



NMI Notes



MARCH 2020

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Table of Contents

[Overall Updates](#)

[Production HL7 Case Notification Messages](#)

[Developing HL7 Case Notification Messages](#)

[Resources](#)

[Upcoming Events](#)

Overall Updates

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

- For jurisdiction users who deliver National Electronic Telecommunications System for Surveillance (NETSS) files via CDC Secure Access Management Services (SAMS), the upload process will change starting 3/26/20. The SAMS team is updating infrastructure, which will require users to upload their NETSS files through a different interface, the SAMS Secure Data eXchange (SAMS SDX).
- Please see the [NMI eSHARE archives](#) for the 2/18/20 eSHARE presentation and webinar recording that provide more information about this change. In addition, CDC will discuss this change and provide another opportunity for questions on the 3/17/20 eSHARE call; please see below for more details about the March eSHARE.
- CDC expects to email documentation on the new NETSS file upload process to NETSS senders at least two weeks prior to the cutover date of 3/26/20.

Reporting of Coronavirus Disease 2019 through NNDSS:

- Jurisdictions should **send Coronavirus Disease 2019 (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 NETSS, NEDSS Base System (NBS), HL7 Generic v.1 Message Mapping Guide, or HL7 Generic v.2 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 the **HL7 Local Record ID (OBR-3) or the NETSS Case ID** on all supplemental information provided to CDC.
- Please **include CDC COVID-19 case identifier** in case notifications.
- Information regarding the epidemiology of COVID-19 and public health guidance can be found [here](#).

NMI eSHARE Updates

- The next NMI eSHARE session is scheduled for Tuesday, 3/17/20, at 3:00 PM ET and will cover the NNDSS data reconciliation process for 2020 and changes to SAMS.
- Access past eSHARE presentations and details about future events at the [NMI eSHARE website](#).

Additional Guides Expected to Open for Onboarding in 2020

- CDC opened sexually transmitted diseases (STD) and congenital syphilis (CS) MMGs for general 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 expects to open 11 additional guides for onboarding in early 2020:
 - mumps
 - pertussis
 - varicella
 - tuberculosis (TB) and latent TB infection (LTBI)
 - babesiosis
 - trichinellosis
 - malaria
 - 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).
- Three NNDSS HL7 message mapping guides—generic v2, arboviral, and hepatitis—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, New Jersey, 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 general onboarding in January and is working with a set of states that have completed pre-onboarding work.
 - There are 3 pilot jurisdictions in production for STD and CS.
 - Alabama, Michigan, North Carolina, and South Carolina 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 jurisdiction 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. **Kentucky and Rhode Island are the latest jurisdictions in production. Congratulations, Kentucky and Rhode Island!**
- Indiana 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

- CDC posted the final version of the MMG on the [NNDSS HL7 Case Notification Resource Center](#) on 1/22/20.
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.
- Pilot jurisdiction Colorado is engaged in onboarding.

Hepatitis

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 20 jurisdictions in production for hepatitis.
- 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)

- The CDC programs are reviewing the draft version 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 OBX-5=String (up to 199 characters)	ST 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 new data element prioritization schema, and the guide is undergoing 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 is updating the MMG with new data element priority schema and expects to post the final guide and artifacts on the [NNDSS HL7 Case Notification Resource Center](#) in March.

Respiratory Invasive Bacterial Disease (Stage III—Final MMG)

- CDC is reviewing the MMG and artifacts and expects to post them on the [NNDSS HL7 Case Notification Resource Center](#) in March.

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

- CDC is updating the MMG with new data element priority schema and expects to post the final guides and artifacts on the [NNDSS HL7 Case Notification Resource Center](#) in March.

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																			
Idaho																			
Illinois																			
Indiana																			
Iowa																			
Kansas																			
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Nevada																			
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New Jersey																			
New York																			
New York City																			
North Carolina																			
North Dakota																			
Oregon																			
Pennsylvania																			
Rhode Island																			
Puerto Rico																			
South Carolina																			
South Dakota																			
Tennessee																			
Texas																			
Utah																			
Virginia																			
Washington																			
West Virginia																			
Wisconsin																			
Wyoming																			

* 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; 3/17/20, 3:00PM ET;
<https://www.cdc.gov/nmi/eshare.html>
- CSTE Annual Conference; 6/28/20–7/2/20
<https://www.csteconference.org/>



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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