

Lead:

Strengthening the Role of – and Respect for – Patient-Generated Data

A discussion on the towering opportunities and unexpected challenges this historic moment presents for patient organizations

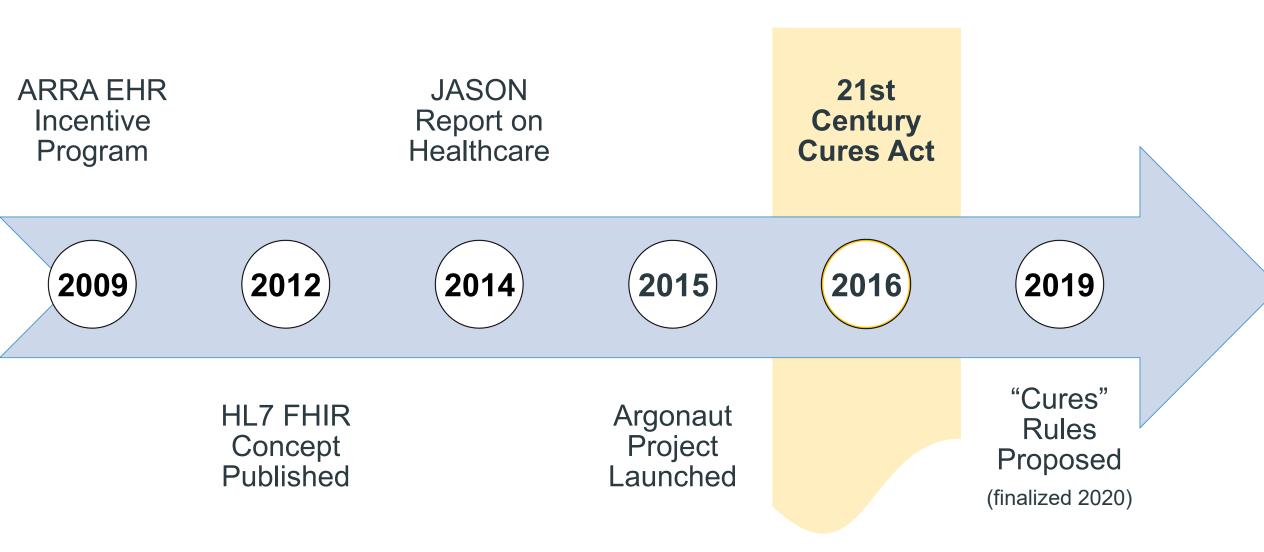
David Voccola

Senior Principal & Global Technology Strategy Lead Integrated Health Practice

Alexandra Weiss

Director, Nonprofit Strategy, Patient Advocacy
US Healthcare Solutions

A series of seemingly disparate events led us to this moment





1

Patient data access is now dramatically improving in the US



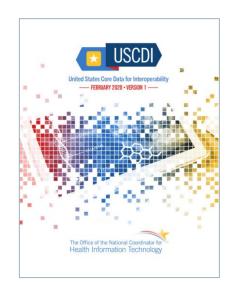
The rule provides patients and their providers secure access to health information. It is also expected to increase innovation and competition by creating an ecosystem where new applications that provide patients with more choices in their healthcare can flourish.

<u>Fast Healthcare Interoperability Resources</u> is an interoperability standard created by the standards development organization Health Level 7 (HL7). FHIR is designed to enable health data to be quickly and efficiently exchanged between health systems, patients, payers, and apps.

The <u>United States Core Data for</u>
<u>Interoperability is a standardized set of</u>
clinical concepts and data elements for
enabling nationwide, interoperable health
information exchange.



Pushing patient-mediated access from "If" to "When"



April 5

Cures Act Final Rule is Active & Information Blocking is Banned

April 1

Conditions of Certification Attestations Begin

October 16

All EHI must be made available (not just USCDI – incl. nonstandard data)

