

November 9, 2020

Dr. Don Rucker National Coordinator for Health Information Technology Office of the National Coordinator for Health Information Technology U.S. Department of Health and Human Services 200 Independence Ave, SW Washington, DC 20201

DELIVERED ELECTRONICALLY

RE: ACLA Comments on 2021 ONC Interoperability Standards Advisory (ISA) [Draft for Comment]

Dear Dr. Rucker:

The American Clinical Laboratory Association (ACLA) is pleased to submit our comments in response to the 2021 ONC Interoperability Standards Advisory (ISA) [Draft for Comment] (hereinafter the "Draft"). We thank you for your previous review of our comments on the 2019 draft ISA and we are appreciative that the ONC adopted several of our suggestions. We appreciate the opportunity to comment on the 2020 Draft.

ACLA is the national trade association representing leading laboratories that deliver essential diagnostic health information to patients and providers. ACLA members are at the forefront of driving diagnostic innovation to meet the country's evolving health care needs and provide vital clinical laboratory tests that identify and prevent infectious, acute, and chronic disease. ACLA members also have been a vital component of the response to the COVID-19 pandemic, having performed more than 50 million COVID-19 diagnostic and serologic tests to date. ACLA works to advance the next generation of health care delivery through policies that expand access to lifesaving testing services.

ACLA applauds your leadership in releasing the Draft in order to further advance health information technology (HIT) interoperability, a critical and vital goal for improving the quality of care for patients. ACLA member laboratories appreciate the opportunity to comment on the Advisory as a living document and hope these comments serve to continue to move interoperability forward.

Thank you for the consideration of ACLA's comments. If there are any questions regarding these comments, please do not hesitate to contact us by phone (202)-637-9466 or via email at jkegerize@acla.com.

Sincerely,

Joan Kegerize, MS, JD

Vice President, Reimbursement and Scientific Affairs

ATTACHMENT: ACLA COMMENTS

General comment:

Please consider adding HL7 Trademarks as defined in the Guide to Using HL7 Trademarks

The following two items are scheduled for archive (ARCH) or subject to a different comment process (USCDI)

API Resource Collection in Health (ARCH)

https://www.healthit.gov/isa/api-resource-collection-health-arch

The API Resource Collection in Health (ARCH) was proposed in the 21st Century Cures Act NPRM as a standard, but was not included in the Final Rule. This page has been archived for historical purposes only, and will be removed from this site in January 2021.

U.S. Core Data for Interoperability (USCDI)

https://www.healthit.gov/isa/us-core-data-interoperability-uscdi

Section I: Vocabulary/Code Set/Terminology Standards and Implementation Specifications

Representing Laboratory Tests

https://www.healthit.gov/isa/representing-laboratory-tests

Representing Labora	ory Tests						≓
Туре	Standard / Implementation Specification	Standards Process Maturity	Implementation Maturity	Adoption Level	Federally required	Cost	Test Tool Availability
Standard for observations	LOINC®	Final	Production	•••00	Yes	Free	N/A
Standard for observation values	SNOMED CT®	Final	Production	•0000	Yes	Free	N/A
	est with a single result will have the same by have a more specific code in the result did not declare the system property). A p	for example if the orde anel order will have an	er code				
LOINC® code and m Guidance is available LOINC code available	ultiple result LOINC® terms for each resu e for using SNOMED CT® and LOINC® to lity is contingent on assignment by Regen in about representing laboratory tests as al Procedures page.	gether. strief.					

ACLA Comment:

