NMI Notes

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NNDSS
National Notifiable Diseases Surveillance System

DECEMBER 2018

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Overall Updates

NNDSS Publishes Finalized Annual Infectious Disease Data
- CDC is pleased to announce that finalized 2017 National Notifiable Diseases Surveillance System (NNDSS) annual infectious disease data are now available as tables on the [data and statistics section](#) of the NNDSS webpage. In addition to links to the tables, hosted by the CDC Wide-ranging Online Data for Epidemiological Research (WONDER), the website provides detailed information about the data themselves.
- Highlights of the [tables](#) include the following:
  - Table 1 displays reported infectious notifiable disease case counts and rates for the United States overall.
  - Tables 2a–2q display reported infectious notifiable disease state and territory specific case counts.
  - Table 3 displays reported infectious notifiable disease cases by month for the United States overall.
  - Tables 4–7 display reported infectious notifiable disease case counts and rates by age group, sex, race, and ethnicity, respectively, for the United States overall.
- The list of nationally notifiable diseases for 2017 is available on the NNDSS website along with the respective national surveillance case definitions.

Reminder: Public Health Jurisdictions Should Remove Retired Event Codes
- Public health jurisdictions should remove retired NNDSS event codes from their transmissions.
- Using the correct event codes for each year is essential for CDC to classify and count the cases appropriately.
- States should reference the current [NNDSS event code list](#). States can also contact the CDC Data Operations Team at the CDC Electronic Data Exchange inbox at edx@cdc.gov to determine if they are using outdated codes.

- Having a strategy in place to handle retired event codes is strongly recommended.
- By December 31, 2018, the following retired event codes should be resolved:

Retired Event Name	Retired Event Code	Date Retired	Current Event Name	Current Event Code
Salmonellosis	11000	12/31/2017	Paratyphoid fever	50236
			Salmonellosis (excluding paratyphoid fever and typhoid fever)	50242
Streptococcus pneumoniae, drug-resistant, all age groups	11720	2010	Invasive pneumococcal disease	11723
Streptococcus pneumoniae, non-drug resistant, <5 years	11717			
Vibrio parahaemolyticus	11541	2007	Vibriosis (any species of the family *Vibrionaceae,* other than toxigenic *Vibrio cholera* O1 or O139)	11545
Vibrio spp., non-toxigenic, other or unspecified	11540			
Vibrio vulnificus	11542			

- The 2019 event code list will be published soon, retiring additional event codes.

Tips for Public Health Jurisdictions to Monitor Routine NNDSS Transmissions
- For messages sent to the Message Validation, Processing, and Provisioning System (MVPS), verify that messages were received on the MVPS Dashboard.
- For messages sent through the PHIN Messaging System (PHINMS), ensure Acknowledgements (ACK) are received for all transmissions.
- Review case counts in the NNDSS Weekly Tables.
- Troubleshooting tips:
  - Check to see if the message was successfully sent out from your disease surveillance system.
  - For National Electronic Telecommunications System for Surveillance (NETSS) messages, verify that the message file has been placed in the appropriate folder for the Secure Access Management Services (SAMS) application to pick up.
  - If you use an integration engine (e.g., Rhapsody, Mirth) to generate/extract case notification messages from your disease surveillance system, check to make sure there are no filters in your route to prevent a case notification from being sent to CDC for the condition/disease in question.
  - Verify your access to view the appropriate conditions in the MVPS Dashboard. If you have questions about your MVPS Dashboard access, email edx@cdc.gov.
  - Check PHINMS console to verify that nationally notifiable diseases (NND) message is present and being picked up and sent by PHINMS.
  - Verify that the PHINMS Service/Action pair is configured to send to the correct receiving system at CDC.
  - Check PHINMS certificates to ensure they are not expired.
  - If PHINMS is not running or not connecting, you may need to contact the PHIN Helpdesk at 800-532-9929 or phintech@cdc.gov.

- If you have done all the steps above and the issue has not been resolved, please contact CDC at edx@cdc.gov.