March 15

Initial Real World Testing Results Published

December 13

21st Century Cures Act Signed Into Law

March 9

Cures Act Final Rules Released

December 15

Developers Must Submit Real World Testing Plans

December 31

New HL7 FHIR API Update Compatibility Must Be Active

December 31

EHI Export
Capability Must Be
Active

2016

2020

2021

2022

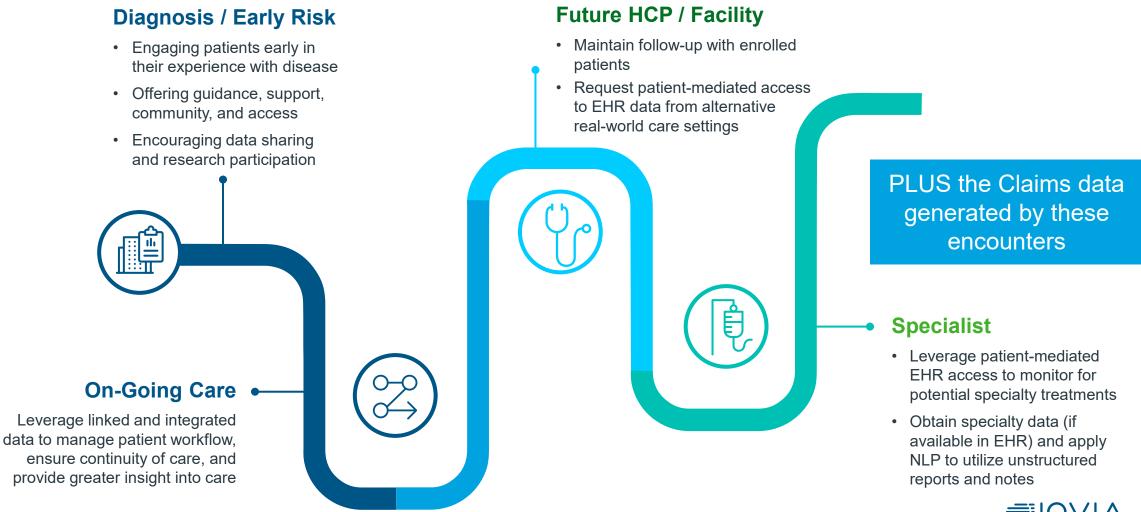
2023

Adapted from: USCID / ONC Resources https://www.healthit.gov/isa/united-states-core-data-interoperability-uscdi

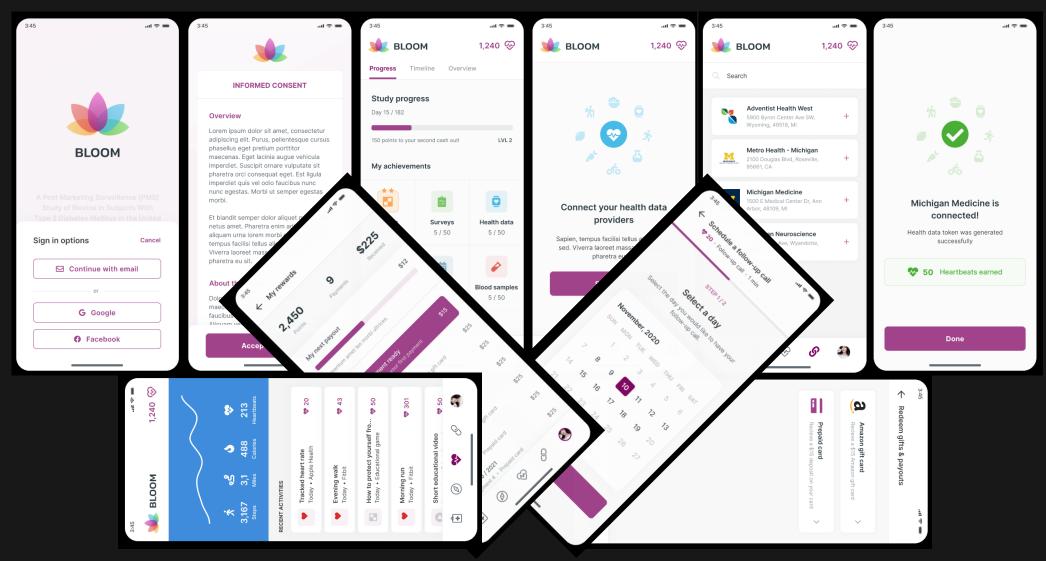


Creating unprecedented opportunities to access EHR data

The ability to digitally follow a patient on their care journey is fast becoming a reality in the US



Driving a new generation of patient-centric designs





That need equally modern real-world data capabilities

Patient / Person / Provider Applications

- Support for Direct-to-Patient / Consumer / Clinician
- Bring your own device (BYOD)
- Mobile-friendly Web + iOS / Android apps
- Heavily focused on daily / weekly connections
- Dynamic recruiting channel

Patient Experience

- Tiered marketing-level permissions support
- Self-service enrollment and consenting support
- Dynamic patient engagement
- Rewards Management and Gamification
- Deep partnerships with advocacy organizations

Patient Rewards

- Digital Wallet
- Daily opportunity to earn points
- Points → Dollars / Gift Cards / Discounts
- Support for Hyperwallet, Tremendous, etc.
- Historical Ledger