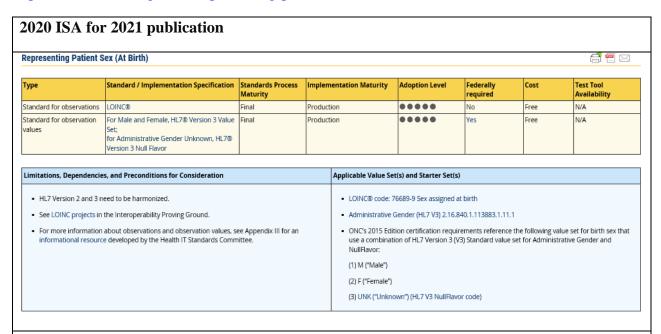
- In the Limitations, Dependencies, and Preconditions for Consideration, second bullet, please change 'will' to 'may'. In Conformance language¹ 'may' is equivalent to 'optional'. A LOINC code may not be immediately available from or published by Regenstrief, therefore a laboratory may have to use a local code until an appropriate LOINC code is available and deployed to applicable LIS and EHR systems.
- We are aware that some EHR systems assign LOINC if not provided by the sending laboratory; these mappings should be approved in advance by the Laboratory sending the result. We suggest ONC add an EHR certification question to ascertain if the EHR system is assigning LOINC without the sending laboratory's concurrence, e.g. are you consulting with the sending laboratory regarding the assignment of LOINC.
- Some EHR systems want a 1-to-1 SNOMED CT® mapping to each laboratory result, but this not always the case, especially for microbiology. For example, e-coli and Group A Strep (GAS)/Strep pyogenes (STPY) multiple results can have a single SNOMED CT mapping (many results to one SNOMED CT)
- SNOMED CT expertise can be scarce and expensive from resource perspective; SNOMED CT is a very complicated terminology and may be beyond the expertise of a laboratory technologist.
- There is a low adoption of SNOMED CT, which is due to multiple issues. For example, managing the negation aspect, e.g. "no e-coli" could unintentionally be interpreted as "e-coli" if the negation is not interpreted correctly. We suggest ONC work with industry to provide guidance on these issues.

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¹ https://tools.ietf.org/html/rfc2119

Topic: Representing Patient Sex (At Birth)

https://www.healthit.gov/isa/representing-patient-sex-birth



ACLA Comment:

This continues to be an ongoing challenge to laboratories and potentially impacts patient safety. Laboratories need the patient's chromosomal gender to be separate from a patient's identity gender as certain reference ranges are dependent on this information. We recommend ONC assess the various state laws as some states are permitting residents to legally change their birth sex. With these changes being allowed on birth certificates, we recommend ONC consider changing this section from Representing Patient's Sex (at birth) to something like Patient's Biological / Chromosomal Sex.

Additionally, the representation of the patient's biological gender should be similar across all various industries including Lab, Clinician, Pharmacy, etc.

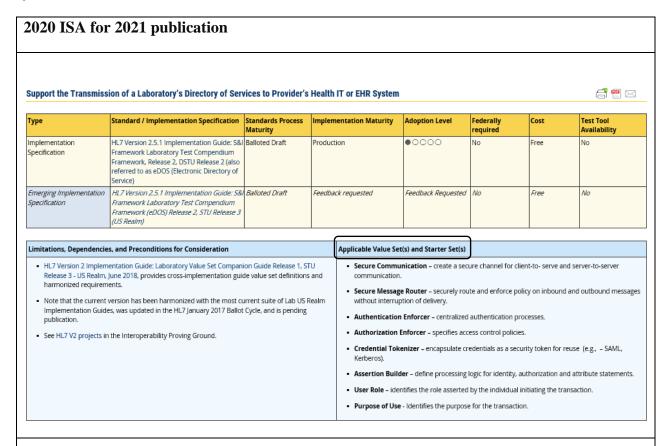
This may require additional LOINC codes.

While the adoption level may be accurate for capturing this data since it is an EHR certification requirement, as a large commercial laboratory, we can assert we are not seeing this data reported from EHR systems, and laboratories may not be ready to accept Sex assigned at Birth because they are currently supporting only HL7 V2 "Administrative Sex".

Section II: Content/Structure Standards and Implementation Specifications

Support the Transmission of a Laboratory's Directory of Services to Provider's Health IT or EHR System

https://www.healthit.gov/isa/support-transmission-a-laboratorys-directory-services-providers-health-it-or-ehrsystem



ACLA Comment

- We suggest you re-title the "Applicable Value Set(s) and Starter Set(s)" section; comments do not appear to be related to the current title.
- Please remove the second bullet. The "current version" balloted in January 2017 was published in 2018, it is the "...Release 2, STU Release 3..." version you have listed under "Emerging Implementation Specification", 2nd row in the table above
 - Or update to: "Note that the Emerging Implementation Specification has been harmonized with the most current suite of Lab US Realm Implementation Guides, published by HL7 in June 2018."
- Please add the following FHIR specification which is analogous to HL7 V2 eDOS. It has been tested in multiple FHIR Connectathons, most recently the September 2020 Connectathon, and was balloted in September 2020.

