

Data Usability Work Group

September 9, 2021



Agenda

- Welcome, Introductions, Membership, Agenda Dr. David Camitta 5 minutes
- Website, Meeting and Workgroup Logistics & Collaboration Forum Dr. Bill Gregg 5 Minutes
- Topic Focus: Specific Domain Guidance for Usability Didi, Bill, David, John, Russell 20 minutes
- Topic Focus: Effective Use of Narrative for Usability Didi, Bill, David, John, Russell 20 minutes
- Phase 2 Implementation Guide Structure and Development Process Didi 5 minutes
- Questions/Next Steps 5 minutes



David Camitta, Co-chair Anthem, Inc.

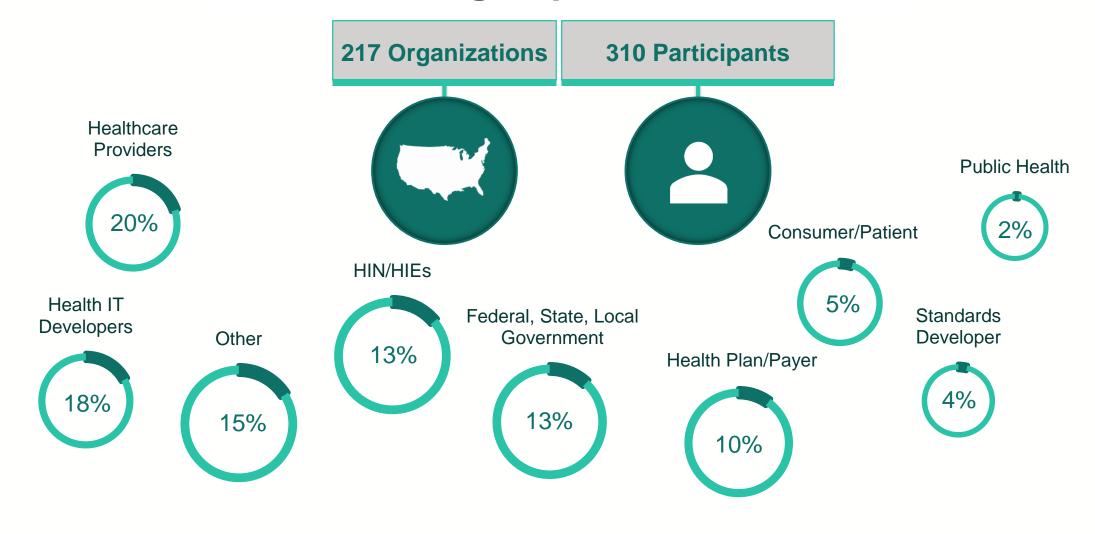


Bill Gregg, Co-chair HCA Healthcare



Didi Davis, VP The Sequoia Project

Workgroup Members



The Sequoia Project's Members













































































































































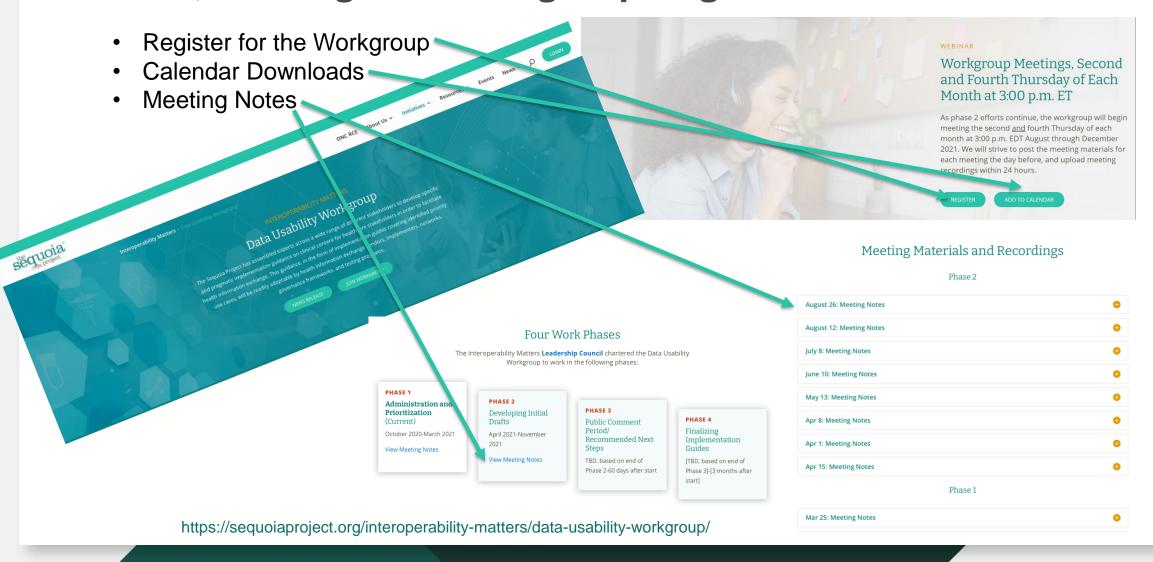




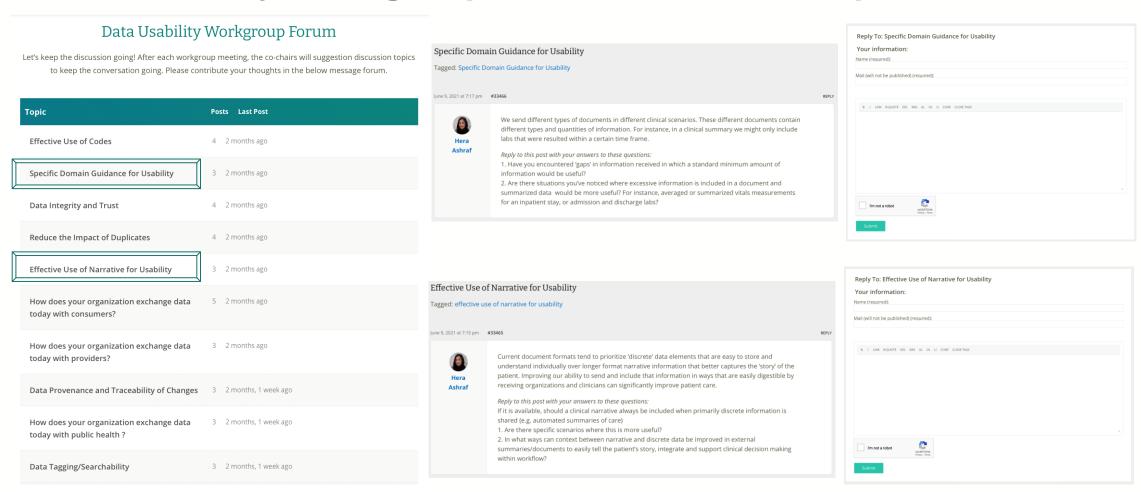
- Audacious Inquiry
- CA Emergency Medical Services Association
- ConSensys Health
- Cureous Innovations
- CVS Health
- Hawaii HIE

- Health InfoNet
- Innovaccer
- Lyniate
- Mayo Clinic
- Virginia HIE

Website, Meeting and Workgroup Logistics



Data Usability Workgroup Forum – Please Respond



https://sequoiaproject.org/interoperability-matters/data-usability-workgroup/



Specific Domain
Guidance for Usability

Topic: Specific Domain Guidance for Usability – Clinician Workshop Recap

- Assessment plans of what happened during an encounter and what care coordination needed should be included at the beginning of a document rather than the end of documents exchanged
- Clinicians want the ability to document ALL medications including OTC, mail order, homeopathic supplements, meds they receive from other sources such as clinics (VA calls this an NBA medication) – i.e. they may be taking medications that are expired because they have 40 bottles still

