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### Overall Updates

#### New MMGs for STD and Congenital Syphilis HL7 Case Notifications Now Available

- Finalized HL7 sexually transmitted disease (STD) and congenital syphilis (CS) message mapping guides (MMGs) are now available on the NNDSS HL7 Case Notification Resource Center at <https://www.cdc.gov/nndss/case-notification/message-mapping-guides.html>.
- Public health jurisdictions can prepare to send their STD and CS disease notifications by using these MMGs.
- The NMI Technical Assistance and Onboarding teams are ready to assist jurisdictions in implementing the new messages and in obtaining approval to begin transmitting them. Please contact [edx@cdc.gov](mailto:edx@cdc.gov) to request technical assistance or to begin the onboarding process.



#### MVPSu Implementation Now Complete

- On 2/9/18, the Message Validation, Processing, and Provisioning System upgrade (MVPSu) went into production. MVPS data were successfully migrated to an HL7 provisioning data model in each database environment; in addition, the traditional data model for generic v2 and hepatitis messages is still being maintained.
- The MVPSu processing technology changes, processing database upgrades, and dashboard technology upgrades improve code manageability, development efficiency, and flexibility; replace some difficult-to-support software; incorporate a redesigned processing database; and better support jurisdiction users.

#### OMB-PRA Approval Received

- NNDSS received approval from the Office of Management and Budget (OMB) for the NNDSS Paperwork Reduction Act (PRA) revision submitted in October.
- This approval allows NNDSS to receive submissions from the Federated States of Micronesia, the Republic of the Marshall Islands, and the Republic of Palau.
- In addition, it allows NNDSS to receive case notification data for acute flaccid myelitis and histoplasmosis, two conditions under standardized surveillance; vaccination information for all relevant diseases; and additional requested data elements for seven conditions.

#### NMI eSHARE Updates

- The 2/20/18 session presented a walkthrough of the new STD and congenital syphilis (CS) HL7 case notification messages and lab template.

- The next session is scheduled for 3/20/18 and will provide MVPS updates and a dashboard demo.
- Access past eSHARE presentations and details about future events at the NMI eSHARE website at <http://www.cdc.gov/nmi/eshare.html>.

## Production HL7 Case Notification Messages

### Arboviral v1.3

- There are 12 states now in production for arboviral. Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for all the details.



### Generic v2

- There are 12 states in production for generic v2. Iowa is the latest state to engage in onboarding, along with Delaware, Massachusetts, New Hampshire, and New York City. Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for all the details.

### Hepatitis

- New York is the latest state in production for hepatitis. Congratulations, New York!
- There are 7 states in production for hepatitis. California and West Virginia are engaged in onboarding. Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for all the details.

## Developing HL7 Case Notification Messages

### Babesiosis MMG (Stage 1—Draft)

- The MMG is ready for pilot testing and MVPS development.

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

- CDC held an initial kick-off meeting for the guide on 2/12/18.
- The CDC program is reviewing a draft CP-CRE data element list.

Valid Values	HL7 Message Context	HL7 Data Type
States FIPS Codes Country Provinces and Territories	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

### Congenital Syphilis (CS) and STD MMGs (Stage II—Pilot Test-ready)

- CDC is reviewing findings from the recent STD and CS user acceptance testing, drafting FAQs for the MMGs, and brainstorming for post-MVPS provisioning activities such as National Electronic Telecommunications System for Surveillance translation.
- Final CS and STD MMGs and artifacts are now available on the NNDSS HL7 Case Notification Resource Center at <https://www.cdc.gov/nndss/case-notification>.

### Foodborne and Diarrheal Disease MMG (Stage I—Draft)

- Emerging Infections Program FoodNET project states continue to pilot the FDD MMG.
- CDC is making changes to the MMG based on feedback from the comment period and the pilot states.

### Malaria MMG (Stage I—Draft)

- The MMG is ready for pilot testing and MVPS development.

### **Measles MMG (Stage I—Draft)**

- CDC is performing quality assurance of the measles MMG.
- CDC expects to deliver the pilot test-ready measles MMG and artifacts by early March.

### **Mumps and Pertussis MMGs (Stage II—Pilot Test-ready)**

- CDC is reviewing questions from pilot jurisdictions who are performing gap analyses of the guides and developing appropriate responses.
- The CDC program is planning the creation of analytic data sets based on case information sent in the new messages.
- Florida, Kansas, Louisiana, Michigan, New York City, Oregon, and Utah are piloting the mumps and pertussis MMGs.

### **Respiratory and Invasive Bacterial Disease (RIBD) MMG (Requirements Analysis)**

- The CSTE webinar to solicit jurisdiction feedback on the draft MMG will be held on 3/6/18 from 3:00 to 4:00 PM ET.

### **Rubella and Congenital Rubella Syndrome (CRS) MMGs (Stage I—Draft)**

- CDC expects to deliver pilot test-ready MMGs for rubella and CRS by early March.

### **Trichinellosis (Requirements Analysis—Accelerated MMG Development Pilot)**

- CDC has approved the draft MMG and expects to post it to the NNDSS HL7 Case Notification Resource Center at <https://wwwn.cdc.gov/nndss/case-notification> for external review by 3/5/18.
- The CSTE webinar to solicit jurisdiction feedback on the draft MMG is scheduled for 3/12/18 from 1:00 to 2:00 PM ET.

### **Tuberculosis (TB) and Latent Tuberculosis Infection (LTBI) MMG (Requirements Analysis – Accelerated MMG Development Pilot)**

- The TB blackout period to prepare for World TB Day ended 2/20/18, and CDC has resumed work on the draft MMG.
- CDC modeled the MMG and identified vocabulary codes during the blackout period.

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

- The NMI Change Control Board is considering two change requests for the Varicella MMG: 1) to change the datatype for “Specimen Date Sent to CDC” from date to timestamp and 2) to change the local code to a SNOMED code for “Was the Rash Generalized.”
- The CDC program is planning the creation of analytic data sets based on case information sent in the new messages.
- Florida, Kansas, Michigan, and Utah are piloting the varicella MMG.

## **Resources**

- NMI Technical Assistance and Training Resource Center: <https://www.cdc.gov/nmi/ta-trc/index.html>
- 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: <http://www.cdc.gov/nmi/eshare.html>



- NMI Newsroom: <https://www.cdc.gov/nmi/newsroom.html>
- NMI Internet Site (includes NMI fact sheets and FAQs): <http://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									
Delaware									
Florida									
Idaho									
Illinois									
Indiana									
Iowa									
Kansas									
Kentucky									
Louisiana									
Maine									
Maryland									
Massachusetts									
Michigan									
Minnesota									
Mississippi									
New Hampshire									
New Jersey									
New York									
New York City									
North Carolina									
Oregon									
South Carolina									
South Dakota									
Tennessee									
Texas									
Utah									
Virginia									
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; 3/20/18, 3:00PM ET;  
<http://www.cdc.gov/nmi/eshare.html>
- 2018 CSTE Annual Conference; 6/10/18 to 6/14/18:  
<http://csteconference.org/2018/>
- 2018 Public Health Informatics Conference; 8/20/18 to 8/23/18:  
<http://phiconference.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

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