International Patient Summary
FHIR Connectathon 34

Presented to:
IPS Track
August 2023
Introductions

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Agenda

Recorded Kickoff

• Introduction to IPS (10 minutes)
• What are goals of IPS Connectathon Track (5 minutes)
• Review of Tools for Connectathon (5 minutes)
• Review of SMART Health Links (5 minutes)
• Q&A

Stop Recording

• Introduction of participants and informal discussion
What is the IPS?

- A standardized set of basic clinical data
- Includes most important health and care related facts
- A summarized version of a patient’s clinical data provides health professionals the essential information needed for care

The International Patient Summary is a minimal and non-exhaustive set of basic clinical data of a patient, specialty-agnostic, condition-independent, but readily usable by all clinicians for the unscheduled (cross-border) patient care.
What is the IPS?

Where to go for broader introduction?

https://international-patient-summary.net/
The IPS in HL7 FHIR

A care summary using the Composition Resource
Published: https://hl7.org/fhir/uv/ips/ (STU 1.1)
Current: http://build.fhir.org/ig/HL7/fhir-ips/

Bundle
• Composition (1)
• Patient (1)
• Practitioner (*)
• Organization (*)
• AllergyIntolerance (*)
• MedicationRequest(*)
• MedicationStatement(*)
• Condition (*)
• Immunization (*)
• Observation (*)
• Other Resources (*)

Composition
Elements that describe the document (id, language, text, etc.)
Subject of the IPS
Author of the IPS
Clinical Services of IPS
Sections of the IPS
- Narrative Text
- Resource References
IPS vs. International Patient Access (IPA)

Standards Based Data (IPA & IPS)

- IPS Content Profiles
- Conforms to IPA²

Data Exchange

- Multiple modalities for exchange
- IHE Profiles
- Patient-mediated
- Links
- Human readable + structured terminology³

Search & Query (FHIR-based APIs)

Focus on structured data but content/terminology vary by geography and use case

Users

- Clinician
- Patient

System of Record

- Cross-Border¹
- Universal¹

IPA Content Profiles

- Consumer Device

1. “Cross-Border” has an international focus but may be any organizational, regional, or national jurisdiction. “Universal” includes data access within and across borders as a baseline for international commerce.
2. Pending final ballot reconciliation of IPA and updates to IPS
3. IPS primarily uses the SNOMED IPS Terminology where most appropriate
Version/Info for Connectathon

Track Overview: https://confluence.hl7.org/display/FHIR/2023+-09+International+Patient+Summary

Version 1.1: https://hl7.org/fhir/uv/ips/
  • Officially published on November 22, 2022
  • A non-breaking update that incorporates implementer feedback, FHIR specification conventions, terminology updates and a review of Must Support (see here for full change detail: http://build.fhir.org/ig/HL7/fhir-ips/changes.html )

Current Build: http://build.fhir.org/ig/HL7/fhir-ips/
Goals for IPS Connectathon

Specific to September 2023

• Evaluation of new branch for emptyReason changes (Sheridan Cook) / Content status for each document as subsection – explore questions surrounding (Thomas Zhou)

• IPS Editor and Set up ePatientDave record

• Facilitating patient-mediated exchange (SMART Health Links)

• Dutch Patient Summary – work out bugs and improvements on $summary. See in viewer as well (Sheridan + Marc breakout as well)

• Try out new viewers as well (for SMART Health Links https://viewer.tcpdev.org)

• What else do you want to achieve?

Normal Stuff We Do Routinely

• Visualize and interact with IPS samples (e.g. https://www.ipsviewer.com or https://ps-ca-renderer.apibox.ca/)

• Validation of IPS examples

• Server interaction (to be recorded in ConMan)
Specific sessions during the weekend

- Saturday September 9, 2023: Joint Session with IPA
- Sunday TBD: Session with Dave DeBronkart
- TBD: Sheridan (Canada) <> Marc (Netherlands)
- TBD: Review with Diego on new HL7 server
  (https://hl7-ips-server.hl7.org/fhir/)
Select Tools & Examples

http://www.ipsviewer.com

https://github.com/jddamore/IPSviewer/tree/main/samples

https://inference.healthit.gov/suites/

International Patient Summary (IPS) Viewer for Connectathon

Submit Data
This is for test data only. Please do not submit PHI.

Paste your IPS here:

View IPS

International Patient Summary (IPS) Viewer

FHIR Testing with Inferno
Test your server's conformance to authentication, authorization, and FHIR content standards.
Washington State Early Demonstration

About SMART Health Links

Introductory Documentation:
https://docs.smarthealthit.org/smart-health-links/design

Introductory Videos:
• Concept: https://www.youtube.com/watch?v=SbM9I20lH64
  (note that technical details in concept are out of date)

• Technical: https://www.youtube.com/watch?v=KxzD5E7Zzgk
About SMART Health Links

• The QR code is a link bundled together with a decryption key

(from prior slide image)
https://shlink.ips.health/ips#shlink:/eyJ1cmwiOiJodHRwczovL2FwaS52YXh4Lmxpbm
svYXBpL3NobC9hQ1N0ZERiTWtNcGZsSzFSS2MxS0ZYbTNjb0cwd0xiY19tNkxLbmZS
eVRBlwiZmxhZyl6lIsImtleSI6IkIiLCJsYWJlbCI6IiIsImtleSI6IklFTjBHRy16Mm1RRG53N00xM2V5UW5OLVotLTB1Yi1PdDI2eU1YMHMiLCJsYWJlbCI6IiIsImtleSI6IklFTjBHRy16Mm1RRG53N00xM2V5UW5OLVotLTB1Yi1PdDI2eU1YMHMi

• Blue = Link that any web browser can use to view content

• Orange = Information that would resolve to FHIR IPS Document (Bundle) for servers that would prefer to just handle the raw information

• Additional optionality to include a passcode or embed additional authorization steps
IPS & SMART Health Links

1. Requests IPS from EHR or Health Information Exchange

2. Download & save SMART Healthlink

3. Patient visits “cross-border” provider and shares QR code

4. Original IPS source requests provider authorization

5. Provider accesses both IPS view and FHIR Bundle

A. Readable View (HTML)

B. Computable Data (FHIR)

Optional: Store QR code in phone wallet

Optional: SMS based authorization to record access. Other options possible

Initial Prototype: https://shlink.ips.health
IPS & SMART Health Links

A

Readable View (HTML)

B

Computable Data (FHIR)
Questions, Comments and Discussion!

https://chat.fhir.org/#narrow/stream/207835-IPS

You can also PM or email me
(johnd@moreinformatics.com)
(james@smilecdr.com)
Introductions

• Your name
• Your organization
• How much do you know about IPS?
• What would you like to get from 2 days in September?
• Your favorite dessert (ice cream or cake)
  o 62% of people prefer ice cream
  o 35% of people prefer cake
  o 3.14159% of people prefer pie