



NNDSS

National Notifiable Diseases
Surveillance System

NMI Notes



APRIL 2020

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Overall Updates

Reporting of Coronavirus Disease 2019 (COVID-19) through NNDSS:

- Many thanks to all the jurisdictions for your efforts to respond to COVID-19. The NNDSS team is here to support you and assist with transmitting your case notification data to CDC. Our regular guidance follows below. Please contact the CDC Electronic Data Exchange mailbox at edx@cdc.gov for technical support and with any questions.
- Jurisdictions should **send COVID-19 case notifications through NNDSS**.
- CDC assigned a **new event code, 11065**, for COVID-19 cases submitted through NNDSS. Event code 11065 was re-named COVID-19 to maintain consistency with the World Health Organization's updated naming convention.
- Basic case information should be sent by using HL7 Generic v.2 Message Mapping Guide, National Electronic Telecommunications System for Surveillance (NETSS), NEDSS Base System (NBS) master message, or HL7 Generic v.1 Message Mapping Guide. Additional condition-specific information (e.g., clinical data, laboratory results, travel history) will be collected through other methods.
- To support linkage of NNDSS case notifications to data collected through the other methods:
 - Please **include CDC COVID-19 case identifier** in comment field in case notifications.
 - Please include the **HL7 Local Record ID (OBR-3) or the NETSS Case ID on all supplemental information** provided to CDC.
- Information regarding the epidemiology of COVID-19 and public health guidance can be found [here](#).

SAMS NETSS Secure File Transfer Migrating to SAMS Secure Data eXchange:

- For jurisdiction users who deliver NETSS files via CDC Secure Access Management Services (SAMS), the upload process changed on 3/26/20. The SAMS team updated

infrastructure, which requires users to upload their NETSS files through a different interface, the SAMS Secure Data eXchange (SAMS SDX).

- CDC emailed documentation on the new NETSS file upload process to NETSS senders in March; this documentation also is available on the NNDSS website under “[Downloads and Resources](#).” Please contact edx@cdc.gov with questions.
- You also may access the [NMI eSHARE archives](#) for the 3/17/2020 and 2/18/20 eSHARE presentations and webinar recordings that provide more information about this change.

NMI eSHARE Updates

- The next NMI eSHARE session is scheduled for Tuesday, 4/21/20, from 3:00 to 3:30 PM ET. Please note that CDC is changing the duration of the session to 30 minutes to be mindful of everyone’s time during the response. April will cover NNDSS support of the COVID-19 response and provide an update on the 2019 NNDSS data reconciliation process.
- Access past eSHARE presentations and details about future events at the [NMI eSHARE website](#).

Additional Guides Expected to Open for Onboarding in 2020 (contingent on response activities)

- CDC opened sexually transmitted diseases (STD) and congenital syphilis (CS) MMGs for onboarding in January, starting with a few jurisdictions that had already completed preparation work. Watch for an email with additional information, including guidance from the STD program on implementation of these guides.
- CDC opened the malaria MMG for onboarding, beginning with the pilot states. When the demands of the COVID response decrease, more information about the guide will be presented on an eSHARE call.
- CDC expects to open 11 additional guides for onboarding in early 2020:
 - mumps
 - pertussis
 - varicella
 - tuberculosis (TB) and latent TB infection (LTBI)
 - babesiosis
 - trichinellosis
 - Lyme and tickborne rickettsial diseases (Lyme/TBRD)
 - healthcare-associated infections multi-drug resistant organisms (HAI MDRO)
 - foodborne and diarrheal diseases (FDD)
 - respiratory invasive bacterial diseases (RIBD).
- Several NNDSS HL7 message mapping guides—generic v2, arboviral, hepatitis, and malaria—are currently open for general onboarding; access them at the [NNDSS HL7 Case Notification Resource Center](#).

Join a Cohort to Jumpstart Your MMG Implementations!

- The NMI APHL Technical Assistance team is launching 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 will focus on specific message mapping guides.
- APHL subject matter experts will 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 MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 24 jurisdictions in production for arboviral.
- Indiana, Louisiana, 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 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](#).
 - **Please note that new versions of the STD and CS guides will be available soon.**
 - **Jurisdictions implementing current versions of the guides will be allowed to onboard with them.**
 - **Jurisdictions who have not yet implemented the current versions of the guides should wait until the new versions are released in late spring/early summer.**
- 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 3 pilot jurisdictions in production for CS. **North Carolina is the latest jurisdiction in production for STD. Congratulations, North Carolina!**
 - Alabama, Michigan, North Carolina (CS), South Carolina, and Wisconsin are engaged in onboarding.
 - Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for more details.
 - Watch for an email with additional information, including guidance from the STD program on implementation of these guides.

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 31 jurisdictions in production for generic v2.
- Guam, Indiana, 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.
- 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 20 jurisdictions in production for hepatitis.
- Guam, Nebraska, New Jersey, Puerto Rico, and Rhode Island 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 Michigan and Illinois 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 is 1 jurisdiction in production for malaria.
- Michigan is engaged in onboarding.
- 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](#).
- CDC anticipates opening onboarding to additional jurisdictions in early 2020.
- Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for more details.

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 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](#).
 - CDC expects to post minor updates to the MMG (v 3.0.2) 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](#).
- CDC anticipates opening onboarding to additional jurisdictions in early 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 created updated Office of Management and Budget (OMB) requests for new data elements identified by the CDC program as they reviewed the draft versions of the MMGs for brucellosis, anthrax, leptospirosis, and Hansen’s disease.
- CDC programmatic staff deployments to support COVID-19 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
Country FIPS Codes	OBX segment with OBX-3=INV503	CWE
Country codes for Provinces and States	OBX-5=Value from value Set	
	OBX segment with OBX-3=INV504	ST
	OBX-5=String (up to 199 characters)	RE

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

- The CDC program has reviewed the pilot test-ready version of the MMG.
- CDC has updated the MMG with the new data element prioritization schema; the guide and a supplemental guidance document are undergoing final internal review.

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 to the [NNDSS HL7 Case Notification Resource Center](#) in April.

Respiratory Invasive Bacterial Disease (Stage III—Final MMG)

- CDC anticipates posting the final guide and artifacts to the [NNDSS HL7 Case Notification Resource Center](#) in April.

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](#) in April.

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*	TE/ 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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Pennsylvania																			
Rhode Island																			
Puerto Rico																			
South Carolina																			
South Dakota																			
Tennessee																			
Texas																			
Utah																			
Virginia																			
Washington																			
West Virginia																			
Wisconsin																			
Wyoming																			
U.S. Territories																			
Guam																			

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

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

- NMI eSHARE; 4/21/20, 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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