Topic: Specific Domain Guidance for Usability – Summary

- Best practices for rendering documents
- Guidance for documents vs. clinical scenarios
- Guidance for patient summaries
- Guidance for Referral Notes and Consultation Notes
- Usability of Vital Signs Data
- Proposed Data Usability Characteristics
- Data needs to be both granular and groupable
- Data Definition Consistency
- Definitions for Human, Machine, and Inter-organization Useability to be defined:
 - Human Useability
 - Have you encountered 'gaps' in information received in which a standard minimum amount of information would be useful?
 - Are there situations you've noticed where excessive information is included in a document and summarized data would be more useful? For instance, averaged or summarized vitals measurements for an inpatient stay, or admission and discharge labs?
 - Machine Useability
 - Inter-organization Useability

Specific Domain Guidance for Usability: Provider to Provider

- Use Cases: Focus on compatibility with general formatting variations to ensure readability and usability
 - Build on guidance provided within JDCWG in section 4
 - Use of C-CDA CCD document type (section 4.1)
 - Generating a current Patient Summary (section 4.2)
 - Reducing clutter of generated patient summaries (section 4.3)
 - Consider additional temporal parameters to improve C-CDA
 - Consider how to improve data granularity in a groupable hierarchy
 - Consider referencing 360X Project Closed Loop Referral IG
 - Consider derived work from HL7 EHR Reducing Clinician Burden Project referenced in <u>Proposed Data Usability Characteristics</u>
 - Data Definition Consistency

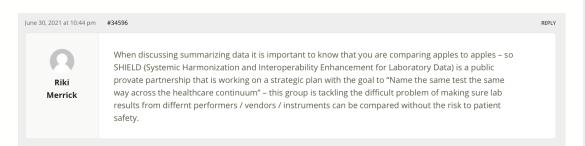
Specific Domain Guidance for Usability: Provider to Public Health Agency

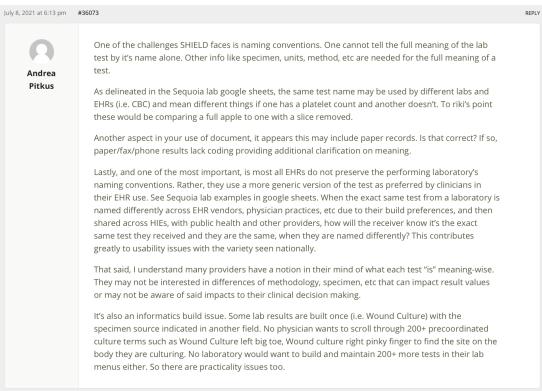
No Use Cases in scope at this time

Specific Domain Guidance for Usability: Healthcare Entity to Consumer

No Use Cases in scope at this time

Specific Domain Guidance for Usability : Collaboration Space Discussion





https://sequoiaproject.org/groups/data-usability-workgroup/forum/topic/specific-domain-guidance-for-usability/



Effective Use of Narrative for Usability

Topic: Effective Use of Narrative for Usability – Clinician Workshop Recap

This topic was not covered during the workshop due to time availability

Topic: Effective Use of Narrative for Usability

- Guidance for populating meaningful narratives
- Promoting the use of narrative in exchanged documents
- Definitions for Human, Machine, and Inter-organization Useability to be defined:
 - Human Useability
 - In what ways can context between narrative and discrete data be improved in external summaries/documents to easily tell the patient's story, integrate and support clinical decision making within workflow?
 - Machine Useability
 - Should a clinical narrative always be included when primarily discrete information is shared (e.g. automated summaries of care)?
 - 1. Are there specific scenarios where this is more useful?
 - Inter-organization Useability

