



## NNDSS

National Notifiable Diseases  
Surveillance System

OCTOBER 2018

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### Overall Updates

#### Visit the Relunched NMI Technical Assistance and Training Resource Center Today!

- CDC is pleased to announce the recent relaunch of the [NMI Technical Assistance and Training Resource Center](#).
- The NMI team incorporated user feedback from subject matter experts, partners, and public health departments to completely overhaul the structure of the original site to improve user navigation and ease of use.
- The resource center is a one-stop-shop for users to access the guidance, tools, and help they need to implement NNDSS HL7 case notification messages and to learn more about and request technical assistance.
- Visit the [site](#) and learn more about the [key highlights](#) of the redesign.

#### Public Health Rhapsody User Group Meets Third Thursday Every Month

- Consider joining the Public Health Rhapsody User Group, which jurisdiction public health professionals established for public health Rhapsody users to share their projects, experiences, and resources and to ask questions.
- Past complex topics during meetings have included Java script filters, NMI mapping/table look-ups, and integration with health information exchanges.
- The group also has addressed more practical questions such as how to configure a route to handle multiple versions of HL7 for electronic laboratory reporting and how to make do with a limited number of licenses.
- The Public Health Rhapsody User Group meets the third Thursday of each month at 1:00 PM ET. The next call is scheduled for October 18, 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).

### Reminder about Conditions Added to Generic v2 in 2018:

- States sending the Generic V2 message can use it to send the following:
  - histoplasmosis (event code 11915) – condition under standardized surveillance
  - acute flaccid myelitis (event code 11120) – condition under standardized surveillance
  - tetanus (event code 10210) – national notifiable condition.

### Add Industry and Occupation and Country of Usual Residence to Surveillance Systems

- **Industry and Occupation**
  - Collecting this information will help public health explore relationships between diseases/conditions and occupations and/or industries.
  - It is included in all condition-specific message mapping guides (MMGs) published since May 2018. For an example, please see the [mumps, pertussis, or varicella MMGs](#).
  - The Industry and Occupation Repeating Group consists of four data elements: Current Occupation (Text), Current Occupation Standardized (Coded), Current Industry (Text), and Current Industry Standardized (Coded).
  - The National Institute for Occupational Safety and Health Industry and Occupational Computerized Coding System (NIOCCS) is a web-based software tool designed to translate text to standardized industry and occupation codes. States can submit batch files from their case data and incorporate the codes to facilitate data analysis. For more information, please see the [NIOCCS webpage](#) and the [7/18/17 eSHARE presentation](#).
- **Country of Usual Residence**
  - Beginning January 2019, the [National Notifiable Infectious Diseases Weekly Tables](#) will include a row of data for cases occurring in non-U.S. residents. It will appear below the state and territory data and use the information transmitted in “Country of Usual Residence.”
  - The Country of Usual Residence data element was added in response to CSTE Position Statement 11-SI-04 titled "[Revised Guidelines for Determining Residency for Disease Notification Purposes](#)," which explains how foreign residence should be determined to be consistent with U.S. Census criteria.
  - Country of Usual Residence is transmitted in the [generic v2 MMG \(row 12\)](#).

### NMI eSHARE Updates

- The September eSHARE on 9/18/18 covered NNDSS-related highlights from the recent Public Health Informatics Conference and a walkthrough of the newly relaunched NMI Technical Assistance and Training Resource Center.
- The October eSHARE on 10/16/18 at 3:00 PM ET will provide 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.
- Access past eSHARE presentations and details about future events at the NMI eSHARE website at <https://www.cdc.gov/nmi/eshare.html>.

### 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, Nebraska, 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 19 jurisdictions in production for generic v2. **Congratulations to Colorado for being the latest state in production!**
- Alabama 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 12 jurisdictions in production for hepatitis. **Congratulations to Louisiana for being the latest state in production!**
- California, Massachusetts, South Carolina, and Wisconsin 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)

- MVPS development is complete for the babesiosis MMG.
- 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)

- CDC is reviewing and updating the draft guide.
- CSTE held a workshop to discuss addition of travel-related data elements to the MMG. All participants approved the inclusion of these elements.

Valid Values	HL7 Message Context	HL7 Data Type
FIPS Codes Country codes for Provinces and States.	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

- The CSTE surveillance workgroup asked that *C. auris* be added to the CP-CRE MMG because many of the data elements are similar; CDC is reviewing this request.

### **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.
- CDC has invited pilot states to begin onboarding.

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

- CDC is finalizing the guide.
- MVPS development is in progress for the FDD MMG.
- User acceptance testing for the FDD MMG is scheduled to begin on 10/15/18.

### **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.

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

- The CSTE webinar to review the draft MMG and gather jurisdiction feedback was held on 9/6/18. Most questions from the jurisdictions were related to the TBRD data elements.
- The external comment period for the Lyme and TBRD MMG began on 8/24/18 and ended on 9/21/18. CDC is reviewing the feedback received.

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

- 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)**

- CDC completed the pilot test-ready versions of the test scenarios and test messages.

### **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)**

- CDC is reviewing pilot test-ready versions of the MMGs and associated artifacts.

### **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	Congenital Syphilis*	Foodborne Diarrheal Disease*	Mumps*	Pertussis*	Sexually Transmitted Diseases*	Varicella*
Alabama									
Alaska									
Arizona									
Arkansas									
California									
Colorado									
Delaware									
Florida									
Georgia									
Idaho									
Illinois									
Indiana									
Iowa									
Kansas									
Kentucky									
Louisiana									
Maine									
Maryland									
Massachusetts									
Michigan									
Minnesota									
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; 10/16/18, 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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