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NMI Notes

CDC · CSTE · APHL

NNDSS Modernization Initiative (NMI)   DECEMBER 2016

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OVERALL NMI UPDATES

Welcome to *NMI Notes*!

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*.

NNDSS
National Notifiable Diseases Surveillance System

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UPCOMING EVENTS

Arboviral v1.3 Message Onboarding Continues:

- Four states—Florida, New York, Tennessee, and Texas—are now sending production Arboviral v1.3 messages.
  - The Arboviral program is adjusting their data ingestion process to remove restrictions that prevented records from loading. They will address these issues with data quality checks.
  - Onboarding of additional states will begin when these modifications are in place.

Early December Remains Target for Generic v2 and Hepatitis Data:

- With the successful conclusion of the Message Validation, Processing, and Provisioning System (MVPS) User Acceptance Testing (UAT) on 11/9/16, CDC expects that MVPS functionality for processing Generic v2 and Hepatitis messages will go into production on 12/2/16.
- Pilot states are expected to begin onboarding to send data for these conditions the week of 12/5/16.

MESSAGE MAPPING GUIDE DEVELOPMENT UPDATES

Priority MMGs Update:
Final versions of the Generic v2, Hepatitis, and Arboviral v1.3 MMGs and their associated artifacts have been posted to the NNDSS HL7 Case Notification Resource Center at https://wwwn.cdc.gov/nndss/case-notification/. The test case scenarios for Arboviral v1.3 were updated on 10/4/16.

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

resource center.

Comment Period for Rubella and Congenital Rubella Syndrome MMGs:
CDC posted draft MMGs for Rubella and Congenital Rubella Syndrome to the NNDSS HL7 Case Notification Resource Center at https://wwwn.cdc.gov/nndss/case-notification/. The 30-day open comment period ended on 11/18/16.

NMI Examining Lab Template for Ability to Support Antimicrobial Resistance Data:
The NMI MMG team is partnering with HL7 and antimicrobial resistance experts to ensure that the MMG Lab Template is sufficiently robust to be able to support case notifications for diseases caused by antibiotic resistant organisms. We anticipate that the updates will integrate with what is currently requested in the lab template.

Collaboration with NIOSH on Occupation and Industry Template:
The MMG team is collaborating with the CDC National Institute for Occupational Safety and Health (NIOSH) to develop a template for collecting occupation and industry data in case notifications. The template would support the inclusion of basic occupation and industry data in any case notification. It is designed to be compatible with NIOSH recommendations for collecting occupation and industry information in electronic health records and with use of the NIOSH Industry and Occupation Computerized Coding System (NIOCCS), which is NIOSH's coding tool. The template initially will be included in disease-specific MMGs and will be incorporated into the next update of the Generic MMG.

MESSAGE VALIDATION, PROCESSING, AND PROVISIONING SYSTEM UPDATES

MVPS Completes Second Round of User Acceptance Testing: The MVPS team conducted the second round of user acceptance testing (UAT) for Generic v2 and Hepatitis from 10/31/16 to 11/9/16. During UAT, select pilot jurisdictions sent test messages to MVPS, and participating jurisdictions and CDC programs tested the latest system development.

- Jurisdiction participants tested the Message Evaluation and Testing Service (METS) and MVPS functionality, and program participants tested MVPS provisioning functionality.
- During UAT, testers identified low-priority system defects and confirmed one medium-priority defect. Based on these findings, MVPS will proceed with the anticipated launch.

MVPS Continues Internal Functional Testing and Implementation of System Enhancements: MVPS continues to perform quality and functional testing to identify potential defects and schedule their resolution. The following MVPS updates were recently completed:

- Overarching processing rules were implemented for required data elements.
- Updates were made to processing rules for repeating groups.

METS Ready for Generic v2 and Hepatitis Message Testing: Jurisdictions can use METS to prepare their Generic v2 and Hepatitis messages.

