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NMI Notes September 2016

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NMI Notes

**NNDSS Modernization Initiative (NMI)****SEPTEMBER 2016**

Sent to: State Epidemiologists, Deputy State Epidemiologists, CSTE Surveillance/Informatics and Infectious Disease Points of Contact, and recipients of previous NMI Biweekly External Communication Updates

OVERALL NMI UPDATES

Welcome to *NMI Notes*!

NMI Notes will provide 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*.

NMI Target Timeline Adjusted:

To address the necessary system and documentation refinements needed before system launch, the NMI team has adjusted the target timeline for upcoming NMI milestones to the following:

- **Fall 2016:** The Message Evaluation and Testing Service (METS) is expected to be ready for Generic v2 and Hepatitis testing. Technical assistance is expected to be available for Generic v2 and Hepatitis. The Message Validation, Processing, and Provisioning System (MVPS) is expected to onboard Generic v2 and Hepatitis.
- **Winter 2016–2017:** METS and MVPS are expected to be ready for STD and Congenital Syphilis. Technical assistance is expected to be available for STD and Congenital Syphilis. Mumps and Pertussis MMGs are expected to pilot.
- **Spring 2017:** METS and MVPS are expected to be ready for Mumps and Pertussis. Technical assistance is expected to be available for Mumps and Pertussis. The next MMGs are expected to pilot.

New Zika Virus Case Definitions To Be Incorporated into NNDSS:

At the end of July, CSTE released the new Zika virus case definitions approved at the June 2016 CSTE Annual Meeting. CDC incorporated the new event codes and can receive notifications



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based on the new case definitions. CDC expects to post the updated case definitions on the NNDSS web page at <https://www.cdc.gov/nndss/case-definitions.html> in September.

MESSAGE MAPPING GUIDE DEVELOPMENT UPDATES

Priority MMGs Update:

Final versions of the Generic v2, Hepatitis, and Arboviral v1.3 Message Mapping Guides (MMGs) and their associated artifacts have been posted to the NNDSS HL7 Case Notification Resource Center at <https://www.cdc.gov/nndss/case-notification/>.

Pilot test-ready versions of the STD, Congenital Syphilis, Mumps, and Pertussis MMGs also are available on the resource center.

(IADIS Hepatitis)	Value Set Code	Valid Values	HL7 Message Context	HL7 Data Type	HL7 Usage
State or Province Exposure	PHVS_StateProvince	US States FIPS Codes and ISO Country Subdivision codes for Canadian Provinces and Mexican States	OBX segment with OBX-3=INV503	CVE	RE
			OBX segment with OBX-3=INV504	ST	RE
			OBX-5=String (up to 199 characters)		

Varicella MMG Update:

CDC is making updates to the draft MMG that were identified during the recent external review period. The MMG development team also is preparing a compilation of responses to the feedback received from seven jurisdictions during the external review.

MMGs Identified for Development in 2016:

The CDC Infectious Disease Surveillance Leadership Council has identified the next set of new priorities for MMG development: Lyme disease, anaplasmosis, ehrlichiosis, and spotted fever rickettsiosis. This set of diseases will address a high-volume condition, help CDC retire legacy systems, and reduce the amount of information jurisdictions are expected to send through other methods. The MMG team will introduce the CDC programs who work with these conditions to the MMG development lifecycle, help them initiate data element analysis, and request that CSTE identify subject matter experts to participate.

The 30-day external review periods for the draft MMGs for Malaria, Babesiosis, and Measles have closed. CDC will send to CSTE the final compilation of responses to feedback received from jurisdictions during these external review periods when CDC programs have reviewed them.

CDC is preparing draft MMGs for Rubella and Congenital Rubella Syndrome and proposed data element lists for Cyclosporiasis and Trichinellosis, which will form the basis of future draft MMGs.

MESSAGE VALIDATION, PROCESSING, AND PROVISIONING SYSTEM UPDATES

MVPS Continues Internal Functional Testing and Implementation of System Enhancements:

The MVPS team continues to perform extensive internal testing and identify and schedule defects to be resolved:

- State Case IDs may now have a maximum length of 199 in MVPS.
- Issues related to missing National Electronic Telecommunications System for Surveillance data have been resolved, and correct data are being populated.
- Disease conditions are now divided into categories to improve dashboard usability for jurisdictions.
- User friendly error messages have been implemented into the system.
- Various business rule warnings were adjusted to produce the appropriate warning in conjunction with submitted messages.



The MVPS team will continue to make development updates to the system in preparation for a successful launch expected later this year.

Jurisdictions Encouraged to Check SAMS Access:

In anticipation of MVPS being ready to accept data from jurisdictions for Generic v2 and Hepatitis, the NMI team is encouraging all non-pilot jurisdictions to complete the 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 web site at <http://www.cdc.gov/nmi/ta-sams.html>.

