPERIENCE DAY 2022
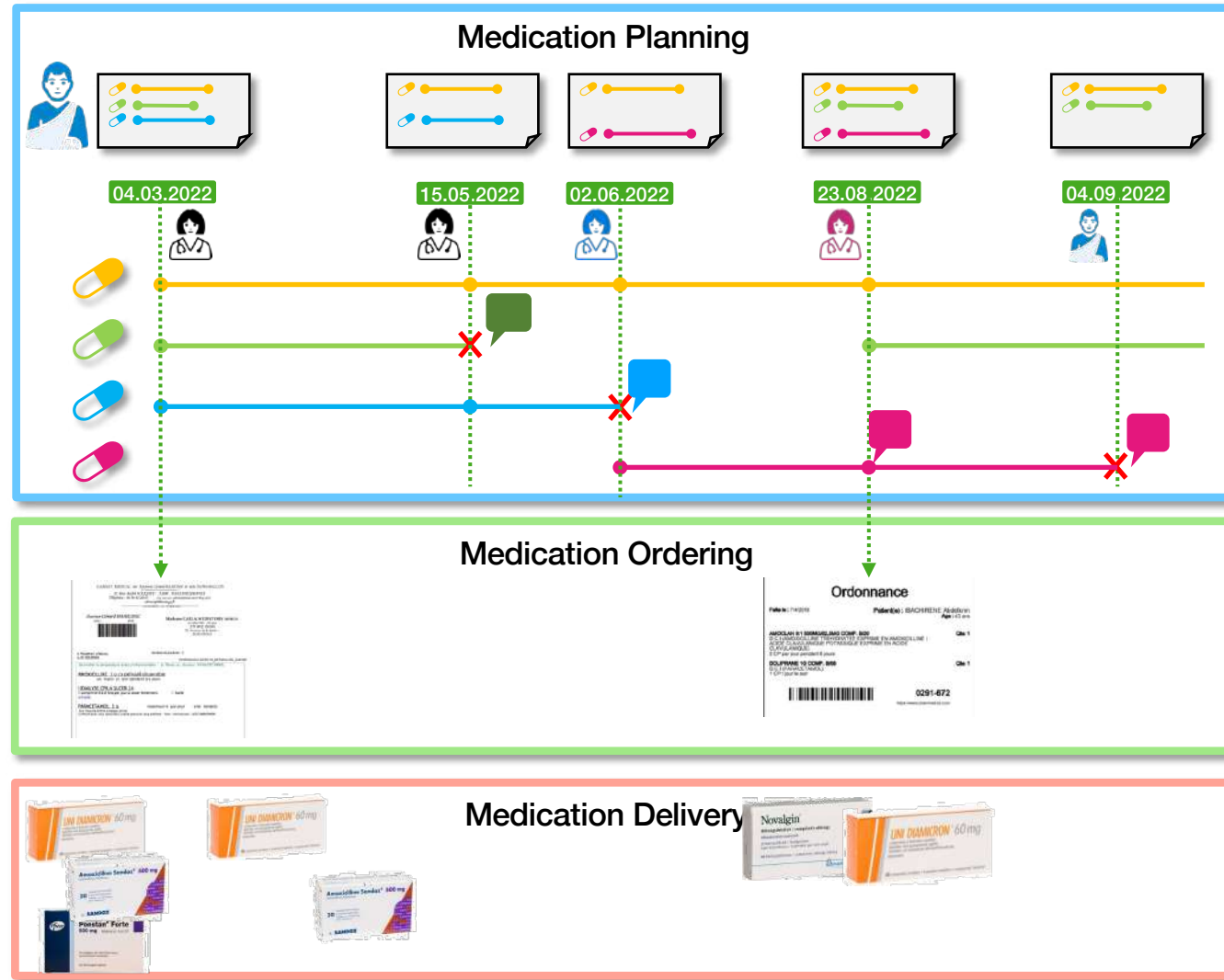
Key Objectives

- *Clinical* view of the medication the patient is taking

- History of the medication

- Logistic support (prescriptions, dispenses)

