

Social Determinants of Health

CSTE DSWG Data Element Specific Team

9/20/2024



Council of State and Territorial Epidemiologists

CSTE Data Standardization Workgroup Meeting



Please mute phone/ headset/ computer audio!

Agenda

- Welcome & Announcements
- SDOH vs Health-Related Social Needs
- Residence Type Background
- Residence Type Discussion
- Next Steps
- Wrap-Up & Adjourn

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 input form](#) is always available for additional comment
 - Be courteous and be open to new ideas

Active participation encouraged for all!

- Chats, voting, comments, etc.
- Includes STLT jurisdictions + CDC Programs + CSTE, etc.

Core Data: In Scope for DSWG CSTE

- Identify core data elements for surveillance **for transmission to CDC**
 - For situational awareness or routine, cross-condition case surveillance
 - For case-based surveillance (not syndromic, not aggregate reporting)
 - Within *selected* data classes (e.g., hospitalization, travel history) that are used for multiple conditions
- Identify common definitions, value sets/code sets, structure, and interpretation notes for those core data elements
- Recommend best practices for how selected data elements are collected, structured or populated within PHA surveillance systems, if/when that will affect the interpretation of the data transmitted to CDC

Core for CDC Transmission ≠ Required

Even if a data element or class is identified as appropriate for transmission to CDC, this does *not* mean we need to fill in or send an answer for every core element for every case!

- It is okay to leave the data field as blank or Unknown if the information is not available, not a priority, or not useful for particular conditions.

Data elements and data classes should be considered for core if they are relevant for many conditions

- There is no set number that defines "many".
- Would you rather see the element in (for example) a GenV3 MMG? or in the applicable disease-specific MMGs?

Social Determinants of Health (SDOH)



SDOH versus Health-Related Social Needs



- **SDOH**

- Broader, population-level factors and conditions in which people are born, grow, live, work, and age that affect their overall health outcomes.
 - Examples: economic policies, systemic racism, housing policies, education systems, and the overall socio-political environment.

- **Health-related Social Needs**

- Immediate, individual-level conditions and needs that directly affect a person's health.
 - Examples: housing, transportation, or financial stability.

Prioritization of Concepts for Discussion



- This call will focus on current residence type, including
 - Homelessness (sheltered and unsheltered)
 - Residence in correctional or detention facility
- Future calls
 - Language
 - Education
 - Insurance coverage
 - Income
- Topics out of scope for these calls
 - Other data classes (I&O, SOGI, exposure/risk factors, disability, Race and Ethnicity)
 - Other health-related social needs

Background Information: SDOH - Residence Type



Concepts Related to Residence



In scope today:

- Homelessness
 - Sheltered
 - Unsheltered
- Residence in a congregate setting
 - Correctional/detention facility
 - Other congregate settings (e.g., residential care facility, group home)

Out of scope today:

- Housing stability/instability
- Housing quality/conditions
- Crowding

The Gravity Project



- A key initiative focused on standardizing SDOH data elements, including those related to residence type.
- **Homelessness**
 - **Sheltered Homelessness**
 - Currently living in a shelter, motel, temporary or transitional living situation, scattered-site housing, or not having a consistent place to sleep at night
 - **Unsheltered Homelessness**
 - Residing in a place not meant for human habitation, such as cars, parks, sidewalks, abandoned buildings, on the street.

CDC-Validated Question Set

- I would like to ask about where you have been living for the past [insert time period of interest]. Have you been staying in the same place for the past [insert time period of interest], or have you been going between or staying at two or more places?
 - One, Multiple, Declined, Don't know
- Where have you been staying for the past 2 weeks?
 - Write free-text what the response is. Use to select options from an extensive list. (124 values)
- Different options have specific follow-up questions- Do you own/lease/rent? Is it a vehicle? Made for a human to live in? Paid for by charity?

