



NNDSS

National Notifiable Diseases
Surveillance System

MAY 2019

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Overall Updates

NMI eSHARE Updates

- The May NMI eSHARE session will be held on Tuesday, 5/21/19, at 3:00 PM ET. The webinar will feature what states need to know about implementing the new NNDSS foodborne and diarrheal diseases HL7 case notification.
- Access past eSHARE presentations and details about future events at the [NMI eSHARE website](#).

Updates Related to 2018 CSTE Position Statements

- CDC distributed a letter dated 4/4/19 to state epidemiologists summarizing updates to the CDC implementation of two 2018 position statements approved by CSTE for listeriosis and *Candida auris*, which impact case notifications sent to NNDSS. This letter has been posted to the [Downloads and Resources](#) section of the NNDSS website.
- CDC updated the 2019 Event Code List to include changes for listeriosis in the print criteria, the note, and the preferred mechanism for sending case notifications to NNDSS. No changes to event codes were made in this release. The updated 2019 Event Code List is available in the [HL7 Case Notification Resource Center](#) section of the NNDSS website.

Send Additional Conditions by Using Generic v2 Message

- CDC received approval from the Office of Management and Budget (OMB) to receive case notifications for the following conditions:
 - *Candida 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 (event code 32016), and

- Respiratory Syncytial Virus-Associated Deaths (event code 11646).
- Please send notifications to CDC for **all** 2019 cases of the above conditions. Use the generic v2 message mapping guide until disease-specific message mapping guides are available.
- CDC will post an updated 2019 NNDSS Event Code List on the [NNDSS web page](#).

Country of Usual Residence FAQs Now Available: Frequently asked questions and answers about implementation of the “Country of Usual Residence” data element are now available on the [NNDSS website](#).

Message Evaluation and Testing Service Now Has All MQF Functionality

- CDC recently incorporated Message Quality Framework (MQF) validation tool functionality into the Message Evaluation and Testing Service (METS) tool.
- Jurisdictions should start using [METS](#) for validation of all HL7 NNDSS messages, including the arboviral v1.3 message.

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 (MMGs).
- 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.

Have You Upgraded to PHINMS 3.1?

- If you have not already done so, please upgrade to PHIN Messaging System (PHINMS) 3.1, the latest version of PHINMS.
- Due to security risks, PHINMS will be able to accept messages sent using TLS 1.2 only, which requires PHINMS 3.1.
- After June 30, 2019, the CDC PHINMS receiver will reject messages sent using TLS 1.0 or TLS 1.1.
- Many jurisdictions have already upgraded and are successfully using the new PHINMS software.
- Upgrading to TLS 1.2 is not complex; however, if you face challenges, both the PHINMS 3.1 installation guides and helpdesk support are readily available at the [PHINMS website](#).
- For help, contact the PHIN helpdesk at phintech@cdc.gov or 1-800-532-9929.

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. **Virginia and Mississippi are the latest states in production. Congratulations, Virginia and Mississippi!**
- Alabama, Alaska, Illinois, Indiana, and Washington 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 MMGs

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- **Congratulations to Oregon and Idaho for being the first jurisdictions in production for CS and STD! CDC is making final preparations to open production for all jurisdictions and will provide details when available.**
- Michigan and North Carolina are engaged in onboarding.
- 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 25 jurisdictions in production for generic v2. **Georgia is the latest jurisdiction in production. Congratulations, Georgia!**
- Indiana, Maine, Montana, and Puerto Rico 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 15 jurisdictions in production for hepatitis.
- Colorado and Indiana are engaged in onboarding.
- Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for more details.

Developing HL7 Case Notification Messages

Babesiosis Message Mapping Guide (MMG) (Stage II—Pilot Test-ready)

- CDC changed two data elements to repeating groups in the MMG and provided updated artifacts to internal NMI teams in late April.
- CDC is piloting this guide in conjunction with the trichinellosis and malaria MMGs.

