



Global Advancements in the International Patient Summary (IPS)

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John D'Amore, President, More Informatics

Matthew Rahn, Deputy Director of Standards, Office of National Coordinator for Health IT

HIMSS 23

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Meet Our Speakers



Matthew Rahn

*Deputy Director, Standards Division at
Office of the National Coordinator for
Health Information Technology (ONC)*



John D'Amore, MS

*Advocate for International Patient
Summary, HL7 International
President, More Informatics*

Conflict of Interest Slide

John D'Amore, MS
and
Matthew Rahn

Have no real or apparent conflicts of interest to report.

Agenda

- What is the International Patient Summary (IPS)?
- Cross-SDO Collaboration and the Global Digital Health Partnership (GDHP)
- IPS Use Cases
- Structured Data and SNOMED IPS Terminology in IPS
- Global Reference Demonstrations and Implementations
- Tying the Pieces Together and What's Next for IPS

Learning Objectives

- Describe the role of the International Patient Summary (IPS) in cross-border sharing of medical information and the key domains where it summarizes medical information
- Present how leading global health and standards development organizations are advancing IPS adoption and implementation
- Demonstrate open-source tools that have been developed for developing and using the IPS
- Discuss the role of vocabularies and terminologies in the exchange of health information across organizations, nations and different languages
- Distinguish the role of a patient summary (i.e. the IPS) from other emerging methods and standards for accessing clinical data

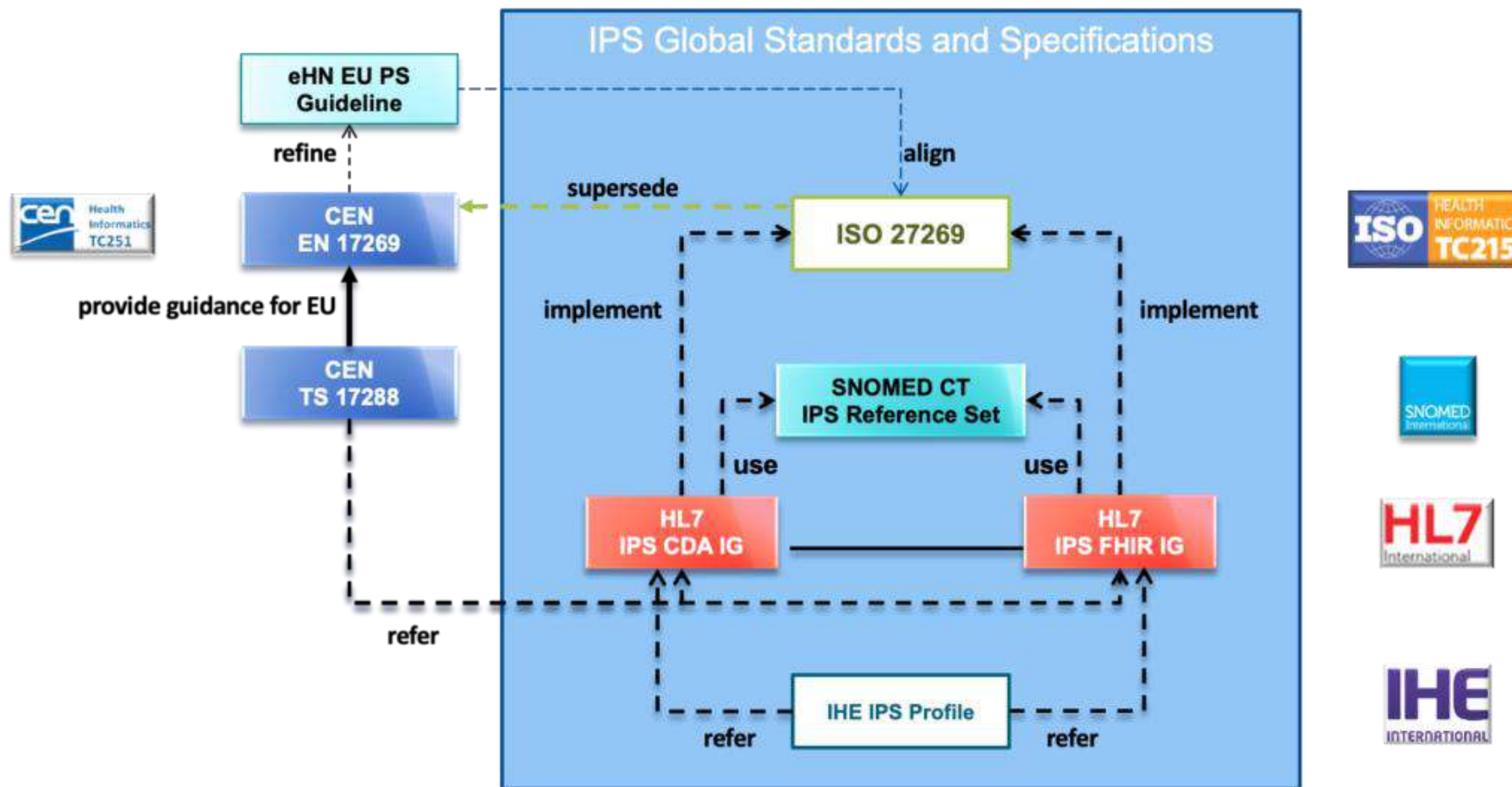
What is the International Patient Summary (IPS)?

- 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.



Cross-Standards Development Organization (SDO) Efforts



What is Global Digital Health Partnership (GDHP)?