Type-Emerging Implementation Specification

2020 ISA for 2021 publication

Standard Implementation/Specification- HL7 FHIR Order Catalog Implementation

Guide/Laboratory Services 0.1.0 - STU Ballot 1

Hyperlink to ballot: http://hl7.org/fhir/uv/order-catalog/2020Sep/index.html

Standards Process Maturity – Balloted Draft

Implementation Maturity- Pilot

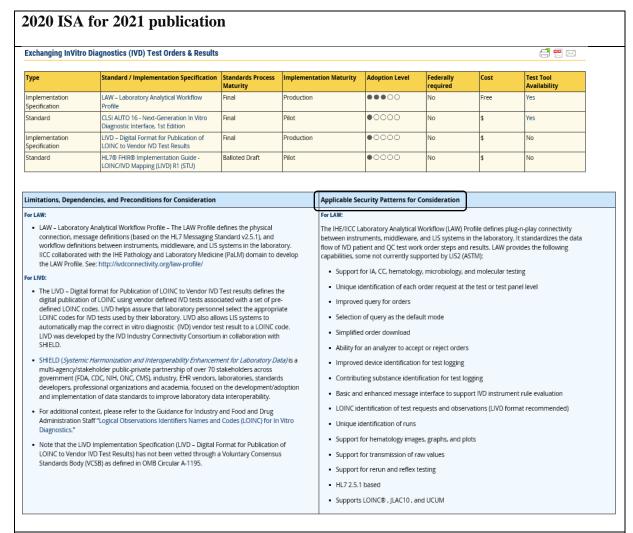
Adoption Level -1

Federally Required – No

 $\boldsymbol{Cost-Free}$

Test Tool Availability – No

Identify Linkages Between Vendor IVD Test Results and Standard Codes https://www.healthit.gov/isa/identify-linkages-between-vendor-ivd-test-results-and-standard-codes



ACLA Comment

The 2nd column 'header' is "Applicable Security Patterns for Consideration" but the comments are not related to security; Suggest you retitle as these comments to not appear to be related to the current time; rather theyseem like general comments

Ordering Labs for a Patient

https://www.healthit.gov/isa/ordering-labs-a-patient

2020 ISA for 2021 publication **Ordering Laboratory Tests for a Patient** - 🖷 🖂 Standards Process Implementation Maturity | Adoption Level Type Standard / Implementation Specification Maturity required Availability •0000 No mplementation HL7 Version 2.5.1 Implementation Guide: Balloted Draft Pilot Free Νo Laboratory Orders from EHR (LOI) Specification Release 1, STU Release 3 - US Realm Applicable Value Set(s) and Starter Set(s) Limitations, Dependencies, and Preconditions for Consideration The HL7 Version 2 Implementation Guide: Laboratory Value Set Companion Guide Release Secure Communication – create a secure channel for client-to- serve and server-to-server 1, STU Release 3 - US Realm HL7 Standard for Trial Use, provides cross-implementation communication guide value set definitions and harmonized requirements. Secure Message Router - securely route and enforce policy on inbound and outbound . See HL7 V2 projects in the Interoperability Proving Ground. messages without interruption of delivery. · Authentication Enforcer - centralized authentication processes. Authorization Enforcer - specifies access control policies. • Credential Tokenizer - encapsulate credentials as a security token for reuse (e.g., - SAML, - Assertion Builder - define processing logic for identity, authorization and attribute . User Role - identifies the role asserted by the individual initiating the transaction. · Purpose of Use - Identifies the purpose for the transaction.

ACLA Comment:

The 2nd column 'header' is "Applicable Value Set(s) and Starter Set(s)" section, but the comments are not related to the title; Suggest you retitle.

