National Healthcare Safety Network (NHSN)
Antimicrobial Use and Antimicrobial Resistance Reporting for Meaningful Use Stage 3

Joint Public Health Forum
&
CDC Nationwide Webinar

November 17, 2016
Joint Public Health Forum & CDC Nationwide

[Website Link]

Meaningful Use

Introduction
Calendar
Connect with Others
CDC Meaningful Use ListServ
Meaningful Use Community
Public Health - EHR Vendors Collaboration Initiative
Joint Public Health Forum & CDC Nationwide
Meaning Use (MU) Public Health (PH) Reporting Requirements Task Force
Community of Practice (CoP)
ELR Task Force
Jurisdiction Meaningful Use Websites
S & Framework
Reportable Conditions Knowledge Management System
External Links

Meaningful Use

Joint Public Health Forum & CDC Nationwide

Community Profile

The Office of the National Coordinator for Health IT (ONC) and the Centers for Disease Control & Prevention (CDC) jointly sponsor this initiative, which features monthly webinars to foster collaboration amongst the public health jurisdictions across the nation, in response to the widespread adoption of electronic health records (EHRs) for Meaningful Use.

The objectives for this initiative include:
- Identify common questions and concerns around meaningful use
- Provide updates on federal partner activities in preparing for meaningful use
- Allow public health jurisdictions to share useful practices and current progress
- Identify technical assistance needs and priorities

Note: Webinar pre-registration is required and the instructions to register are provided in the Monthly Webinar Registration section below.

Please send in your feedback, questions, and/or suggestions for these Joint Public Health Forum & CDC Nationwide Webinars to the Meaningful Use Mailbox (meaningfuluse@cdc.gov).

Meeting Schedule and Webinar Information
Meeting Schedule:
Question and Answer Session

How to submit or ask questions for the panel members?

Submit or Ask Questions

• Submit your text question and comments using the Question Panel

• Please raise your hand to be unmuted for verbal questions.
National Healthcare Safety Network (NHSN) Antimicrobial Use and Antimicrobial Resistance Reporting for Meaningful Use Stage 3

November 17, 2016

Amy Webb & Mindy Durrance
Division of Healthcare Quality Promotion
National Center for Emerging and Zoonotic Infectious Diseases
Centers for Disease Control and Prevention
# MU Stage 3 Requirement

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ONC Regulation/ Certification Edition</td>
<td>2014 CEHRT</td>
<td>2015 CEHRT</td>
</tr>
<tr>
<td>MU Objective</td>
<td>Public Health Registry Reporting</td>
<td>Public Health and Clinical Data Registry Reporting</td>
</tr>
<tr>
<td>MU Eligible Entities</td>
<td>(EPs-Eligible Professionals; EHs- Eligible Hospitals; CAHs-Critical Access Hospitals)</td>
<td>EPs in Stage 1, 2015: 1; EPs in Stage 2, 2015: 2; EPs in 2016 or 2017: 2; EHs, CAHs in Stage 1, 2015: 2; EHs, CAHs in Stage 2, 2015: 3; EHs, CAHs in 2016 or 2017: 3</td>
</tr>
<tr>
<td>Measure Name</td>
<td>Provider Type Availability</td>
<td>ONC-Adopted Standard (2014 CEHRT)</td>
</tr>
<tr>
<td>Public Health Registry Reporting</td>
<td>EP, EH, CAH</td>
<td>Not included in Modified Stage 2. See Measure 3- Specialized Registry Reporting.</td>
</tr>
</tbody>
</table>

- **Measure 4**: Starting in 2018, only standard based transmissions will be accepted based on the standards listed below.
- **Antimicrobial use and resistance reporting to NHSN-HL7**: Implementation Guide for CDA® Release 2—Level 3: Healthcare Associated Infection Reports, Release 1; U.S. Realm (August 2013) (Eligible Hospitals/CAHs only)
Outline