CDC-Validated Question Set



- Private residence in a long-term arrangement
- Residential facility for workers or students
- Hotel/motel or vacation rental in a long-term arrangement
- Private residence in a short-term arrangement of 14 days or less
- Hotel/motel or vacation rental, short-term arrangement 14 days or less
- Shelter or safe haven (incl. hotel/motel paid by charity or gov't prog)
- Structure not meant for human habitation
- Vehicle not meant for human habitation
- Open air, part of an established encampment
- Open air, not part of an established encampment
- Correctional or detention facility
- Facility that provides medical/behavioral health treatment
- Group home or residential facility not provided by employer or school
- Declined to answer
- Doesn't know
- Unknown
- Other

- ELR and eCR contain Patient Address
 - May list an address of a known homeless shelter or correctional facility
 - May contain terms like "homeless"
- eCR contains 'Characteristics of Home Environment' (CDA and FHIR)
 - Value set includes values such as "Homeless family (finding)" or "Housing instability (finding)". Not all concepts in this value set (278 SNOMED concepts) are applicable to Residence Type.

Case Notifications to CDC

Message Mapping Guides (MMGs)



Foodborne and Diarrheal Disease MMG

Data Element Name	Identifier	Data Element Description	Value Set Name
Homeless	32911000	No fixed residence for any given period of time	Yes No Unknown (YNU)

COVID-19 MMG

Data Element Name	Identifier	Data Element Description	Value Set Name
Residence	75617-1	Which would best describe where the patient was staying at the time of illness onset?	Residence Type (COVID-19)

Respiratory and Invasive Bacterial Disease MMG

Data Element Name	Identifier	Data Element Description	Value Set Name
Residence	75617-1	Where was the patient a resident at time of initial culture?	Residence Location (RIBD)
Homeless	32911000	Was the patient homeless at time of symptom onset?	Yes No Unknown (YNU)

Case Notifications to CDC Message Mapping Guides (MMGs)



Hepatitis MMG

Data Element Name	Identifier	Data Element Description	Value Set Name
Type of Incarceration Facility	INV638	Type of facility where the patient was incarcerated for the longer than 24 hours before symptom onset?	Incarceration Type (Hepatitis)

Tuberculosis and Latent TB MMG

Data Element Name	DE Identifier	Data Element Description	Value Set Name
Type of Correctional Facility	INV1119	If patient was a Resident of Correctional Facility at Diagnostic Evaluation, indicate the type of correctional facility.	PHVS Correctional FacilityType NND

Case Notifications to CDC

Message Mapping Guides (MMGs)



Hepatitis MMG

Data Element Name	Identifier	Data Element Description	Value Set Name
Incarcerated more than 24 hours	INV637	Prior to the onset of symptoms, was the patient incarcerated for longer than 24 hours? For Acute Hep B, the time period prior to onset of symptoms is 6 weeks - 6 months. For Acute Hep C, the time period prior to onset of symptoms is 2 weeks - 6 months.	Yes No Unknown (YNU)
Incarcerated more than 6 months	INV639	Was the patient ever incarcerated for longer than six months during his or her lifetime?	Yes No Unknown (YNU)
Ever Incarcerated	INV649	Was the patient ever incarcerated?	Yes No Unknown (YNU)

STD MMG

Data Element Name	Identifier	Data Element Description	Value Set Name
Been incarcerated within the past 12 months	STD118	Been incarcerated within the past 12 months	YNRD (CDC)

Current Residence Type



- Intended to capture someone's current status (at time of CCCD?) rather than during an exposure period or historically (as a risk factor)
- Would like it to transmit health-related social needs data on someone's housing status (e.g., homeless) and if part of a congregate living setting (e.g., incarceration)

Data Element	Definition	Value set or coding system
Current Residence Type	Current living situation or housing status of a person at the time of the CCCD	TBD Coded data element

In previous work, the DSWG has defined a Calculated Case Counting Date (CCCD) for use by jurisdictions.

The CCCD is defined as the earliest available of six component dates associated with a case. (All component dates may not be available, relevant, or collected for each case.)

