FHIR & The International Patient Summary

HL7 Booth Presentation

Wednesday, April 19, 2023

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FHIR

- Fast Healthcare Interoperability Resources (FHIR) is a primary standard of HL7 and designed to enable health data, including clinical and administrative data, to be quickly and efficiently exchanged

- FHIR has been around for 10+ years and is in active use. Its earliest focus has been on making granular data accessible via Application Programming Interface (API)

- FHIR can also exchange clinical documents!

HL7
International

What is the IPS?

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.
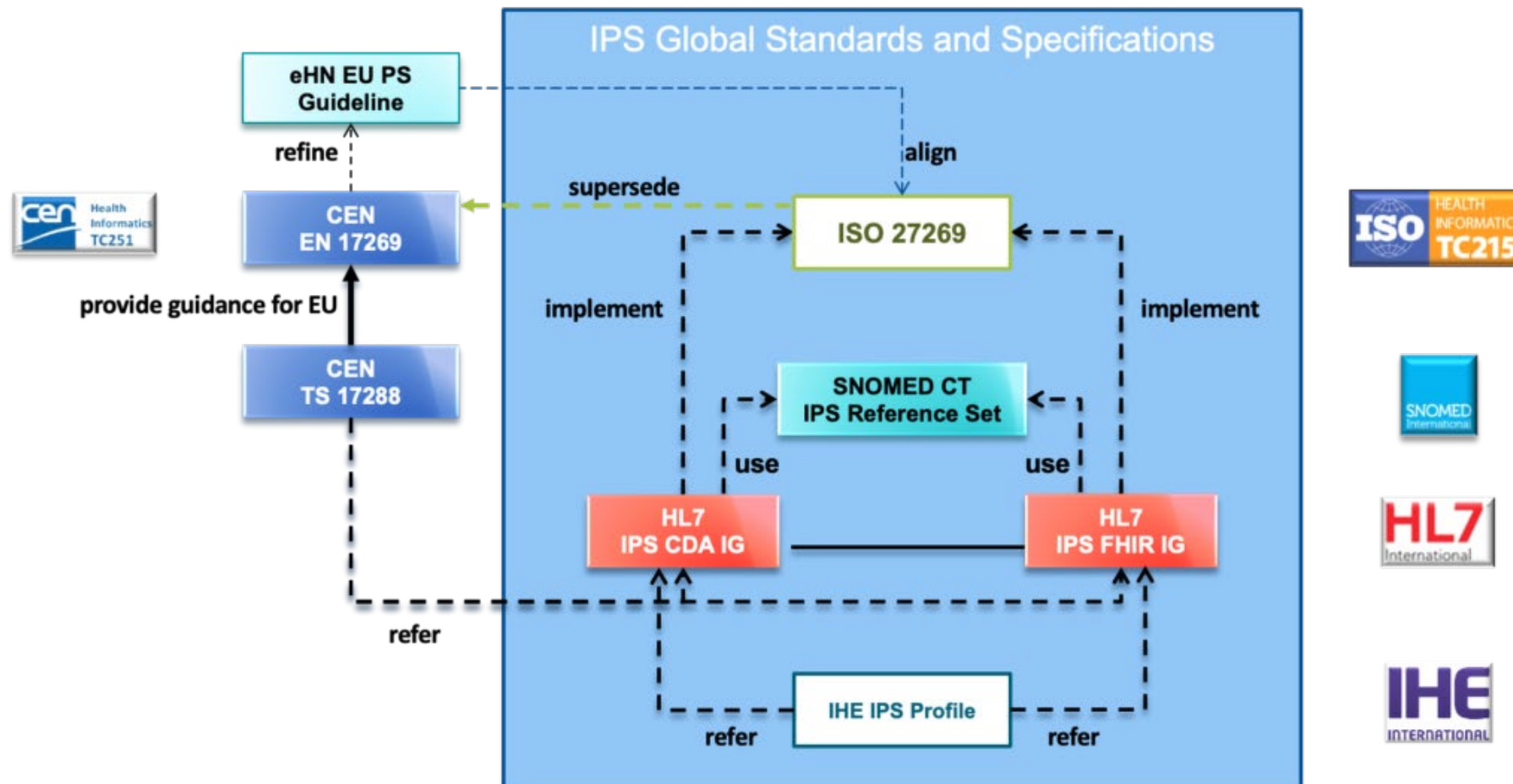
- A standardized set of basic clinical data