- Overview of NHSN
- Reporting into the AUR Module
  - AU Option
  - AR Option
- Meaningful Use Stage 3 NHSN AUR Set Up & Reports
- Additional Resources
OVERVIEW OF NHSN
National Healthcare Safety Network (NHSN)

- A secure, Internet-based surveillance system managed by the CDC

- Collects mandated and voluntarily reported data on:
  - Healthcare-associated infections (HAIs)
  - Antimicrobial use and resistance
  - Healthcare personnel influenza vaccination
  - Blood safety

- Over 19,000 healthcare facilities enrolled in NHSN
NHSN Structure

NHSN

- Patient Safety Component
  - Device-Associated Module
  - Procedure-Associated Module
- Healthcare Personnel Safety Component
- Biovigilance Component
- Long-Term Care Component
- Dialysis Component

- MDRO/CDI Module
- Antimicrobial Use & Resistance Module
  - Antimicrobial Use Option
  - Antimicrobial Resistance Option

*NOTE: AUR Module is the ONLY part of NHSN that qualifies for MU3*
ANTIMICROBIAL USE (AU) OPTION
NHSN Antimicrobial Use (AU) Option

- Released in 2011

- Purpose:
  - Provide a mechanism for facilities to report and analyze antimicrobial usage as part of antimicrobial stewardship efforts at their facility
  - Allow for risk-adjusted comparison of antimicrobial use to a national aggregate
Requirements for AU Data Submission
Who Can Participate?

- **Hospitals*** that have:
  - Electronic Medication Administration Record (eMAR), or
  - Bar Coding Medication Administration (BCMA) systems
  AND
  - Ability to collect and package data using HL7 standardized format: Clinical Document Architecture
    - Participating 3rd party vendors: [http://www.sidp.org/aurvendors](http://www.sidp.org/aurvendors)
    - “Homegrown” vendors

*General acute care hospitals, long-term acute care hospitals (LTAC), inpatient rehabilitation facilities (IRF), oncology hospitals, critical access hospitals enrolled in NHSN
What Data Are Collected?

- **Monthly aggregate, summary-level data**
  - All inpatient locations individually & combined (FacWideIN)
  - 3 outpatient locations (ED, pediatric ED, 24 hour observation)

- **Numerator: Antimicrobial days (Days of Therapy)**
  - 89 antimicrobials – includes antibacterial, antifungal, and anti-influenza agents
    - Sub-stratified by route of administration:
      - Intravenous (IV)
      - Intramuscular (IM)
      - Digestive (oral - rectal)
      - Respiratory (inhaled)

- **Denominators:**
  - Days Present - number of days spent in specific unit or facility
    - Days present ≠ Patient days
  - Admissions - number of patients admitted to the facility
What is Clinical Document Architecture (CDA)?

- **Standard that specifies:**
  - Structure and semantics of a clinical document
  - For information exchange between systems

- **HL7 (Health Level 7) provides an Implementation Guide**
  - “How to…”

- **Used for importing Antimicrobial Use, Antimicrobial Resistance, and Healthcare Associated Infection data into NHSN**
AU Data from eMAR/BCMA to CDA

1. eMAR/BCMA captures drug administration

2. Vendor or ‘homegrown’ system extracts and aggregates data elements
   a) eMAR/BCMA administration data
   b) ADT (admission, discharge, transfer data)

3. “Package” AU data into CDA files using an XML format

```
<-- stratified data: Drug + route -->
  <entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.5.6.69"/>
      <code code="2524-7" display="Number of Therapy Days" codeSystemName="cdcNHSN" codeSystem="2.16.840.1.113883.6.277"/>
      <statusCode code="completed"/>
      <value value="0" unit="d" xsi:type="PO"/>
      <methodCode code="2523-9" display="Respiratory tract route" codeSystemName="cdcNHSN" codeSystem="2.16.840.1.113883.6.277"/>
      <!-- how actually administered -->
      <participant typeCode="CSM">
        <!-- antimicrobial Drug -->
        <participantRole classCode="MANU">
          <code code="641" display="Amikacin" codeSystemName="RxNorm" codeSystem="2.16.840.1.113883.6.88"/>
        </participantRole>
      </participant>
    </observation>
  </entryRelationship>
```
Monthly AU Data Submission

