



NNDSS

National Notifiable Diseases
Surveillance System

FEBRUARY 2019

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Overall Updates

Have You Upgraded to PHINMS 3.1?

- If you have not already done so, please upgrade to PHIN Messaging System (PHINMS) 3.1, the latest version of PHINMS.
- Due to security risks, PHINMS will be able to accept messages sent only using TLS 1.2, which requires PHINMS 3.1.
- After June 30, 2019, the CDC PHINMS receiver will reject messages sent using TLS 1.0 or TLS 1.1.
- Many jurisdictions have already upgraded and are successfully using the new PHINMS software.
- Upgrading to TLS 1.2 is not complex; however, if you face challenges, both the PHINMS 3.1 installation guides and helpdesk support are readily available at the [PHINMS website](#).
- For help, contact the PHIN helpdesk at phintech@cdc.gov or 1-800-532-9929.

2018 CSTE Position Statements to be Implemented in 2019

- CSTE approved nine position statements in 2018:
 - One new nationally notifiable disease (*Candida auris*, clinical)
 - Case definition revisions for seven nationally notifiable diseases:
 - Carbon monoxide poisoning
 - Diphtheria
 - Hepatitis A viral infection, acute
 - *Salmonella* Typhi infection and *Salmonella* Paratyphi infection
 - Yellow fever

- Listeriosis: CSTE incurred a delay in finalizing this position statement; hence, there will be a delay in implementing the changes.
- Two conditions were placed under standardized surveillance but not designated nationally notifiable: *Candida auris*, colonization/screening; respiratory syncytial virus-associated mortality.
- One condition was placed under standardized surveillance for which only FoodNet sites are requested to send data to CDC (Yersiniosis, non-pestis).
- For complete details on the changes from CSTE position statements and implications for sending NNDSS case notifications for 2019, please see the January 2019 NMI eSHARE presentation and webinar recording on the [NMI eSHARE website](#).

2019 Changes to NNDSS Event Codes and Case Definitions

- NNDSS event codes that were retired and replaced are shown below.

Retired Event Name	Retired Event Code	Date Retired	Current Event Name	Current Event Code	Type of Surveillance
Paratyphoid fever (caused by <i>Salmonella</i> serotypes Paratyphi A, Paratyphi B [tartrate negative], and Paratyphi C)	50236	12/31/2018	<i>Salmonella enterica</i> serotypes Paratyphi A, B (tartrate negative) and C (<i>S. Paratyphi</i>) infection	50266	NNDSS
Typhoid fever (caused by <i>Salmonella Typhi</i>)	10240		<i>Salmonella enterica Typhi</i> (<i>S. Typhi</i>) infection	50267	NNDSS
Salmonellosis (excluding paratyphoid fever and typhoid fever)	50242		Salmonellosis (excluding <i>S. Typhi</i> infection and <i>S. Paratyphi</i> infection)	50265	NNDSS
<i>Candida auris</i>	50243	12/31/2018	<i>Candida auris</i> , clinical*	50263	NNDSS
			<i>Candida auris</i> , colonization/screening*	50264	SS
Acute carbon monoxide poisoning	32015	12/31/2018	Carbon Monoxide Poisoning*	32016	NNDSS

*Please do not transmit data for condition until CDC has received Office of Management and Budget approval. When CDC receives approval, we will share the information through NNDSS communication channels and publish the updated event code list on the [NNDSS HL7 Case Notification Resource Center](#).

- Conditions with new NNDSS event codes or changes to the case definitions follow.

Code	Condition	Changes	Type of Surveillance
11565	Yersiniosis (non-pestis)	Added (non-pestis) to the condition name; new case definition	EIP only
11646	Respiratory Syncytial Virus-Associated Deaths*	Condition under standardized surveillance; new case definition	SS
10040	Diphtheria	Updated print criteria to confirmed (removed probable and unknown); case definition revision	NNDSS
10660	Yellow fever	The request for immediate notifications has been removed; case definition revision	NNDSS
10110	Hepatitis A, acute	Added case definition revision, 2019 to the notes; case definition revision	NNDSS
In Support of Message Mapping Guides			
50120	Carbapenem-resistant <i>Enterobacteriaceae</i> (CRE)	Healthcare-associated Infections of Multi-Drug Resistant Organism MMG	EIP only
50244	Carbapenemase-producing carbapenem-resistant <i>Enterobacteriaceae</i> (CP-CRE) *	Healthcare-associated Infections of Multi-Drug Resistant Organism MMG	NNDSS
50260	Carbapenem Resistant <i>Acinetobacter baumannii</i> (CRAB)	Healthcare-associated Infections of Multi-Drug Resistant Organism MMG	EIP only
50261	Neonatal sepsis	Respiratory and Invasive Bacterial Diseases MMG	EIP only
50259	Streptococcal disease, invasive, group A	Respiratory and Invasive Bacterial Diseases MMG	EIP only
50260	Streptococcal disease, invasive, group B	Respiratory and Invasive Bacterial Diseases MMG	EIP only
11566	Enterotoxigenic <i>E.coli</i> (ETEC)	FDD MMG	EIP only