Receive Electronic Laboratory Test Results https://www.healthit.gov/isa/receive-electronic-laboratory-test-results

2020 ISA for 2021 publication Receive Electronic Laboratory Test Results **=** 🖭 Standards Process | Implementation Maturity | Adoption Level Standard / Implementation Cost Test Tool required Implementation HL7® Version 2.5.1 Implementation Balloted Draft roduction Yes Free Guide: S&I Framework Lab Results Interface, Release 1—US Realm [HL7 Version 2.5.1: ORU R011 Draft Standard for Trial Use, July 2012 Implementation NCPDP Specialized Standard, Final Pilot •0000 Yes Yes HL7® Implementation Guide for C-CDA •0000 Emerging Standard Production Νο No Release 2.1: Consolidated CDA for Clinica Notes and C-CDA on FHIR R4 HL7® Version 2.5.1 Implementation Balloted Draft Pilot •0000 No Emerging Guide: Lab Results Interface (LRI) Release Specification 1, STU Release 3 - US Realm Applicable Value Set(s) and Starter Set(s) Limitations, Dependencies, and Preconditions for Consideration HL7® Version 2 Implementation Guide: Laboratory Value Set Companion Guide Release 1, . Secure Communication - create a secure channel for client-to- serve and server-to-server STU Release 3 - US Realm, June 2018, provides cross-implementation guide value set communication. definitions and harmonized requirements . Secure Message Router - securely route and enforce policy on inbound and outbound The HL7® EHR-S Functional Requirements: S&I Framework Laboratory Results Messages, messages without interruption of delivery. Release 1 - US Realm further clarifies sender/receiver responsibilities to achieve end-to-end Authentication Enforcer - centralized authentication processes interoperability for this interoperability need · Authorization Enforcer - specifies access control policies · See HL7 V2 projects in the Interoperability Proving Ground. • Credential Tokenizer - encapsulate credentials as a security token for reuse (e.g., - SAML Kerberos). . Assertion Builder - define processing logic for identity, authorization and attribute . User Role - identifies the role asserted by the individual initiating the transaction · Purpose of Use - Identifies the purpose for the transaction.

ACLA Comment:

The 2nd column 'header' is "Applicable Value Set(s) and Starter Set(s)" section, but the comments are not related to the title; Suggest you retitle.

Re: NCPDP Specialized Standard, Implementation Guide, Version 2017071

- Please correct the hyperlink in the Standard/Implementation Specification; it returns an error message: 404 File or directory not found.
- Please add hyperlink in the "Federally required" column so laboratories can understand the federal requirement
- ACLA members do not have access to the NCPDP link provided in the response. We do not
 have access to this standard and we do not understand why this standard is here
 representing lab domain.

Re: <u>HL7® Implementation Guide for C-CDA Release 2.1: Consolidated CDA for Clinical Notes and C-CDA on FHIR R4</u>

• Please separate the two C-CDA references, this refers to two distinct implementation guides, one that is Clinical Document Architecture (CDA) based and one that is Fast Healthcare Interoperability Resources (FHIR) based

- 1. The proper title is: <u>HL7 CDA® R2 IG: C-CDA Templates for Clinical Notes R2.1</u> Companion Guide, Release 2 <u>US Realm</u>
 - o Remove \$ in 'Cost' column; HL7 standards are available with no fee license.
- 2. The proper title is: <u>C-CDA on FHIR Implementation Guide (IG)</u>
 - The hyperlink for C-CDA on FHIR is: http://hl7.org/fhir/us/ccda/history.html This lists multiple versions; the latest version published in 2018 is a STU (standard for trial use)
 - Please change the Standards Maturity from 'Final' to 'Balloted Draft' (because it is a STU).
 - o Remove \$ in 'Cost' column; HL7 standards are available with no fee license.