- 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

Medications
Allergies / Intolerances
Problems
Immunizations
Results
Procedures

The International Patient Summary

FHIR Documents

- A "FHIR Document" instance is a `Bundle` of type document that starts with a `Composition` and contains specific frozen versions of other resources

- The IPS uses the `Composition` to organize its sections (different clinical domains) and summarize a textual representation of the document

- FHIR Documents enable both a human readable view (even systems don't know FHIR) as well as machine consumption
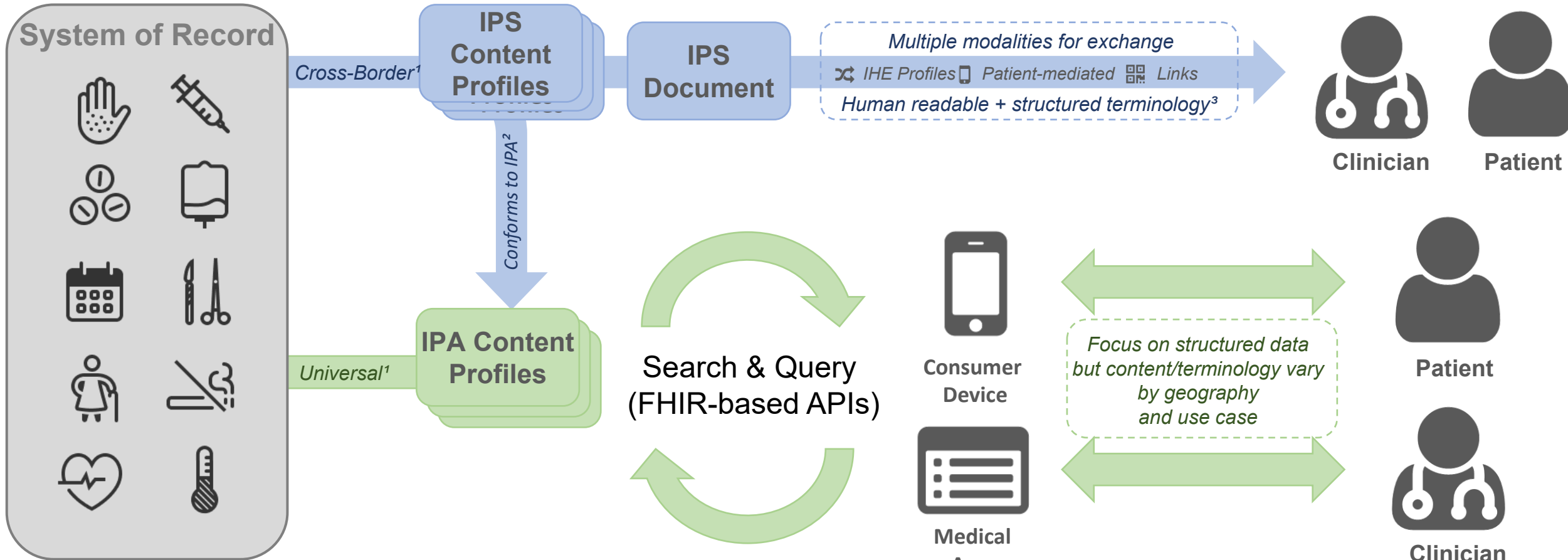
Cross-SDO Collaboration

IPS vs. IPA

Standards Based Data (IPA & IPS)

Data Exchange

Users

System of Record

IPS Content Profiles

Cross-Border[1]