- **Recommend:** Upload within 30 days following the completion of the month
- **1 CDA file per location & 1 CDA file for FacWideIN**
  - Example for a facility with 5 locations
    - 1 CDA for Adult Medical/Surgical ICU
    - 1 CDA for Adult Medical/Surgical Ward
    - 1 CDA for Pediatric Medical/Surgical Ward
    - 1 CDA for Labor & Delivery Ward
    - 1 CDA for Emergency Department
    - 1 CDA for FacWideIN (combination of all 4 inpatient locations above)
  - Each single CDA file contains numerator and denominator(s) for the given location
  - All CDA files are uploaded within 1 Zip file
ANTIMICROBIAL RESISTANCE (AR) OPTION
Antimicrobial Resistance (AR) Option

- Released in July 2014

- **Purpose:**
  - Facilitate evaluation of antimicrobial resistance data using standardized approach
  - Provide facilities with improved awareness of a variety of AR issues to aid in clinical decision making and prioritize transmission preventions efforts
Requirements for AR Data Submission
Who Can Participate?

- Hospitals* that have:
  - Electronic Laboratory Information System (LIS) and
  - Admission Discharge Transfer (ADT) System
  - Or electronic access to required data elements

AND

- Ability to collect and package data using HL7 standardized format: Clinical Document Architecture
  - 3rd party vendor or “Homegrown” solution

*General acute care hospitals, long-term acute care hospitals, inpatient rehabilitation facilities, oncology hospitals, critical access hospitals enrolled in NHSN
AR Data Elements
What Data Are Collected?

- **Numerator:** Patient-level susceptibility results for specific organisms
  - DOB, gender, date admitted to facility, location
  - Specimen collection date, specimen source
    - Blood, cerebral spinal fluid (CSF), urine, lower respiratory
  - Organism & antimicrobial susceptibility data for each antimicrobial required for the isolated organism/specimen type
    - Values for E-test, MIC, and Disk diffusion (KB)
    - Final lab interpretation
      - S, S-DD, I, R, NS, N

- **Denominator:** Patient days & admissions (facility-wide only)
AR Option – Eligible Organisms

- All *Acinetobacter* species
- *Candida albicans*
- *Candida auris*
- *Candida glabrata*
- *Citrobacter freundii*
- All *Enterobacter* species
- *Enterococcus faecalis*
- *Enterococcus faecium*
- *Enterococcus* spp. (when not specified to the species level)
- *Escherichia coli*
- Group B *Streptococcus*
- *Klebsiella oxytoca*
- *Klebsiella pneumonias*
- *Morganella morganii*
- *Proteus mirabilis*
- *Pseudomonas aeruginosa*
- *Serratia marcescens*
- *Staphylococcus aureus*
- *Stenotrophomonas maltophilia*
- *Streptococcus pneumoniae*
### AR Option – Organism/Agent Combinations

Selected antimicrobial agents are required to be reported for each of the organisms per specimen type.

- Full list can be found in the NHSN AUR Module Protocol: [http://www.cdc.gov/nhsn/PDFs/pscManual/11pscAURcurrent.pdf](http://www.cdc.gov/nhsn/PDFs/pscManual/11pscAURcurrent.pdf)