Alerts Regarding Expiring PHIN Digital Certificates
- The PHIN system sends expiration notices to the certificate owner at 90-, 60-, and 30-day intervals.
- The following additional communications will help improve the notification process and reduce/prevent dropped NNDSS transmissions:
  - Jurisdictions will receive an email from edx@cdc.gov forwarding the notice of expiring certificates.
  - The email will be:
    - sent for any certificates with health department or .state or .gov in the email address and
    - sent to NNDSS contacts and to Epidemiology and Laboratory Capacity Health Information Systems (ELC HIS) contacts.

Summary of Changes to 2019 NNDSS Tables and Figures
- 2019 NNDSS Weekly Tables as of January 2019:
  - The current Table 1 will be retired.
    - The information will be incorporated into current Table 2.
    - Current Table 2 will be renamed Table 1.
  - New Table 1 will include the following:
    - It will be stratified to show non-resident cases using the Country of Usual Residence data element.
    - The previous 52-week median will not be shown.
    - The previous 52-week max and year to date cumulative counts will be retained.
  - Diphtheria will only be included in the annual tables.
  - Carbapenemase-Producing Carbapenem-Resistant Enterobacteriaceae (CP-CRE) *Klebsiella*, CP-CRE *E. coli*, and CP-CRE *Enterobacter* will be consolidated to CP-CRE.
  - '*Candida auris*, clinical' will be added as a new nationally notifiable condition.
  - Paratyphoid fever and typhoid fever will be replaced with *S*. Paratyphi infection and *S*. Typhi infection, respectively.
  - Salmonellosis (excluding paratyphoid fever and typhoid fever) will be replaced with Salmonellosis (excluding *S*. Paratyphi infection and *S*. Typhi infection).
- Changes to Quarterly NNDSS Table 3 for Tuberculosis:
  - Quarterly Table 3 for tuberculosis will be renumbered to Table 2.
  - Country of Usual Residence stratification will not be applied to this table.
- Changes to Figure I:
  - Only includes data among U.S. Residents, excluding territories and non-U.S. Residents.

NMI eSHARE Updates
- The November eSHARE on 11/27/18 at 3:00 PM ET provided helpful hints for maintaining and improving NNDSS transmissions and shared changes to the NNDSS data tables that are planned for 2019.
- Please mark your calendars for the next NMI eSHARE, scheduled in the new year on January 15 at 3:00 PM ET!
- 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
- 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 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 15 jurisdictions in production for arboviral. **Congratulations to Nebraska for being the latest state in production!**
- Illinois, Mississippi, Pennsylvania, Utah, 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 20 jurisdictions in production for generic v2.
- Arizona, Georgia, New Hampshire, New Jersey, and Virginia are engaged in onboarding.
- Please see the chart below, "Jurisdiction Implementation of NNDSS HL7 Case Notification Messages," for more details.

Hepatitis
- There are 14 jurisdictions in production for hepatitis. **Congratulations to Massachusetts for being the latest state in production!**
- California and South Carolina 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)
- CDC has updated the Message Evaluation and Testing System (METS) with release 2.6.1, which includes processing validation for babesiosis. Details are available in METS [release notes](#).
- CDC has selected pilot states for the babesiosis MMG pilot process.
- The guide will be piloted in conjunction with the trichinellosis and malaria MMGs.

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.
- Michigan and Oregon are engaged in onboarding.

Foodborne and Diarrheal Disease (FDD) MMG (Stage II—Pilot Test-ready)
- CDC held MVPS user acceptance testing (UAT) for FDD from 10/15/18 to 10/25/18.
  - Oregon and New York state jurisdictions and internal CDC program representatives participated in UAT.
  - One minor system defect was identified, which will be resolved with a system update in an upcoming release.

