

## Reporting Source

This document was developed by the Data Standardization Work Group (DSWG) of the Council of State and Territorial Epidemiologists (CSTE) Surveillance Practice and Implementation Subcommittee (SPIS) as a part of a larger data harmonization effort. It will be published and maintained in a repository on the CSTE website.

More information about the DSWG and data harmonization can be found here: [\[link to DSWG Core Surveillance Project Brief \(pending\)\]](#).

### Background

Providers and laboratories are required to report potential cases of reportable conditions to public health in alignment with state or local regulations. Collecting data on the type of provider or laboratory making the initial report to public health for a case can provide insight into where people are being diagnosed with certain conditions and how to best organize outreach efforts to providers. The Reporting Source data element in the Generic v2 Message Mapping Guide (MMG) for case notifications to CDC is defined as the “type of facility or provider associated with the source of information sent to public health”. Understanding what types of facilities are submitting reports to public health can provide insight into and improve disease reporting.

CDC’s Division of STD Prevention (DSTDP) is the main NNDSS program at CDC using these data. They analyze reporting source data to understand where the case was identified, which helps guide prevention activities, such as screening recommendations and resource allocations at the state and local levels. The [NETSS Implementation Plan](#) used to report cases to DSTDP provides a data element description of: “Setting or health care facility where a person first received diagnosis, treatment or testing for STD or associated syndrome reported in this case report.” This focuses on the setting where the individual was diagnosed, which differs from the Generic v2 MMG’s focus on the facility that submitted information to public health. This distinction is important as the facility submitting information to public health and the diagnosing facility can be the same but may also differ. DSTDP seeks to understand where patients are being seen. This insight helps guide prevention activities, such as screening recommendations.

Other programs at CDC don’t often use information provided within the Reporting Source data element as information about how a case was reported to public health is less actionable. In 2023, the data element “Reporting Source” was populated in less than half of case notifications, and over 85% of the responses were either “Laboratory” (as electronic laboratory reporting (ELR) is a common method of first notification for cases to public health) or “Unknown.”

As Reporting Source is a data element created by public health to capture the type of provider or facility associated with the source of information, there is no directly comparable data element within the United States Core Data for Interoperability (USCDI), ELR, or electronic case reporting (eCR). Information contained within the field of “Facility Type”/ “Location Type” in eCR may aid in identifying the type of response to select as the Reporting Source. Alternatively, the sending facility name or address may be used to map to one of the values for Reporting Source for common reporters via ELR or eCR.

## Core Surveillance Reporting Source Data Elements for Routine Case Notifications

The following data elements were discussed, but consensus was not reached to include them as core surveillance data included in routine case notifications to CDC.

- Reporting Source Type
- Case Identification Source Type

**Table 1. Potential data elements related to Reporting Source discussed by DSWG.**

| Data Element Name               | Data Element Description                                                                                              |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Reporting Source Type           | Type of facility or entity reporting the initial case to public health authorities.                                   |
| Case Identification Source Type | Type of facility or entity where the person first received care (diagnosis, testing, or treatment) for the condition. |

The current definition for Reporting Source as the “Type of facility or provider associated with the source of information sent to Public Health” lacks specificity in meaning, and therefore two distinct concepts were proposed for discussion. Reporting Source Type describes the type of facility or entity reporting the initial case to public health, which is one way Reporting Source is often interpreted. Case Identification Source Type aligns with how STD describes implementation as “where the person first received care (diagnosis, testing, or treatment) for the condition.” Discussion among DSWG members indicated that while most CDC programs do not utilize the Reporting Source variable as it is currently defined in the Generic v2 MMG, there may be utility in a data element like “Case Identification Source Type” that explicitly captures information on where the person first received care. However, identifying where a person first received care for a condition would likely need to come from case interviews, as the provider or facility that first reports the case to public health is not necessarily the same location as where the person *first* received care. Some jurisdictions discussed their current use of the field Ordering Facility within ELR to map Reporting Source for cases reported to DSTDP. Jurisdictions also mentioned that mapping facility name or address data within ELR/eCR to a data element like Reporting Source Type or Case Identification Source Type is labor intensive, requires continuous maintenance, and the same facility name/address may be comprised of multiple options within the Reporting Source value set.