- Formed to support the effective implementation of digital health, exchange global best practices, and advance mutually beneficial projects. The GDHP provides opportunities for worldwide participants to exchange best practices for data sharing, electronic health records, ePrescribing, patient access, etc.
- 5 Workstreams related to work. One is interoperability which has a focus on the International Patient Summary. More info at link below

<https://gdhp.health>

Global Digital Health Partnership (GDHP)

33 governments
+ WHO, OECD
and I-DAIR



GDHP Support for the IPS

- Goals of advancing IPS piloting & adoption
- Consider how IPS relates to policy and explore how information transfer can happen “cross-border”
- Provide venue for nations to learn, connect and discuss about activities related to IPS FHIR development
- Support open-source development
- Host mini-connectathons (4 hour virtual events):
May 2021, June 2021, October 2021, January 2022, June 2022 and November 2022

GDHP & G7

- In 2021, the G7 moved to make support of the IPS a policy priority with a detailed roadmap released at end of year:
<https://www.gov.uk/government/publications/g7-health-track-digital-health-final-reports>
- The United Kingdom provided a prototype demonstration of how the IPS may be implemented in December 2021:
<https://vimeo.com/653713828>
- G7 plans to support (not compete with) GDHP

GDHP Interoperability Workstream: IPS Milestones

- **10+** Connectathons (GDHP, HL7 and other) involving IPS
- **5+** IPS presentations at national & global conferences

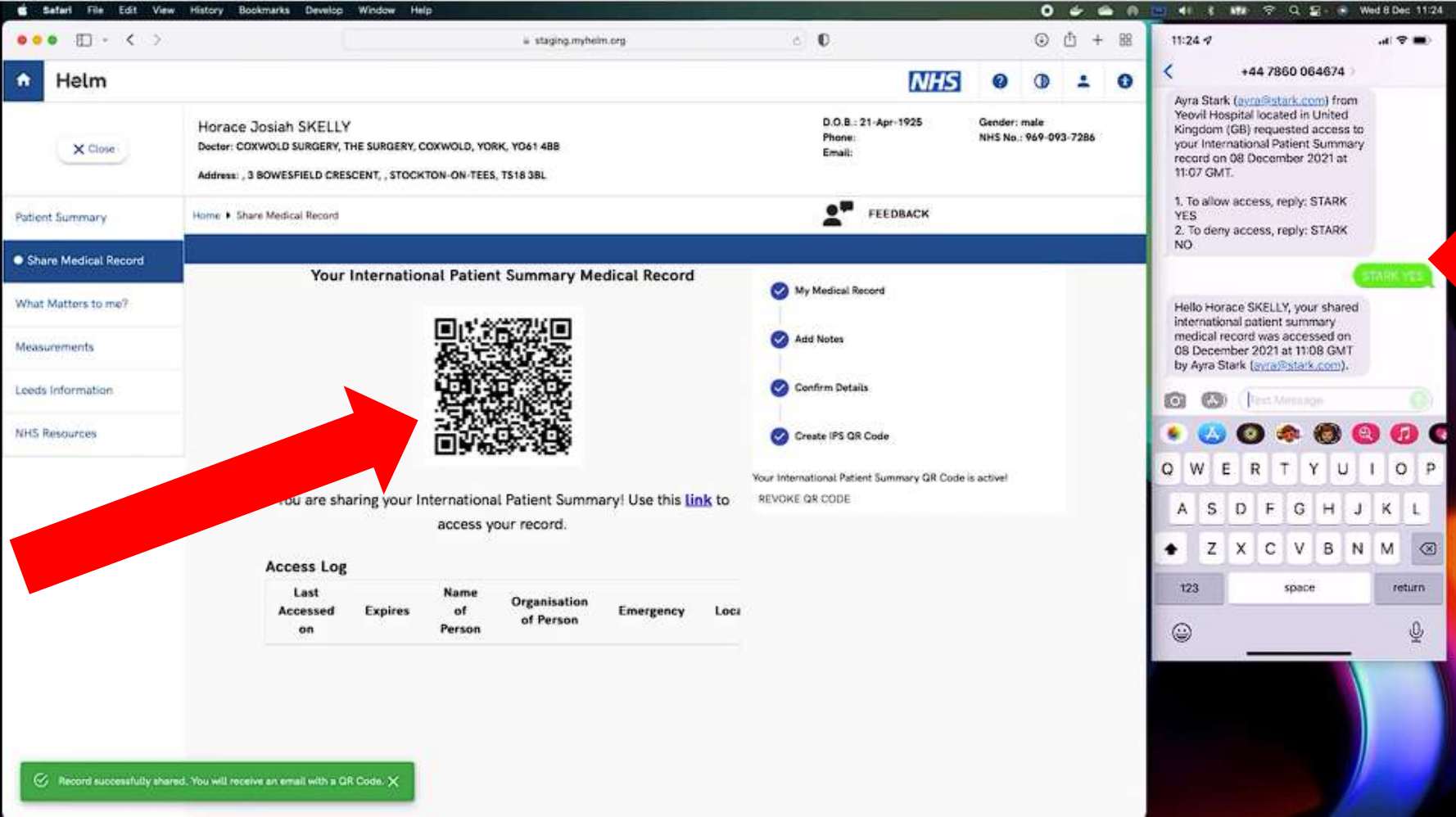


- Advancement of IPS examples and vendor engagement
- Progress to align IPS and International Patient Access (IPA)

Example IPS Use Case



Patient Mediated Exchange Use Case



Patient requests and gets QR code to link to IPS

Patient receives physician access request when they navigate QR code

IPS Around the World



Canada

National adaptation of IPS to regional information exchange
Project-a-thon with exchange testing, content creation and vendor demo (March 2022)

Current Patient:

Patient Summary	
Name	Evelyn McCurdy
Gender	female
Born	1957-04-16

Select the type of data to retrieve for the current patient:

Allergy Intolerances	Care Plan	Clinical Impression
Conditions	Immunizations	Medication Requests
Observations	Procedures	Vital Signs

Create or send a Document:

Endpoint:

Select A Data Type:



Netherlands

Significant work to advance IPS adoption domestically through secure exchange MedMij

