



# NMI Notes



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### Overall Updates

**Reconciliation of 2019 NNDSS Data:** Thank you to the jurisdictions for the hard work you do conducting surveillance, prevention, and intervention activities, particularly this year during the pandemic. Please find below an updated 2019 NNDSS data reconciliation timeline and options for jurisdictions for closing out 2019 NNDSS data at CDC.

- Updated Timeline:
  - **December 7, 2020:** Last day for State/Territorial Epidemiologists to return approved counts.
  - **December 7, 2020:** Finalized 2019 NNDSS database closed at CDC.
  - **May 2021:** Publication of finalized 2019 tables.
- Options for jurisdictions for closing out non-STD 2019 NNDSS data:
  - In mid-November CDC emailed U.S. State and Territorial Epidemiologists that had not approved their final 2019 data and asked them to select one of the following four options for closing out their 2019 NNDSS annual data:
    1. Our 2019 data reconciliation is finished, and we are signing the attached signature tables and e-mailing them back to you now.
    2. We would like to continue updating our 2019 data in order to finalize and sign off on the 2019 data by 12/7/20.
    3. We will not be able to complete the reconciliation process for 2019 data this year. Please include the data you have as of 12/7/20 from my jurisdiction and include a statement or notation in the published 2019 NNDSS annual tables indicating that, due to the pandemic, these data may be incomplete and may not match the data published by our jurisdiction.
    4. Do not publish my 2019 (non-STD) data in the 2019 NNDSS annual tables. Please include a statement or notation indicating that finalized 2019 data for our jurisdiction are not available for publication.

- **PLEASE NOTE: If CDC does not receive responses from jurisdictions by 12/7/20, we will implement option #3 for your data in the 2019 NNDSS annual tables.**

### **COVID-19 Case Surveillance Resources Available on NNDSS Webpage**

- The updated COVID-19 case definition is available on the NNDSS [Surveillance Case Definitions webpage](#).
- The COVID-19 message mapping guide (MMG) is available on the [NNDSS HL7 Case Notification Resource Center](#). For those interested in implementing the COVID-19 MMG, please email the CDC Electronic Data Exchange mailbox at [edx@cdc.gov](mailto:edx@cdc.gov).
- Case notifications for MIS associated with COVID-19 must be initiated in NNDSS. Use event code 11066. If a person meets the [COVID-19 case definition](#) and the [MIS associated with COVID-19 case definition](#), CDC should receive separate case notifications for each condition using different Local Record IDs or National Electronic Telecommunications System for Surveillance (NETSS) Case IDs for each.

### **Core Requested Data Elements for COVID-19**

- Due to the current high volume of cases, CDC is asking its state and local surveillance partners to focus efforts on a core set of data elements for COVID-19 case notifications, all of which can be sent using the generic v2 message.
- These data elements are based on information likely to be available from electronic laboratory reporting. CDC is asking states to focus on these core data elements but encourages states to send more as their resources allow. (For a list of data elements, please see slide 11 in the [August 18 eSHARE presentation](#).)
- Jurisdictions are encouraged to send this information using the generic v2 message but may continue to use the legacy NNDSS messages or the CSV file upload to DCIPHER. For those interested in initiating generic v2 messages for COVID-19 and multisystem inflammatory syndrome (MIS) associated with COVID-19, please email the CDC Electronic Data Exchange mailbox at [edx@cdc.gov](mailto:edx@cdc.gov).
- This does *not* change or reduce the data that state, territorial, and local jurisdictions choose to collect on their own for surveillance, public health investigations, or contact tracing.
- As resources allow, jurisdictions are encouraged to send additional case information through the CSV upload to DCIPHER or through the COVID-19 MMG. For those interested in implementing the COVID-19 MMG, please email the CDC Electronic Data Exchange mailbox at [edx@cdc.gov](mailto:edx@cdc.gov).

### **NMI eSHARE Updates**

- The next NMI eSHARE session is scheduled for Tuesday, 12/15/20, from 3:00 to 4:00 PM ET. The December session topic is using immunization information systems to enhance data collection and reporting during the response.
- Access past eSHARE presentations and details about future events at the [NMI eSHARE website](#).

