

Laboratory Reporting (Call 2)

CSTE DSWG Data Element Specific Team

09/13/2024



Council of State and Territorial Epidemiologists

Please mute phone/ headset/ computer audio!

Agenda

- Welcome & Announcements
- Call 1 recap
- Laboratory data – data element review
- Discussion and polling
- Wrap-Up & Adjourn

DEST Opportunities for Participation



- The Data-element Specific Team (DEST) Interest Sign-Up sheet has been updated to include known future data classes:
- Social Determinants of Health
 - First call 9/20
- Reporting Source
 - Next Step TBD
- Race/Ethnicity/Tribal Affiliation
 - 10/25 DSWG call

Link to Sign-Up sheet:

<https://app.smartsheet.com/b/form/3da89d48bda94fc7a33c4a8a505fe54a>

If you have signed up previously but feel you are not getting the emails/meeting invites that you expected to get, please reach out directly to llane@j michael-consulting.com.

DSWG Reminders



- Out for DSWG-level review:
 - Identifiers
- Out for DEST-level review:
 - Medications

NOTE:

All drafts released for DEST/DSWG review are drafts and the resulting recommendations passed to CSTE for final steps have not been made available. Please do not pass on draft documents as final products.

Meeting ground rules



- Discussion Guidelines
 - "Raise" your hand
 - Use the chat to provide feedback and ask questions
 - When called, state your name and affiliation
 - Stay on point, be brief, and within the context of the discussion in progress
 - 80/20 consensus
 - Co-Chairs/moderators' prerogative to move the discussion forward as needed
 - [Post-meeting survey](#) provided for additional input
 - Be courteous and be open to new ideas
- **Active participation encouraged for all!**
 - Chats, voting, comments, etc.
 - Includes STLT jurisdictions + CDC Programs + CSTE, etc.

In-scope vs Out-of-scope



What this is:

- Discussion about data elements/classes which are:
 - collected at the jurisdiction and sent to CDC for surveillance purposes
 - Abstracted, calculated, or derived from a combination of electronic sources, patient interviews and chart abstractions
- Collaborative consensus building about the best ways to approach the transmission of public health data in a standardized way

What this is not:

- Discussion of data elements for research studies
- Recommendations for public facing surveys
- Limitations on what can be collected for a data element within a jurisdiction
- Recommendations for how to ask about data elements in a case interview
- Implementation guidance

Laboratory Data Elements (Part 2)



Laboratory in two parts...



- Goal: Standardized Laboratory Repeating Group
- Previously discussed data elements
 - Test Type
 - Test Result
 - Test Result – Units of Measure
 - Test Result – Reference Range

Laboratory in two parts...



- Goal: Standardized Laboratory Reporting Group
- Today's call is the second call related to laboratory information in case notifications.
- Remaining data elements include:
 - Specimen Type
 - Specimen Source Site
 - Performing Laboratory Type
 - Specimen Collection Date
 - Date/Time of Lab Result
 - Performing Laboratory Specimen ID
 - Whole Genome Sequencing (WGS) ID Number

Proposed Data Elements: Part 2



Data Element	Definition	Value Set
Specimen Type	The type of specimen used in testing the resulted lab test.	2024 SNOMED Specimen hierarchy (with “Other, please specify”)
Specimen Source Site	This indicates the anatomical source of the specimen tested	2024 SNOMED Body Structure hierarchy (with “Other, please specify”)
Performing Laboratory Type	Classification of the performing laboratory by its primary function, such as a CDC laboratory, public health laboratory, or other types of laboratories.	CDC laboratory Public Health Lab (State or local) Other Unknown

Proposed Data Elements: Part 2



Data Element	Definition	Value Set
Specimen Collection Date/Time	Date (and time as available) a clinical specimen was collected from the patient for the laboratory testing relevant to the disease or condition being reported to a public health agency.	N/A
Date/Time of Lab Result	Date (and time as available) the latest result was released for reporting.	N/A
Performing Laboratory Specimen ID	A laboratory generated number that identifies the specimen related to this test.	N/A
WGS ID Number	Genomic sequencing ID number	N/A

Proposed Data Element: Specimen Type



Data Element	Definition	Value Set
Specimen Type	The type of specimen used in testing the resulted lab test	2024 SNOMED Specimen hierarchy (with “Other, please specify”) <i>Examples:</i> Blood specimen (119297000) Blood specimen from blood donor (122560006) Urine (122575003)

- No condition-specific value sets
- Maps to HL7 segment SPM-4
 - If both Specimen Type and Specimen Source are sent in SPM-4, this combined value can be sent in this field.

Proposed Data Element: Specimen Type



Data Element	Definition	Value Set
Specimen Type	The type of specimen used in testing the resulted lab test	2024 SNOMED Specimen hierarchy (with “Other, please specify”) <i>Examples:</i> Blood specimen (119297000) Blood specimen from blood donor (122560006) Urine (122575003)

- For Discussion:
 - Advantages of an all-inclusive value set?
 - What about non-ELR labs?
 - Barriers to the submission of these values?