Although discussion highlighted the utility of Case Identification Source Type, when polled, the group supported a core data element of Reporting Source Type (60%) and not of Case Identification Source Type (35%). This may have been influenced by the fact that Reporting Source is already implemented in many systems as a part of the Generic v2 MMG. Based on these discussions and limited utility for other CDC programs, the DSWG does not recommend either of these data elements as core data elements for transmission to CDC. State and local jurisdictions are encouraged to continue to collect the most relevant data for their needs, and CDC programs can consider condition-specific implementation of a similar data element on an as-needed basis.

## Considerations for Potential Future Implementation

While neither data element was recommended for core data collection across all conditions, condition specific implementation would require clarifying the concept being sought, developing a value set to align with that goal, and providing guidance to ensure that how a data element is mapped by jurisdictions aligns with the intent of the program. It is of note that the group compared two potential

value sets for these data elements- the current value set used in the Generic v2 MMG, and a condensed value set containing 15 values (Table 2). When polled, 63% of participants preferred the smaller value set with less granularity, as it is often difficult to distinguish between more granular options from electronic reports (such as types of outpatient facilities, or departments within a hospital). However, some concerns were raised with the smaller value set as Tribal health centers, military facilities, and blood banks were not represented, meaning data for these facility types may be lost. For instance, participants noted that Tribal facilities have unique reporting contexts, and blood banks play a critical role in identifying vector-borne diseases like West Nile virus. If a similar data element is implemented in the future, further work is needed to develop an appropriate value set that balances granularity acceptable for analysis with practicality in data collection.

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**Table 2. Value sets considered for Reporting Source related data elements.**

| <b>Reporting Source Value Set<br/>(Generic v2 MMG)</b> | <b>Suggested Condensed Reporting Source<br/>Type/Case Identification Source Type Value<br/>Set</b> |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Blood Bank                                             | Lab (including hospital and commercial labs)                                                       |
| Correctional Facilities                                | Outpatient (including physician groups, family planning, prenatal care)                            |
| Day care center                                        | Emergency Department (ED)                                                                          |
| Dentist                                                | Inpatient (including labor and delivery)                                                           |
| Drug Treatment Facility                                | Public Health Agency (including clinics)                                                           |
| Emergency Room/Dept                                    | Federal Agency (including Military, Indian Health Service)                                         |
| Family Planning Facility                               | STI Clinic                                                                                         |
| Other Federal Agencies                                 | Registries                                                                                         |
| HIV Care Facility                                      | Vital Statistics                                                                                   |
| HIV Counseling and Testing Site                        | Correctional Facility                                                                              |
| Hospital                                               | Education Facility (including training, schools)                                                   |
| Labor and Delivery                                     | Other source type (specify)                                                                        |
| Laboratory                                             | Unknown                                                                                            |
| Managed Care/HMOs                                      |                                                                                                    |
| Mental Health Provider                                 |                                                                                                    |
| Military                                               |                                                                                                    |
| National Job Training Program                          |                                                                                                    |
| other                                                  |                                                                                                    |
| Other Health Dept Clinic                               |                                                                                                    |
| Other State/Local Agency                               |                                                                                                    |
| Other Treatment Center                                 |                                                                                                    |
| Pharmacy                                               |                                                                                                    |
| Prenatal/Obstetrics Facility                           |                                                                                                    |
| Private physicians' group office                       |                                                                                                    |
| Public Health Clinic                                   |                                                                                                    |
| Data Registries                                        |                                                                                                    |
| Rural Health                                           |                                                                                                    |
| STD Clinic                                             |                                                                                                    |
| School Clinic                                          |                                                                                                    |
| TB Clinic                                              |                                                                                                    |
| Tribal Government                                      |                                                                                                    |
| Indian Health Service                                  |                                                                                                    |
| unknown                                                |                                                                                                    |
| Veterinary Sources                                     |                                                                                                    |
| Vital Statistics                                       |                                                                                                    |