

NMI Notes

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February 2021

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Overall Updates

NDSS Annual Data Reconciliation

- 2019 Data:
 - CDC closed the NNDSS database for updates to 2019 data on 12/10/20.
- 2020 Data:
 - CDC recognizes the demands of the pandemic on jurisdictions and CDC resources; therefore, the timeline for the reconciliation of the 2020 data is delayed, compared to a non-pandemic year.
 - Data reconciliation will be done using the Message Validation, Processing, and Provisioning System (MVPS) Portal.
 - Jurisdictions will view and extract the line list and aggregate tables from MVPS for all NNDSS case notification methods (HL7, National Electronic Telecommunications System for Surveillance [NETSS], NEDSS Base System [NBS] master message).
 - Jurisdictions can work at their own pace (but must still meet the established deadline).
 - State Epidemiologist sign-off process will be in MVPS.




- Timeline:
 - **June 2021:** Jurisdictions receive training and have access to line lists and aggregate tables in MVPS.
 - **September 30, 2021:** Jurisdiction deadline for sign-off on final data.

COVID-19 Case Surveillance Resources Available on NNDSS Webpage

- The updated coronavirus disease 2019 (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 Technical 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 multisystem inflammatory syndrome (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 NETSS Case IDs for each.
- For those interested in implementing the COVID-19 MMG, please email the CDC Electronic Data Exchange mailbox at edx@cdc.gov.

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 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 MMG.

COVID-19 Vaccination Information

- CDC encourages jurisdictions to send vaccine history information in coronavirus disease 2019 (COVID-19) case notifications using these options:
- full COVID-19 message mapping guide (MMG),
- generic v2 MMG plus vaccine history from COVID-19 MMG, or
- DCIPHER/HHS Protect CSV upload using the updated January 2021 CSV template.
- Find resources at the [NNDSS Technical Resource Center](#).

COVID-19 Value Sets Updated

- CDC reminds jurisdictions to update their COVID-19 case notification value sets. CDC expects frequent updates for certain value sets.
- Updated value sets include:
 - [PHVS_VaccineType_NND](#),
 - [Manufacturers of Vaccines \(MVX\)](#), and
 - [PHVS_LabTestType_COVID-19](#).

NNDSS eSHARE Updates

- The next NNDSS eSHARE session is scheduled for Tuesday, 2/23/21, from 3:00 to 4:00 PM ET. The February eSHARE topic will be "NNDSS Data Processing Redesign and Hot Topic: Vaccine History in Case Notifications."
- Access past eSHARE presentations at the [NNDSS eSHARE website](#).

Join a Cohort to Jumpstart Your MMG Implementations!

- The NNDSS 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 have been established.
- APHL and 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.

Production HL7 Case Notification Messages

Arboviral v1.3

- The updated arboviral MMG v1.3.1 has been posted on the [NNDSS Technical Resource Center](#).
- There are 28 jurisdictions in production for arboviral. **Massachusetts is the latest jurisdiction in production for arboviral. Congratulations, Massachusetts!**
- Alaska, 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 Technical 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

- CDC posted new versions of the guides, which include new data elements and updated value sets, to the [NNDSS Technical Resource Center](#).
 - Jurisdictions implementing previous versions of the guides will be allowed to onboard with them.
 - Jurisdictions who have not yet implemented the STD or CS guides should use the newly released versions.
- Watch for an email with additional information, including guidance from the STD program on implementation of these guides.
- There are 6 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

- The MMG and artifacts are available on the [NNDSS Technical Resource Center](#).
- Due to the evolving nature of COVID-19 vaccines and lab testing, the value sets that are affected will be updated regularly.
 - The COVID-19 case notification vocabulary view in PHIN VADS will be updated routinely to reflect these changes.
- The COVID-19 MMG is open for onboarding, and the first cohort has begun onboarding.
- **There is one jurisdiction in production for the COVID-19 MMG.**
- Utah is engaged in onboarding the COVID-19 MMG.
- 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 Technical 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 Technical 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 Technical 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 Technical 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 Technical 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 Technical Resource Center](#).
 - CDC expects to post minor updates to the MMG and artifacts and an FAQ document by spring 2021.
- 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 Technical Resource Center](#).
- There is 1 jurisdiction in production for mumps and pertussis.
- 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 Technical Resource Center](#).

Trichinellosis

- The MMG and artifacts are available on the [NNDSS Technical 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 Technical 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 Technical Resource Center](#).
- There is 1 jurisdiction in production for varicella.
- 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 mid-2021.

Valid Values	HL7 Message Context	HL7 Data Type
FIPS Codes Country codes for Provinces and Territories	OBX segment with OBX-3=INV503 OBX-5=Value from value	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 pilot start date has been postponed.

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 Technical Resource Center](#) in 2021.

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

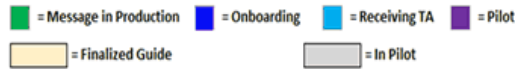
- CDC anticipates posting the final guides and artifacts on the [NNDSS Technical Resource Center](#) in 2021.

Resources

- NNDSS Technical Resource Center:
<https://www.cdc.gov/nndss/trc/>
- NNDSS Message Mapping Guides:
<https://ndc.services.cdc.gov/message-mapping-guides/>
- NNDSS eSHARE Monthly Webinar:
<https://www.cdc.gov/nndss/trc/onboarding/eshare.html>
- NNDSS News:
<https://www.cdc.gov/nndss/trc/news/>



Jurisdiction Implementation of NNDSS HL7 Case Notification Messages



Jurisdiction	Arboviral	GenV2	Hepatitis	Congenital Syphilis	STD	COVID-19	Mumps*	Pertussis*	Varicella*	Foodborne Diarrheal Disease*	Lyme/TBRD*	TB/LTBI*	Malaria*	Trichinellosis*	Babesiosis*	HAI MDRO*	RIBD*	Rubella*	CRS*	Measles*
Alabama																				
Alaska																				
Arizona																				
Arkansas																				
California																				
Colorado																				
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North Carolina																				
North Dakota																				
Oregon																				
Pennsylvania																				
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South Carolina																				
South Dakota																				
Tennessee																				
Texas**																				
Utah																				
Vermont**																				
Virginia																				
Washington																				
West Virginia																				
Wisconsin																				
Wyoming																				
U.S. Territories																				
Guam																				
Puerto Rico																				

* These guides are not yet available to non-pilot jurisdictions for implementation.
 ** These jurisdictions are onboarding for GenV2 COVID only.

View Larger


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

Upcoming Events

- NNDSS eSHARE; 2/23/21, 3:00PM ET;
<https://www.cdc.gov/nndss/trc/onboarding/eshare.html>



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/nndss/
www.cste.org 

*Ready to request technical assistance or onboarding?
Please contact edx@cdc.gov for more information.*

*Have questions or feedback on *NMI Notes*?
Email edx@cdc.gov.*

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