Shared health record in Valais

08 September 2014 / eHealth Summit 2014

Cédric Michelet
www.infomed-vs.ch
**Hôpital du Valais (ex RSV)**
- independent public law company
- 10 sites (hospitals + ICHV)
- 5’000 employees
- 40’000 hospitalizations
- 5 clinics

**Doctors**
- 500 doctors in private practice

**Pharmacies**
- 113 pharmacies

**Etablissements médico-sociaux (EMS)**
- Elderly home
- 43 institutions
- 2’500 residents

**Centres médico-sociaux (CMS)**
- Home care
- 19 centres

**Other**
- Private lab, physiotherapist, ...

**Bilingual environment**
- French / German
- 310’000 inhabitants
Health information system
Canton of Valais

- Health Department wanted a new Health information system
  - Help the implementation of health policy
  - Promote the exchange of medical information between health partners
    => optimize care

- Concept elaborated by Prof Ph. Wieser, EPFL in 2000

Phase 1
- Hôpitaux (Infoval)
  - 2001-05

Phase 2
- EMS - CMS
  - 2006-

Phase 3
- Ambulatoire (Infomed)
  - 2011-
Context

2010
Department of Public Health (Canton of Valais)

Integrate private doctors
1. Facilitate the access to the information
2. Provide statistics about the activity

Swiss Confederation

eHealth strategy
>> encourage canton to provide shared patient folder
Context (2)

Canton of Valais

Swiss Confederation

Infomed

Setup of a shared patient folder.
3rd project Infomed

Data providers
- Patients
- Pharmacists
- Doctors
- Physio. / chiro.
- Laboratories
- Clinics
- HVS

Data consumers
- Radiologists
- EMS
- CMS

Security

Data of patients

Except insurances!
# Interoperability – standards

## Frame

**eHealth Swiss**
- Recommendations
  - Standards and architecture 1-4
  - Semantic 1

## Interfaces

**IHE**


- Securisation of web services through WS-Security (authentication with X.509 certificate from HPC)

## Content

**Format of document**
- HL7 (HL7 Suisse)
- CDA-CH
- Level 1 (futur 3)
  - [http://www.hl7.ch/publikationen0.html](http://www.hl7.ch/publikationen0.html)

**Identification of document**
- LOINC
- [CEN 13606](http://www.hl7.ch/publikationen0.html)

**Semantic**
- Medication by ATC
- Laboratory results by LOINC
- Episodes of care par ICPC-2
Acquisition of a platform

- Writing of specifications, call for public procurement tenders (6 tenders submitted, from 2.2 to 12 Mio CHF)
- Focus on compliance with Swiss and international standards (IHE, HL7 CDA, etc.)
  - Compatibility with other Swiss platforms
- Choice of IdéoSanté by SQLI (same as Luxembourg)
Infomed IT plateform

HP: Health professional; HPS: Health professional software - SSO: Single Sign On
Phase 1 - Hospital to doctors, defined recipient

Documents:
- Hospital discharge letter
- Exit notice
- Summary of emergency consultation
- Laboratory results
- Consultation report
- Radiological examination report
- Pathology review report

Do not require a specific consent from the patient (same principle as sending by mail or fax)

Messaging mode, pilote phase
Phase 2 – between doctors/Hospital, defined recipient

Documents:

From doctors
- Patient medical summary
- Hospital admission application
- Consultation report

From laboratories
- Laboratories results
- Pathology review report

From medical imaging institutions
- Radiological examination report

Messaging mode, pilote phase
Phase 3 – access to medical data (without being the explicit recipient)

Constraints:
- **Obtain consent from patient** (creation of folder AND consultation of data)
- General information to the population

Sharing mode (Shared Patient Folder)
Phase 4 – integration of pharmacists

**Constraints:**
- Define which data is accessible by pharmacists

**Sharing mode (Shared Patient Folder)**

**Documents:**
- Drugs/medication folder
Phase 5 – extension to others health professionnals

Constraints:
- Define which data is available by whom
- EMS-CMS IT platform must be in place

Sharing mode (Shared Patient Folder)
Phase 6 – integration of patients

Constraints:
- Strong authentication of patients: Insurance card, SuisseID, Token SMS?

Documents:
- Documents from patients like:
  - Advance directives
  - Organs donation

Patient mode
Consent of patient

- Phase 1-2 (messaging): same principles as today

- Phase 3 (sharing)
  - Consent of patient for opening: written formular
  - Access by doctor by inputing the patient PIN code
  - Emergency access is possible without PIN code

- Phase 6 (patient)
  - Rights management by patient
Evaluation from eHealth Swiss

- **Preparation phase** (frame conditions, funding, legal aspects)
  
  => summer 2013
  
  => good to very good results
  
  => organizational, political and legal bases are there in order to implement the project according to the eHealth strategy

- **Implementation phase**
  
  => autumn 2013
  
  => Label «Interregional »
  
  => 2nd Canton in Switzerland to get it
Infomed portal

Le dossier patient partagé
le bon réflexe santé

Espace Patient  Espace Professionnel  Espace Editeur  Espace Presse

Le Dossier Patient Partagé du Canton du Valais est un espace sécurisé permettant l'échange d'information entre professionnels de santé lors de la prise en charge d'un patient. Il contribue à améliorer la qualité des soins grâce à un accès facilité aux informations des dossiers médicaux des organismes partenaires.

Accéder à votre Espace Patient

Le projet Infomed, échange de données médicales électroniques

Alors que les hôpitaux publics valaisans (Hôpital du Valais) disposent depuis plusieurs années d'un dossier patient électronique et que le secteur médico-social (EMS et CMS) bénéficiait également progressivement d'un dossier de soins informatisé, il apparaît logique de favoriser l'échange électronique de données médicales entre les médecins praticiens valaisans. Le projet Infomed offre une plateforme sécurisée permettant aux médecins d'accéder aux données médicales de leur patient et ceci en respectant la législation sur la protection des données et en garantissant un haut niveau de sécurité informatique.

Actualités

Label "Interrégional" attribué au projet Infomed
Infomed est le 26ème projet suisse à obtenir le label interrégional.

Voir les questions / réponses
Health professional web application

- Access through web navigator
- Authentication by HPC
Integration with private software (Mediway - Logival)
Current status

- **Done**: pilote phase with 10 doctors (09-11/2013)
  - validation of exchanged documents
  - no security problems encountered
  - integration in local software is very important
  - want to send documents

- More info about problems and first feedbacks
  Day 2, track 2, 11h00-12h20
Current status (2)

- **Current**: phase 1 opened to all doctors from French part of the canton (March 2014)
  
  - currently 55 registered users
  
  - 9'140 documents for 3'234 different patients
  
  - ~2 documents / doctor / day
  
  - German part: not using electronic visa
Conclusion - main approach

- Patients are important and in the center

BUT

- We start with the professionals and finish with the patients

BECAUSE WE THINK THAT

- The main added value is for the professional
- Logistic is easier (less persons to inform, convince, register)
- Easier to enrol patients if theirs doctors are already convinced
Thank you for your attention

Alex Gnaegi
Médecin-chef
Chef de projet
+ 41 27 603 49 80
alex.gnaegi@hopitalvs.ch

Cédric Michelet
Adjoint
+ 41 27 603 84 09
cedric.michelet@hopitalvs.ch

Hôpital du Valais (RSV) - Institut Central
1950 Sion
http://www.infomed-vs.ch