<table>
<thead>
<tr>
<th>Organism</th>
<th>Specimen Type</th>
<th>Antimicrobial Agents</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Staphylococcus aureus</em></td>
<td>Blood, Urine, Lower Respiratory, CSF</td>
<td>Azithromycin, Cefotaxim, Chloramphenicol, Ciprofloxacin, Clarithromycin, Clindamycin, Daptomycin, Doxycycline, Erythromycin, Gentamicin, Levofoxacin, Linezolid, Minocycline, Moxifloxacin, Ofloxacin, Oxacillin or Naflillin, Penicillin, Quinupristin-dalfoprisin, Rifampin, Telithromycin, Tetracycline, Trimethoprim-sulfamethoxazole, Vancomycin</td>
</tr>
<tr>
<td></td>
<td>Additional Agents for Urine</td>
<td>Lomefloxacin, Nitrofurantoin, Norfloxacin, Sulfisoxazole, Trimethoprim</td>
</tr>
</tbody>
</table>
AR Option Event Reporting

- **Each** eligible organism isolated from an *invasive* source (blood or cerebrospinal fluid [CSF]) per patient, per 14 day period even across calendar months

- **First** eligible organism isolated from any eligible *non-invasive* culture source (lower respiratory or urine), per patient, per month

Monthly AR Data Submission

- Recommend: Upload within 30 days following the completion of the month
- 1 CDA file per organism (AR Event) & 1 CDA file for denominator
  - Example:
    - 50 separate CDA files for 50 separate AR Events identified per NHSN definitions in that month
    - 1 CDA for facility-wide denominators (patient days and admissions for all inpatient locations)
  - All CDA files are uploaded within 1 Zip file
    - Maximum: 500 CDAs or file size of 1 MB per zip file
Importing CDA Files into NHSN

- Manual upload
- Automatic upload from vendor/IT solution using DIRECT CDA Automation
MEANINGFUL USE STAGE 3
NHSN AUR SET UP & REPORTS
MU3 may be demonstrated by the following options

- **Option.1** - Completed Registration of Intent to Submit Data

- **Option.2** - Testing and Validation
  - Built in process for NHSN application

- **Option.3** - Submission of Production Data
Suggested Pre-requisite for NHSN MU3 Registration

- Ability to Submit AU and AR data into NHSN (or very close to submitting)
Tasks for “Vendors” or “Do it yourself facilities” to complete prior to MU3 registration:

- Facility enrolled in NHSN, locations are mapped within NHSN, and monthly reporting plans exist for month/year of data to be transmitted
- Ability to collect the data
- Include business rules in coding and reporting
- Create the AU and AR CDAs based on the HL7 R1-Norm Implementation Guide
- Validate the CDAs using “AUR-MU3 Validation Tool” or the “Lantana Group Validator”
- Complete successful CDA import into a test facility via manual import
  - Option.2 - Testing and Validation
  - Complete successful CDA import into a real facility
    - Option.2 - Testing and Validation
- Complete internal data validation
- NHSN teams work with CDA implementers throughout their process to successfully import CDAs
  - Helpdesk, individual conference calls, etc.
CDA Import Report

- **MU3: Option.2 - Validation**
  - Occurs for each CDA zip file imported

- **Successful Import**
  - Displayed in the “Valid” section

- **Failed Import**
  - Displayed in the “CDA(s) Failed” section
    - Errors occur when...
      - CDA is not formatted correctly
      - Does not adhere to protocol business rules
      - Does not adhere to general NHSN business rules
      - Etc.
MU3 Registration within NHSN

- NHSN Facility Administrator is the only user able to register for AUR MU3 Intent
  - Click “Facility” > “AUR MU3 Registration”
  - No other NHSN facility user will see the “AUR MU3 Registration” pages

*NOTE: Screenshots represent layout and functionality available in upcoming NHSN release scheduled for December 2016*
AUR Meaningful Use 3 Registration

NHSN Antimicrobial Use and Antimicrobial Resistance reporting has been identified as an option for public health registry reporting under Meaningful Use Stage 3 (§ 170.315(f)(6)).

By checking this box, John Public registers facility XYZ (dev) Medical Center (10009) intent to satisfy a Meaningful Use 3 objective by submitting NHSN Antimicrobial Use and Antimicrobial Resistance (AUR) monthly data via an electronic interface.