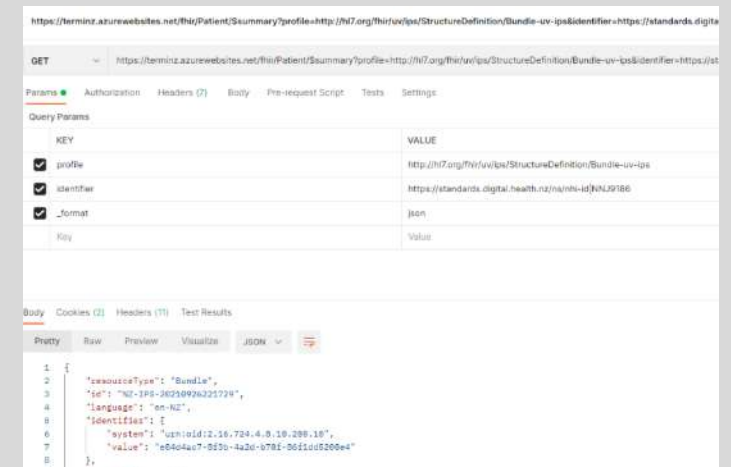


Host of 2022 GDHP Summit

Multiple commercial vendors participating in connectathons and IPS development

IPS involvement in multiple Trans-Tasman Connectathons

Public server for IPS testing:
<https://terminz.azurewebsites.net/fhir>



IPS FHIR Guide

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/>

Required sections

- Allergies
- Medications
- Problems

+ 11 other sections profiles

The screenshot shows the HL7 International Patient Summary Implementation Guide website. The header includes the HL7 International logo, the title "International Patient Summary Implementation Guide", and the version "1.1.0 - STU 1 Update 1". A navigation bar contains links: Home, Table of Contents, General Principles and Design, The "IPS", FHIR Artifacts, Downloads, and Copyrights. Below the navigation bar is a "Table of Contents" section. A yellow banner states: "This page is part of the International Patient Summary Implementation Guide (v1.1.0: STU 1) based on FHIR R4. This is the current published version. For a full list of available versions, see the Directory of published versions." The main content area is titled "1 International Patient Summary Implementation Guide". It includes a table with the following information:

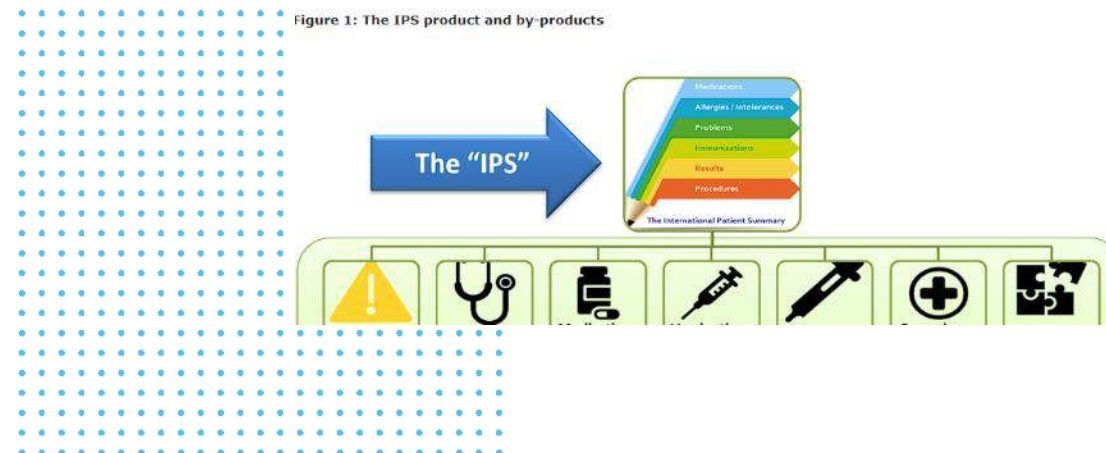
Official URL: http://hl7.org/fhir/uv/ips/ImplementationGuide/hl7.fhir.uv.ips	Version: 1.1.0
IG Standards status: Trial-use	Maturity Level: 2
Computable Name: InternationalPatientSummaryIG	

Below the table, it states "Page standards status: Informative". The main text describes the International Patient Summary (IPS) document as an electronic health record extract containing essential healthcare information about a subject of care. It is designed for supporting the use case scenario for 'unplanned, cross border care', but it is not limited to it. It is intended to be international, i.e., to provide generic solutions for global application beyond a particular region or country. The IPS dataset is minimal and non-exhaustive; specialty-agnostic and condition-independent; but still clinically relevant. The IPS document is composed by a set of robust, well-defined and potentially reusable sets of core data items (indicated as IPS library in the figure below). The tight focus of the IPS on unplanned care is in this case not a limitation, but, on the contrary, facilitates their potential re-use beyond the IPS scope.

Figure 1: The IPS product and by-products

On the right side of the screenshot, there is a yellow box containing a list of sections:

- Purpose
- Project Background
- Project Scope
- Relationships with Other Projects and Guidelines
- Ballot Status
- Dependencies
- Cross Version Analysis
- Global Profiles
- Authors and Contributors



IPS Composition

The IPS is a Bundle which uses the Composition resource to organize the patient's summary. It's both machine readable and human render-able

The screenshot shows the HL7 International Patient Summary Implementation Guide website. The header includes the HL7 logo and the title 'International Patient Summary Implementation Guide 1.1.0 - STU 1 Update 1'. A navigation bar contains links: Home, Table of Contents, General Principles and Design, The "IPS", FHIR Artifacts, Downloads, and Copyrights. The main content area is titled 'Table of Contents > IPS Structure'. A yellow banner states: 'This page is part of the International Patient Summary Implementation Guide (v1.1.0: STU 1) based on FHIR R4. This is the current published version. For a full list of available versions, see the Directory of published versions.' Below this, the section '6 IPS Structure' is shown with a 'Page standards status: Informative' label. The subsection '6.1 The International Patient Summary Structure' explains that the IPS is composed of several sections. A figure titled 'Figure 2: The IPS composition' displays a grid of colored boxes representing the components of an IPS: Subject (blue), Medication Summary (red), Immunizations (orange), Vital Signs (green), Functional Status: Autonomy/Invalidity (light green), Author (blue), Allergies and (red), History of (orange), Past History of (green), Plan of Care (light green), and Custodian (blue). A sidebar on the right lists: 'The International Patient Summary Structure', 'Sections description', and 'List of Profiles'.

Bundle

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

Composition

Elements that describe document (id, language, text)

Subject of the IPS

Author of the IPS

Clinical Services of IPS

Sections of the IPS

- Narrative Text
- Resource References

SNOMED IPS Terminology (November 2022)

Review our COVID-19 content

Home | Our organization | News | Events | Resources

Search

SNOMED International

Leading healthcare terminology worldwide

+ SNOMED International

+ SNOMED CT

+ Our stakeholders

The International Patient Summary Terminology

SNOMED International has extended the core of SNOMED CT to deliver an open, standalone IPS Terminology to support the scope of content within the IPS.