Valid Values	HL7 Message Context	HL7 Data Type
Yes FIPS Codes Country in codes for provinces and ies.	OBX segment with OBX-3=INV503 OBX-5=Value from value Set	CWE
	OBX segment with OBX-3=INV504 OBX-5=String (up to 199 characters)	ST RE

Bacterial Special Pathogens MMG (Pre-work)

- CDC is developing an MMG for brucellosis, anthrax, leptospirosis, and Hansen’s disease.
- The CDC program is engaged in pre-work to prepare for guide development.

Carbon Monoxide Poisoning (CO) MMG (Requirements Analysis)

- CDC submitted LOINC and SNOMED requests for new vocabulary.
- The CDC program is developing slides for the CSTE webinar to gather jurisdiction feedback on the draft MMG, which is scheduled for 6/17/19 at 3:00–4:00 PM ET.

Foodborne and Diarrheal Diseases (FDD) MMG (Stage III—Final MMG)

- The NNDSS team and CDC program continue to assist jurisdictions preparing for 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) MMG (Stage II—Pilot Test-ready)

- CDC developed an OMB Paperwork Reduction Act (PRA) nonsubstantive change request for new data elements for Carbapenemase Producing Carbapenem-Resistant Enterobacteriaceae (CP-CRE) and *C. auris*. Submission to OMB is anticipated in May.

Lead Poisoning MMG (Requirements Analysis)

- CDC is developing a strategy for updating or combining the NNDSS and lead exposure OMB PRA packages.
- CDC updated value sets in the PHIN Vocabulary Access and Distribution System (VADS) for the lead poisoning MMG.

Listeriosis MMG (Stage I—Draft)

- CDC updated the 2019 NNDSS Event Code List to include changes for listeriosis in the print criteria, note, and preferred mechanism for sending case notifications to NNDSS. No changes to event codes were made in this release.
- The updated 2019 NNDSS Event Code List is available in the [HL7 Case Notification Resource Center](#) section of the NNDSS website.

Lyme and Tickborne Rickettsial Diseases (TBRD) (Stage II—Pilot Test-ready)

- CDC and pilot sites began pre-piloting preparation.
- CDC held the piloting kickoff meeting on 4/9/19.
- CDC is revising the MMG to update two data elements to repeating groups and revise the organ transplant section.

Malaria MMG (Stage II—Pilot Test-ready)

- CDC is updating three additional value sets.
- CDC delivered updated pilot test-ready malaria artifacts to internal NMI teams on 4/22/19.
- CDC developed an OMB PRA nonsubstantive change request for new data elements for malaria. Submission to OMB is anticipated in May.
- CDC is piloting this guide in conjunction with the babesiosis and trichinellosis MMGs.

Measles MMG (Stage II—Pilot Test-ready)

- No new updates at this time.

Mumps and Pertussis MMGs (Stage III—Final)

- Utah is engaged in onboarding.
- Final mumps and pertussis MMGs are available on the [NNDSS HL7 Case Notification Resource Center](#).

- Please use these guides to begin implementing your case notification messages in preparation for onboarding.

Respiratory and Invasive Bacterial Disease (RIBD) MMG (Stage II—Pilot Test-ready)

- Piloting is underway.

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

- No new updates at this time.

Trichinellosis (Pilot Test Ready—Accelerated Development Pilot)

- Piloting is underway
- CDC is piloting this guide in conjunction with the babesiosis and malaria MMGs.

Tuberculosis (TB) and Latent Tuberculosis Infection (LTBI) MMG (Pilot Test-ready—Accelerated Development Pilot)

- Piloting is underway.

Varicella MMG (Stage III—Final)

- Utah is engaged in onboarding.
- The final varicella MMG is available on the [NNDSS HL7 Case Notification Resource Center](#).
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.

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

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	TB/LTBI*	Malaria*	Trichinellosis*	Babesiosis*	RIBD*	Lyme/TBRD*
Alabama															
Alaska															
Arizona															
Arkansas															
California															
Colorado															
Connecticut															
Delaware															
Florida															
Georgia															
Idaho															
Illinois															
Indiana															
Iowa															
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New Jersey															
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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															

* 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; 5/21/19, 3:00PM ET;
<https://www.cdc.gov/nmi/eshare.html>
- 2019 CSTE Annual Conference; 6/2/19 to 6/6/19:
<https://www.csteconference.org/2019/>



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
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