Conforms to IPA[2]

IPS Document

Multiple modalities for exchange

IHE Profiles   Patient-mediated   Links

Human readable + structured terminology[3]

Clinician   **Patient**

IPA Content Profiles

Universal[1]

Search & Query (FHIR-based APIs)

Consumer Device

Medical

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

Patient

Clinician

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
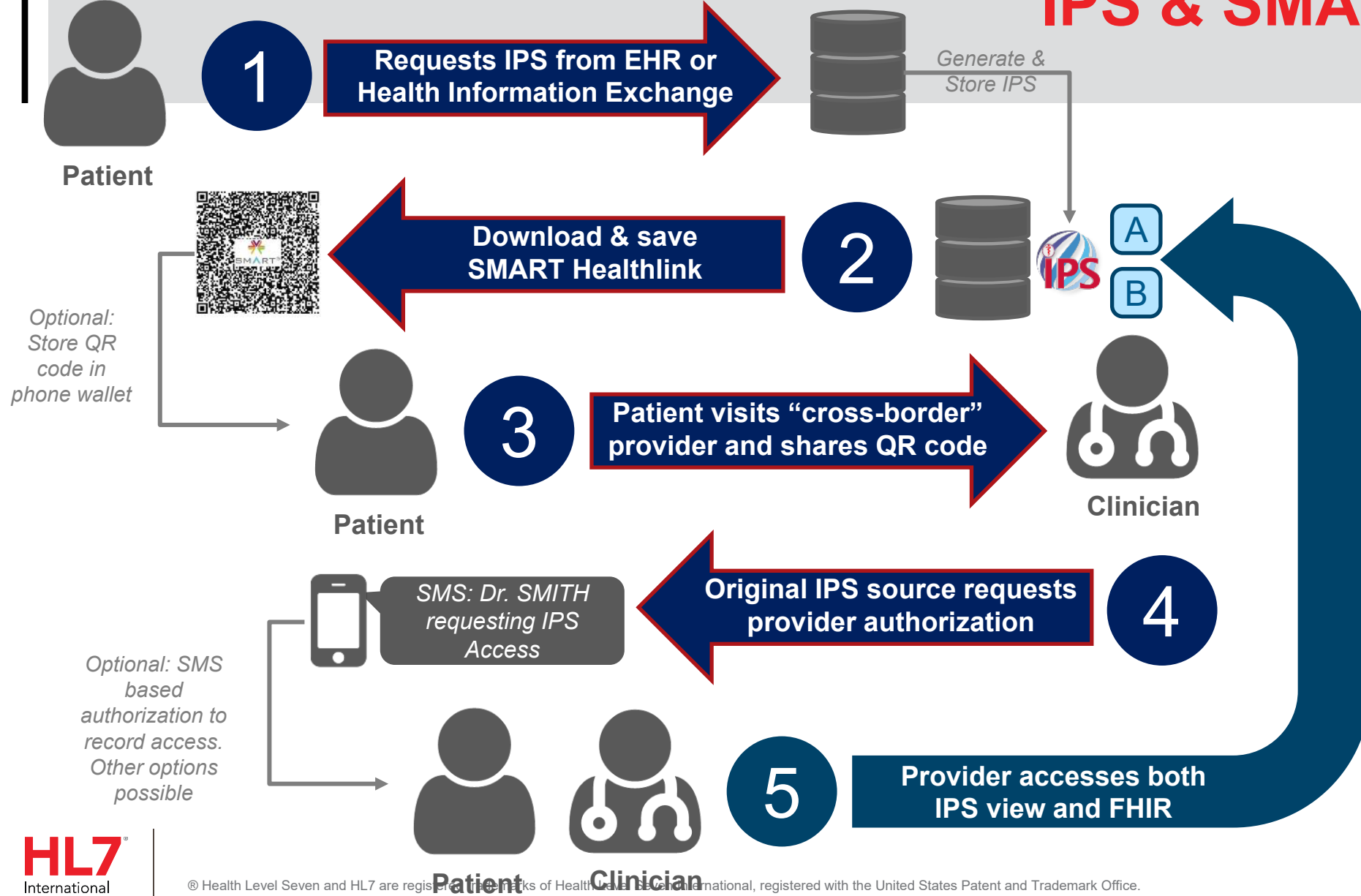
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Patient Mediated IPS Exchange
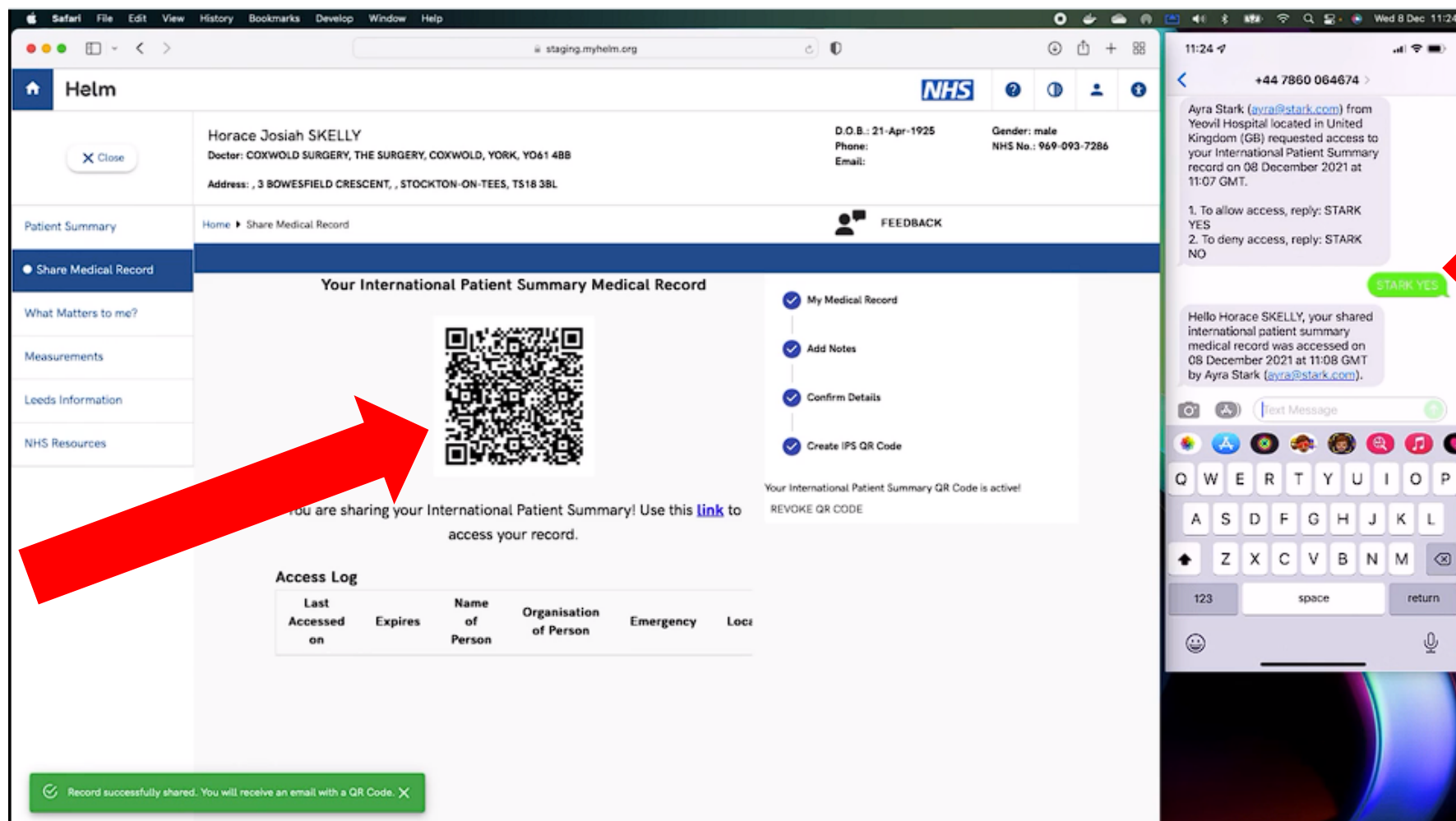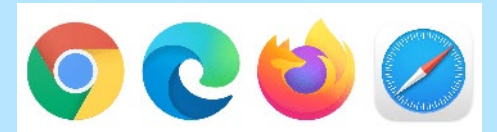

