



NNDSS

National Notifiable Diseases
Surveillance System

NMI Notes



OCTOBER 2020

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Overall Updates

NNDSS 2019 Data Reconciliation Underway

- Jurisdictions that were unable to complete the last transmission/update of their National Notifiable Diseases Surveillance System (NNDSS) 2019 final data by September 30, 2020, are asked to contact the CDC NNDSS team (Deborah Adams, Diana Onweh, or Alan Schley) as soon as possible to coordinate finalization of the data.
- The last day for State/Territorial Epidemiologists to sign off is October 30, 2020.

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 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.
- **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.
- 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 message mapping guide (MMG). For those interested in implementing the COVID-19 MMG, please email the CDC Electronic Data Exchange mailbox at edx@cdc.gov.

NMI eSHARE Updates

- The next NMI eSHARE session is scheduled for Tuesday, 10/20/20, from 3:00 to 4:00 PM ET. Please note that CDC is limiting presentation time to the first 30 minutes with additional time for questions to be mindful of everyone's time during the response. The October session topic will be announced at a later date.
- 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 (APHL) 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 generic v2 or COVID cohort, please email the CDC Electronic Data Exchange mailbox at 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.

- Pilot jurisdictions Michigan and Wisconsin are 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 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 is 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. **North Carolina is the latest jurisdiction in production for generic v2. Congratulations, North Carolina!**
- Guam, New Hampshire, and West Virginia 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

- 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.
- **Michigan is the first jurisdiction in production for HAI MDRO. Congratulations, Michigan!**
- 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. **Puerto Rico is the latest jurisdiction in production for Hepatitis. Congratulations, Puerto Rico!**
- 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. **Michigan is the latest jurisdiction in production for Lyme and TBRD. Congratulations, Michigan!**
- 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.
- Pilot jurisdictions Michigan and Wisconsin are 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 jurisdiction Arizona is 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.
- The four MMGs (anthrax, brucellosis, Hansen’s disease and leptospirosis) will be posted for external review in early 2021.

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.

Valid Values	HL7 Message Context	HL7 Data Type
<ul style="list-style-type: none"> • FIPS Codes • Country • Codes for Provinces and States 	<ul style="list-style-type: none"> • OBX segment with OBX-3=INV503 • OBX-5=Value from value Set 	CWE
	<ul style="list-style-type: none"> • OBX segment with OBX-3=INV504 • OBX-5=String (up to 199 characters) 	ST RE

Resources

- NMI Technical Assistance and Training Resource Center: <https://www.cdc.gov/nmi/ta-trc/>
- NNDSS HL7 Case Notification Resource Center: <https://wwwn.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	GenV2	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																				
Idaho																				
Illinois																				
Indiana																				
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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; 11/17/20, 3:00PM ET;
<https://www.cdc.gov/nmi/eshare.html>



Have questions or feedback on NMI Notes? Email 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***

Write: edx@cdc.gov Visit: www.cdc.gov/nmi

www.cste.org