# NMI Notes

CDC · CSTE · APHL

## NNDSS
National Notifiable Diseases Surveillance System

AUGUST 2019

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## Overall Updates

**Update to 2019 Event Code List Released**
- CDC posted release 3 of the 2019 full and generic v2 only event code lists to the [Message Mapping Guide (MMG) Related Documentation Section of the HL7 Case Notification Resource Center](#).
- The list of new conditions to the full 2019 event code list is the following:
  - *Candida auri*s, clinical (50263)
  - *Candida auris*, colonization/screening (event code 50264)
  - Carbapenemase-Producing Carbapenem-Resistant *Enterobacteriaceae* (CP-CRE) (event code 50244)
  - Carbon Monoxide Poisoning (32016)
  - Respiratory Syncytial Virus-Associated Deaths (11646)
  - Enterotoxigenic E.coli (ETEC) (11566).
- The list of new Generic v2 only conditions is the following:
  - *Candia auris,* clinical (event code 50263)
  - *Candida auris*, colonization/screening (event code 50264)
  - Carbapenemase-Producing Carbapenem-Resistant *Enterobacteriaceae* (CP-CRE) (event code 50244)
  - Carbon Monoxide Poisoning (32016)
  - Respiratory Syncytial Virus-Associated Deaths (11646).

**Missed the 2019 CSTE Annual Conference? Here's What You Need To Know**
- Key takeaway messages from NNDSS/NMI-related sessions include the following:
  - By December 2019, CDC expects to be receiving data by using new HL7 message mapping guides for all nationally notifiable diseases processed by NNDSS, plus 26 additional conditions.

- o CDC recognizes that jurisdiction implementation of the messages requires significant effort and will take longer than expected.
- o CDC is improving efficiency of systems and enhancing tools to support jurisdictions and CDC programs.
  - ▪ CDC is moving processing of the National Electronic Telecommunications System for Surveillance messages, old HL7 messages, and NEDSS Base System Master Message into the Message Validation, Processing, and Provisioning System (MVPS), which will show all cases in the MVPS Dashboard:
    - • MVPS Dashboard will provide counts and show which records are included in weekly/annual statistics to facilitate reconciliation.
    - • Customizable features will help users better manage and resolve errors and warnings.
  - ▪ CDC is redesigning the production of weekly and annual statistics to make the process more transparent.
- o CDC is seeking jurisdiction input into a vision for the future of case-based surveillance.
- o Please contact Lesliann Helmus, associate director for surveillance, CDC Division of Health Informatics and Surveillance, at lth7@cdc.gov with questions or feedback.
- The presentation and webinar recording are now available from the July 16 NMI eSHARE, which featured additional highlights from the 2019 CSTE Annual Conference related to NNDSS and case-based surveillance. Materials may be accessed on the NMI eSHARE website.
- Recordings from two NNDSS/NMI-related sessions at the 2019 CSTE Annual Conference are available on the CSTE website:
  - o NMI Progress and Future Directions
  - o Enhancements to MVPS.

**NMI eSHARE Updates**
- The next NMI eSHARE session will be held on Tuesday, 8/20/19, at 3:00 PM ET. The webinar will cover what states need to know about implementing the new tuberculosis and latent tuberculosis infection HL7 case notification message.
- Access past eSHARE presentations and details about future events at the NMI eSHARE website.

**Join a Cohort to Jumpstart Your MMG Implementations!**
- The NMI APHL Technical Assistance team is launching a new type of 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.

**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 19 jurisdictions in production for arboviral.
- Alabama, Alaska, Illinois, Indiana, Nevada, New York City, Washington, and Wyoming are engaged in onboarding.
- Please see the chart below, "Jurisdiction Implementation of NNDSS HL7 Case Notification Messages," for more details.

**Congenital Syphilis (CS) and STD**
- The MMG and artifacts are available on the NNDSS HL7 Case Notification Resource Center.
- Pilot jurisdictions Connecticut, Michigan, and North Carolina are engaged in onboarding.
- CDC is working on a schedule for states waiting to onboard and will provide details in future status updates.
- The STD v1.0.1 MMG and associated artifacts were posted on the HL7 Resource Center on 7/22/19. The new version of the MMG includes an updated value set. The STD v1.0 MMG is still supported for onboarding purposes.
- Please see the chart below, "Jurisdiction Implementation of NNDSS HL7 Case Notification Messages," for details.

**Generic v2**
- The MMG and artifacts are available on the NNDSS HL7 Case Notification Resource Center.
- There are 27 jurisdictions in production for generic v2.
- Indiana, 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.

**Hepatitis**
- The MMG and artifacts are available on the NNDSS HL7 Case Notification Resource Center.
- There are 17 jurisdictions in production for hepatitis.
- Nevada and Rhode Island are 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.
- Due to work on measles outbreaks and 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.

**Varicella**
- The MMG and artifacts are available on the NNDSS HL7 Case Notification Resource Center.
- Due to work on measles outbreaks and 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

**Babesiosis (Stage III—Final MMG)**
- CDC posted the MMG and artifacts on the [NNDSS HL7 Case Notification Resource Center](#) on 7/22/19.
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.

**Bacterial Special Pathogens (Requirements Analysis)**
- CDC is developing an MMG for brucellosis, anthrax, leptospirosis, and Hansen's disease.
- The CDC MMG team and CDC program began holding weekly MMG development meetings on 7/10/19.

**Carbon Monoxide Poisoning (CO) (Requirements Analysis)**
- CDC posted a draft CO MMG for external review to the HL7 Case Notification Resource Center on 7/25/19. The external review period is 7/25/19 to 8/22/19.
- CDC is preparing for the CSTE webinar to gather jurisdiction feedback on the draft MMG. The webinar is scheduled for 8/8/19. Details will be provided soon.

