Colleagues,

Please find below the National Notifiable Diseases Surveillance System (NNDSS) Modernization Initiative (NMI) Technical Assistance (TA) Coordination Team Update for May 22, 2015. These e-mail updates are a collaboration among the Centers for Disease Control and Prevention (CDC), Council of State and Territorial Epidemiologists (CSTE), and the Association of Public Health Laboratories (APHL) and will be sent biweekly in an effort to keep reporting jurisdictions and other partners and stakeholders updated on the progress of NMI.

For more information on NMI, please see the NMI FAQS at http://www.cdc.gov/nmi/faq.html. If you have questions not answered in the FAQs, please send them to edx@cdc.gov.

NNDSS Modernization Initiative Technical Assistance Coordination Team Update
May 22, 2015

NMI Overall Updates
- Staff members from all three NMI partners—CDC, CSTE, and APHL—will share NMI accomplishments and plans during several NMI-related sessions at the upcoming CSTE Annual Conference, to be held in Boston, Massachusetts, from 6/14/15 to 6/18/15.
- Planning is underway for the CSTE Surveillance and Informatics Preconference Workshop, to be held on Sunday, 6/14/15.
  - CDC Division of Health Informatics and Surveillance (DHIS) and Office of Infectious Diseases staff are collaborating on ideas for the NNDSS-related components of the CSTE Surveillance and Informatics Preconference Workshop.
  - This session will help to identify best practices for case notification and explore ways to increase the utility of the NNDSS data published through the *Morbidity and Mortality Weekly Report*.

Message Mapping Guide Development Updates
- The CDC Surveillance Operations Team (SOT) completed their review and evaluation of the harmonization potential for the more than 5,000 data elements collected in NNDSS submissions. The team's work will provide a starting point for the CDC data element standardization and harmonization effort.
- **Message Mapping Guide (MMG) Status Updates:**
  - **Mumps and Pertussis MMGs** (Stage 1—Draft Phase):
    - The MMG Development Team posted the restructured Mumps and Pertussis MMGs to the Draft MMG Web Site on 4/29/15. The second external review period of 3 weeks is from 4/29/15 to 5/22/15.
    - In conjunction with DHIS and the CDC National Center for Immunization and Respiratory Diseases, CSTE conducted a webinar for jurisdictions on 5/8/15 about the summary of changes to the Mumps and Pertussis MMGs.
  - **Congenital Syphilis and STD MMGs** (Stage II—Pilot Test-ready Draft Phase)
    - The MMG Development Team posted pilot test-ready versions of the STD and Congenital Syphilis MMGs and their artifacts to the Draft MMG Web Site.
  - **Generic v2 and Hepatitis MMGs** (Stage II—Pilot Test-ready Draft Phase)
    - The MMG Development Team posted pilot test-ready versions of the Generic v2 and Hepatitis MMGs and their artifacts to the Draft MMG Web Site.
  - No guides are in Stage III—Final MMG Phase at this time.

Message Validation, Processing, and Provisioning System Updates
- The Message Validation, Processing, and Provisioning System (MVPS) developer is currently finalizing the development of the message processing functions for Generic v2, Hepatitis, and STD requirements.
    - The developer and the MVPS requirements team are having ongoing discussions regarding implementation options and assumptions for some of the lab data elements (e.g., LAB101 and LAB573), which will affect the Hepatitis and STD timelines.
    - The MVPS developer is expected to deliver the message processing code to CDC in support of these requirements in late May 2015 for Generic v2 and early June 2015 for Hepatitis and STD.
- The MVPS Team continues to work on finalizing the data provisioning requirements and data dictionary mapping for Generic v2, Hepatitis, and STD in conjunction with SOT and the CDC Message and Vocabulary (M&V) Team.
    - The MVPS Team reviewed the Generic v2 requirements with SOT and M&V team members during the weeks of 5/11/15 and 5/18/15 and expects to deliver a draft to the MVPS developer the week of 5/26/15. The MVPS team will soon schedule time with CDC programs to discuss the data provisioning design and approach.
    - The goal is to complete the data provisioning requirements in June 2015 and provide all data provisioning requirements to the MVPS developer at that time.
    - Based upon the Generic v2 data provisioning requirements and approach, the MVPS developer will re-estimate the data provisioning code delivery to CDC in support of Generic v2, Hepatitis, and STD.
- The MVPS Team is preparing for the move ("cutover") to a multi-server environment, expected in May 2015.
    - The cutover depends on the approval of the authority to operate (ATO) from the CDC Office of the Chief Information Security Officer, which is still in the final stages of review and anticipated to be completed in May.
    - Once the ATO is received, the MVPS Team will transition production to the multi-server environment.
    - The MVPS Team will then submit a change request to the MVPS developer to incorporate the security code in the multi-server environment.
- Once the multi-server environment is in production, the MVPS Dashboard and message processing code will be installed in the test environment and technical acceptance testing of them will occur.
- The code for the Message Evaluation and Testing Service (METS) tool is not constrained by the ATO and is expected to be installed and tested earlier than the MVPS Dashboard. The MVPS Team plans to make the METS code available to jurisdictions as soon as possible, with a target date of early June 2015, to support jurisdictions in their independent validation testing of Hepatitis, STD, and Generic v2 messages.