What is the International Patient Summary?

The International Patient Summary (IPS) is an electronic health record extract containing essential healthcare information for use in the unscheduled, cross-border care scenario, as well as for local, regional and other care scenarios. It is a standardized set of basic clinical data that includes the most important health and care related facts required to ensure safe and secure healthcare.

This minimal and non-exhaustive set of data elements have been defined by ISO/EN 17269 and delivered by HL7 in both CDA and FHIR using a curated set of SNOMED CT terms.

<https://ips-browser.snomedtools.org/>

SNOMED CT - Diabetes mellitus

ips-browser.snomedtools.org/?perspective=full&conceptId=73211009&edition=MAIN/2022-07-31&release=8&languages=en

Release: IPS Terminology

Version: 2022-07-31

Perspective: Full

Feedback

About

Taxonomy

Search

Favorites

Reset

Search

Type at least 3 characters ✓ Example: show fra

diabetes

87 matches found in 0.217 seconds.

Options

Search: Prefix any order

Status: Active concepts only

Description type: All

Language: Refsets

Group by concept

Filter results by Language

english 87

Filter results by Semantic Tag

disorder 79

finding 4

procedure 1

situation 3

Filter results by Module

IPS terminology module (core metadata concept) 87

Filter results by Refset

OVL axiom reference set (foundation metadata concept) 87

International Patient Summary (foundation metadata concept) 79

Latent diabetes	Impaired glucose tolerance (disorder)
Labile diabetes	Brittle diabetes mellitus (finding)
Diabetes mellitus	Diabetes mellitus (disorder)
Diabetes insipidus	Diabetes insipidus (disorder)
Gestational diabetes	Gestational diabetes mellitus (disorder)
FH: Diabetes mellitus	Family history of diabetes mellitus (situation)
H/O: diabetes mellitus	History of diabetes mellitus (situation)
Steroid-induced diabetes	Steroid-induced diabetes (disorder)
Type 1 diabetes mellitus	Diabetes mellitus type 1 (disorder)
Type 2 diabetes mellitus	Diabetes mellitus type 2 (disorder)
FH: Diabetes in pregnancy	Family history: Diabetes in pregnancy (situation)
Maternal diabetes syndrome	Syndrome of infant of diabetic mother (disorder)
Central diabetes insipidus	Neurohypophyseal diabetes insipidus (disorder)
Diabetes type 2 on insulin	Insulin treated type 2 diabetes mellitus (disorder)
Secondary diabetes mellitus	Secondary diabetes mellitus (disorder)
Diabetes mellitus screening	Diabetes mellitus screening (procedure)
Diabetes type 1 with cataract	Cataract of eye due to diabetes mellitus type 1 (disorder)
Hypoglycemic event in diabetes	Hypoglycemic event due to diabetes

Concept Details

Expression Constraint Queries

Concept Details

Summary

Details

Diagram

Expression

Refsets

Members

History

References

Stated

Inferred

Parents

Disorder of endocrine system (disorder)

Disorder of glucose metabolism (disorder)

Diabetes mellitus (disorder)

SCTID: 73211009

73211009 | Diabetes mellitus (disorder)

en Diabetes mellitus (disorder)

en Diabetes mellitus

en DM - Diabetes mellitus

Finding site → Structure of endocrine system

Children (5)

Diabetes mellitus during pregnancy, childbirth and the puerperium (disorder)

Diabetes mellitus type 1 (disorder)

Diabetes mellitus type 2 (disorder)

Diabetes mellitus without complication (disorder)

Secondary diabetes mellitus (disorder)

A Global Need for Terminology

Structured, coded data are more usable, translatable and easy to integrate



SNOMED
736031006



“Oyster”

Allergies and Intolerancies

allergy - medication - Criticality: undefined

Quinolones (-)

allergy - food - Criticality: undefined

生蠔 (-)



HL7 FHIR Profile: Procedure

This profile represents the constraints applied to the Procedure resource by the IPS project, which specifies an entry of the History of Procedure for the international patient summary based on the FHIR standard R4.

The [Procedures-IPS value set](#) is defined using a logical definition, consisting of the following inclusion and exclusion clauses:

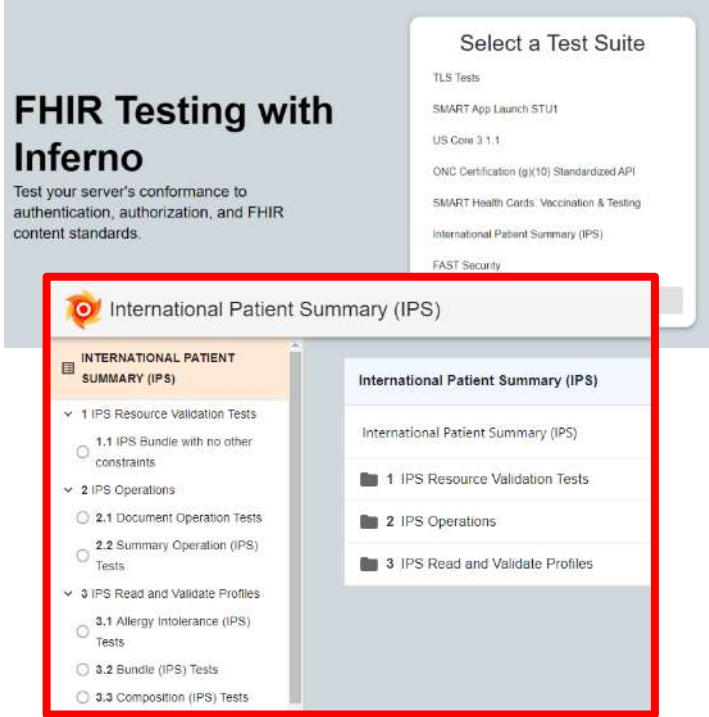
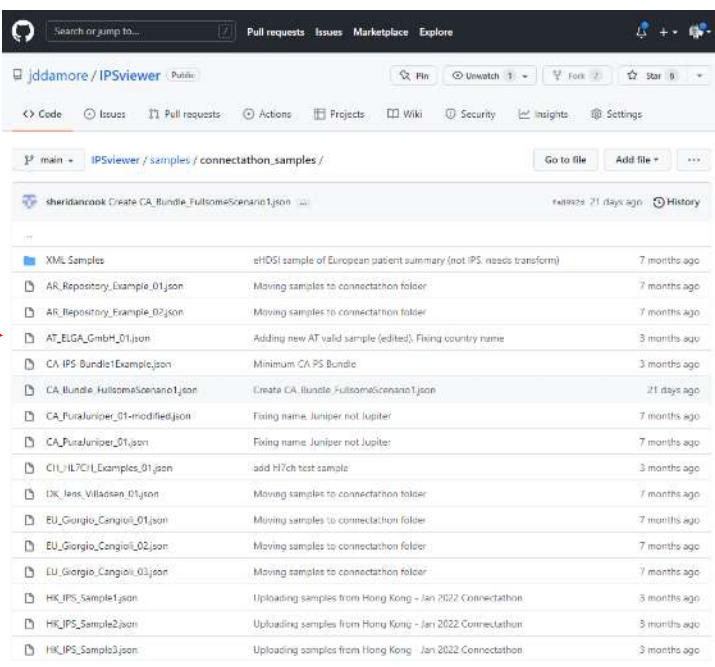
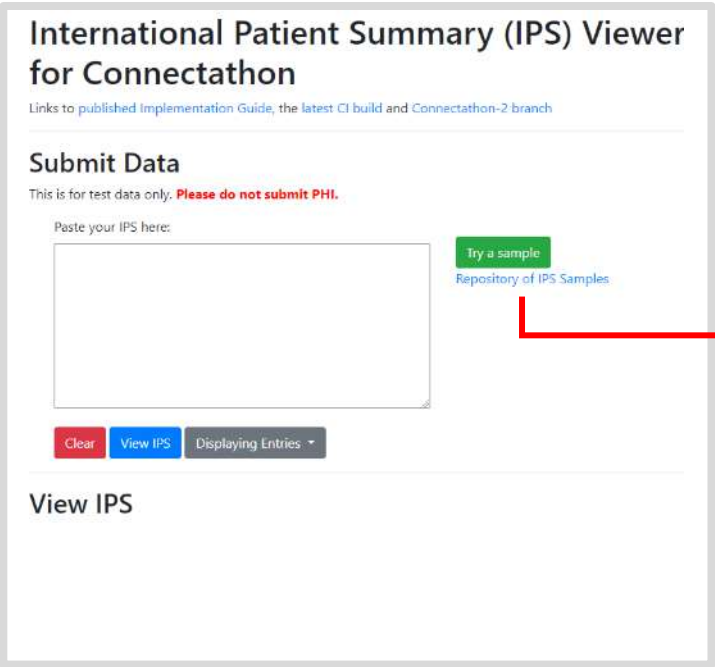
- Include codes from <http://snomed.info/sct> where concept descends from 71388002 (Procedure)
- Exclude codes from <http://snomed.info/sct> where concept is-a 14734007 (Administrative procedure)
- Exclude codes from <http://snomed.info/sct> where concept is-a 59524001 (Blood bank procedure)
- Exclude codes from <http://snomed.info/sct> where concept is-a 389067005 (Community health procedure (procedure))
- Exclude codes from <http://snomed.info/sct> where concept is-a 442006003 (Determination of information related to transfusion)
- Exclude codes from <http://snomed.info/sct> where concept is-a 225288009 (Environmental care procedure)
- Exclude codes from <http://snomed.info/sct> where concept is-a 308335008 (Patient encounter procedure)
- Exclude codes from <http://snomed.info/sct> where concept is-a 710135002 (Promotion (procedure))
- Exclude codes from <http://snomed.info/sct> where concept is-a 389084004 (Staff related procedure (procedure))

Select Tools & Examples

<http://www.ipsviewer.com>

<https://github.com/jddamore/IPSVIEWER/tree/main/samples>

<https://inferno.healthit.gov/suites/>



Open-Source Reference Server

<https://ips.health>

Home

Server: Local Tester | Source Code | About This Server

Options

Encoding: (default) XML JSON

Pretty: (default) On Off

Summary: (none) true text data count

Server

Server Home/Actions

Resources

Observation 538

DiagnosticReport 54

Condition 52

Immunization 45

MedicationRequest 28

Organization 25

Procedure 24

Patient 20

Practitioner 20

AllergyIntolerance 16

Medication 15

CarePlan 12

MedicationStatement 10

Encounter 4

PractitionerRole 4

Basic 2

Composition 2

Location 2

Device 1

Account

ActivityDefinition

AdverseEvent

Appointment

AppointmentResponse

AuditEvent

ips.health IPS Reference Implementation Server

FHIR R4 (More Informatics)

This server is built to support the International Patient Summary (IPS) through an adaption of the HAPI FHIR project, which is a 100% open-source (Apache 2.0 Licensed) Java based implementation of the FHIR specification.

This server supports a HL7 FHIR R4 \$summary operation to retrieve a document Bundle that conforms to the FHIR Implementation Guide for IPS. You can load data using standard FHIR R4 API interactions and generate new summaries. The server has been pre-loaded with a set of example patients to demonstrate IPS documents. This server and the supporting code are under active development and may change. Reach out through the HL7 FHIR community

Here are some useful links to learn more:

- General IPS Introduction
- Project Overview
- Example Documentation
- Server Documentation
- Health Level Seven (HL7), International
- More Informatics (John D'Amore, contributor/hosting)
- Crossroad Labs (Rio Benin, developer)
- Hausam Consulting (Rob Hausam, contributor)

Server	HAPI FHIR R4 Server
Software	HAPI FHIR Server - 6.1.0-IPS
FHIR Base	http://ips.health:8080/fhir

Server Actions

Retrieve the server's conformance statement

Conformance

Retrieve the update history across all resource types on the server

History

Since

Limit # (opt)

Post a bundle containing multiple resources to the server and store all resources within a single atomic transaction

Transaction

Bundle* (place transaction bundle body here)



Demonstrations Across Globe

Search PETER KEITH JONES

Alerts Medical History Clinical Examination Laboratory Imaging Discharge Summaries

On this Page

- Epidemiological History
- Medical Personal History
- Allergies & Intolerances
- Medical Problems and procedures
- Current Problems
- Resolved, Closed or Inactive Problems
- Procedures
- Functional Status
- Medical Devices & Implants
- Medication Summary

Epidemiological History

Travel History

There are no records to display.