### **Join a Cohort to Jumpstart Your MMG Implementations!**

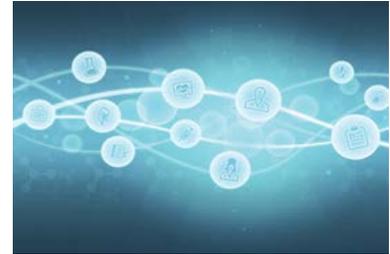
- The NMI Association of Public Health Laboratories Technical Assistance team provides technical assistance to help groups, or *cohorts*, of public health agencies build and implement NNDSS HL7 case notification messages.
- Cohorts of 4–6 public health agencies focusing on the generic v2 and the COVID MMGs will be established.
- APHL and NEDSS Base System (NBS) subject matter experts guide participants through planning, gap analysis, data extraction, HL7 message creation, and validation. At completion, public health agencies will be ready to begin onboarding.

- For those interested in joining a cohort, please email the CDC Electronic Data Exchange mailbox at [edx@cdc.gov](mailto:edx@cdc.gov).

## Production HL7 Case Notification Messages

### Arboviral v1.3

- The updated Arboviral MMG v1.3.1 has been posted on the [NNDSS HL7 Case Notification Resource Center](#). This version includes new value sets for the data elements Race Category (DEM152) and Ethnic Group (DEM155).
- There are 27 jurisdictions in production for arboviral.
- Alaska, Massachusetts, Michigan, South Carolina, and Washington are engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.



### Babesiosis

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.
- There is 1 jurisdiction in production for babesiosis.
- Pilot jurisdiction Wisconsin is engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

### Congenital Syphilis and STD

- MMGs and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
  - CDC expects to post new versions of the guides, which include new data elements and updated value sets, to the NNDSS HL7 Case Notification Resource Center soon.
  - Jurisdictions implementing current versions of the guides will be allowed to onboard with them.
  - Jurisdiction users who have not yet implemented the current versions of the guides should wait until the new versions are released.
- Watch for an email with additional information, including guidance from the STD program on implementation of these guides.
- CDC opened the current versions of the guides for onboarding in January and is working with a set of states that have completed pre-onboarding work.
  - There are 6 pilot jurisdictions in production for STD and CS.
  - Alabama, Kentucky, and Wisconsin are engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

### Coronavirus Disease 2019 (COVID-19)

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- The COVID-19 MMG is open for onboarding, and the first cohort has begun onboarding.
- Kansas and Utah are engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## **Foodborne and Diarrheal Diseases**

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Pilot jurisdictions Oregon and Michigan are engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## **Generic v2**

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 33 jurisdictions in production for generic v2.
- Guam, New Hampshire, West Virginia, and Wyoming are engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## **Healthcare-Associated Infections, Multi-Drug Resistant Organisms (HAI MDRO)**

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.
- There is one jurisdiction in production for HAI MDRO.
- Pilot jurisdiction Colorado is engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## **Hepatitis**

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 23 jurisdictions in production for hepatitis.
- Guam and New Jersey are engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## **Lyme and Tickborne Rickettsial Diseases (TBRD)**

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 2 jurisdictions in production for Lyme and TBRD.
- Pilot jurisdiction Illinois is engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## **Malaria**

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
  - CDC expects to post minor updates to the MMG, artifacts, and an FAQ document soon.
- There are 2 jurisdictions in production for malaria.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## **Mumps and Pertussis**

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There is 1 jurisdiction in production for mumps and pertussis.
- CDC anticipates opening onboarding to additional jurisdictions in 2020.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## **Respiratory Invasive Bacterial Disease**

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).

## Trichinellosis

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.
- There is 1 jurisdiction in production for trichinellosis.
- Pilot jurisdiction Wisconsin is engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## Tuberculosis and Latent Tuberculosis Infection

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Pilot jurisdictions Arizona and Oregon are engaged in onboarding.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## Varicella

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There is 1 jurisdiction in production for varicella.
- CDC anticipates opening onboarding to additional jurisdictions in 2020.
- Please see the chart below, [Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#), for more details.