Effective Use of Narrative for Usability: Provider to Provider

- Use Case: Patient Discharge from Hospital, attending physician dictates a discharge summary including who should receive copies and electronically signs.
 - Dictated narrative needs to be linked to appropriate metadata to enable searchability when published after discharge summary
 - Consider ability to link narrative to a discharge summary with discrete data
 - Consider rendering improvements (which narratives to focus on? should we focus on USCDI V1 or expand to include USCDI V2?)
 - https://www.healthit.gov/isa/united-states-core-data-interoperability-uscdi#uscdi-v1
 - https://www.healthit.gov/isa/united-states-core-data-interoperability-uscdi#uscdi-v2
 - When querying: should notes be grouped or have index for all available notes across sections?
 - Provide guidance to NOT display HL7 RIM specific data that provides no meaning
- Consider referencing <u>HL7 CDA R2 Implementation Guide: Clinical Summary Relevant</u> and Pertinent Data
- Reference <u>CDA Examples</u> illustrating C-CDA best practices created by the HL7 Examples Task Force and approved by the HL7 Structured Documents Workgroup

USCDI V1 vs. USCDI V2

Clinical Notes		Clinical Notes	
Represents narrative patient data relevant to the respective note types.		Represents narrative patient data relevant to the respective note types.	
Data Element	Applicable Vocabulary Standard(s)	Data Element	Applicable Vocabulary Standard(s)
Consultation Note Contains the response to request from a clinician for an opinion or advice from another clinician.	➤ Logical Observation Identifiers Names and Codes (LOINC®) version 2.67 Consult Note (LOINC® code 11488-4)	Consultation Note Contains the response to request from a clinician for an opinion or advice from another clinician.	> Logical Observation Identifiers Names and Codes (LOINC®) version 2.70 Consult Note (LOINC® code 11488-4)
Discharge Summary Note A synopsis of a patient's admission and course in a hospital or post-acute care setting.	> Logical Observation Identifiers Names and Codes (LOINC®) version 2.67 Discharge Summary (LOINC® code 18842-5)	Discharge Summary Note A synopsis of a patient's admission and course in a hospital or post-acute care setting.	> Logical Observation Identifiers Names and Codes (LOINC®) version 2.70 Discharge Summary (LOINC® code 18842-5)
History & Physical Documents the current and past conditions and observations of the patient.	 Logical Observation Identifiers Names and Codes (LOINC®) version 2.67 Discharge Summary (LOINC® code 34117-2) 	History & Physical Documents the current and past conditions and observations of the patient.	> Logical Observation Identifiers Names and Codes (LOINC®) version 2.70 Discharge Summary (LOINC® code 34117-2)
Imaging Narrative Contains a consulting specialist's interpretation of diagnostic imaging data.	 Logical Observation Identifiers Names and Codes (LOINC®) version 2.67 Diagnostic Imaging Study (LOINC® code 18748-4 	Procedure Note Encompasses non-operative procedures including interventional cardiology, gastrointestinal endoscopy, osteopathic manipulation, and other specialty's procedures.	> Logical Observation Identifiers Names and Codes (LOINC®) version 2.70 Procedure Note (LOINC® code 28570-0)
Laboratory Report Narrative Contains a consulting specialist's interpretation of the laboratory report.	>	Progress Note Represents a patient's interval status during a hospitalization, outpatient visit, treatment with a post-acute care provider, or other healthcare encounter.	> Logical Observation Identifiers Names and Codes (LOINC®) version 2.70 Progress Note (LOINC® code 11506-3)
Pathology Report Narrative Contains a consulting specialist's interpretation of the pathology report.	>	https://www.healthit.gov/isa/sites/isa/files/2021-07/USCDI-Version-2-July-2021-Final.pdf	
Procedure Note Encompasses non-operative procedures including interventional cardiology, gastrointestinal endoscopy, osteopathic manipulation, and other specialty's procedures.	> Logical Observation Identifiers Names and Codes (LOINC®) version 2.67 Procedure Note (LOINC® code 28570-0)	Tittps://www.neattiit.gov/isa/sites/isa/files/2021-07/030bi-version-2-odiy-2021-1 filai.pdf	
Progress Note Represents a patient's interval status during a hospitalization, outpatient visit, treatment with a post-acute care provider, or other healthcare encounter.	 Logical Observation Identifiers Names and Codes (LOINC®) version 2.67 Progress Note (LOINC® code 11506-3) 		
https://www.healthit.gov/isa/sites/isa/files/2020-10/USCDI-Version-1-July-2020-Errata-Final_0.pdf			

