SPECIAL CONVENING

May 31, 2023

Data Usability Taking Root

OVERVIEW

An initiative co-sponsored by **AHIMA®**

the **sequoia®** project

It's one thing to get health data to the right place at the right time; it's quite another to make sure that data is complete and useful.

Cross-industry Guidance for Data Usability

3 years in the making

2 years of public input

266 engaged organizations

378 subject matter experts

It's time for this guidance to **take root**.

Why Join Our Data Usability Initiative?

Because…

- More complete data improves outcomes.

- Better data leads to better and timely decisions.

- Usable data are more actionable

- Reduces clinician burden.

- Guidance promotes consistency across technologies.

- Practical, incremental improvements simplify implementation.

- Addresses a common challenge across all actors.

- It's the right thing to do.

Pragmatic Guidance

Guidance for
Data Provenance & Traceability of Change

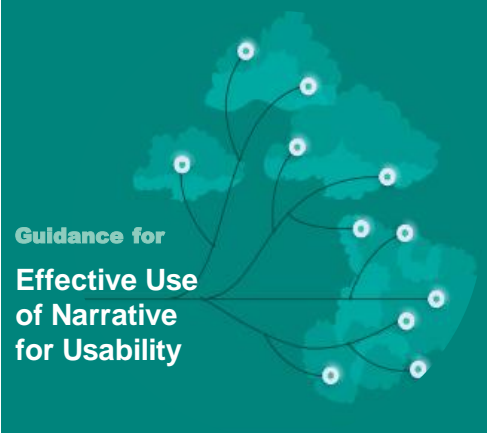Guidance for
Data Integrity, Format and Trust

Guidance for
Effective Use of Codes

Guidance for
Data Tagging / Searchability

Guidance for
Reducing the Impact of Duplicates

Guidance for
Effective Use of Narrative for Usability

V1.0 Implementation guidance on clinical content for information exchange

- provider-to-provider

- provider-to-public health

- healthcare entity-to-consumer

The Value of Useful Data

Public Health

- **Provenance & Traceability of Changes:**
  - A public health can leverage provenance to distinguish administered vaccines from a later recording of an externally sourced vaccine to identify duplicate data.

- **Effective Use of Codes:**
  - Allows patient history in the Individual Medical Management System (IMMS) or Vaccine Action Command and Coordination System (VACCS) to be exchanged consistently with codes.
  - Provides guidance for SARS-CoV-2 LOINC terms for COVID results, immunizations dose unit and lot number to improve semantic interoperability of data exchanged.
  - Makes immunization information distinct from patient or other party reports.

- **Data Tagging / Searchability:**
  - Public health organization can search data that pertains to certain criteria such as diagnosis code.
  - Enables inclusion of Clinical Notes and Document Narrative Linking.

The Value of Useful Data

Provider

- **Provenance & Traceability of Changes:**
  - Allows implementers to focus on consistency and presentation of provenance metadata in document sections.
- **Effective Use of Codes:**
  - Enables clinical decision support, graphing and trending of lab data.
- **Reducing the Impact of Duplicates:**
  - Known duplicates are identifiable between documents exchanged using consistent identifiers.
- **Data Integrity, Format and Trust:**
  - Improves patient matching with use of consistent patient demographics.
  - Enables a complete picture of a patient's history with use of patient summary and encounter documents to convey the complete patient story.
- **Data Tagging / Searchability:**
  - Enables a provider to search for document titles pertaining to certain criteria, i.e., diagnosis code.
- **Effective Use of Narrative for Usability:**
  - Enables consistent inclusion and linking of clinical narratives and notes with discrete data to provide mechanisms for clinicians to view and support better clinical decision making.

The Value of Useful Data

Vendor

- **Provenance & Traceability of Changes:**
  - Allows vendors/developers to focus on consistency and presentation of provenance metadata in document sections.
- **Effective Use of Codes:**
  - Enables clinical decision support, concept-based search, graphing and trending of lab data within platforms.
- **Reducing the Impact of Duplicates:**
  - Known duplicates are identifiable between documents exchanged using consistent identifiers within platforms.
- **Data Integrity, Format and Trust:**
  - Improves patient matching with use of consistent patient demographics for data sent and received.
  - Supports a complete picture of a patient's history with use of patient summary and encounter documents to convey the complete patient story.
- **Data Tagging / Searchability:**
  - Enables a vendor platform to search for document titles which pertain to certain criteria, i.e., diagnosis code.
- **Effective Use of Narrative for Usability:**
  - Enables vendor platforms to have consistent inclusion and linking of clinical narratives and notes with discrete data to provide mechanisms for clinicians to view and support better clinical decision making.

The Value of Useful Data

Consumer

- **Provenance & Traceability of Changes:**
  - Allows consumers to understand and filter on organization and date/time of data captured during their journey.
- **Effective Use of Codes:**
  - Enables clinical decision support, graphing and trending of lab data.
  - Enables patient reported vaccines to be included in immunizations shared among providers.
- **Data Integrity, Format and Trust:**
  - Enables the consumer to search and find data more easily with use of consistent patient demographics.
  - Enables the consumer to find and share their complete patient story with new providers.
- **Data Tagging / Searchability:**
  - Enables a consumer to search for data related to certain criteria, such as diagnosis code.
- **Effective Use of Narrative for Usability:**
  - Provides value to the consumer by including them in the clinical reasoning and thoughts of the authoring provider.