Active engagement for this Meaningful Use 3 (MU3) objective includes monthly reporting of Antimicrobial Use Summary, Antimicrobial Resistance Events and Summary data to NHSN for a full calendar year.

Reporting to production must begin within 60 days of registration of Intent.

For each year, data intended for inclusion in the annual MU3 status report must be received no later than the end of January of the following year (i.e., AUR data for 2017 must be reported into NHSN by January 31, 2018).

The below recipients shall receive NHSN MU3 registration confirmation as well as monthly and annual status report emails. Please enter up to two optional additional email addresses that should receive this information regarding your facility’s NHSN MU3 status.

NHSN Facility Administrator: FacAdmin@Hosp.com
Optional facility MU3 contact: Email-1@hosp.com
Optional facility MU3 contact: Email-2@hosp.com

Date Registration of Intent Completed: 01/06/2017
Request AUR MU3 Status Report by Year: Reports

To complete registration, verify all information on this page and click the SAVE button.
AUR MU3 Registration Confirmation

- User must confirm registration

- Completed registration cannot be removed
  - Optional emails may be changed
  - If NHSN Facility Administrator is re-assigned, email for AUR MU3 will be auto-updated
MU3 Option.1 - Completed Registration of Intent to Submit Data

- **Subject:**
  - …registration of intent complete

- **Active engagement:**
  - Submit data for full calendar year

- **Next Steps:**
  - Reporting of production data must begin within 60 days
Reports for NHSN AUR MU3

- Distributed via email with attached report to:
  - NHSN Facility Administrator
  - Optional NHSN MU3 emails

- Methods:
  - Automatic email
  - Ad-hoc request within NHSN

- AUR data displayed by month for the requested year
Reports for NHSN AUR MU3

Monthly Report
- Example - if a user signs up in January 2017, a monthly auto-generated email with the report attached will be sent during the months of March 2017 through February 2018 displaying status of AUR 2017 data.

Annual Report
- Auto-generated email with the report attached will be sent on February 1 of following year
  - Example – status of 2017 data will be displayed on annual report that is generated on February 1, 2018
- Serves as the final query for the calendar year
Automated Report Schedule for NHSN AUR MU3

- Based on recommendation to upload data within 30 days following the completion of the month

<table>
<thead>
<tr>
<th>Run Automated report on 1st Day of each Month</th>
<th>Range of data queried</th>
<th>Report Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan - 2017</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Feb - 2017</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Mar - 2017</td>
<td>Jan</td>
<td>Monthly</td>
</tr>
<tr>
<td>Apr - 2017</td>
<td>Jan - Feb / 2017</td>
<td>Monthly</td>
</tr>
<tr>
<td>May - 2017</td>
<td>Jan - March / 2017</td>
<td>Monthly</td>
</tr>
<tr>
<td>Jun - 2017</td>
<td>Jan - April / 2017</td>
<td>Monthly</td>
</tr>
<tr>
<td>Jul - 2017</td>
<td>Jan - May / 2017</td>
<td>Monthly</td>
</tr>
<tr>
<td>Aug - 2017</td>
<td>Jan - June / 2017</td>
<td>Monthly</td>
</tr>
<tr>
<td>Sep - 2017</td>
<td>Jan - July / 2017</td>
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<td>Oct - 2017</td>
<td>Jan - Aug / 2017</td>
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<td>Nov - 2017</td>
<td>Jan - Sept / 2017</td>
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<tr>
<td>Dec - 2017</td>
<td>Jan - Oct / 2017</td>
<td>Monthly</td>
</tr>
<tr>
<td>Jan - 2018</td>
<td>Jan - Nov / 2017</td>
<td>Monthly</td>
</tr>
<tr>
<td>Feb - 2018</td>
<td>Jan - Dec / 2017</td>
<td>Annual</td>
</tr>
</tbody>
</table>
March 1, 2017

To: XYZ (dev) Medical Center  
1234 Main St.  
Oak Ridge, FL 32191

From: National Healthcare Safety Network  
Division of Healthcare Quality Promotion  
National Center for Emerging and Zoonotic Infectious Diseases  
Centers for Disease Control and Prevention

Subject: Meaniningful Use 3 Status Report of 2017 for reporting NHSN Antimicrobial Use and Resistance data according to certification criteria (§ 170.315(f)(6)).

