

NMI Notes



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Overall Updates

Retiring Summary Records

- As we modernize NNDSS and consolidate data processing into the Message Validation, Processing, and Provisioning System (MVPS), CDC is retiring the use of summary records. Because summary records do not provide information on individual cases, only the number of cases that occurred, they do not provide rich surveillance data to CDC programs.
- It is an opportune time to retire summary records because territories that were sending summary records are implementing surveillance systems that will allow them to send case-level data and only a few other jurisdictions are still sending summary records.
- NNDSS requests that jurisdictions stop sending summary records beginning with 2020 data, with the exception of animal rabies data. CDC will continue to work with territories as they transition and with jurisdictions sending animal rabies data.
- NNDSS is coordinating with CDC programs to reach out to the few jurisdictions currently sending summary records to discuss retiring them.
- The NNDSS team is considering a mechanism that would allow jurisdictions to submit summary counts in an emergency situation (such as summary numbers of cases during a pandemic flu situation).

Update on Bridged Race Files

- The National Center for Health Statistics (NCHS) will stop producing the bridged race population estimates that are used in disease rates based on the National Electronic Telecommunications System for Surveillance (NETSS) race categories.

- NCHS no longer needs these estimates for vital records data. They plan to release postcensal vintage estimates for 2019 and intercensal estimates for 2010–2020.
- NNDSS Planning:
 - NNDSS will transition to the new race codes as soon as possible but cannot make the change until jurisdictions are sending the new HL7 messages, which provide the new race codes.
 - For publishing 2021 NNDSS data, CDC may use the 2020 estimates from the bridged race files.
 - In the following years, CDC will evaluate whether it is possible to transition to publishing data using the new race codes.

Retiring NNDSS Weekly Data Figure 1

- In 2019, CDC undertook a critical review of the content and method used to create NNDSS Weekly Infectious Disease Data, Figure 1 titled “Selected notifiable disease reports, United States, comparison of provisional 4-week totals with historical data” (https://wonder.cdc.gov/nndss/nndss_weekly_tables_menu.asp).
- Input from jurisdictions through CSTE and from CDC programs was sought to determine usefulness and desire to maintain the figure.
- A determination was made that due to the limited usefulness of Figure 1, it will no longer be published as of the first week in surveillance year 2020.

NMI eSHARE Updates

- The next NMI eSHARE session will be held on Tuesday, 10/15/19, at 3:00 PM ET. The webinar will include what jurisdictions need to know about implementing the new Lyme and tickborne rickettsial diseases (TBRD) HL7 case notification message and key PHIN Messaging System information.
- Access past eSHARE presentations and details about future events at the [NMI eSHARE website](#).

Join a Cohort to Jumpstart Your MMG Implementations!

- The NMI APHL Technical Assistance team is launching technical assistance to help groups, or *cohorts*, of public health agencies build and implement NNDSS HL7 case notification messages.
- Cohorts of 4–6 public health agencies will focus on specific message mapping guides.
- APHL subject matter experts will guide participants through planning, gap analysis, data extraction, HL7 message creation, and validation. At completion, public health agencies will be ready to begin onboarding.
- For those interested in joining a cohort, please email the CDC Electronic Data Exchange mailbox at edx@cdc.gov.

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

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 21 jurisdictions in production for arboviral.
- Alabama, Indiana, Louisiana, New Jersey, Washington, and Wyoming are engaged in onboarding.
- Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for more details.



Congenital Syphilis (CS) and STD

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
 - The STD v1.0.1 MMG and associated artifacts were posted on 7/22/19. The new version of the MMG includes an updated value set.
 - The STD v1.0 MMG is still supported.
- CDC is working on a schedule for states waiting to onboard and will provide details in future status updates.
- Pilot jurisdictions Connecticut, Michigan, and North Carolina are engaged in onboarding.
- Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for more details.

Generic v2

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- There are 27 jurisdictions in production for generic v2.
- Indiana, Kentucky, Rhode Island, and Tennessee 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 17 jurisdictions in production for hepatitis.
- Nebraska, Puerto Rico, and Rhode Island are engaged in onboarding.
- Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for more details.

Mumps and Pertussis

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Due to work on measles outbreaks and other MMGs from this center, CDC anticipates opening onboarding to additional jurisdictions in early 2020.
- Please see the chart below, "[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#)," for more details.

Tuberculosis (TB) and Latent Tuberculosis Infection (LTBI)

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
 - CDC expects to post minor updates to the MMG (v 3.0.1) and artifacts by the end of September.
- Pilot jurisdiction Arizona is engaged in onboarding.

- Please see the chart below, “[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#),” for more details.

Varicella

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- Due to work on measles outbreaks and other MMGs from this center, CDC anticipates opening onboarding to additional jurisdictions in early 2020.
- Please see the chart below, “[Jurisdiction Implementation of NNDSS HL7 Case Notification Messages](#),” for more details.

Developing HL7 Case Notification Messages

Babesiosis (Stage III—Final MMG)

- The MMG 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.

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

Bacterial Special Pathogens (Requirements Analysis)

- CDC is developing an MMG for brucellosis, anthrax, leptospirosis, and Hansen’s disease.
- The CDC MMG team and CDC program are holding weekly MMG development meetings.

Carbon Monoxide Poisoning (CO) (Stage I—Draft)

- CDC is reconciling feedback received during the MMG external review period, which ended on 8/22/19.
- CDC also is finalizing the list of data elements to be included in the 2019 Office of Management and Budget (OMB) revision.