*Please do not transmit data for condition until CDC has received Office of Management and Budget approval. When CDC receives approval, we will share the information through NNDSS communication channels and publish the updated event code list on the [NNDSS HL7 Case Notification Resource Center](#).

- When sending NNDSS case notifications, use the [2019 event codes](#) for all 2019 cases and continue to use [2018 event codes](#) for all 2018 cases.

NMI eSHARE Updates

- Please join us for the February NMI eSHARE session, scheduled for Tuesday, 2/19/19, at 3:00 PM ET. The webinar will introduce cohorts—a new efficient approach to HL7 case notification technical assistance.
- Access past eSHARE presentations and details about future events at the [NMI eSHARE website](#).

ELC HIS Recipients Onboarding Reminder

- Epidemiology and Laboratory Capacity Health Information System (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
- foodborne and diarrheal diseases.

SAMS Access Reminder

- The NMI team encourages all 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 website](#).

Production HL7 Case Notification Messages

Arboviral v1.3

- Value set updates to the arboviral v1.3 MMG are as follows:
 - [Lab Test Type](#): Added the value “Arboviral Antigen” (LAB721) to the “Lab Test Type (Arbovirus)” value set. This value will be used for arboviral antigen tests, such as the NS1 test for dengue. CDC can now accept case notifications with this new test type.
 - [Virus Type](#): Added Bourbon virus, Alkhurma virus, and Heartland virus.
- Jurisdictions should update surveillance systems with updated value sets.
- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#). The “PHIN VADS [Vocabulary Access and Distribution System] links to the case notification views” link on the resource center displays all of the updated value sets for a condition.
- There are 15 jurisdictions in production for arboviral.
- Illinois, Indiana, 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

- Value set updates to the generic v2.0 MMG (impacts all messages) are as follows:
 - Birth Country, Country, and County
 - Case Transmission Mode: Added “Droplet transmission.”
- Jurisdictions should update surveillance systems with updated value sets.
- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#). The “PHIN VADS links to the case notification views” link on the resource center displays all of the updated value sets for a condition.
- There are 23 jurisdictions in production for generic v2. **Arizona and New Jersey are the latest states in production. Congratulations, Arizona and New Jersey!**
- Connecticut, Georgia, and Indiana are engaged in onboarding.
- Please see the chart below, “[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#),” for more details.

Hepatitis

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 14 jurisdictions in production for hepatitis.
- Indiana 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 Message Mapping Guide (MMG) (Stage II—Pilot Test-ready)

- CDC is updating the guide and artifacts to harmonize the information requested for clinical manifestations in the babesiosis MMG with MMGs in final status.
- CDC is piloting this guide in conjunction with the trichinellosis and malaria MMGs.

Valid Values	HL7 Message Context	HL7 Data Type
Country	OBX segment with OBX-3=INV503	CWE
Country codes for Provinces and States	OBX-5=Value from value Set	
	OBX segment with OBX-3=INV504	ST
	OBX-5=String (up to 199 characters)	RE

Carbon Monoxide Poisoning (CO) MMG (Requirements Analysis)

- CDC updated the draft MMG with 25 additional data elements.

Congenital Syphilis and STD MMGs (Stage III—Final MMG)

- Idaho, Michigan, North Carolina, and Oregon are engaged in onboarding.
- Final congenital syphilis and STD MMGs are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Please use these guides to begin implementing your case notification messages in preparation for onboarding.

Foodborne and Diarrheal Diseases (FDD) MMG (Stage III—Final MMG)

- The final FDD guide and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.