TECHNICAL ASSISTANCE UPDATES

NMI Training Held on Implementing HL7 Case Notifications:

On 8/21/16, the NMI team held a pre-conference workshop before the Public Health Informatics Conference in Atlanta for Epidemiology and Laboratory Capacity Cooperative Agreement Health Information Systems (HIS) grantees.



The hands-on training guided participants through the process to complete a gap analysis, the first step in implementing case notifications based upon the new NNDSS HL7 MMGs. The training also addressed key issues, such as *Morbidity and Mortality Weekly Report* case reconciliation, and gave attendees an opportunity to provide feedback on the technical assistance tools being presented.

The team provided participants with information on preparing and sending HL7 case notifications, understanding the structure and information contained within an MMG, conducting a gap analysis using the draft APHL implementation spreadsheet or an existing tool, and considering key HIS issues when creating case notifications.

Upcoming eSHARE Event Planned:

- **September NMI eSHARE to Cover CDC Surveillance Data Platform:**
 - The 9/15/16 NMI eSHARE webinar will provide information about the new CDC Surveillance Data Platform in development and how it and NMI fit into CDC's larger agency-wide surveillance strategy.
 - We invite you to join us at the eSHARE Adobe Connects Webinar Link: <https://virtualsepd.adobeconnect.com/nmieshare/>. Click "Enter as a Guest," provide your name, and click "Enter Room"; the conference number is 1-800-779-9623 and participant code is 9740330.
- Access past eSHARE presentations and details about future events at the NMI eSHARE website at <http://www.cdc.gov/nmi/eshare.html>.

NMI Pilot Jurisdiction Status Report						
Jurisdiction	System	Implementation Process				
		Kick Off	Gap Analysis [non-NBS] or Disease Page Implemented [NBS]	Data Extract Updated [non-NBS] or Legacy Data Porting - Migration Complete [NBS]	HL7 Message Created	Message Validation in METS
Alabama						
STD	NBS	X	X	X	X	X
Arizona						
CS	Non-NBS	X	In Process			
STD	Non-NBS	X	In Process			
Arkansas						
Gen V2	NBS	X	X	X	X	X
HEP	NBS	X	X	X	X	X
California						
Gen V2	Non-NBS	X	X	X	X	X
HEP	Non-NBS	X	X	X	X	X
Florida						
Arbo V1.3	Non-NBS	X	In Process			
CS	Non-NBS	X	In Process			
Gen V2	Non-NBS	X	X	X	X	X
HEP	Non-NBS	X	X	X	X	X
STD	Non-NBS	X	In Process			
Idaho						
STD	NBS	X	X	X	X	X
Kentucky						
Gen V2	NBS	X	X	X	X	X
HEP	NBS	X	X	X	X	X
Louisiana						
Gen V2	NBS	X	X	X	X	X
HEP	NBS	X	X	X	X	X
Michigan						
CS	Non-NBS	X	X	N/A	In Process	In Process
Gen V2	Non-NBS	X	X	X	X	X
HEP	Non-NBS	X	X	X	X	X
STD	Non-NBS	X	X	N/A	X	X
Minnesota						
Gen V2	Non-NBS	X	X	X	X	X
HEP	Non-NBS	X	X	X	X	X
New York						
Arbo V1.3	Non-NBS	X	X	N/A	X	X
Gen V2	Non-NBS	X	X	X	X	X
HEP	Non-NBS	X	X	In Process	In Process	
North Carolina						
CS	Non-NBS	X	In Process			
STD	Non-NBS	X	In Process			
Oregon						
CS	Non-NBS	X	In Process	In Process	In Process	
Gen V2	Non-NBS	X	X	X	X	X
HEP	Non-NBS	X	X	X	X	X
STD	Non-NBS	X	In Process	In Process	In Process	
Tennessee						
Gen V2	NBS	X	X	X	X	X
HEP	NBS	X	X	X	X	X
Texas						
Gen V2	NBS	X	X	X	X	X
HEP	NBS	X	X	X	X	X

NMI Pilot Jurisdiction Status Report: This chart shows the status of current NMI pilot jurisdictions in implementing new HL7 NNDSS case notification messages.

After implementation, onboarding is the next step in the NMI process. Please note that NBS has finalized system updates for the Generic v2 and Hepatitis MMGs, and jurisdictions are currently applying those minor updates.

UPCOMING EVENTS

NMI eSHARE:
CDC Surveillance Data Platform:
9/15/16, 3:00pm ET;
<http://www.cdc.gov/nmi/eshare.html>

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Have questions or feedback on NMI Notes?

Email edx@cdc.gov.

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