International Patient Summary

A Global Standard with Local Implementation Requirements

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Patient Summary in the EHDS

- **Priority categories of personal electronic health data for primary use (Article 5)**
  - 1. (a) patient summaries

- **MyHealth@EU – current status**
  - 7 EU countries make patient summaries available
  - 9 EU countries enable doctors to retrieve patient summaries
  - many more in the “pipeline” – will be mandatory as per the EHDS
  - national scale-up is still an issue in some countries
What is a Patient Summary

• a health record extract comprising a standardized collection of clinical and contextual information (retrospective, concurrent, prospective) that provides a snapshot in time of a subject of care’s health information and healthcare.

How did the IPS come about?

European Initiatives

2009-2016

2017-2018

2017-2021
The IPS is not just ONE standard
Local implementations – two examples

**Canada**

- Medication
- extension
- identification
- code
- coding
- atcClass
- codeScTpsFreeSet
- codeCCDD
- codeLNHP
- text

**Netherlands**

- Medication
- extension
- identification
- code
- coding
- text

The coded medication can be expressed as:

- GTIN International Article Number
- ZI-nummer (2.16.840.1.113883.2.4.4.8)
- Trade product code (HPK)
- Prescription code (PRK)
- Generic product code (GPK)
- Anatomic Therapeutic Classification code (ATC)
- Substance Name Code (SNK)
- Substance Name Code, in combination with Route of Administration (SSK)
- SNOMED CT code
Medication in MyHealth@EU (CDA IG)

The element is used to convey a regional/national medicinal product code or MPID compliant with the IDMP system.

The element MUST NOT be used to convey:
- ATC code (see generalizedMaterialKind instead)
- PCID code compliant with the IDMP system (containerPackagedMedicine.code to be added later for this use)

The <originalText> under the code MAY be included, but is not expected to be processed by the recipient of the document. If included, it SHALL contain a <reference> whose URI value points to the generic name and strength of the medication in the narrative, or just the generic name alone if strength is not relevant.

If the code is not available, the whole field SHOULD be skipped.
Medication in the IPS

<table>
<thead>
<tr>
<th>Name</th>
<th>Flags</th>
<th>Card.</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medication</td>
<td>0..*</td>
<td>Medication</td>
<td></td>
</tr>
<tr>
<td>code</td>
<td>S</td>
<td>1..1</td>
<td>CodeableConceptIPS</td>
</tr>
</tbody>
</table>

Medication that was administered or was to be administered (medication code from any code system)

**Binding:** Medications - SNOMED CT + Absent/Unknown (IPS) (preferred): SNOMED CT medications (Pharmaceutical / biologic product) or a code for absent/unknown medication

**Additional Bindings**

<table>
<thead>
<tr>
<th>Name</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medications - SNOMED CT IPS Free Set</td>
<td>Candidate Validation Binding</td>
</tr>
<tr>
<td>WHO ATC - IPS</td>
<td>Candidate Validation Binding</td>
</tr>
<tr>
<td>Absent or Unknown Medication - IPS</td>
<td>Candidate Validation Binding</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Flags</th>
<th>Card.</th>
<th>Type</th>
<th>Description &amp; Constraints</th>
</tr>
</thead>
<tbody>
<tr>
<td>CodeableConcept</td>
<td>0..*</td>
<td>CodeableConcept</td>
<td>Concept - reference to a terminology or just text</td>
<td></td>
</tr>
<tr>
<td>coding</td>
<td>S</td>
<td>0..*</td>
<td>CodingIPS</td>
<td>A reference to a code defined by a terminology system</td>
</tr>
<tr>
<td>text</td>
<td>S Σ</td>
<td>0..1</td>
<td>string</td>
<td>Plain text representation of the concept</td>
</tr>
</tbody>
</table>
Medication in real life
So who makes the translation?

• ePrescribing software modules
  • Usability and User Experience for clinicians

• Medicinal Product Dictionaries
  • Support ePrescribing with names, codes, dose forms, packages, etc.
  • Also used by pharmacies for dispensing, invoicing, etc.

• National Drug Databases
  • Provide the details on all authorized medicinal products

• Global Drug Databases
  • Provide linkage based on substance(s), strength(s) and dose form
  • A unique global PhPID could be provided and included everywhere
Translations in MyHealth@EU

Master Valueset Catalogue

Dutch local implementation

MyHealth@EU

NCPeH

EHR System

NL

Canadian local implementation

NCPeH

EHR System

CA

Master Valueset Catalogue
Translations for the IPS

Patient requests an IPS

Patient presents an IPS

IPS Preferred Terminology Bindings

Dutch local implementation

Terminology Server NL

NL

P/EHR System

BE

EHR System

IPS Preferred Terminology Bindings

Belgian local implementation

Terminology Server BE
Coordinated development is needed

Global Collaboration on the International Patient Summary
Questions, Suggestions, Ideas?

https://www.international-patient-summary.net

The International Patient Summary
key health data, worldwide

Implementations across the Globe
Published October 22, 2021 - Updated December 8, 2021

The International Patient Summary is a truly international asset to support the safe and efficient provision of care across the globe. Read about the initiatives and experiences across a wide variety of countries.

https://www.youtube.com/@UNICOM-IDMP

UNICOM - Community of Expertise: Cross-border ePrescription - standards, terminologies, processes
UNICOM • 216 views • Streamed 1 year ago
This video focuses on the very use case of people travelling across countries providing insights on the current experiences and projects aiming at cross-border information sharing for ePrescribing.

https://unicom-project.eu/