Patient requests and gets QR code to link to IPS

Patient receives physician access request when they navigate QR code

IPS & SMART Health Links

1 Requests IPS from EHR or Health Information Exchange

Generate & Store IPS

2 Download & save SMART Healthlink

Optional: Store QR code in phone wallet

Patient

3 Patient visits "cross-border" provider and shares QR code

Clinician

4 Original IPS source requests provider authorization

SMS: Dr. SMITH requesting IPS Access

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

5 Provider accesses both IPS view and FHIR

Patient   Clinician

A. Readable View (HTML)

B. Computable Data (FHIR)

HL7® FHIR®

Initial Prototype: https://shlink.ips.health

What is the 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

What is the Global Digital Health Partnership (GDHP)?

33 governments + WHO, OECD and I-DAIR

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GDHP & IPS Around the Globe

Canada

National adaptation of IPS to regional information exchange

Project-a-thon with exchange testing, content creation and vendor demo (March 2022)

Netherlands

Significant work to advance IPS adoption domestically through secure exchange MedMij

IPS involvement in multiple Trans-Tasman Connectathons

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

Host of 2022 GDHP Summit

Multiple commercial vendors participating in connectathons and IPS development

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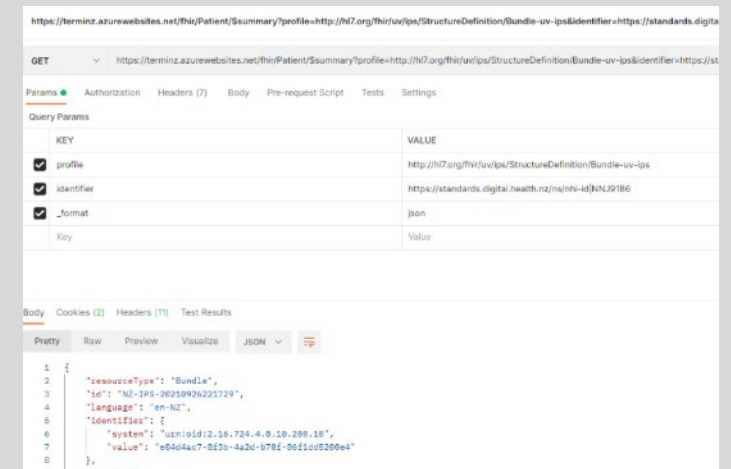
Notable IPS Upcoming Events

Connectathon Track

HL7 International

Connectathon & WGM+
May 6-12
New Orleans, US

Wednesday WGM+ (Q4)

DevDays 2023
June 6-9
Amsterdam, NL

HIMSS 23 EUROPEAN HEALTH CONFERENCE & EXHIBITION

HIMSS Europe 2023
June 7-9
Lisbon, PT

GDHP Global Digital Health Partnership

Mini-Connectathon June 20
& 11th GDHP Summit
June 21-23
Washington, DC, US

MEDINFO23

Medinfo23 July 8-12
Sydney, AU

Thank You & Questions

- ## Learn More

  - HL7 IPS FHIR IG: https://hl7.org/fhir/uv/ips/

  - IPS Website: https://international-patient-summary.net/

  - Linkedin: https://www.linkedin.com/company/international-patient-summary/

  - Twitter: https://twitter.com/Intl_Pt_Summary

- John D'Amore, MS, johnd@moreinformatics.com