**Foodborne and Diarrheal Diseases (FDD) (Stage III—Final MMG)**
- A data element priority list developed by the CDC program was posted on the [NNDSS HL7 Case Notification Resource Center](#) on 7/22/19.
- CDC continues to assist pilot jurisdictions during the onboarding process.
- The final FDD guide 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.

**Healthcare Associated Infections, Multi-Drug Resistant Organisms (HAI MDRO) (Stage II—Pilot Test-ready)**
- Piloting is underway.

**Lead Poisoning (Requirements Analysis)**
- CDC continues to make progress in developing this MMG.

**Listeriosis (Stage I—Draft)**
- No new updates at this time.

**Lyme and Tickborne Rickettsial Diseases (TBRD) (Stage II—Pilot Test-ready)**
- Piloting is underway.

**Malaria (Stage III—Final MMG)**
- CDC anticipates posting the MMG and artifacts on the [NNDSS HL7 Case Notification Resource Center](#) at the beginning of August.

**Measles (Stage II—Pilot Test-ready)**
- Piloting is underway.
- CDC is piloting this guide in conjunction with the rubella and CRS MMGs.

**Respiratory and Invasive Bacterial Disease (RIBD) (Stage II—Pilot Test-ready)**
- Based on feedback from the CDC program and pilot jurisdictions, CDC updated the MMG structure and content, which extended piloting until early August.

**Rubella and Congenital Rubella Syndrome (CRS) (Stage II—Pilot Test-ready)**
- Piloting is underway.
- CDC is piloting these guides in conjunction with the measles MMG.

**Trichinellosis (Stage III—Final MMG)**
- CDC posted the MMG and artifacts on the NNDSS HL7 Case Notification Resource Center on 7/22/19.
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.

**Tuberculosis (TB) and Latent Tuberculosis Infection (LTBI) (Pilot Test-ready—Accelerated Development Pilot)**
- CDC has finalized the MMG and artifacts and expects to post them soon on the NNDSS HL7 Case Notification Resource Center.

## 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

**Legend:** Green = Message in Production | Blue = Onboarding | Cyan = Receiving TA | Purple = Pilot | Cream = Finalized Guide | Gray = In Pilot

Cell codes below: **G** = Message in Production (green), **O** = Onboarding (blue), **TA** = Receiving TA (cyan), **P** = Pilot (purple)

| Jurisdiction | Arboviral | GenV2 | Hepatitis | Congenital Syphilis | STD | Mumps | Pertussis | Varicella | Foodborne Diarrheal Disease | TB/LTBI* | Malaria* | Trichinellosis* | Babseiosis* | RIBD* | Lyme/TBRD* | HAI MDRO* | Rubella* | CRS* | Measles* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Alabama | O | G | G |  | P |  |  |  |  |  |  |  |  |  |  |  |  |  | P |
| Alaska | O | G | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Arizona | G | G | TA | P | P |  |  |  |  | P |  |  |  |  |  |  | P | P | P |
| Arkansas | G | P | P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| California | TA | G | TA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Colorado |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P |  |  |  |
| Connecticut | G | G |  | O | O |  |  |  |  |  | P | P | P |  |  |  |  |  |  |
| Delaware |  | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Florida | G | G | G | P | P | P | P | P |  | P | P | P | P | P | P |  | P | P | P |
| Georgia |  | TA |  |  |  |  |  |  |  | P |  |  |  | P |  |  |  |  |  |
| Hawaii |  |  | TA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Idaho | G | G | G |  | G |  |  |  |  |  | P |  |  |  | P |  |  |  |  |
| Illinois | O | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Indiana | O | G | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Iowa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Kansas | TA | G |  |  |  | P | P | P |  |  |  |  |  | P |  |  |  |  |  |
| Kentucky |  | P | P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Louisiana |  | P | G |  |  | P | P |  |  |  |  |  |  |  |  |  |  |  |  |
| Maine |  | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Maryland | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Massachusetts |  | G | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Michigan |  | G | G | O | O | P | P | P | P | P |  |  |  |  |  |  |  |  |  |
| Minnesota |  | G |  |  |  |  |  |  | P |  |  |  |  |  |  |  |  |  |  |
| Mississippi | G | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Montana |  | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nebraska | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nevada | O |  | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New Jersey |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| New York |  |  |  |  |  |  |  |  | P |  |  |  |  |  |  |  |  |  |  |
| New York City | O |  |  |  |  | P | P |  |  |  |  |  |  |  |  |  |  |  |  |
| North Carolina |  |  |  | O | O |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| North Dakota |  |  | TA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Oregon | G | G | G | G | G | P | P | P | P | P |  |  |  |  | P | P | P | P | P |
| Pennsylvania | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Rhode Island |  | O | O |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Puerto Rico |  | O |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| South Carolina |  | G | G |  |  |  |  | P |  |  |  |  |  |  |  |  |  |  |  |
| South Dakota | G | G | TA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tennessee |  | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Texas |  | P | P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Utah | G | G | G |  |  | G | G | G |  |  |  |  |  |  |  |  |  |  |  |
| Virginia |  | G | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Washington | O | G | TA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| West Virginia |  |  | G |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wisconsin | G | G | G |  |  |  |  |  |  |  |  | P | P |  |  |  |  |  |  |
| Wyoming | O |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

\* These guides are currently being piloted by a small number of states and are not yet available to other states 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; 8/20/19, 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***

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