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The Value of Useful Data

HIEs and HINs

- **Provenance & Traceability of Changes:**
  - Allows HIEs and HINs to focus on consistency and presentation of provenance metadata in on-demand created document sections.

- **Reducing the Impact of Duplicates:**
  - Known duplicates are identifiable between documents exchanged using consistent identifiers within platforms.

- **Data Integrity, Format and Trust:**
  - Improves patient matching with use of consistent patient demographics for data sent and received.
  - Supports a complete picture of a patient's history with use of patient summary and encounter documents to convey the complete patient story.

- **Data Tagging / Searchability:**
  - Enables an HIE/HIN platforms to search for document titles which pertain to certain criteria, i.e., diagnosis code.

- **Effective Use of Narrative for Usability:**
  - Enables HIE/HIN platforms to have consistent inclusion and linking of clinical narratives and notes with discrete data to provide mechanisms for clinicians to view and support better clinical decision making.

The Value of Useful Data

Operational & HIM Staff

- **Provenance & Traceability of Changes:**
  - Allows operational staff to leverage provenance metadata to improve data searchability and audits.

- **Effective Use of Codes:**
  - Enables clinical decision support, graphing and trending of lab data to make IT system more useful.

- **Reducing the Impact of Duplicates:**
  - Known duplicates are identifiable between documents exchanged using consistent identifiers.

- **Data Integrity, Format and Trust:**
  - Improves patient matching with use of consistent patient demographics.
  - Enables a complete picture of a patient's history with use of patient summary and encounter documents to convey the complete patient story.

- **Effective Use of Narrative for Usability:**
  - Enables consistent inclusion and linking of clinical narratives and notes with discrete data to provide mechanisms for clinicians to view and support better clinical decision making.

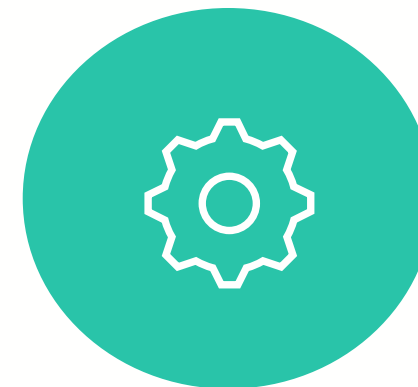# American Health Information and Management Association (AHIMA)

Lauren Riplinger
Chief Public Policy & Impact Officer

Putting Guidance Into Practice

- **Identify where to start**
    - Which V1.0 sections are priorities?
    - Which can be done quickly?
    - What is the timeframe?
- **Track progress**
    - Potential self-reported score card promotes transparency and healthy competition
    - # elements supported
    - % of customers supporting
- **Incremental approach**
    - Enables rollout in conjunction with other IT projects
    - Elevates data usability for all IT projects - UAP
- **Other Considerations**
    - Leverage for governmental programs (e.g., EHR certification, USCDI, TEFCA, etc)
    - Address as part of Data Usability Round Table

Participants choose their own implementation pathway and pace…

Implementation Enablers

Technical Assistance + **Community of Practice** + **Testing Platform Services**

What makes this distinctive

Data Usability Guidance leverages existing standards to address pain points from end users on the frontline.

- The universal benefit of this work cannot be achieved in isolation.
- This work empowers diverse actors to affect change.
- The industry is entwined in interdependencies.
- When there is strength in numbers, momentum will accelerate.
- Collective action will solve a shared pain point.
- Those that adopt early will have first mover advantage.
- Practical focus can inform future versions of USCDI.
- Model of continuous improvement of data quality.

Data Usability Taking Root

Supporter

Pledges to support the data usability movement as a member of the Sequoia interoperability community and the data usability community of practice. Opportunity to participate in the Data Usability Workgroup to aid in the development V2.0 of the Data Usability Guide. Grants right to Sequoia to include logo in its Taking Root member directory. Participates in Data Usability Round Table to plan the Summit.

Implementer

Pledges to adopt & implement V1.0 data usability guidance across one or more topics within a defined timeline. Commits their IT organization to consider implementation of guidance in a usability-in-all-projects (UAP) approach. Participates in the data usability community of practice, the Data Usability Workgroup to aid in the development V2.0 of the Data Usability Guide with representation on the Data Usability Taking Root Steering Committee of Implementers. Encourages others to join the movement. Grants right to Sequoia to include logo in its Taking Root member directory.

Sponsor

Pledges to co-sponsor the Data Usability Taking Root movement. Invests in the development of materials, toolkits, convenings, and outreach to launch and grow the movement on a national scale. Socializes and evangelizes the purpose and power of this work. Co-hosts Data Usability Summit and participates in Steering Committee.

Levels of Engagement

Planned Deliverables

Round Table of Early Supporters

Data Usability Taking Root Summit

Technical Assistance & Implementation Community of Practice

Testing Platform and Support Services

Roadmap

2023
- Early Supporters for V1
- Round Table
- Taking Root Summit

2024
- Expand participation; develop V2 to include FHIR
- Community of Practice
- Technical Assistance
- Implementation begins
- Movement grows

2025
- Community of Practice expands
- Technical Assistance expands
- Conformance Testing
- Movement grows

Join the Movement Now!

https://sequoiaproject.org/data-usability-taking-root-movement/

Contact Us

Thank you for your interest in The Sequoia Project's new **Data Usability Taking Root** Initiative.

If you would like to get in touch you can reach us at:

✉ **takingroot@sequoiaproject.org**

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