International Patient Summary - Overview

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Reducing Clinician Burden Project

2022-08-08
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About Me

• Rob Hausam MD
• Healthcare Informatics Consultant, Hausam Consulting LLC
• Family Physician & Electrical/Computer Engineer
• Co-lead HL7 International Patient Summary (IPS) Project
• Co-chair HL7 Vocabulary and Orders & Observations Work Groups
What is the IPS?

• International

It emphasizes the need to provide generic solutions for global application beyond a particular region or country.

• Patient

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

• Summary

IPS: a focused Patient Summary

Provide a **healthcare summary** for a citizen at the point of care

It is **minimal** and **non-exhaustive**

It is **specialty-agnostic** and **condition-independent**……but still **clinically relevant**
IPS: a focused Patient Summary

- Designed to be simple and implementable
- Usable any time, in any place; by any one
- Multi-beneficiaries: Individuals, Healthcare Providers, Society
**International Patient Summary**

**Health record extract**
- Snapshot in time of a subject of care’s health information and healthcare

**International**
- generic solutions for **global application** beyond a particular region or country.

**Scoped**
- Designed for **Unscheduled** (cross-border) care
- …but it provides a **base-line usable** also within other **scheduled or planned care cases**.
International Patient Summary

- It doesn’t pretend to accommodate all the situations.
- It recognises that the ideal dataset is not closed, and is likely to be extended.

Minimal

Non-exhaustive

Specialty-agnostic

Condition-independent

- Reflects the ideas of ‘summary’ and the need to be concise
- It alludes to the existence of a core set of data items that all health care professionals can use;
International Patient Summary

- Minimal
- Non-exhaustive
- Specialty-agnostic
- Condition-independent

- It does not imply that all the items in the dataset will be used in every patient summary.

- It is a **starter set** of data to help inform a person’s treatment at the point of care, irrespective of the condition of the patient or of the specialist trying to manage the care.
IPS: fulfilling a clinical need...

**Need:** an up-to-date clinical summary, available at the point of care, anywhere in the world

- **Test and verify** that content can both be sent, received and understood
- **Maintain and grow** to better meet the need
- **Adopt and implement** into vendor products
- **Build a standardized** set of clinical content, that can be effectively utilized by any clinician, anywhere
IPS Content Sections

- Subject
- Author
- Attester
- Custodian

“Header“ Required Recommended Optional
- Medication Summary
- Immunizations
- Vital Signs
- Functional Status
  Autonomy/Invalidity
- Allergies and Intolerances
- History of Procedures
- Past History of Illness
- Plan of Care
- Problem List
- Medical Devices
- Pregnancy Status + History Summary
- Advance Directives
- Diagnostic Results
- Social History

HL7 International
What makes up the IPS

A document composed of reusable “profiles”

The IPS “library of profiles”

- Allergies
- Problems
- Medications
- Vaccinations
- Results
- Procedures
- ....
The IPS “library”
Envisioned “specialized” IPS use

The IPS

The “Immunization” IPS

Transform

Digital Certificate

FHIR Vaccination Certificate
The Patient Summary journey...

2009-2016

2017-2018

European initiatives

IPS 2017-2021

Get to know the
Joint Initiative Council

Making high-quality data available to the right people, at the right place and at the right time, for high-quality decisions and care.

Learn about the JIC at jointinitiativecouncil.org

Joint Initiative Council
Patient Summary Standards Set

GUIDANCE DOCUMENT
JANUARY 2018 V1.0

HL7 International
IPS: a Cross-SDO Initiative
The IPS landscape

IPS Global Standards and Specifications

- ISO 27269
- SNOMED CT IPS Reference Set
- HL7 IPS CDA IG
- HL7 IPS FHIR IG
- IHE IPS Profile

- eHN EU PS Guideline
- CEN EN 17269
- CEN TS 17288

provide guidance for EU

refine

implement

supersede

align

use

implement

refer

refer

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The IPS landscape
The FHIR IPS

There is only one FHIR IPS!
The FHIR IPS

Integrating the Healthcare Enterprise

IHE Patient Care Coordination
Technical Framework Supplement

International Patient Summary (IPS)
HL7 FHIR® v4
Using Resources at FHIR Level I-N

Revision 1.1 – Trial Implementation

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Please verify you have the most recent version of this document. See https://www.ihe.net/ for Trial Implementation and Final Test versions and https://www.hl7.org for Public Comment versions.

