



## NNDSS

National Notifiable Diseases  
Surveillance System

NOVEMBER 2018

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### Overall Updates

#### New Resource Page for Implementation Spreadsheets and Test Case Scenario Worksheets Now Available

- CDC has launched a dedicated [webpage](#) for NMI implementation spreadsheets and test case scenario worksheets.
  - **Implementation Spreadsheets:** The implementation spreadsheets help to facilitate a gap analysis for the HL7 case notification message that a jurisdiction would like to implement. These templates merge information from the message mapping guides (MMGs), NMI HL7 Message Specification, and the PHIN Vocabulary Access and Distribution System (PHINVADS). Each implementation spreadsheet has an introduction tab with detailed guidance on how to use the spreadsheet.
  - **Test Case Scenario Worksheets:** When creating test messages associated with a test case scenario worksheet for a chosen HL7 case notification message, jurisdictions should indicate differences from the CDC example values in the worksheet.

#### MVPS Dashboard Enhancements Now Available to Users

- CDC has recently implemented these new enhancements to the Message Validation, Processing, and Provisioning System (MVPS) Dashboard:
  - **Ability to refresh detailed view results tables:** The detail view tab of the MVPS Dashboard allows users to apply filter criteria on the message results they wish to view. MVPS processes messages in real-time as they are received by the PHIN Messaging System; therefore, the possibility exists for messages to be received as a user is viewing the detail view. The refresh button allows the results to be refreshed with current filters applied without having to conduct a full-page refresh that would remove any filters on the results.

- **Export to spreadsheet of results displayed in the detailed view:** The detail view tab of the MVPS Dashboard allows users to apply filter criteria on the message results they wish to view. In many situations, the result set is quite large, possibly in the hundreds or thousands of records. The system now allows users to export these results to a spreadsheet, which provides the user the opportunity to perform analysis on these results outside of MVPS. This feature will support jurisdictions in data reconciliation.

### **Process for Jurisdictions Adding Conditions to Onboarded MMGs**

- Public health jurisdictions who have onboarded for an NNDSS HL7 MMG and would like to onboard additional conditions for that MMG should follow this process:
  - Jurisdiction sends email to the CDC Electronic Data Exchange email inbox at [edx@cdc.gov](mailto:edx@cdc.gov) with conditions to be onboarded.
  - CDC onboarding team updates a jurisdiction's existing information to include the new conditions.
  - Jurisdiction transmits all existing cases of the new conditions for the current non-reconciled year(s).
  - CDC onboarding team sends an approval email to the jurisdiction.
  - Jurisdiction is onboarded and starts routine transmission.

### **NMI eSHARE Updates**

- The October eSHARE on 10/16/18 provided a refresher on implementing the STD and congenital syphilis HL7 case notification messages, a walkthrough of the MVPS Dashboard enhancements, and the latest updates to the NMI implementation spreadsheet.
- The November eSHARE on 11/27/18 at 3:00 PM ET will provide helpful hints for maintaining and improving NNDSS transmissions and share changes to the NNDSS data tables that are planned for 2019.
- Access past eSHARE presentations and details about future events at the NMI eSHARE website at <https://www.cdc.gov/nmi/eshare.html>.

### **Public Health Rhapsody User Group Reminder**

- The Public Health Rhapsody User Group meets the third Thursday of each month at 1:00 PM ET. The next call is scheduled for November 15, 2018.
- Users are required to register for the meetings each month. For additional information, contact host Michelle Barber, Oregon Health Authority, at (971) 673-1111 or via email at [michelle.barber@state.or.us](mailto:michelle.barber@state.or.us).

### **ELC HIS Recipients Onboarding Reminder**

- Epidemiology and Laboratory Capacity Health Information Systems (ELC HIS) Cooperative Agreement recipients must send production data for at least five more [MMGs](#) by 8/1/19.
- Please allow several weeks for onboarding.
- Onboard for these MMGs now:
  - arboviral 1.3
  - generic v2
  - hepatitis
  - STD
  - congenital syphilis.
- Onboard for these soon:
  - mumps
  - pertussis
  - varicella.

### **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 at <https://www.cdc.gov/nmi/ta-sams.html>.

## Production HL7 Case Notification Messages

### Arboviral v1.3

- There are 14 jurisdictions in production for arboviral.
- Illinois, Mississippi, Nebraska, Utah, and Washington are engaged in onboarding.
- Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for more details.



