Burden Reduction Opportunities for Patient Summaries

HL7 EHR Work Group
Reducing Clinician Burden Project Team

22 May 2023
International Patient Summary

Overview

- Standardized Set of Basic Clinical Information
  - Essential facts about patient health and their healthcare experience

- Comprehensive but non-exhaustive dataset

- Includes condition information – e.g., problem list
  - But is not condition specific

- Includes specialty generated information
  - But is not specialty specific
FHIR International Patient Summary Implementation Guide

http://hl7.org/fhir/uv/ips/STU1.1/
FHIR R5 Composition Resource
https://www.hl7.org/fhir/composition.html
FHIR R5 Composition Relationship Example

https://www.hl7.org/fhir/composition.html

**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
International Patient Summary

Components

Five standards from four standards developing organizations (SDOs):

- Health Level Seven (HL7) – FHIR IPS Implementation Guide
- Health Level Seven (HL7) – CDA IPS Implementation Guide
- International Standards Organization (ISO) 27269 – IPS Data Model
- Systemized Nomenclature for Medicine (SNOMED) – IPS Terminology Set
- Integrating the Healthcare Enterprise (IHE) – IPS Profile
International Patient Summary

https://international-patient-summary.net
IPS Initial Use Case: Trans-national (cross-border) care

Beyond IPS, patient summaries (e.g., HL7 CDA-based Continuity of Care Document (CCD)) support:

- Transitions of Care / Provider to Provider
  - Especially when health records cannot be directly accessed at new location
- Referrals to Specialists
- Patient access

...
Key Clinician Use Cases

- At source/point of origination – Clinician as author/verifier of Patient Summary content/context
  - e.g., when summary included with referral
- At point of use - Clinician as consumer of Patient Summary content/context
Submitted **22 Comments**

- Based on analysis of the HL7 EHR WG/Reducing Clinician Burden (RCB) Project Team
  - Each focused on IPS burden challenges and burden reduction opportunities
- Submitted March 2020, via US Technical Advisory Group to ISO TC215
- Comments declared “out of scope” for ISO 27269 – IPS Data Model
- Due to procedural challenges of Cross-SDO comment disposition
  - Have remained unreconciled until now
- As of May 2023 – 1st RCB comment evaluated w/proposed disposition
  - First comment is a preamble to the 21 others that remain
Burden Challenges
Clinicians as Recipients of Patient Summaries...

Are often:

- Overwhelmed by a plethora of conflicting and/or duplicative fragments of data from many sources (information overload)
- Unable to establish confidence in the trustworthiness, accuracy and integrity of data content, including fidelity to source
- Unable to determine chronology and timeliness of data content
- Unable to establish authorship of data content (including author’s role and credentials)
- Unable to ascertain provenance of data content and discrete elements
- Unable to verify context (including vital inter-relationships) of clinical data content
- Unable to establish confidence in externally-sourced content sufficient to allow such content to be fully integrated into their local health record and instead must keep it segregated, managed and accessed separately
114 IPS Comments awaiting disposition, dating back to 2018
- 22 RCB Originated Comments now assigned to Cross-SDO IPS Collaborative Group
  - Open to participation
- 92 other comments are currently assigned to ISO 27269 – IPS Data Model – Revision Project
  - Participants must represent ISO National Member Body
- Separate Teams meeting every two weeks
Attentive to government dictates
- Particularly G7 Health
- Lead to formation of Global Digital Health Partnership (GDHP)
  >35 Government Health Ministries and Regulators, including US ONC

Minimal input from clinicians with front-line experience
- Roughly 10-15% are clinicians
- Otherwise dominated by HIT technologists and standards geeks

Need clinician participation!!
Guidance: "Recognition of the importance of digital health solutions in transforming healthcare and of the need for appropriate data governance, system security, regulatory, and data protection standards in order to benefit from advances in digital health."

Ambitions: “[Increase] patient access to records as a means of patients taking more responsibility for and control of their own health and care

- Online access to records
- Use of own information to manage their health
- Patients contributing to their health record
- Offer online access to health information by healthcare providers
- “Audit trail of who accessed the patient's record”

– G7 International Patient Summary Roadmap, Published 30 December 2021
1. Each country will develop their own IPS which meets the G7-IPS standards and requirements
2. Each country’s G7-IPS will conform to their own legislature and governance requirements
3. Patients control access to their information in the G7-IPS data points
4. G7-IPS data is personal identifiable information which will be uploaded or collated in real time, for the patient to view and share
5. Print and non-editable file download (i.e. pdf) options will be available to patients
6. A patient mediated IPS data point facilitates the sharing of clinical information for direct patient care
7. Patients will be informed how their G7-IPS information will be used before they agree to the use of their data
8. Creation of a person's IPS record will not depend on a person's registration within a country's health system
9. The G7-IPS will contain human readable and computer processable data
10. This is a digital first service and requires setting up by the user (or their authorised representative) on a computer or via an app
**US Core Data For Interoperability**

**USCDI**

- Patient Summaries
- **US Core Data for Interoperability**

= Many of the same issues
International Patient Summary

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