Proposed Data Element: Specimen Source Site



Data Element	Definition	Value Set
Specimen Source Site	Indicator of the anatomical source of the specimen tested	2024 SNOMED Body Structure hierarchy (with “Other, please specify”) <i>Examples:</i> Oral cavity structure (74262004) Structure of hand joint region (786074005)

- No condition-specific value sets
- Maps to HL7 segment SPM-8

Proposed Data Element: Specimen Source Site



Data Element	Definition	Value Set
Specimen Source Site	Indicator of the anatomical source of the specimen tested	2024 SNOMED Body Structure hierarchy (with “Other, please specify”) <i>Examples:</i> Oral cavity structure (74262004) Structure of hand joint region (786074005)

- For discussion:
 - Reliability of this information in labs?
 - Is this the best place for the conditions who do need it? Will inclusion make things easier overall even if it is often blank?
 - Pros/cons of broad value set
 - Barriers to transmission?

Polling process



- Poll questions will be shown first on a slide before the poll opens
 - Opportunity for clarifications & questions
- There will be an opportunity for limited discussion on questions with a big split, as time allows
- Participant voting

DSWG membership has grown to include many experts and interested participants. The following guidance is requested for participating in polling:

 - Only STLTs (State, Territorial, Local, and Tribal) and Federal authorities should vote.
 - Contractors and individuals from other organizations are requested to abstain from voting unless they have specific and relevant expertise in the topic.
 - Comments and discussion are welcomed by all, but voting remains with the STLTs and federal authorities.

Poll 1 – Specimen Type Specimen Site Source



Do you think that **Specimen Type** and **Specimen Site Source** as defined below should be included as a part of a standardized laboratory repeating group?

- Specimen Type
- Specimen Source Site
- Both
- Neither

Data Element	Definition	Value Set
Specimen Type	The type of specimen used in testing the resulted lab test	2024 SNOMED Specimen hierarchy (with “Other, please specify”)
Specimen Source Site	Indicator of the anatomical source of the specimen tested	2024 SNOMED Body Site hierarchy (with “Other, please specify”)

Performing Laboratory Type: Current State



Data Element (DE) Name	Data Element Description	Data Type	CDC Priority	May Repeat	Value Set Name (VADS Hyperlink)
Performing Laboratory Type	Performing laboratory type	Coded	3	N	Performing Lab Type (Trich)

Included in Arboviral, Covid-19, Trichinellosis, RIBD, Varicella, Pertussis, Mumps, and Legionellosis MMGs

- Existing MMGs

- 5 ask if a specimen was sent to CDC
- 8 ask for a date that a specimen was sent to CDC
- 2 ask if an isolate was sent to the state public health lab

- Utility

- Knowing what kinds of labs are doing testing for specific tests is useful
- In the case of discrepant results, PHLs >> Commercial

Proposed Data Element: Performing Laboratory Type



Data Element	Definition	Value Set
Performing Laboratory Type	Classification of the performing laboratory by its primary function, such as a CDC laboratory, public health laboratory, or other types of laboratories.	CDC laboratory Public Health Lab (State or local) Other Unknown

- **Simpler Value Set**
 - Easier to maintain a mapping table
 - Maintains the most meaningful information for CDC programs
 - More granular value sets which attempted to separate commercial labs, hospital labs, and others resulted in data of limited meaning and high variability across jurisdictions

Proposed Data Element: Performing Laboratory Type



Current Value Set Options (options vary by condition)	Proposed Value Set
Commercial laboratory Hospital laboratory Public health laboratory Other clinical laboratory CDC laboratory VPD testing laboratory Other Unknown	CDC laboratory Public Health Lab (State or local) Other Unknown

- **Simpler Value Set**
 - Easier to maintain a mapping table
 - Maintains the most meaningful information for CDC programs
 - More granular value sets which attempted to separate commercial labs, hospital labs, and others resulted in data of limited meaning and high variability across jurisdictions

Proposed Data Element: Performing Laboratory Type



Data Element	Definition	Value Set
Performing Laboratory Type	Classification of the performing laboratory by its primary function, such as a CDC laboratory, public health laboratory, or other types of laboratories.	CDC laboratory Public Health Lab (State or local) Other Unknown

- For Discussion
 - Does simplified value set lower barriers to mapping/transmitting the data from jurisdictions to CDC?
 - Does this data element provide useful information to a majority of CDC program areas?

Poll 2 – Performing Laboratory Type



Do you think that **Performing Laboratory Type** as defined below should be included as a part of a standardized laboratory repeating group?

- Yes
- No
- Unsure

Data Element	Definition	Value Set
Performing Laboratory Type	Classification of the performing laboratory by its primary function, such as a CDC laboratory, public health laboratory, or other types of laboratories.	CDC laboratory Public Health Lab (State or local) Other Unknown

Next Steps



- Upcoming team meetings:
 - 9/20 1-2pm ET – first SDOH DEST call
 - [Link to Sign Up](#)
- The next large DSWG call will be on 25 October 2024.

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