This notice serves as written confirmation of your Meaningful Use Stage 3 (MU3) status with the National Healthcare Safety Network (NHSN) as of March 1, 2017 for the MU3 objective according to certification criteria (§ 170.315(f)(6)).

Active engagement for this MU3 objective includes monthly reporting of Antimicrobial Use Summary, Antimicrobial Resistance Event, and Antimicrobial Resistance Summary data to NHSN for a full calendar year.

For each year, data intended for inclusion in the annual MU3 status report must be received no later than the end of January of the following year (i.e., Antimicrobial Use and Resistance data for 2017 must be reported into NHSN by January 31, 2018).

Registration of Intent Completed: 01/09/2017

The following is a status report of received Antimicrobial Use Summary, Antimicrobial Resistance Event, and Antimicrobial Resistance Summary data per month for 2017.

<table>
<thead>
<tr>
<th>Month/Year</th>
<th>Antimicrobial Use Summary</th>
<th>Antimicrobial Resistance Events</th>
<th>Antimicrobial Resistance Summary Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/2017</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Thank you for partnering with NHSN to support antimicrobial stewardship via electronic reporting.  
Please retain this notification for your facility’s records.
NHSN AUR MU3 Annual Report

MU3: Option.3 - Submission of Production Data

February 1, 2018

To: XYZ (dev) Medical Center
1234 Main St.
Oak Ridge, FL 32191

From: National Healthcare Safety Network
Division of Healthcare Quality Promotion
National Center for Emerging and Zoonotic Infectious Diseases
Centers for Disease Control and Prevention

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<th>Antimicrobial Resistance Events</th>
<th>Antimicrobial Resistance Summary/Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>01/2017</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>02/2017</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>12/2017</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Thank you for partnering with NHSN to support antimicrobial stewardship via electronic reporting.

Please retain this notification for your facility's records.
Facility Administrator may click the “Reports” button to begin ad hoc report request.

AUR Meaningful Use 3 Registration

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Optional facility MU3 contact: Email-1@hosp.com
Optional facility MU3 contact: Email-2@hosp.com

Date Registration of Intent Completed: 01/09/2017

Request AUR MU3 Status Report by Year: Reports

To complete registration, verify all information on this page and click the SAVE button.
NHSN AUR MU3 Ad Hoc Report

- Click drop down to select report year

- Click “View Report”
NHSN AUR MU3 Ad Hoc Report

- Click “Email Report” to send report via email
- Confirm request by clicking “Yes”
- Successful email sent
ADDITIONAL RESOURCES
NHSN AUR Module Resources

NHSN AUR Module Resources (continued)

- **NHSN AUR Protocol:**

- **Intro to NHSN AUR Module Training Slides:**
  - [http://www.cdc.gov/nhsn/PDFs/training/AUR-training.pdf](http://www.cdc.gov/nhsn/PDFs/training/AUR-training.pdf)

- **NHSN CDA Submission Support Portal:**

- **NHSN MU3:**
  - [http://www.cdc.gov/nhsn/cdaportal/meaningfuluse.html](http://www.cdc.gov/nhsn/cdaportal/meaningfuluse.html)

- **NHSN Helpdesk** (protocol questions):
  - [NHSN@cdc.gov](mailto:NHSN@cdc.gov)

- **NHSN CDA Helpdesk** (technical questions):
  - [NHSNCDA@cdc.gov](mailto:NHSNCDA@cdc.gov)
Questions

NHSNCDDA@cdc.gov

Thank you!

For more information please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333
Telephone, 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348
E-mail: cdcinfo@cdc.gov  Web: www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.