- Symptom Onset Date
- Clinical Diagnosis Date
- Earliest Specimen Collection Date Associated with a Positive Lab Result
- Earliest Result Date of a Positive Lab Result
- Date First Received by Public Health Agency
- Date Entered/Record Initiated

Discussion: SDOH - Residence Type



Proposed Definition



Below is a potential definition for "Current Residence Type". We will show some potential value sets then come back for discussion.

Data Element	Definition	Value set or coding system
Current Residence Type	Current living situation or housing status of a person at the time of the CCCD.	TBD in next slides, Coded data element

Residence Type Value Set (Future Standard)



- Private residence in a long-term arrangement
- Residential facility for workers or students
- Hotel/motel or vacation rental in a long-term arrangement
- Private residence in a short-term arrangement of 14 days or less
- Hotel/motel or vacation rental, short-term arrangement 14 days or less
- Shelter or safe haven (incl. hotel/motel paid by charity or gov't prog)
- Structure not meant for human habitation
- Vehicle not meant for human habitation
- Open air, part of an established encampment
- Open air, not part of an established encampment
- Correctional or detention facility
- Facility that provides medical/behavioral health treatment
- Group home or residential facility not provided by employer or school
- Declined to answer
- Doesn't know
- Unknown
- Other

Condensed Value Set



- Homeless (sheltered or unsheltered) or lacking a long-term (≥ 14 days) housing arrangement
- Private residence (e.g., house, apartment, mobile home)
- Correctional Facility
- Long Term Care Facility (e.g., ALF, SNF, LTACH)
- Dormitory
- Migrant Worker Housing
- Other Congregate Living Setting (e.g., group home)
- Other
- Unknown

Is this definition of Current Residence Type appropriate?
Should Current Residence Type be a core data element?
Is the more detailed "Future Standard" or "condensed"
value set preferred?

Data Element	Definition	Value set or coding system
Current Residence Type	Current living situation or housing status of a person at the time of the CCCD.	TBD in next slides, Coded data element

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 – Residence Type



Should the data element "Current Residence Type" be considered a core data element for case notifications?

- Yes – This definition
- Yes – Different definition
- No

Data Element	Definition
Current Residence Type	Current living situation or housing status of a person at the time of the CCCD.

Poll #2 Residence Type Definition



How should "Current Residence Type" be defined?

- A. Current living situation or housing status of a person at the time of the CCCD.
- B. Current living situation or housing status of a person.
- C. Current living situation or housing status of a person at (*another date*).
- D. Other definition

Residence Type Value Set (Future Standard)



- Private residence in a long-term arrangement
- Residential facility for workers or students
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- Hotel/motel or vacation rental, short-term arrangement 14 days or less
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- Open air, part of an established encampment
- Open air, not part of an established encampment
- Correctional or detention facility
- Facility that provides medical/behavioral health treatment
- Group home or residential facility not provided by employer or school
- Declined to answer
- Doesn't know
- Unknown
- Other

Condensed Value Set



- Homeless (sheltered or unsheltered) or lacking a long-term (≥ 14 days) housing arrangement
- Private residence (e.g., house, apartment, mobile home)
- Correctional Facility
- Long Term Care Facility (e.g., ALF, SNF, LTACH)
- Dormitory
- Migrant Worker Housing
- Other Congregate Living Setting (e.g., group home)
- Other
- Unknown

Condensed Value Set – Correctional Facility Details



- Homeless (sheltered or unsheltered) or lacking a long-term (≥ 14 days) housing arrangement
- Private residence (e.g., house, apartment, mobile home, etc.)
- Correctional Facility
 - Federal Prison
 - Juvenile Correctional Facility
 - Local Jail
 - State Prison
 - Other Correctional Facility
- Long Term Care Facility (e.g., ALF, SNF, LTACH)
- Dormitory
- Migrant Worker Housing
- Other Congregate Living Setting (e.g., group home)
- Other
- Unknown

Poll #3 – Residence Type Value Set



What is your preferred value set for "Current Residence Type"?

- Future Standard (16 values, detailed about sheltered/unsheltered homelessness)
- Condensed (9 values, less specific)
 - *If this is chosen, we will discuss splitting up correctional facilities more after this poll*
- Other