



# NMI Notes



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### Overall Updates

#### Reporting of 2019 Novel Coronavirus (2019-nCoV) Through NNDSS:

- Jurisdictions should **begin sending 2019-nCoV case notifications through NNDSS**.
- CDC assigned a **new event code, 11065**, for 2019 novel coronavirus cases submitted through NNDSS.
- Basic case information should be sent by using National Electronic Telecommunications System for Surveillance (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.
- Information regarding the epidemiology of 2019-nCoV and public health guidance can be found at <https://www.cdc.gov/coronavirus/2019-ncov>.

#### NMI eSHARE Updates

- CDC canceled the January 21 NMI eSHARE call to allow participation in the CSTE-hosted 2019-nCoV response call.
  - The January eSHARE slides will be available soon on the [NMI eSHARE web page](#).
  - The presentation includes highlights from the [2020 State Epidemiologist Letter](#):
    - updates to case definitions for nine conditions: acute hepatitis C, chronic hepatitis C, legionellosis, pertussis, plague, spotted fever rickettsiosis, acute flaccid myelitis, and yersiniosis and
    - changes to the event code list: removal of carbapenem resistant *Enterobacteriaceae* (CRE) and carbapenem resistant *Acinetobacter baumannii* and addition of blastomycosis.

- The presentation also gives helpful information on the message mapping guide (MMG) value sets that have been updated.
- CDC encourages jurisdictions that did surveillance for *C. auris* or carbapenemase producing CRE in 2019 to send their data.
- The next NMI eSHARE session will be held on Tuesday, 2/18/20, at 3:00 PM ET; the topic will be announced soon.
- 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](#).

### **MQF Retires with Updates to METS**

- CDC retired the Message Quality Framework (MQF) application on 1/6/20.
- All MQF services are now provided within the [Message Evaluation and Testing Service](#) (METS).

### **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](mailto:edx@cdc.gov).

### **SAMS Access Reminder**

- The NMI team encourages all jurisdictions to complete the Secure Access Management Services (SAMS) proofing process and confirm their access with the MVPS support team.
- More information about SAMS access and training may be found on the [NMI website](#).

## 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. **Montana is the latest jurisdiction in production. Congratulations, Montana!**
- 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

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 3 pilot jurisdictions in production for STD and CS. Pilot jurisdictions Michigan and North Carolina are engaged in onboarding.
- CDC opened these guides for general onboarding in January and is working with a set of states that have completed pre-onboarding work. Watch for an email with additional information, including guidance from the STD program on implementation of these guides.
- 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 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 29 jurisdictions in production for generic v2. **Pennsylvania is the latest jurisdiction in production. Congratulations, Pennsylvania!**
- Indiana, Kentucky, and Rhode Island 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.

## Hepatitis

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 18 jurisdictions in production for hepatitis. **Iowa is the latest jurisdiction in production. Congratulations, Iowa!**
- Delaware, Nebraska, New Jersey, Puerto Rico, Rhode Island, and Utah 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](#).
- **Congratulations to Idaho, the first pilot jurisdiction in production for the Malaria MMG!**
- Please use this guide to begin implementing your case notification messages in preparation for 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](#).
- Due to work on other MMGs from this 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](#).
- Due to work on other MMGs from this 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 MMG (brucellosis, anthrax, leptospirosis, and Hansen's disease).
- CDC expects to open the external review comment period for the MMG in early February.

### Carbon Monoxide Poisoning (CO) (Stage I—Draft)

- The CDC program has reviewed the pilot test-ready version of the MMG.
- CDC is updating the data element prioritization schema for the MMG; when this is complete, the guide may proceed to the piloting phase.

### Lead Poisoning (Requirements Analysis)

- No new updates at this time.

### Listeriosis (Stage I—Draft)

- No new updates at this time.

### Measles (Stage II—Pilot Test-ready)

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

### Respiratory Invasive Bacterial Disease (Stage III—Final MMG)

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

### Rubella and Congenital Rubella Syndrome (Stage II—Pilot Test-ready)

- CDC is finalizing the MMGs and artifacts and expects to post them on the [NNDSS HL7 Case Notification Resource Center](#) in early February.

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

## Resources

- NMI Technical Assistance and Training Resource Center: <https://www.cdc.gov/nmi/ta-trc/>
- NNDSS HL7 Case Notification Resource Center: <https://www.nndss.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/LTB*	Malaria*	Trichinellosis*	Babesiosis*	HAI MDRO*	RIBD*	Rubella*	CRS*	Measles*
Alabama																			
Alaska																			
Arizona																			
Arkansas																			
California																			
Colorado																			
Connecticut																			
Delaware																			
Florida																			
Georgia																			
Hawaii																			
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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; 2/18/20, 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](mailto: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](mailto:edx@cdc.gov) Visit: [www.cdc.gov/nmi](http://www.cdc.gov/nmi)

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