- Please note that updated versions of these message mapping guides were posted in late November to the NNDSS HL7 Case Notification Resource Center at https://wwwn.cdc.gov/nndss/case-notification/.
- Although most of the guide modifications were just intended to provide clarity, jurisdictions are encouraged to look at the most recent version of the MMGs.
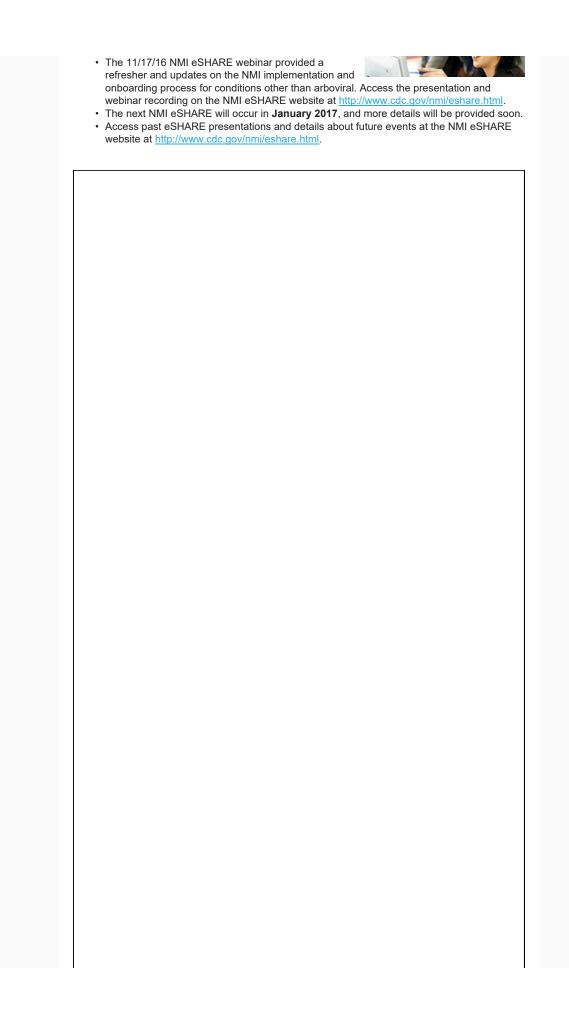
Jurisdictions Encouraged to Check SAMS Access: In anticipation of MVPS being ready to accept data from jurisdictions for Generic v2 and Hepatitis, the NMI team is encouraging all non-pilot jurisdictions to complete the Secure Access Management Services (SAMS) proofing process and confirm their access with the MVPS support team. More information about SAMS access and training may be found on the NMI web site at http://www.cdc.gov/nmi/ta-sams.html.

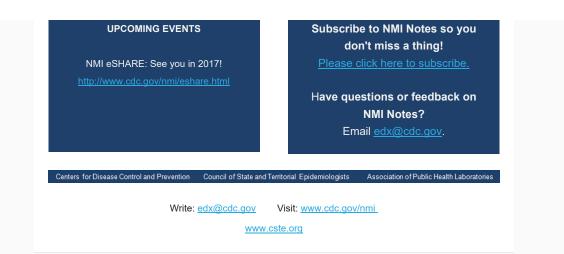## TECHNICAL ASSISTANCE UPDATES

NMI eSHARE Event Updates:

November NMI eSHARE Provided Refresher on the NMI Onboarding Process:

- The 11/17/16 NMI eSHARE webinar provided a refresher and updates on the NMI implementation and onboarding process for conditions other than arboviral. Access the presentation and webinar recording on the NMI eSHARE website at http://www.cdc.gov/nmi/eshare.html.
- The next NMI eSHARE will occur in **January 2017**, and more details will be provided soon.
- 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						Onboarding 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		Onboarding	In Production
Alabama									
STD	NBS	X	X	X	X	X			
Arizona									
CS	Non-NBS	X	X	X	In Process				
STD	Non-NBS	X	X	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	X	X	X	X		X	X
CS	Non-NBS	X	X	X	X	X			
Gen V2	Non-NBS	X	X	X	X	X			
HEP	Non-NBS	X	X	X	X	X			
STD	Non-NBS	X	X	X	X	X			
Idaho									
Hep	NBS	X	X	X	X	X			
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	X	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	X	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	X	X	X		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	X	In Process					
STD	Non-NBS	X	X	In Process					
Oregon									
CS	Non-NBS	X	X	X	X	X			
Gen V2	Non-NBS	X	X	X	X	X			
HEP	Non-NBS	X	X	X	X	X			
STD	Non-NBS	X	X	X	X	X			
Tennessee									
Arbo V1.3	NBS	X	X	X	X	X		X	X
Gen V2	NBS	X	X	X	X	X			
HEP	NBS	X	X	X	X	X			
Texas									
Arbo V1.3	NBS	X	X	X	X	X		X	X
Gen V2	NBS	X	X	X	X	X			
HEP	NBS	X	X	X	X	X			

*Florida has implemented Arboviral 1.3 for Zika and is continuing to work on implementing the remaining Arboviral conditions.

NMI Pilot Jurisdiction Status Report: This chart shows the status of current NMI pilot jurisdictions in implementing and onboarding new HL7 NNDSS case notification messages. 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: See you in 2017!
http://www.cdc.gov/nmi/eshare.html

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