Consider guidance for usability improvementrs for the consumer of data and not just source/creator of data

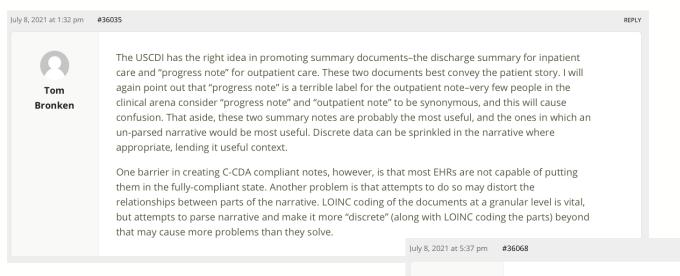
Effective Use of Narrative for Usability: Provider to Public Health Agency

- Scenario: Ability to narrow queries for a document or data set by diagnosis/ICD-10 (should there be narrative tagging in addition to document tagging previously proposed?)
 - Show data related to TB, HIV, Syphilis, HepC
 - Tag a document with a dx code to enable the ability to find the COVID ER visit, the COVID admission, COVID ICU d/c, the COVID hospital d/c, and the disposition for the COVID patient
 - Consider 3 types of tags:
 - Setting (ER, hospital, ICU, SNF, outpatient)
 - Transitions (ER visit, hospital admission, hospital discharge, ICU admission, ICU discharge, death, SNF or Rehab admission, SNF or Rehab discharge, outpatient/ambulatory encounter)
 - Problem or Diagnosis

Effective Use of Narrative for Usability: Healthcare Entity to Consumer

- Same abilities as provider to provider Use Case
- Consider reference to article about #OpenNotes in support of Patients and their relationships from Dr. Steven Lane
 - https://link.springer.com/article/10.1007/s11606-020-06432-7

Effective Use of Narrative for Usability Collaboration Space Input Discussion



REPLY



Andrea Pitkus Dr. Bronken, can you elucidate more on EHRs non compliant notes? Also why are you trying to parse notes to make them more discrete? Are the discrete data elements used to create the C-CDAs not available with appropriate coding (i.e. lab results LOINC, meds, RxNorm, ICD/SCT Problems)? For labs that send discrete results encoded with LOINC (and SCT for specimen, organism, qualitative values), is this information being lost/translated, etc. resulting in errors of omission and commission you are seeing on the EHR side? (Some of us are working on national lab interoperability initiatives and understanding these barriers would be helpful as we work on solutions.)

https://sequoiaproject.org/groups/data-usability-workgroup/forum/topic/effective-use-of-narrative-for-usability/

Phase 2 Implementation Guide Development Process

- Co-chairs and continue to organize and gather the content for the 8 topic areas developed in phase 1 activities – the following tasks will be completed bi-monthly for each topic area by staff to review
- Topics will be addressed in priority order with one two topics reviewed each meeting
 - This will be documented in the existing Google docs and/or the draft IG for the work items
 - Priority Work Items Spreadsheet:
 - https://docs.google.com/spreadsheets/d/1eRbgoStsfhYzIK-wj4TIU9Wr4MEkxfF3syOxsHWIPdg/edit#gid=0
 - Staff will take a high level pass of existing recommendations from the Carequality/Commonwell IG version 2.0 to be published in September 2021
 - Integrate feedback from vendor discussions and workshop(s) to the draft IG
 - Incorporate feedback from Data Usability Collaboration space / forum
 - https://sequoiaproject.org/interoperability-matters/data-usability-workgroup/
 - Go over problem statements from a more technical perspective
 - Document other aspects to be considered for the solution
 - Identify questions that still require clarification for all topics
 - Update the Draft IG for each topic category and use case





Data Usability Work Group

For more information:

www.sequoiaproject.org/interoperability-matters/data-usability-workgroup/





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Convene

Collaborate

Interoperate







Thank You for your support of Interoperability Matters!