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https://www.ihe.net/uploadedFiles/Documents/PCC/IHE_PCC_Suppl_IPS.pdf

http://hl7.org/fhir/uv/ips
https://build.fhir.org/ig/HL7/fhir-ips/
https://registry.fhir.org/package.hl7.fhir.ips%7C1.0.0
IPS Standards Artifacts & Processes working together

Specification
- EN17269
- DIS27269

Implementation
- HL7 FHIR Implementation Guide
- CDA Implementation Guide
- IHE IPS Profile
- TS17288

Terminology
- IPS "free" Set
- Global Patient Set (GPS)

Conformity Assessment
- IHE Connectathon(s)
- FHIR Connectathon(s)
IPS Standards Artefacts

• ISO/DIS 27269 published
• CEN/EN 17269 and CEN/TS 17288 published
• HL7 FHIR and CDA Implementation Guides (IG) published as “Standard for Trial Use”
• IHE IPS Profile for both CDA and FHIR published for “Trial Implementation”
• SNOMED CT has published the free for use “International Patient Set” subset (i.e. the IPS “free set”)
  – And will soon be publishing the “IPS Terminology” (i.e. “sub-ontology”)
Cross-SDO Promotion of IPS Adoption

• HL7 IPS Project Group
  – Expect to publish IPS Standard for Trial Use (STU) update soon (by August or September 2022)

• IPS Cross-SDO Collaboration Group
  – HL7, IHE, ISO, SNOMED, CEN and others
  – Meet biweekly – focus on maintaining alignment and progressing further development and implementation of the IPS specifications

• ISO
  – ISO 27269 Revision
    • Ad Hoc Group – determining strategy for ISO 27269 comment resolution
How do we work together on the IPS?

Structure and content

Coded terms

Workflow

Documents and API's
In close collaboration with real-world projects
What have we learned so far?

• Cross-SDO collaborations work very well when there is a focused need
• Each SDO brings their unique expertise, tooling and processes
• A suite of artifacts that work together ultimately helps the end user
• Growth and maintenance are key steps that can’t be forgotten
• Adoption and implementation can be improved by leveraging existing international collaborations:
  – Joint Initiative Council
  – Global Consortium for eHealth Interoperability
  – Global Digital Health Partnership
The next step for IPS – real world implementations!

- Having a standard is nice..
- But it’s of little benefit unless it is widely adopted and used!
IPS Implementation Initiatives

• Global Digital Health Partnership (GDHP)
  Interoperability Work Stream - IPS Work Group
  – Leadership from US/ONC
  – 31 countries & WHO
  – Goals
    • 10 countries implementing IPS in pilot project by end of 2021
    • 20 countries implementing IPS, with 10 in production use, by end of 2022
NEXT STEPS
Publish the updated FHIR IPS IG

- Learn from experience with balloting, review and testing (STU update)
- Fix technical issues
- Update SNOMED CT based value sets to leverage the IPS free set and prepare for the upcoming IPS Terminology
- Other terminology updates
- Additional guidance for use of narrative (especially Composition-section)
Reference implementation(s)

• Provide server(s) that implement the \$summary operation for creating IPS instances
• Actively looking for support for developing the RI
Expand the community

• Promote and encourage use of IPS “Community of Practice” Zulip stream
  – https://chat.fhir.org/#narrow/stream/207835-IPS
Ways to get involved

• Weekly HL7 IPS/IPA call
  – Wednesday 10:30 AM – 12:00 noon ET (14:30 – 16:00 UTC)
  – https://us02web.zoom.us/j/5328571160

• Bi-weekly IPS Cross-SDO Collaboration call
  – Wednesday 2:00 – 3:00 PM ET (next call August 10)
  – https://us02web.zoom.us/j/89197612486?pwd=elBROGxwblNXa0hOdFhOc0VxOHZpUT09

• Ask questions and comment on Zulip