Medical Personal History

Allergies & Intolerances

Category	Type	Code	Status	Criticality
	Allergy	http://hl7.org/fhir/r5/ig/lookupallergies	Active	

More per page: 10 20 30 40 50 60 70 80 90 100

Medical Problems and procedures

Current Problems

Code	Severity	Diagnosis Age	Onset Date
http://hl7.org/fhir/r5/ig/lookupallergies			
http://hl7.org/fhir/r5/ig/lookupallergies			

More per page: 10 20 30 40 50 60 70 80 90 100

Resolved, Closed or Inactive Problems

There are no records to display.

Procedures

There are no records to display.

Functional Status

There are no records to display.

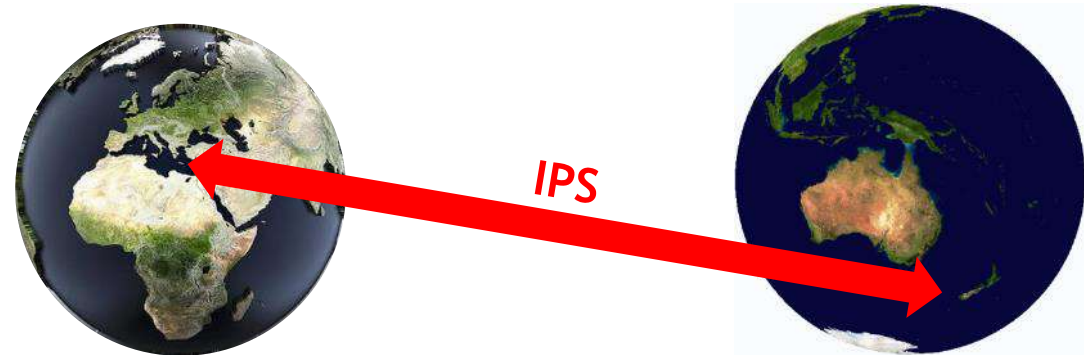
Medical Devices & Implants

There are no records to display.

Medication Summary

Onset Date	Active Ingredient	Route of Administration	Product Name	Strength
2011-03-03			ciprofloxacin 500 microgram tablet/500 microgram suspension (ciprofloxacin hydrochloride product)	

More per page: 10 20 30 40 50 60 70 80 90 100



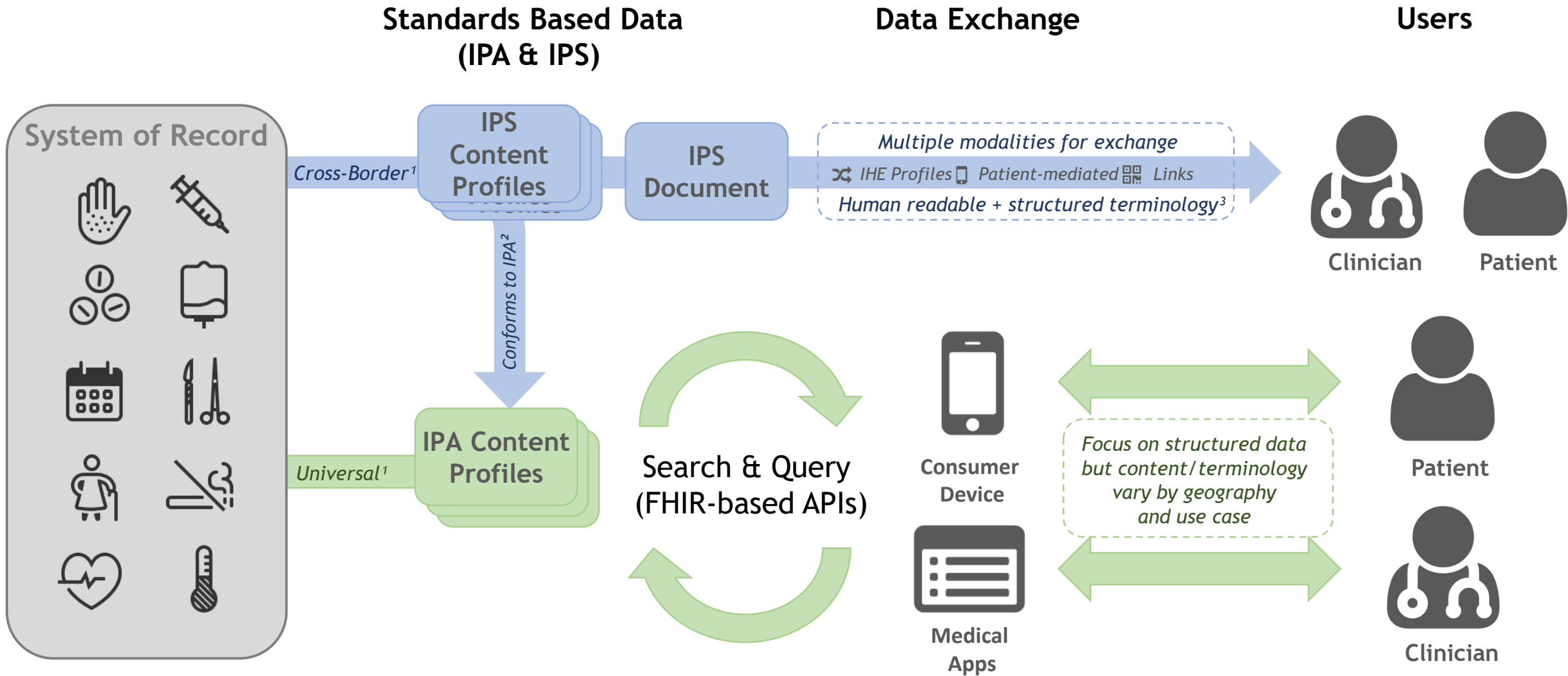
Cyprus demonstrates ability to import IPS from New Zealand (map above, screenshot on left)