Electronic Transmission of Reportable Lab Results to Public Health Agencies https://www.healthit.gov/isa/electronic-transmission-reportable-lab-results-public-health-agencies

2020 ISA for 2021 publication Electronic Transmission of Reportable Laboratory Results to Public Health Agencies Standards Process Test Tool Availability Standard / Implementation Specification Implementation Maturity Adoption Level Federally required Maturity nplementation Specification •••• Electronic Laboratory Reporting to Public Health (US Realm), Release 1 with Errata and Clarifications and ELR 2.5.1 Clarification ocument for EHR Technology Certification HL7 Version 2.5.1 Implementation Guide Balloted Draft Production •0000 Electronic Laboratory Reporting to Public Healtl •0000 HL7 Version 2.5.1 Implementation Guide Balloted Draft plementation Specification Production Free Laboratory Results Interface, Release 1 STU Release 3 - US Realm Applicable Security Patterns for Consideratio Limitations, Dependencies, and Preconditions for Consideration Value Set IG - Please also refer to the HLT Version 2 Implementation Guide: Laboratory Value Set Companion Guide Release 1, STU Release 3 - US Realm HLT Standard for Trial Use (June 2018). . Stakeholders should refer to the health department in their state or local jurisdiction to determine onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which transport methods are acceptable for submitting ELR as there may be jursidictional variation or . Secure Communication - create a secure channel for client-to-server and server-to-server communication . Secure Message Router - securely route and enforce policy on inbound and outbound messages without While the names differ, please note the content in the first two Electronic Laboratory Reporting (ELR) implementation specifications listed above is now handled as a profile in the third listing, the Laboratory ults Interface (LRI) implementation specification, using the "LRI_PH_COMPONENT – ID: 2.16.840.1.113883.9.195.3.5" Result Profile Component. Authorization Enforcer – specifies access control policies. . See HL7 V2 projects in the Interoperability Proving Ground. Credential Tokenizer - encapsulate credentials as a security token for reuse (e.g., - SAML, Kerberos). · Assertion Builder - define processing logic for identity, authorization and attribute statements. . User Role - identifies the role asserted by the individual initiating the transaction. . Purpose of Use - Identifies the purpose for the transaction. **ACLA Comment:** We suggest the ONC re-clarify the title which is a mix of Value Sets and security pattern references.

Public Health Reporting/Reporting Cancer Cases to Public Health Agencies https://www.healthit.gov/isa/reporting-cancer-cases-public-health-agencies

2020 ISA for 2021 publication **Reporting Cancer Cases to Public Health Agencies A** 🖷 🖂 Standard / Implementation Specification Standards Process Implementation Maturity Availability Maturity required Implementation Implementation Guide for Ambulatory ••000 Final Production Specification Healthcare Provider Reporting to Central Cancer Registries, August 2012 Implementation HL7 CDA ® Release 2 Implementation Guide: Balloted Draft Production •0000 Yes Yes Specification Reporting to Public Health Cancer Registries from Ambulatory Healthcare Providers, Release 1, DSTU Release 1.1 – US Realm •••• Yes North American Association of Central Final Production Implementation Free Yes Cancer Registries, Inc. (NAACCR), Standards for Cancer Registries, Volume V, Pathology Laboratory Electronic Reporting, Version 4.0, •0000 No Emerging Implementation IHE Quality, Research, and Public Health Balloted Draft Pilot Free No Structured Data Capture, Trial Implementation Limitations, Dependencies, and Preconditions for Consideration Applicable Security Patterns for Consideration · Stakeholders should refer to the health department in their state or local jurisdiction to determine Secure Communication – create a secure channel for client-to-server and server-to-server onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine communication which transport methods are acceptable for submitting cancer reporting date as there may be . Secure Message Router - securely route and enforce policy on inbound and outbound messages jurisdictional variation or requirements. Some jurisdictions may not support cancer case reporting without interruption of delivery. Authentication Enforcer - centralized authentication processes. Note that the NAACCR specification listed has not been vetted through a Voluntary Consensus Standards Body (VSCB), however it references the HL7 V 2.5.1 standard and LOINC, and has been · Authorization Enforcer - specifies access control policies. sponsored by a number of organizations working in the cancer registry space. . Credential Tokenizer - encapsulate credentials as a security token for reuse (e.g., - SAML, · See CDA and IHE projects in the Interoperability Proving Ground. Kerberos) • Assertion Builder - define processing logic for identity, authorization and attribute statements. • User Role - identifies the role asserted by the individual initiating the transaction. · Purpose of Use - Identifies the purpose for the transaction

ACLA Comment:

In the 2020 ISA update, the NAACCR implementation specification was changed to "Federally required" and "Yes". Please add a hyperlink indiciating the source of federal requirement which has apparently changed since the 2019 publication of the ISA (see <u>2019</u> screen print below).