EMR / EHR Data Provisioning

- Patient-mediated EHR data sharing
- · No site permissions needed
- Patient can provision with a few clicks
- Site-mediated EHR integration

Claims Data Provisioning

Patient-mediated claims / admin data sharing

Device Integration

 Support for patient-mediated sharing of summary and time-series data from wearables and devices

Longitudinal Engagement

- PROs, Pulse, and Experience surveys
- Support for complex protocols, events, notifications, and return of information
- Support for biospecimen collection



Able to leverage the full spectrum of patient data access methods



Patient-Mediated Release – Leverages mandated access rights and named-patient FHIR APIs to facilitate specific record sharing across the care journey

Modern Integration – Leverages nascent Federal interoperability methods and HL7 FHIR standard to consistently access data across care settings

Legacy Integration – Leverages "behind-the-firewall" and/or bespoke interfaces to enable one-off data access at each site

Select Data Upload and/or Chart Abstraction – Leverages data generated by IT exports or manual transcription to populate specific CRFs



Increased

Reporting

Burden

Allergies and Intolerances

- Substance (Medication)
- Substance (Drug Class)
- Substance (Non-Medication)*
- Reaction

Care Team Member(s)

- Care Team Member Name
- Care Team Member Identifier
- Care Team Member Role Care Team Member Location
- Care Team Member Telecom

Clinical Notes

- Consultation Note
- Discharge Summary Note
- History & Physical
- Procedure Note
- Progress Note

Diagnostic Imaging

- Diagnostic Imaging Test
- Diagnostic Imaging Report

Encounter Information

- Encounter Identifier *
- Encounter Type
- Encounter Diagnosis
- Encounter Time
- Encounter Location
- Encounter Disposition

Facility Information *

- Facility Identifier *
- Facility Type
- Facility Name

Goals

- Patient Goals
- SDOH Goals
- Treatment Intervention Preference *
- Care Experience Preference *

Health Insurance Information

- Coverage Status
- Coverage Type
- Relationship to Subscriber
- Member Identifier
- Subscriber Identifier
- Group Number Payer Identifier

Health Status Assessment

- Functional Status
- Disability Status
- Mental/Cognitive Status
- Pregnancy Status
- Alcohol Use *
- Substance Use * Physical Activity
- SDOH Assessment
- Smoking Status

Immunizations

Immunizations

Laboratory

- Tests
- Values/Results
- Specimen Type
- Result Status
- Result Unit of Measure *
- Result Reference Range *
- Result Interpretation Specimen Source Site *
- Specimen Identifier *
- Specimen Condition and Disposition *

Medical Device

 Unique Device Identifier -Implantable

Medications

- Medications
- Dose
- Dose Unit of Measure
- Indication
- Fill Status
- Medication Instructions
- Medication Adherence

Patient Demographics /Information

- First Name
- Last Name
- Middle Name (Including) middle initial)
- Name Suffix
- Previous Name
- Date of Birth
- Date of Death
- Race Ethnicity

- Health Concerns
- - Preferred Language
 - Current Address

Sex

- Previous Address
- Phone Number
- Phone Number Type

Sexual Orientation

Gender Identity

- **Email Address**
- Related Person's Name

Patient Demographics (cont.)

- Relationship Type
- Occupation
- Occupation Industry

Patient Summary and Plan

 Assessment and Plan of Treatment

Problems

- Problems
- SDOH Problems/Health Concerns
- Date of Diagnosis
- Date of Resolution

Procedures

- Procedures
- Time of Procedure *
- SDOH Interventions
- Reason for Referral

Provenance

- Author Organization
- Author Time Stamp

Vital Signs

- Systolic Blood Pressure
- Diastolic Blood Pressure
- Average Blood Pressure
- Heart Rate
- Respiratory Rate
- **Body Temperature** Body Height
- Body Weight
- Pulse Oximetry
- Inhaled Oxygen Concentration
- BMI Percentile (2 20 years) Weight-for-length Percentile (Birth - 24 Months)
- Head Occipital-frontal Circumference Percentile (Birth- 36 Months)

U.S. Core Data for Interoperability: The mandatory set for sharing

- Set by Office of the National Coordinator for Health IT (ONC)
- Mandated in the Cures Act "Final Rule" on Interoperability
 - Compliance dates delayed slightly due to COVID-19
 - Widespread adoption was already underway in 2022
 - Widespread adoption required by end of 2023
- Implemented in the HL7 FHIR international data standard
- Leverages industry-consensus clinical concepts
- Draft Version 4 released in Jan 2023 and expands to include Facility information and much further improved granularity

Key: ★ New Data Class or Element | △ Changed Data Class or Element Name | ➡ Data Element Reclassified

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Fireside Chat