NBS Updates
- National Electronic Disease Surveillance System Base System (NBS) 4.6 Update:
    - CDC released NBS 4.6 Beta version 1 on 5/15/15. NBS pilot jurisdictions will use this software version to implement and test the features supporting the new Hepatitis and STD guides and porting of hepatitis data into the new pages.
    - CDC expects to release NBS 4.6 Beta version 2 on 6/12/15. This version will incorporate the tool to migrate STD data from any STD information system to NBS.
    - CDC expects to provide a final full version of NBS 4.6 on 8/14/15.
- NMI Pilot Testing Update:
    - NBS pilot sites for the Hepatitis MMG are Arkansas, Idaho, Kentucky, Louisiana, Tennessee, and Texas.
    - NBS pilot sites for the STD MMG are Alabama and Idaho.

Technical Assistance Updates

- The APHL Technical Assistance (TA) Team continues to work with the pilot jurisdictions participating in the NMI TA Pilot Phase II, wave 1 (occurring now through 6/30/15).
  - The APHL TA Team was onsite at the California Department of Health the week of 5/4/15, working on implementing the Hepatitis and STD case notification messages.
  - The team provided on-site technical assistance to the Minnesota Department of Health on 5/13/15 to 5/14/15. The site visit focused on the technical aspects of working with Maven.
  - The team is scheduled to provide on-site technical assistance to the Oregon Department of Health the week of 6/8/15.
  - Florida and Michigan continue to work virtually with the APHL TA Team to prepare for the implementation of the new case notification messages.
  - The New York Department of Health is serving as an independent pilot site for NMI and has received TA tools from the APHL TA Team. New York also will participate in the NMI evaluation process.
- APHL continues to develop and refine NMI TA tools and resources, including the Rhapsody route and Mirth channel for Hepatitis and STD.
- CDC is working with APHL, jurisdictions who use Maven, and the vendor to explore options for how to implement the HL7 case notification messages in a way that is cost efficient and reusable.
- CSTE will work with all of the pilot jurisdictions to evaluate the NMI TA efforts.
- Reminder about MMG status:
  - MMGs in Stages I and II are considered draft and may be revised until the time they are finalized.
  - Those jurisdictions selected for pilot testing of the test-ready versions (Stage II) of the MMGs should wait until contacted by the NMI TA Team before using the test-ready MMGs, before implementing surveillance information system changes, and before submitting test messages to CDC.
  - All other jurisdictions should not plan to submit data to CDC or implement MMG-based updates to their surveillance information systems until the final MMGs (Stage III) have been posted.
- For more information about technical assistance:
  - Please see the NMI FAQs at http://www.cdc.gov/nmi/faq.html.
  - For pilot jurisdictions: If you have questions specific to NMI TA, please contact Laura Carlton, APHL, at laura.carlton@aphl.org.
  - For non-pilot jurisdictions: If you have questions or would like to request TA through the Epidemiology and Laboratory Capacity for Infectious Diseases (ELC) Cooperative Agreement, please email edx@cdc.gov.

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