Open-source (HAPI) for IPS generation:
<https://ips.health>

Canada has commitments on patient summary exchange

Netherlands and other European nations working in EU framework

IPS vs. International Patient Access (IPA)



HIMSS 23 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

IPS Accomplishments (2021-2022)



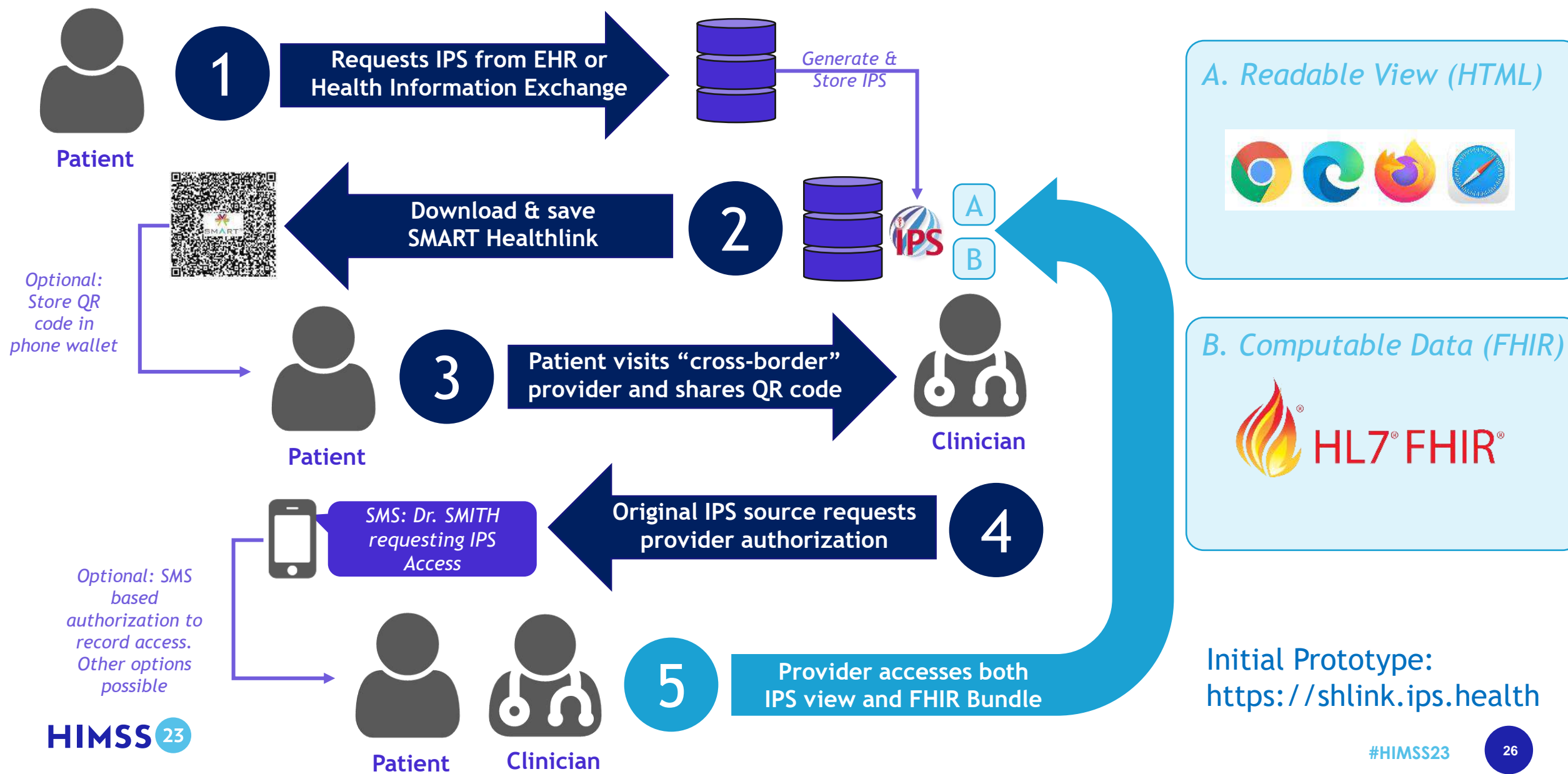
2021:

- **Connectathons – IPS Tracks**
 - ✓ Jan 2021 HL7 FHIR Connectathon
 - ✓ Mar 2021: IHE NA Connectathon
 - ✓ May 2021: HL7 FHIR Connectathon
 - ✓ May 2021: GDHP FHIR Connectathon
 - ✓ Jun 2021: GDHP FHIR Connectathon
 - ✓ Sep 2021: HL7 FHIR Connectathon
 - ✓ Oct 2021: GDHP FHIR Connectathon
- **Present on the IPS**
 - ✓ Apr 2021: GDHP Summit
 - ✓ Aug 2021: HIMSS Conference
 - ✓ Nov 2021: SNOMED International
- **Demos & Articles**
 - ✓ HL7 Blog
 - ✓ IPS Viewer Hosted (www.ipsviewer.com)
 - ✓ UK IPS Prototype Development

2022:

- **Connectathons – IPS Tracks**
 - ✓ Jan 2022: GDHP FHIR Connectathon
 - ✓ Mar 2022: Canadian Projectathon (IPS-related)
 - ✓ Apr 2022: Trans-Tasman Event (IPS-related)
 - ✓ May 2022: HL7 FHIR Connectathon
 - ✓ May 2022: LACPass Connectathon (IPS-related)
 - ✓ June 2022: GDHP FHIR Connectathon
 - ✓ Sep 2022: IHE & HL7 IPS Tracks
 - ✓ Nov 2022: GDHP FHIR Connectathon
- **Present on the IPS**
 - ✓ Mar 2022 HIMSS Presentation
 - ✓ Jun 2022 HL7 FHIR DevDays
 - ✓ September 2022: SNOMED International

IPS & SMART Health Links



IPS & SMART Health Links

A

Readable View (HTML)



Allergen	Status	Category	Reaction	Severity	Comments	Onset
Sesame oil (substance)	active	ENVIRONMENT	Difficulty breathing	severe		Sat Jul 27 11:00:00 UTC 1963
Substance with penicillin structure and antibacterial mechanism of action (substance)	active	MEDICATION	Vomiting	severe		Sat Jul 27 11:00:00 UTC 1963
Allergies And Intolerances						