## Developing HL7 Case Notification Messages

### Bacterial Special Pathogens (Stage I—Draft)

- Prioritization of response activities has delayed the external review comment period to gather jurisdiction feedback.
- CDC expects to post the four MMGs (anthrax, brucellosis, Hansen’s disease, and leptospirosis) for external review in early 2021.

Valid Values	HL7 Message Context	HL7 Data Type
Includes FIPS Codes Country Provinces and Territories	OBX segment with OBX-3=INV503 OBX-5=Value from value Set	CWE
	OBX segment with OBX-3=INV504 OBX-5=String (up to 199 characters)	ST RE

### Carbon Monoxide Poisoning (CO) (Stage II—Pilot Test-ready)

- The CDC program received Office of Management and Budget approval for an additional data element as part of a non-substantive change request.
- The pilot start date has been postponed until January 2021.

### Lead Poisoning (Requirements Analysis)

- No new updates at this time.

### Listeriosis (Stage I—Draft)

- No new updates at this time.

### Measles (Stage III—Final MMG)

- CDC anticipates posting the final guide and artifacts on the [NNDSS HL7 Case Notification Resource Center](#) this fall.

### Rubella and Congenital Rubella Syndrome (Stage III—Final MMG)

- CDC anticipates posting the final guides and artifacts on the [NNDSS HL7 Case Notification Resource Center](#) this fall.

# Resources

- NMI Technical Assistance and Training Resource Center: <https://www.cdc.gov/nmi/ta-trc/>
- NNDSS HL7 Case Notification Resource Center: <https://www.cdc.gov/nndss/case-notification/>
- NMI Notes Monthly News Update: <https://www.cdc.gov/nmi/news.html>
- NMI eSHARE Monthly Webinar: <https://www.cdc.gov/nmi/eshare.html>
- NMI Newsroom: <https://www.cdc.gov/nmi/newsroom.html>
- NMI Internet Site (includes NMI fact sheets and FAQs): <https://www.cdc.gov/nmi/>



Jurisdiction Implementation of NNDSS HL7 Case Notification Messages

■ = Message in Production   
 ■ = Onboarding   
 ■ = Receiving TA   
 ■ = Pilot  
 = Finalized Guide   
 = In Pilot

Jurisdiction	Arboviral	GenVZ	Hepatitis	Congenital Syphilis	STD	Mumps*	Pertussis*	Varicella*	Foodborne Diarrheal Disease*	Lyme/TBRD*	TB/ LTBI*	Malaria*	Trichinellosis*	Babesiosis*	HAI MDRO*	COVID-19*	RIBD*	Rubella*	CRS*	Measles*	
Alabama																					
Alaska																					
Arizona																					
Arkansas																					
California																					
Colorado																					
Connecticut																					
Delaware																					
Florida																					
Georgia																					
Hawaii																					
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New York City																					
North Carolina																					
North Dakota																					
Oregon																					
Pennsylvania																					
Rhode Island																					
South Carolina																					
South Dakota																					
Tennessee																					
Texas																					
Utah																					
Virginia																					
Washington																					
West Virginia																					
Wisconsin																					
Wyoming																					
U.S. Territories																					
Guam																					
Puerto Rico																					

\* These guides are not yet available to non-pilot jurisdictions for implementation.

This chart shows the status of state public health departments that are piloting, receiving technical assistance, onboarding, or in production for HL7 case notification messages developed as part of the NNDSS Modernization Initiative.

## Upcoming Events

- NMI eSHARE; 12/15/20, 3:00PM ET;  
<https://www.cdc.gov/nmi/eshare.html>



**Have questions or feedback on NMI Notes? Email [edx@cdc.gov](mailto:edx@cdc.gov).**

*NMI Notes* provides monthly news updates about the National Notifiable Diseases Surveillance System (NNDSS) Modernization Initiative (NMI). It is a collaboration by the Centers for Disease Control and Prevention (CDC), Council of State and Territorial Epidemiologists (CSTE), and Association of Public Health Laboratories (APHL).

If a colleague forwarded this issue to you, we encourage you to [subscribe at this link](#) to ensure that you receive future issues of *NMI Notes*.

***Centers for Disease Control and Prevention | Council of State and Territorial  
Epidemiologists | Association of Public Health Laboratories***

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[www.cste.org](http://www.cste.org)