Healthcare Associated Infections, Multi-Drug Resistant Organisms (HAI MDRO) MMG (Requirements Analysis)

- CDC posted the draft MMG to the [NNDSS HL7 Case Notification Resource Center](#) for external review on 1/25/19, and the MMG is open for comment for 15 working days until 2/15/19.
- The CSTE webinar to gather feedback from jurisdictions on the draft MMG was held on 1/30/19.

Lead Poisoning MMG (Requirements Analysis)

- CDC completed pre-work for the childhood lead poisoning portion of the MMG.

Listeriosis MMG (Stage I—Draft)

- CDC is evaluating what changes to the MMG are needed to support CSTE position statement 18-ID-06.

Lyme and Tickborne Rickettsial Diseases (TBRD) (Stage I—Draft)

- No new updates at this time.

Malaria MMG (Stage II—Pilot Test-ready)

- CDC is updating the guide and artifacts to harmonize the data requested for clinical manifestations in the malaria MMG with other MMGs in final status.
- CDC is piloting this guide 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)

- CDC updated the PHIN VADS links to the mumps and pertussis case notification views on the [NNDSS HL7 Case Notification Resource Center](#) to the most recent versions on 12/21/18.
- Value set updates to the mumps and pertussis MMGs are as follows:
 - [Manufacturers of vaccines](#): Updated to reflect Immunization Program's list
 - [Case Detection Method](#): Added "Laboratory Reported"
 - [Lab Test Interpretation](#): Added "Vaccine type strain" and "Wild type strain"
 - [Complications \(Mumps\)](#): Added "Oophoritis," "Mastitis," and "Pancreatitis."
- Final mumps and pertussis MMGs are available on the [NNDSS HL7 Case Notification Resource Center](#).
- 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)

- MVPS development is in progress for the RIBD MMG.
- CDC found an overlap in data element identifiers between the RIBD and Lyme/TBRD MMGs. CDC assigned a new identifier in the RIBD MMG to resolve this issue.

Rubella and Congenital Rubella Syndrome (CRS) MMGs (Stage II—Pilot Test-ready)

- MVPS is beginning development work on the rubella and CRS MMGs.
- A data element identifier was changed to resolve a conflict between the generic v2.0 MMG and the CRS MMG.

Trichinellosis (Pilot Test Ready—Accelerated Development Pilot)

- CDC is piloting this guide in conjunction with the babesiosis and malaria MMGs.

Tuberculosis (TB) and Latent Tuberculosis Infection (LTBI) MMG (Pilot Test-ready—Accelerated Development Pilot)

- Piloting is underway.

Varicella MMG (Stage III—Final)

- CDC updated the PHIN VADS link to the varicella case notification view on the [NNDSS HL7 Case Notification Resource Center](#) to the most recent version on 12/21/18.
- Value set updates to the varicella MMG are as follows:
 - [Manufacturers of vaccines](#): Updated to reflect Immunization Program's list
 - [Case Detection Method](#): Added "Laboratory Reported"
 - [Lab Test Interpretation](#): Added "Vaccine type strain" and "Wild type strain"
 - [Complications \(Mumps\)](#): Added "Oophoritis," "Mastitis," and "Pancreatitis."
- The final varicella MMG is available on the [NNDSS HL7 Case Notification Resource Center](#).
- 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

= Message in Production
 = Onboarding
 = Receiving TA
 = Pilot
 = Finalized Guide
 = In Pilot

Jurisdiction	Arboviral	Generic Version 2	Hepatitis	Congenital Syphilis	STD	Mumps	Pertussis	Varicella	Foodborne Diarrheal Disease*	TB/LTBI*
Alabama										
Alaska										
Arizona										
Arkansas										
California										
Colorado										
Connecticut										
Delaware										
Florida										
Georgia										
Idaho										
Illinois										
Indiana										
Iowa										
Kansas										
Kentucky										
Louisiana										
Maine										
Maryland										
Massachusetts										
Michigan										
Minnesota										
Mississippi										
Nebraska										
New Jersey										
New York										
New York City										
North Carolina										
North Dakota										
Oregon										
Pennsylvania										
Rhode Island										
South Carolina										
South Dakota										
Tennessee										
Texas										
Utah										
Virginia										
Washington										
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; 2/19/19, 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*.

Centers for Disease Control and Prevention | Council of State and Territorial Epidemiologists | Association of Public Health Laboratories

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www.cste.org