International Patient Summary Workshop
09.02.2017

Patient Summary in Austria
DI Michael Nöhammer

- IT pro

- having „always“ worked in eHealth (document transfer, software for physicians)

- since 2011 in the Austrian Medical Chamber
federalism
some statistics … / Austria has

<table>
<thead>
<tr>
<th>Statistic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>population</td>
<td>~ 8.500.000</td>
</tr>
<tr>
<td>hospitals / beds</td>
<td>279 / 64.000</td>
</tr>
<tr>
<td>employed doctors</td>
<td>~ 24.000</td>
</tr>
<tr>
<td>self-employed doctors</td>
<td>~ 19.000</td>
</tr>
<tr>
<td>social insurance funds</td>
<td>22</td>
</tr>
<tr>
<td>rate of hospital discharges / 100 inhabitants</td>
<td>26 (EU : 15)</td>
</tr>
<tr>
<td>health expenditure</td>
<td>32,4 billion €</td>
</tr>
</tbody>
</table>

Source: Bundesministerium für Gesundheit und Frauen, 2012
75% of the health care system is jointly financed by the federal and regional government(s) (provinces) and social insurances (compulsory health insurance).

25% of the health care system are privately funded

Source: Hauptverband der österreichischen Sozialversicherungsträger, 2016
but only 1 ELGA (Elektronische Gesundheitsakte) = electronical health record

- under discussion since 2006
- ELGA Act of 2012
- phasing in at first hospitals in 2015
- actual implementation in the majority of hospitals in 2017
- large-scale use by self-employed doctors in 2017/2018
eHealth in Austria

in use:
- electronic prescription
- dismissal report
- laboratory report
- radiology report

under discussion:
- patient summary
- physicians report

cda guides
- usability styleguides
- terminology services
- standardization efforts

infrastructure:
- patient index
- doctor index
- access control
- rights management
- protocolling

Source: ELGA GmbH
Standards used in ELGA

Documents: HL7 CDA Rel. 2 (XML)
- Style guides / templates: CDA doctor’s letter DE, IHE PCC, IHE LAB, IHE Pharm
- Tooling: scheme, Schematron, XSL, XSL-FO, art-decor
- Attachments: PDF/A-1 (a, b)

Semantic standards on Terminologyserver
- LOINC + UCUM (Laboratory parameters and units)
- LOINC (Document classification)
- ICD-10 (Diagnoses)
- ATC (ingredients oder components of in electronic prescription)
- EDQM Standard 7erms (electronic prescription)
- HL7 vocabularies: CDA Header, laboratory report, etc...
- ISO 3166-1 (countries)
- ISO 639-2 (languages)
- SNOMED CT (structural codes, from IHE PCC Templates)
- APPC (radiological examinations)
- Many national codelists

Source: ELGA GmbH
### Patient Summary

#### Patient
- **name [R]**
- **age [R]**
- **sex [R]**
- **address [O]**
- **nationality [O]**
- **family status [O]**
- **language [O]**
- **occupation held**
- **contact person [O]**
- **legal representative (legal guardian, custodian) [O]**
- **insurance(s) [O]**
- **exemption from fees (such as prescription fee) [O]**
- **care level [O]**
- **data on social care [O]**

#### Health Problems
- **last diagnoses / reasons for consultation [R]**
- **discharge diagnosis [R]**
- **permanent / long-term diagnoses [R]**
- **free text relating to diagnoses**
- **invalidity [R]**
- **operations / transplantations / interventions [R]**
- **implants [R]**
- **status post diagnosis [O]**
- **nursing diagnosis [O]**
- **medical or therapeutic aids (prostheses, spectacles, walking aids, etc.) [O]**
- **general remarks [O]**

#### Warnings
- **allergies [R]**
- **intolerances [O]**

#### Medication, Vaccinations
- **e-prescription [R]**
- **vaccination status [O]**

#### Blood Groups
- **blood groups including antibodies [O]**

#### Health Service Provider
- **General practitioner / family physician [R]**
- **Professional currently providing health services [O]**
- **Professional having provided health services [O]**
- **Mobile nursing and care service [O]**

#### Meta Data
- **Creation date [R]**
- **Last update [R]**
- **Author(s) [R]**
- **Modifications since last access [O]**

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Data electronically available
Big Tasks:

- synchronising with epSOS definition „Allergies and Other Adverse Reactions Section”
- in Austria “text only” is used currently
- a medical society designs a suggestion for a coding system
- compatibility with „JAseHN“ project
- decision between automatic and manual patient summary
The Austrian Medical Chamber welcomes electronic tools for doctors:

- eHealth significantly can support medical activity
- tools must fit in the existing environment
- effort < use !!
- for publicly financed doctors, the financial questions must be solved
- usability, usability, usability ;-)
Thank you for your attention!

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