### Generic v2

- There are 20 jurisdictions in production for generic v2. **Congratulations to Alabama for being the latest state in production!**
- Arizona, Georgia, and New Hampshire are engaged in onboarding.
- Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for more details.

### Hepatitis

- There are 13 jurisdictions in production for hepatitis. **Congratulations to Wisconsin for being the latest state in production!**
- California, Massachusetts, and South Carolina 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 MMG (Stage II—Pilot Test-ready)

- CDC has selected pilot states for the babesiosis MMG pilot process.
- The guide will be piloted in conjunction with the trichinellosis and malaria MMGs.

### Carbapenemase-Producing Carbapenem-Resistant Enterobacteriaceae (CP-CRE) MMG (Requirements Analysis)

- Per the request of the CSTE surveillance workshop, CDC is adding data elements for *C. auris* and for the Multi-site Gram-negative Surveillance Initiative (MuGSI) conditions.

Valid Values	HL7 Message Context	HL7 Data Type
Valid 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

### Congenital Syphilis and STD MMGs (Stage III—Final MMG)

- Final congenital syphilis and STD MMGs are available on the NNDSS HL7 Case Notification Resource Center at <https://wwwn.cdc.gov/nndss/case-notification/message-mapping-guides.html>.
- Please use these guides to begin implementing your case notification messages in preparation for onboarding.

- Michigan and Oregon are engaged in onboarding.

#### **Foodborne and Diarrheal Disease (FDD) MMG (Stage II—Pilot Test-ready)**

- CDC held user acceptance testing for the FDD MMG from 10/15/18 through 10/26/18.

#### **Listeriosis MMG (Stage I—Draft)**

- CDC is preparing to present the draft MMG during a CSTE webinar anticipated for early 2019 to gather jurisdiction feedback, with piloting to follow in the summer.
- CDC submitted an Office of Management and Budget Paperwork Reduction Act (OMB PRA) request for additional data elements related to the 2018 CSTE position statement.

#### **Lyme and Tickborne Rickettsial Diseases (TBRD) (Stage I—Draft)**

- CDC is preparing responses to external review comments from the jurisdictions, NEDSS Base System team, and APHL.

#### **Malaria MMG (Stage II—Pilot Test-ready)**

- CDC is updating the malaria case report form so that it aligns with the malaria MMG.
- CDC has selected pilot sites for the MMG pilot process.
- The guide will be piloted in conjunction with the babesiosis and trichinellosis MMGs.

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

- MVPS is beginning development work on the measles MMG.

#### **Mumps and Pertussis MMGs (Stage III—Final)**

- Final mumps and pertussis MMGs are available on the NNDSS HL7 Case Notification Resource Center at <https://wwwn.cdc.gov/nndss/case-notification/message-mapping-guides.html>.
- 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)**

- MVPS development is in progress for the RIBD MMG.

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

- MVPS is beginning development work on the rubella and CRS MMGs.

#### **Trichinellosis (Pilot Test Ready—Accelerated Development Pilot)**

- CDC has selected pilot sites for the MMG pilot process.
- The guide will be piloted in conjunction with the babesiosis and malaria MMGs.

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

- CDC has selected pilot sites for the MMG pilot process.
- Piloting is scheduled for late fall.

#### **Varicella MMG (Stage III—Final)**

- The final varicella MMG is available on the NNDSS HL7 Case Notification Resource Center at <https://wwwn.cdc.gov/nndss/case-notification/message-mapping-guides.html>.
- 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

■ = Message in Production   
 ■ = Onboarding   
 ■ = Receiving TA   
 ■ = Pilot

Jurisdiction	Arboviral	Generic Version 2	Hepatitis	<i>Congenital Syphilis*</i>	<i>Foodborne Diarrheal Disease*</i>	<i>Mumps*</i>	<i>Pertussis*</i>	<i>Sexually Transmitted Diseases*</i>	<i>Varicella*</i>
Alabama									
Alaska									
Arizona									
Arkansas									
California									
Colorado									
Delaware									
Florida									
Georgia									
Idaho									
Illinois									
Indiana									
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Mississippi									
Nebraska									
New Hampshire									
New Jersey									
New York									
New York City									
North Carolina									
North Dakota									
Oregon									
Rhode Island									
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; 11/27/18, 3:00PM ET;  
<https://www.cdc.gov/nmi/eshare.html>

**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**

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[www.cste.org](http://www.cste.org)