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

- The MMG and artifacts are available on the [NNDSS HL7 Case Notification Resource Center](#).
- CDC also posted a data element priority list on the [NNDSS HL7 Case Notification Resource Center](#) on 7/22/19.
- CDC continues to assist pilot jurisdictions during the onboarding process.
- Please use this guide to begin implementing your case notification messages in preparation for onboarding.

Healthcare Associated Infections, Multi-Drug Resistant Organisms (HAI MDRO) (Stage II—Pilot Test-ready)

- The CDC MMG team delivered an updated version of the pilot test-ready MMG to the NMI teams in August.

Lead Poisoning (Requirements Analysis)

- The CDC program has requested a delay in work on this MMG.

Listeriosis (Stage I—Draft)

- No new updates at this time.

Lyme and Tickborne Rickettsial Diseases (TBRD) (Stage III—Pilot Test-ready)

- The MMG 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.

Malaria (Stage III—Final MMG)

- The MMG 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.

Measles (Stage II—Pilot Test-ready)

- Piloting is underway.
- CDC is piloting this guide in conjunction with the rubella and CRS MMGs.

Respiratory and Invasive Bacterial Disease (RIBD) (Stage II—Pilot Test-ready)

- CDC completed user acceptance testing for RIBD at the end of August.
- CDC is finalizing the MMG and artifacts.

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

- Piloting is underway.
- CDC is piloting these guides in conjunction with the measles MMG.

Trichinellosis (Stage III—Final MMG)

- CDC recently posted a minor update to the MMG (v 1.0.1) and artifacts 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

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

| Jurisdiction | Arboviral | GenV2 | Hepatitis | Congenital Syphilis | STD | Mumps | Pertussis | Varicella | Foodborne Diarrheal Disease | TB/LTBI | Malaria* | Trichinellosis* | Babesiosis* | RIBD* | Lyme/ TBIRD* | HAI MDRO* | Rubella* | CRS* | Measles* |
|----------------|-----------|-------|-----------|---------------------|-----|-------|-----------|-----------|-----------------------------|---------|----------|-----------------|-------------|-------|--------------|-----------|----------|------|----------|
| Alabama | | | | | | | | | | | | | | | | | | | |
| Alaska | | | | | | | | | | | | | | | | | | | |
| Arizona | | | | | | | | | | | | | | | | | | | |
| Arkansas | | | | | | | | | | | | | | | | | | | |
| California | | | | | | | | | | | | | | | | | | | |
| Colorado | | | | | | | | | | | | | | | | | | | |
| Connecticut | | | | | | | | | | | | | | | | | | | |
| Delaware | | | | | | | | | | | | | | | | | | | |
| Florida | | | | | | | | | | | | | | | | | | | |
| Georgia | | | | | | | | | | | | | | | | | | | |
| Hawaii | | | | | | | | | | | | | | | | | | | |
| Idaho | | | | | | | | | | | | | | | | | | | |
| Illinois | | | | | | | | | | | | | | | | | | | |
| Indiana | | | | | | | | | | | | | | | | | | | |
| Iowa | | | | | | | | | | | | | | | | | | | |
| Kansas | | | | | | | | | | | | | | | | | | | |
| Kentucky | | | | | | | | | | | | | | | | | | | |
| Louisiana | | | | | | | | | | | | | | | | | | | |
| Maine | | | | | | | | | | | | | | | | | | | |
| Maryland | | | | | | | | | | | | | | | | | | | |
| Massachusetts | | | | | | | | | | | | | | | | | | | |
| Michigan | | | | | | | | | | | | | | | | | | | |
| Minnesota | | | | | | | | | | | | | | | | | | | |
| Mississippi | | | | | | | | | | | | | | | | | | | |
| Montana | | | | | | | | | | | | | | | | | | | |
| Nebraska | | | | | | | | | | | | | | | | | | | |
| Nevada | | | | | | | | | | | | | | | | | | | |
| New Jersey | | | | | | | | | | | | | | | | | | | |
| New York | | | | | | | | | | | | | | | | | | | |
| New York City | | | | | | | | | | | | | | | | | | | |
| North Carolina | | | | | | | | | | | | | | | | | | | |
| North Dakota | | | | | | | | | | | | | | | | | | | |
| Oregon | | | | | | | | | | | | | | | | | | | |
| Pennsylvania | | | | | | | | | | | | | | | | | | | |
| Rhode Island | | | | | | | | | | | | | | | | | | | |
| Puerto Rico | | | | | | | | | | | | | | | | | | | |
| South Carolina | | | | | | | | | | | | | | | | | | | |
| South Dakota | | | | | | | | | | | | | | | | | | | |
| Tennessee | | | | | | | | | | | | | | | | | | | |
| Texas | | | | | | | | | | | | | | | | | | | |
| Utah | | | | | | | | | | | | | | | | | | | |
| Virginia | | | | | | | | | | | | | | | | | | | |
| Washington | | | | | | | | | | | | | | | | | | | |
| West Virginia | | | | | | | | | | | | | | | | | | | |
| Wisconsin | | | | | | | | | | | | | | | | | | | |
| Wyoming | | | | | | | | | | | | | | | | | | | |

* 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; 10/15/19, 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*.

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

Write: edx@cdc.gov Visit: www.cdc.gov/nmi

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