2019 (referenced in 2020 comment)

Text: Reporting Cancer Cases to Public Health Agencies 7 7 8 Standards Process Test Tool Availability Type Standard / Implementation Specification Implementation Maturity Adoption Level Federally required | Cost Standard HL7 Clinical Document Architecture (CDA®), Final Production •••• elease 2.0, Final Edition Implementation Guide for Ambulatory ••000 Implementation Specification Final Production Free 'es lealthcare Provider Reporting to Central Cance Registries, August 2012⊯ •0000 Implementation Specification HL7 CDA ® Release 2 Implementation Guide: Balloted Draft Production Yes Free es/ eporting to Public Health Cancer Registries , DSTU Release 1.1 – US Realm₽ Implementation Specification | North American Association of Central Cancer Final Production Feedback Requested No Free No egistries, Inc. (NAACCR), Standards for Cancer Registries, Volume V, Pathology Laboratory Electronic Reporting, Version 4.0, published Apri 2011 ₽ Emerging Implementation IHE Quality, Research, and Public Health Balloted Draft Pilot •0000 Free Νο Technical Framework Supplement, Structured Data Capture, Trial Implementation® Applicable Value Set(s) and Starter Set(s) Limitations, Dependencies, and Preconditions for Consideration · Stakeholders should refer to the health department in their state or local jurisdiction to determine · Secure Communication - create a secure channel for client-to-server and server-to-server communication. onboarding procedures, obtain a jurisdictional implementation guide if applicable, and determine which Secure Message Router – securely route and enforce policy on inbound and outbound messages without transport methods are acceptable for submitting cancer reporting date as there may be jurisdictional interruption of delivery. variation or requirements. Some jurisdictions may not support cancer case reporting at this time Authentication Enforcer – centralized authentication processes. Note that the NAACCR specification listed has not been vetted through a Voluntary Consensus Standards Body (VSCB), however it references the HL7 V 2.5.1 standard and LOINC, and has been sponsored by a Authorization Enforcer – specifies access control policies. number of organizations working in the cancer registry space. Credential Tokenizer – encapsulate credentials as a security token for reuse (e.g., – SAML, Kerberos). See CDA and IHE projects in the Interoperability Proving Ground Assertion Builder – define processing logic for identity, authorization and attribute statements. • User Role – identifies the role asserted by the individual initiating the transaction. • Purpose of Use - Identifies the purpose for the transaction.

Specialty Care and Settings

Interoperability for COVID-19 Novel Coronavirus Pandemic https://www.healthit.gov/isa/covid-19

Туре	Standard / Implementation Specification	Standards Process Maturity	Implementation Maturity		Federally required		Cost	Test Tool Availability
Standard	LOINC®	Final	Production	••••	Yes		Free	N/A
Standard	SNOMED CT®	Final	Production	••••	Yes		Free	N/A
Standard	ICD-10-CM	Final	Production	••••	Yes		Free	N/A
Standard	Current Procedural Terminology (CPT)	Final	Production	••••	Yes		\$	N/A
Standard	HCPCS	Final	Production	••••	Yes)	Free	N/A
Emerging Implementation Specification	Logica COVID-19 (FHIR v4.0.1) Implementation Guide CI Build	In Development	Feedback requested	Feedback Requested	No		Free	N/A
Emerging Implementation Specification	HL7 FHIR (W4.0.1) Situational Awareness for Novel Epidemic Response (SANER) IG 0.1.0 Continuous Build	In Development	Feedback requested	Feedback Requested	No		Free	N/A

