



NMI Notes



JULY 2020

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Overall Updates

COVID-19 MMG Now Available

- The NNDSS team developed a Coronavirus Disease 2019 (COVID-19) message mapping guide (MMG) that is now available on the [NNDSS HL7 Case Notification Resource Center](#).
- It is based on the [COVID-19 case report form](#) (CRF), builds on the NNDSS generic v2 MMG, incorporates aspects of a draft emergency response MMG, and reuses items from other finalized guides where appropriate.
- The external review period for the draft MMG closed on 6/11/20. Thank you to everyone who provided comments!
- A rapid onboarding process is in progress for the COVID-19 MMG.
- To join a cohort for technical assistance with the COVID-19 MMG implementation, please email the CDC Electronic Data Exchange mailbox at edx@cdc.gov.
- Jurisdictions may use Coronavirus Aid, Relief, and Economic Security Act funding (Epidemiology and Laboratory Capacity supplement) if they need resources to implement the new guide.

COVID-19 Case Definition Posted on NNDSS Page

- The COVID-19 case definition is available on the NNDSS Surveillance Case Definitions [webpage](#).
- Please use the case definition immediately for all 2020 case notifications being sent to NNDSS.
- Information regarding the epidemiology of COVID-19 and public health guidance can be found at <https://www.cdc.gov/coronavirus/2019-ncov>.
- Questions regarding NNDSS submissions can be sent to the CDC Electronic Data Exchange mailbox at EDX@cdc.gov.

Sending Case Notifications for Multisystem Inflammatory Syndrome Associated with COVID-19

- **Case notifications for multisystem inflammatory syndrome (MIS) associated with COVID-19 must be initiated in NNDSS.** The NNDSS data will then be populated into DCIPHER to allow jurisdictions to enter supplemental data that are not included in the generic/core NNDSS messages.
- The preferred method for sending the NNDSS MIS case notification is the HL7 generic v.2 MMG. Other allowed methods are file formats for National Electronic Telecommunications System for Surveillance (NETSS), NEDSS Base System (NBS), and the HL7 generic v.1 MMG.
- The HL7 Local Record ID (OBR-3) or the NETSS Case ID will be used to identify the case in DCIPHER to append additional condition-specific information (e.g., clinical data, laboratory results). **It is important that the HL7 Local Record ID (OBR-3) or the NETSS Case ID be included with any additional data for case information sent to CDC.** Jurisdictions can submit the completed case report forms or de-identified medical records by using one of the following methods:
 - Use the MIS DCIPHER module via direct data entry or by uploading a CSV file.
 - Upload the XML submission into REDCap specifically created for MIS.
 - Send completed MIS case report forms or de-identified medical records via secure file transfer.
- **CDC has assigned an event code, 11066, for MIS associated with COVID-19** for use in case notifications through NNDSS. Jurisdictions should update their systems to include this condition and event code in the file used to send core or generic data elements to CDC. 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.
- [Release 3](#) of the 2020 NNDSS Event Code List has been posted to the HL7 Case Notification Resource Center on the NNDSS website, along with an update to the [PHIN VADS value set for this release](#). Release 3 includes event codes and related information for COVID-19 and MIS associated with COVID-19.

NMI eSHARE Updates

- The next NMI eSHARE session is scheduled for Tuesday, 7/28/20, 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 July session topic will be "Onboarding the COVID-19 HL7 Case Notification Message."
- Access past eSHARE presentations and details about future events at the [NMI eSHARE website](#).

NNDSS 2019 Data Reconciliation Process Postponed

- The last day to transmit/update NNDSS 2019 final data is 9/30/20.
- The last day for State/Territorial Epidemiologists to sign-off is 10/30/20.

Join a Cohort to Jumpstart Your MMG Implementations!

- The NMI 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 focus on specific message mapping guides.
- APHL 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

- CDC expects to post a new version of the arboviral guide (v1.3.1), which includes updated value sets for race and ethnicity, to the [NNDSS HL7 Case Notification Resource Center](#) in July.
- There are 26 jurisdictions in production for arboviral.
- Massachusetts, New Jersey, 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 values sets, to the NNDSS HL7 Case Notification Resource Center in July.
 - 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 4 pilot jurisdictions in production for STD and CS.
 - Alabama, Michigan, South Carolina, 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 final version of the COVID-19 MMG is now available on the [NNDSS HL7 Case Notification Resource Center](#).

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 32 jurisdictions in production for generic v2.
- Guam, New Hampshire, North Carolina, 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.
- Pilot jurisdictions Colorado and Michigan are 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 21 jurisdictions in production for hepatitis.
- Guam, Nebraska, New Jersey, and Puerto Rico 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

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Pilot jurisdictions Idaho, Illinois, and Michigan are 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](#).
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.
- 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](#).
 - CDC expects to post minor updates to the MMG (v3.0.2) and artifacts soon.
- 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 (Requirements Analysis)

- CDC received Office of Management and Budget (OMB) approval for new data elements for brucellosis, anthrax, leptospirosis, and Hansen's disease.
- COVID-19 support issues have delayed the external review comment period to gather jurisdiction feedback. CDC will provide more details as soon as they are available.

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

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

- CDC completed a final internal review of the pilot test-ready version of the MMG, test scenarios, and test messages.
- The CDC program submitted an additional data element for inclusion in an OMB 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 summer.

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 summer.

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*	RIBD*	Rubella*	CRS*	Measles*
Alabama																			
Alaska																			
Arizona																			
Arkansas																			
California																			
Colorado																			
Connecticut																			
Delaware																			
Florida																			
Georgia																			
Hawaii																			
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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; 7/28/20, 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

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