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NMI Notes January 2017

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NMI Notes

**NNDSS Modernization Initiative (NMI)****JANUARY 2017**

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 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*.



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Update on MVPS Onboarding for Generic v2 and Hepatitis Data: **Production Data Are Flowing!**

- On 12/8/16, for the first time, NNDSS began receiving Generic v2 and hepatitis data from a state public health jurisdiction through the new CDC Message Validation, Processing, and Provisioning System (MVPS).
- Oregon is the first state to begin sending their disease notifications by using the new HL7 Generic v2 and Hepatitis Message Mapping Guides (MMGs) and the first state to have their data received, processed, and provisioned to CDC programs through MVPS.
- CDC receiving, processing, and provisioning Generic v2 and hepatitis data in the new HL7 format through MVPS is the result of collaboration by teams across CDC and our partners at APHL, CSTE, and state public health departments. These teams defined the needed MMG data elements, developed MVPS, and supported public health jurisdictions in implementing the messages.
- The hands-on support provided by the NMI Technical Assistance and Onboarding teams helped Oregon to be the first state to reach this milestone. Over the next few weeks, CDC expects that Michigan, California, Florida, and Minnesota will onboard MVPS and begin sending Generic v2 and hepatitis data, New York will begin sending Generic v2 data, and Idaho will begin sending hepatitis data. More states will continue to onboard MVPS for these conditions into 2017.

PHINMS Enhancements Implemented

CDC has implemented several enhancements to the PHIN Messaging System (PHINMS) environment to ensure that it can handle the volume of records expected with the transition to the new NNDSS HL7 MMGs, especially to accommodate year-to-date files that jurisdictions send as they onboard.

NNDSS Data and Statistics Webpage Launched

CDC recently launched the NNDSS Data and Statistics webpage to provide NNDSS data users with links to the online provisional and finalized data and guidance for using and interpreting the data. Access the page at <https://www.cdc.gov/nndss/data-and-statistics.html>.

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://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.

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

Varicella MMG External Review Feedback Document Posted to NNDSS Website:

CDC posted the Draft Varicella MMG along with the external review feedback document to the NNDSS website. The Draft Varicella MMG is available at https://www.cdc.gov/nndss/document/Varicella_v1.0_MMG_D_R1_20160422_20161205.xlsx, and the feedback document is available at https://www.cdc.gov/nndss/document/Varicella_ExternalReviewComments_FINAL_20161205.xlsx.

MMG Lab Template Being Enhanced to Support Antimicrobial Resistance Data:

The CDC MMG team is working with HL7 and surveillance experts to ensure that the standardized lab-related data elements used in the new HL7 MMGs are robust enough to handle all findings of interest to public health. With the addition of a few pieces of information, the template used in developing MMGs should be able to handle antimicrobial resistance findings, pulsed-field gel electrophoresis (PFGE) findings, and whole genome sequencing findings, when they are needed.

Template Being Developed for Occupation and Industry Data in MMGs:

The CDC MMG team is collaborating with the National Institute for Occupational Safety and Health (NIOSH) to develop a template that will be incorporated into MMGs to support the collection of occupation and industry information as standardized data elements. Future work with health departments and CDC programs will explore how to standardize more specific occupational exposure information.

MESSAGE VALIDATION, PROCESSING, AND PROVISIONING SYSTEM UPDATES

MVPS 2.2.0 Available for Production Messages and Onboarding Pilot Jurisdictions:

- CDC tested and deployed MVPS 2.2.0 into the production environment on 12/2/16.
 - MVPS now is accepting Generic v2 and Hepatitis production messages from NMI pilot states; 8,849 messages submitted from Oregon were successfully processed in the production environment.
 - Various pilot jurisdictions are currently sending messages to the onboarding environment, and CDC expects that they will transition to the production environment in the next few weeks.
- CDC tested and deployed the Message Evaluation and Testing Service (METS) 2.2.0 into the production environment on 12/2/16.
 - Jurisdictions may use METS to test their Generic v2 and Hepatitis messages by accessing <https://mets.cdc.gov>. For more information on METS, please visit <https://www.cdc.gov/nmi/mets.html>.