- Documentation of administration when known

➢*Aggregation* of multiple sources of information
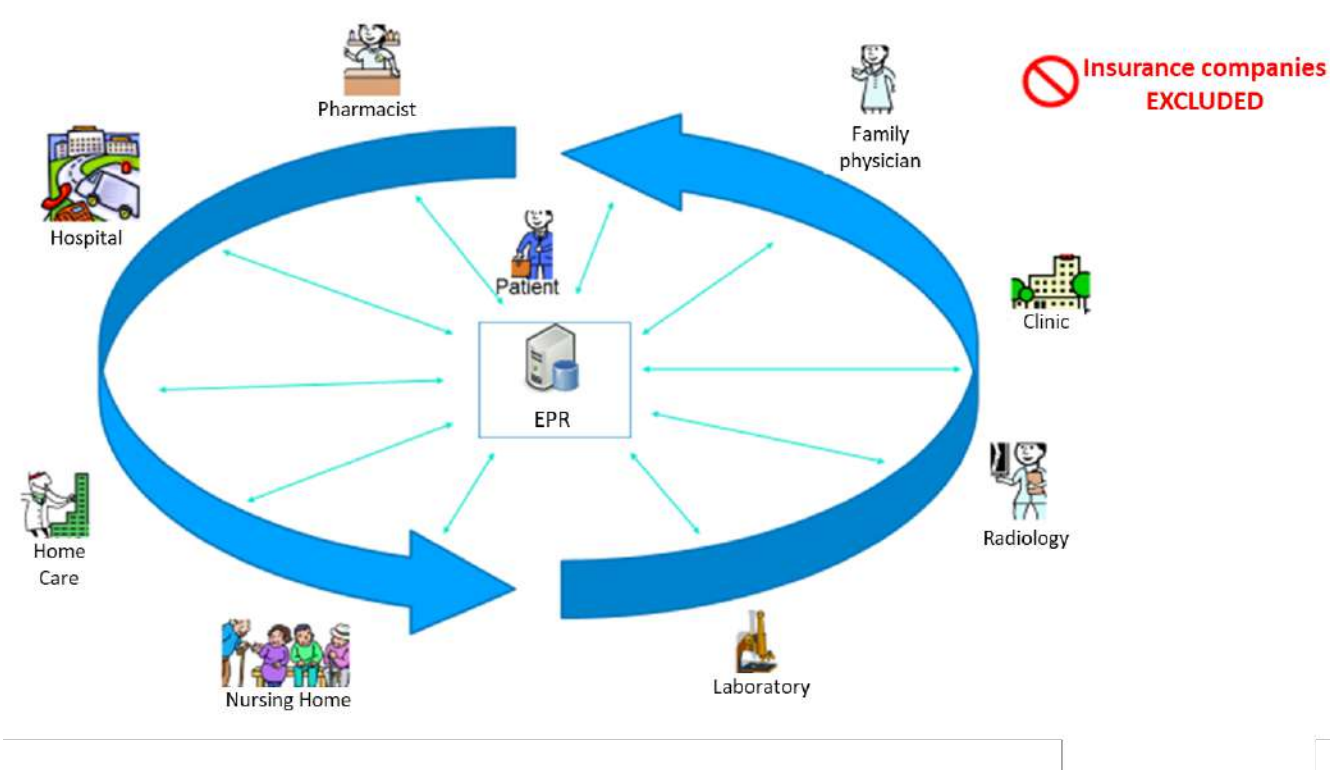 ➢Input from contributing healthcare providers *AND* patient
  ➢Key information for medication anamnesis

- Patient-centric
- Multiple interconnected communities (affinity domains)
- Fostering strong integration of primary systems

Nation-wide
➢Multiple Affinity Domains

Interoperability & Integrability
➢Based on agreed international standards
➢As close as possible to EPR architecture
➢Compatibility with existing interfaces while looking at the future
➢Deep integration into primary systems

➢ One integrated solution for the stakeholders
➢ Based on established and new generation interoperability profiles

Swiss EPR is XDS-Based

- XDS & PHARM (XDS-based) transactions for searching, retrieving and submitting documents

Move towards RESTful interfaces

- Equivalent MHD transactions for document access
- IHE PHARM CMPD profile extension to support MHD

IHE Pharmacy for content structuring
- Additional profile – Medication Treatment Plan
- Extensions (change proposals) to support common use cases

Swiss EPR is Document based
➢ IHE PHARM CDA based content profiles (CDA-CH-EMED)

Future in moving towards FHIR
➢ HL-7 FHIR-based resources embedded into documents (CH-EMED) – work in progress

eMedication Primary Aggregator

- Access: SOAP (XDS) and RESTful (MHD) transactions

- Content: CDA (CDA-CH-EMED) and FHIR (CH-EMED)

3rd Party supporting tools

- FHIR/CDA converter: MatchBox

- Integration toolkit: HUSKY - Health Usability Key

IHE Profiles & Methodology was a strong support

- For designing an interoperable solution
- For supporting additional use cases by extending profiles

Different technologies are not exclusive

- SOAP and RESTful for communication
- CDA and FHIR for the content

Questions?