Problem List

Medical Problems	Status	Comments	Onset Date
Problem List			

Medication List

Medication	Status	Route	Sig	Comments	Authored Date
Sertraline 100mg tablets	Active		1 tablet once a day		Fri Nov 10 00:00:00 UTC 2017
Sertraline 100mg tablets					
Metformin 2G Modified-Release tablets	Active		2 tablets a day		Wed Nov 22 00:00:00 UTC 2017
Metformin 1g modified release tablets					

Medication Summary: Medication Requests

Medication	Status	Route	Sig	Date
Metformin 2G Modified-Release tablets	Active		2 tablets a day	Wed Nov 22 00:00:00 UTC 2017
Metformin 1g modified release tablets				
Sertraline 100mg tablets	Active		1 tablet once a day	Fri Nov 10 00:00:00 UTC 2017
Sertraline 100mg tablets				

Medication Summary: Medication Statements

B

Computable Data (FHIR)



```
Response Body
1
2 {
3   "resourceType": "Bundle",
4   "identifier": {
5     "system": "urn:ietf:params:ietf:fhir",
6     "value": "urn:ietf:params:ietf:fhir:bundle"
7   },
8   "type": "document",
9   "timestamp": "2023-01-20T10:35:30Z",
10  "entry": [
11    {
12      "fullUrl": "urn:ietf:params:ietf:fhir:bundle",
13      "resource": {
14        "resourceType": "Observation",
15        "status": "final",
16        "type": {
17          "coding": [
18            {
19              "system": "http://hl7.org",
20              "code": "80001-8",
21              "display": "Patient Summary Document"
22            }
23          ]
24        },
25        "reference": {
26          "reference": "Patient/00000000-0000-4000-8000-000000000000"
27        },
28        "date": "2023-01-20T10:35:30Z",
29        "author": [
30          {
31            "reference": "urn:ietf:params:ietf:fhir:bundle",
32            "role": "author"
33          }
34        ],
35        "title": "Patient Summary as of 01/20/2023",
36        "confidentiality": "N",
37        "section": [
38          {
39            "title": "Allergies and Intolerances",
40            "coding": [
41              {
42                "system": "http://hl7.org",
43                "code": "80001-8",
44                "display": "Allergies and Intolerances"
45              }
46            ]
47          }
48        ],
49        "text": {
50          "status": "generated",
51          "div": "div value="http://www.hl7.org/fhir/StructureDefinition/Bundle" class="hl7PropertyTable"><captionAllergies and Intolerances</caption<thead><tr><th>Allergy</th><th>Status</th><th>Route</th><th>Sig</th><th>Comments</th><th>Authored Date</th></tr></thead><tbody><tr><td>Sesame oil (substance)</td><td>Active</td><td></td><td>1 tablet once a day</td><td></td><td>Fri Nov 10 00:00:00 UTC 2017</td></tr><tr><td>Substance with penicillin structure and antibacterial mechanism of action (substance)</td><td>Active</td><td></td><td>2 tablets a day</td><td></td><td>Wed Nov 22 00:00:00 UTC 2017</td></tr></tbody></table></div>"
52        },
53        "reference": {
54          "reference": "AllergyIntolerance/00000000-0000-4000-8000-000000000000"
55        }
56      }
57    },
58    {
59      "fullUrl": "Medication List",
60      "coding": [
61        {
62          "system": "http://hl7.org",
63          "code": "80001-8",
64          "display": "Medication List"
65        }
66      ]
67    },
68    {
69      "fullUrl": "Problem List",
70      "coding": [
71        {
72          "system": "http://hl7.org",
73          "code": "80001-8",
74          "display": "Problem List"
75        }
76      ]
77    },
78    {
79      "fullUrl": "Medication Summary: Medication Requests",
80      "coding": [
81        {
82          "system": "http://www.hl7.org/fhir/StructureDefinition/Bundle" class="hl7PropertyTable"><captionMedication Summary: Medication Requests</caption<thead><tr><th>Medication</th><th>Status</th><th>Route</th><th>Sig</th><th>Comments</th><th>Authored Date</th></tr></thead><tbody><tr><td>Sesame oil (substance)</td><td>Active</td><td></td><td>1 tablet once a day</td><td></td><td>Fri Nov 10 00:00:00 UTC 2017</td></tr><tr><td>Substance with penicillin structure and antibacterial mechanism of action (substance)</td><td>Active</td><td></td><td>2 tablets a day</td><td></td><td>Wed Nov 22 00:00:00 UTC 2017</td></tr></tbody></table></div>"
83        },
84        "reference": {
85          "reference": "MedicationStatement/00000000-0000-4000-8000-000000000000"
86        }
87      }
88    },
89    {
90      "fullUrl": "Medication Summary: Medication Statements",
91      "coding": [
92        {
93          "system": "http://www.hl7.org/fhir/StructureDefinition/Bundle" class="hl7PropertyTable"><captionMedication Summary: Medication Statements</caption<thead><tr><th>Medication</th><th>Status</th><th>Route</th><th>Sig</th><th>Comments</th><th>Authored Date</th></tr></thead><tbody><tr><td>Sesame oil (substance)</td><td>Active</td><td></td><td>1 tablet once a day</td><td></td><td>Fri Nov 10 00:00:00 UTC 2017</td></tr><tr><td>Substance with penicillin structure and antibacterial mechanism of action (substance)</td><td>Active</td><td></td><td>2 tablets a day</td><td></td><td>Wed Nov 22 00:00:00 UTC 2017</td></tr></tbody></table></div>"
94        },
95        "reference": {
96          "reference": "MedicationStatement/00000000-0000-4000-8000-000000000000"
97        }
98      }
99    }
100  ]
101 }
```

Questions?



Learn more about IPS at:

<https://international-patient-summary.net/>

Thank You!

Matthew Rahn, Matthew.Rahn@hhs.gov



@ONC_HealthIT

<https://www.linkedin.com/in/matthew-rahn-5b30297/>



Office of the National Coordinator
for Health Information Technology

John D'Amore, johnd@moreinformatics.com



@jddamore

<https://www.linkedin.com/in/jdamore/>