MVPS Begins Development Sprint 28:

- Development Sprint 28 will implement the following MVPS enhancements for Generic v2 and Hepatitis:
 - date conversion feature updates,

- error and warning message fixes,
- onboarding SQL Server Integration Services (SSIS) fixes,
- system business rule updates,
- implementation of new overarching processing rules, and
- improvements to the add/edit user features.

Jurisdictions Encouraged to Check SAMS Access:

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 Technical Assistance Expected to Open in January:

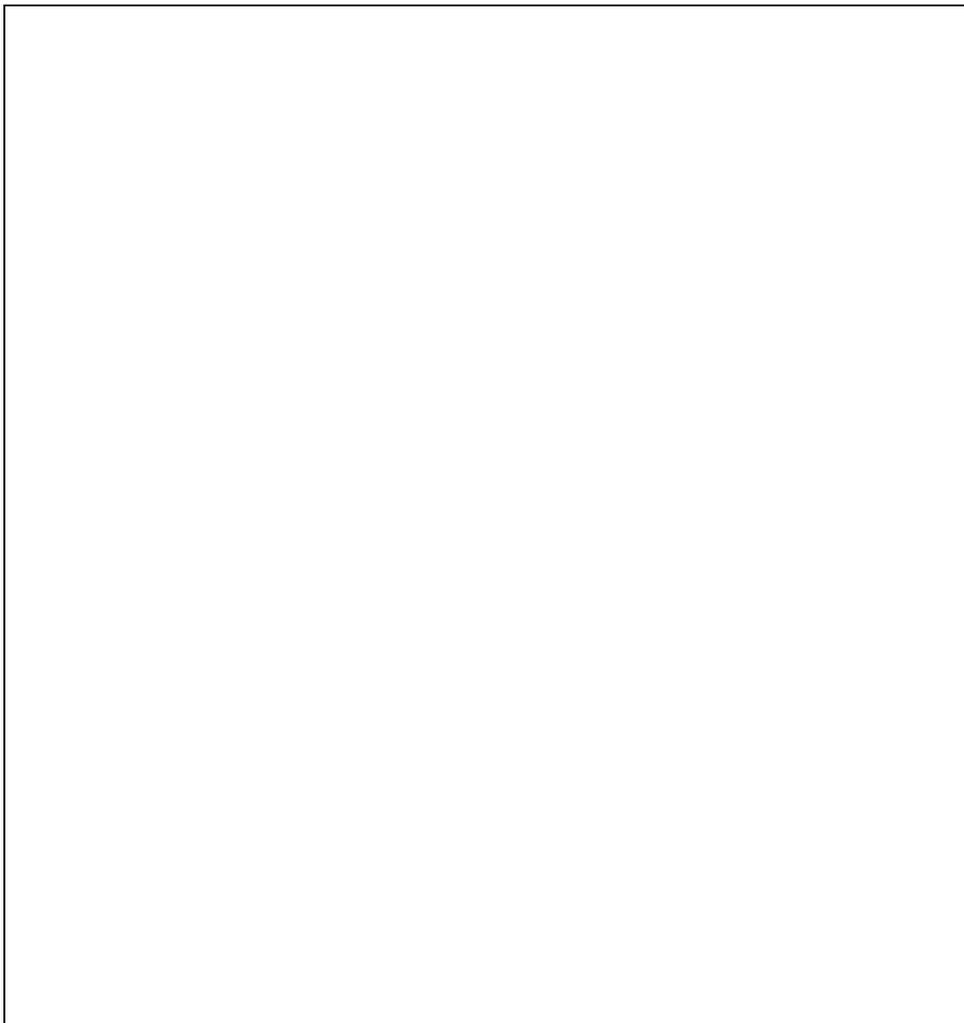
When multiple NMI pilot states have successfully onboarded MVPS, CDC expects to open NMI technical assistance to all jurisdictions for Generic v2 and Hepatitis and launch the NMI Technical Assistance and Training Resource Center in January 2017. More details will be provided soon.



NMI eSHARE Event Updates:

The next NMI eSHARE will occur in January 2017. 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	In Process	
HEP	Non-NBS	X	X	X	X	X	In Process	
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	X	X
HEP	Non-NBS	X	X	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>

CSTE Annual Conference: 6/4-6/8/17;

<http://www.csteconference.org/2017/>

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