Healthcare Associated Infections, Multi-Drug Resistant Organisms (HAI MDRO) (formerly CP-CRE) MMG (Requirements Analysis)
- CDC recently renamed the CP-CRE MMG to Healthcare Associated Infections, Multi-Drug Resistant Organisms (HAI MDRO), to reflect the additional conditions being incorporated into the MMG.
- CDC completed the CP-CRE and *C. auris* sections of the MMG and is developing the Emerging Infections Program Multi-site Gram-negative Surveillance Initiative (MuGSI) section.
- CDC is considering the best strategy for representing these conditions with event codes.

Listeriosis MMG (Stage I—Draft)
- The Council of State and Territorial Epidemiologists (CSTE) webinar to gather feedback from jurisdictions on the draft MMG is expected to be held in late January or early February 2019, with piloting to follow in the summer.

Lyme and Tickborne Rickettsial Diseases (TBRD) (Stage I—Draft)
- CDC is finalizing the changes to the MMG based on the reconciled responses from the external review.

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)
- No new updates at this time.

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)
- METS release 2.6.1 includes processing validation for RIBD. Details are available in METS release notes.
- MVPS development is in progress for the RIBD MMG.

Rubella and Congenital Rubella Syndrome (CRS) MMGs (Stage II—Pilot Test-ready)
- MVPS is beginning development work on the rubella and CRS MMGs.

Trichinellosis (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 malaria MMGs.

Tuberculosis (TB) and Latent Tuberculosis Infection (LTBI) MMG (Stage II—Pilot Test-ready)
- METS release 2.6.1 includes processing validation for TB and LTBI. Details are available in METS release notes.
- Piloting is beginning this December.

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

Jurisdiction Implementation of NNDSS HL7 Case Notification Messages

Legend:
- 🟩 = Message in Production
- 🟦 = Onboarding
- 🔵 = Receiving TA
- 🟪 = Pilot
- ⬜ (cream) = Finalized Guide
- ⬜ (gray) = In Pilot

Jurisdiction	Arboviral	Generic Version 2	Hepatitis	Congenital Syphilis	STD	Mumps	Pertussis	Varicella	Foodborne Diarrheal Disease*	TB/LTBI*
Alabama	Receiving TA	Production	Production		Pilot					
Alaska		Production	Production							
Arizona	Production	Onboarding	Receiving TA	Pilot						Pilot
Arkansas	Production	Pilot	Pilot							
California	Receiving TA	Production	Receiving TA							
Colorado		Production								
Connecticut										Pilot
Delaware	Production									
Florida	Production	Production	Production	Pilot	Pilot	Pilot	Pilot	Pilot	Pilot	
Georgia		Onboarding								Pilot
Idaho	Production	Production	Production		Pilot					
Illinois	Onboarding	Production								
Indiana	Receiving TA									
Iowa		Production								
Kansas	Receiving TA	Production				Pilot	Pilot	Pilot		
Kentucky		Pilot	Pilot							
Louisiana			Production			Pilot	Pilot			
Maine	Receiving TA									
Maryland	Production									
Massachusetts		Production	Production							
Michigan		Production	Production	Onboarding	Onboarding	Pilot	Pilot	Pilot	Pilot	
Minnesota	Receiving TA	Production							Pilot	
Mississippi	Onboarding	Production								
Nebraska	Production									
New Jersey		Onboarding								
New York	Production	Production	Production						Pilot	
New York City		Production				Pilot	Pilot			
North Carolina				Pilot	Pilot					
North Dakota	Production									
Oregon	Production	Production	Production	Onboarding	Onboarding	Pilot	Pilot		Pilot	Pilot
Pennsylvania	Onboarding									
Rhode Island	Production									
South Carolina		Production	Onboarding					Pilot		
South Dakota	Production									
Tennessee	Production		Production							
Texas	Production	Pilot	Pilot							
Utah	Onboarding	Production				Pilot	Pilot	Pilot		
Virginia		Onboarding	Production							
Washington	Onboarding									
West Virginia			Production							
Wisconsin	Production	Production	Production							

* 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; 1/15/19, 3:00PM ET;
  https://www.cdc.gov/nmi/eshare.html

Have questions or feedback on NMI Notes? Email 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*.

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