Limitations, Dependencies, and Preconditions for Consideration	Applicable Value Set(s) and Starter Set(s)
The following artifacts provide additional guidance on adopting codes, terminologies and coding	VSAC Value Set - COVID_19 (Disorders) (ICD10CM) Contains non-specific coronavirus codes
guidance: CDC Official Coding and Reporting Guidelines for ICD-10-CM	VSAC Value Set - 2019 Novel Coronavirus COVID 19 SNOMED CT Codeset
Logica (FHIR v4.0) Implementation Guide: COVID-19	VSAC Value Sets - CDC/FDA In vitro Diagnostic Tests, Specimens and Results Codes
SNOMED CT Coding for COVID-19 Data	LOINC terms for SARS-CoV-2 and COVID-19 related concepts
Guidance for mapping to SARS-CoV-2 LOINC terms	AMA CPT coding and guidance for COVID-19
 LOINC In Vitro Diagnostic (LIVD) Test Code Mapping for SARS-CoV-2 Tests, Specimens and Results (CDC/FDA) 	
 The FHIR profiles in the Logica IG: COVID-19 contains FHIR profiles representing COVID-19 related data elements to support patient care, billing, research, or public reporting. The goal is to create consistent and reusable data and FHIR profiles for different COVID-19 implementation guides. 	
 The emerging HL7 Situational Awareness for Novel Epidemic Response (SANER) Implementation Guide enables transmission of high level situational awareness information from inpatient facilities to centralized data repositories to support the treatment of novel influenza-like illness. 	
 CDC and FDA maintain mapping of all current US approved SARS-CoV-2 invitro diagnostic lab and their corresponding specimen types and results. 	
CMS Press Release on HCPCS Codes for Coronavirus Lab Testing	

ACLA Comment:

Please add hyperlinks in the "Federally Required" column when Federally Required is 'Yes'

Please revise both hyperlinks for Logica (https://covid-19-ig.logicahealth.org/index.html) to reference the official HL7 Logica webpage: http://hl7.org/standards/hsp-marketplace/index.html. The current ISA LOGICA hyperlink is to a non-HL7 website; HL7 projects must be hosted on an HL7 website per HL7 policy.

Please add more links to the information provided on COVID-19.

The SANER specification is being <u>balloted</u> by HL7 for the early January 2021 ballot cycle; it is an official HL7 project. Please change the status to "Balloted Draft".

Please add reference to additional HHS artifacts which ultimately reference HL7, LOINC, and SNOMED standards:

- June 4, 2020 HHS mandate: <u>COVID-19 Pandemic Response</u>, <u>Laboratory Data Reporting: CARES Act Section 18115</u>: https://www.hhs.gov/sites/default/files/covid-19-laboratory-data-reporting-guidance.pdf
- COVID-19 Lab Data Reporting Implementation Specifications: https://www.hhs.gov/sites/default/files/hhs-guidance-implementation.pdf
 - This document (last column) references HL7 Field and HL7 V2 Guidance: https://confluence.hl7.org/display/OO/Proposed+HHS+ELR+Submission+Guidance+using+HL7+v2+Messages

Appendix I – Sources of Security Standards and Security Patterns https://www.healthit.gov/isa/appendix-i-sources-security-standards-and-security-patterns

Appendix I – Sources of Security Standards and Security Patterns In the Interoperability Standards Advisory, a structure to capture necessary security patterns associated with interoperability needs is represented. To addres public comments that requested a distinct security standards section the list below provides a number of sources to which stakeholders can look in order to find the latest applicable security standards. Note that this list is not meant to be exhaustive, and while every effort is made to ensure links are current, links may become outdated as organizations make changes to their websites. Security Pattern Catalog HIPAA Security regulations that are specific to healthcare HIPAA Security Rule Crosswalk to NIST Cybersecurity Framework ASTM

Appendix II - Models and Profiles

https://www.healthit.gov/isa/appendix-ii-models-and-profiles

HL7 Standards - Section 1: Primary Standards

2020 ISA for 2021 publication

HL7 Standards - Section 1: Primary Standards

Section 1 Primary standards are the most popular standards integral for system integrations, and interoperability. Most frequently used and in-demand standards are in this category. (This section also includes the Version 2 and Version 3 solution sets, which encompass all standards relative to that version. HL7's primary standards and other select products are licensed at no cos. Additional information can be found at HL7's licensing cost update.)

ACLA Comment:

Please correct typo, 'cos' to 'cost'

 ${\bf Multiple\ Section\ Section\ I:\ Vocabulary/Code\ Set/Terminology\ Standards\ and\ Implementation\ Specifications}$

2020 ISA for 2021 publication
ACLA Comment:
No suggested comment, but note that some items were changed, but new entries added used 'lab' instead of 'laboratory'.