Release 8.6 scheduled January 7, 2017

NHSN 8.6 RELEASE
Form Changes

- **Dialysis Event**
  - “If new antimicrobial start, was a blood sample collected for culture?”
    - Yes/No

- **Annual Survey**
  - “What form of saline flush is most commonly used?”
Analysis and Data Quality

- New Facility-Level Standardized Infection Ratio (SIR) report
  - Available to both facilities and groups
  - SIR report will display facility’s observed BSI rate, patient-months, predicted number of BSI, SIR, and 95% Confidence Interval for SIR
Analysis and Data Quality

- 21 Day Rule Hard Stop - impacts manual entry and CDA
  - Manual entry error message:

```plaintext
One or more dialysis events were reported for this patient less than 21 days from this event date. Please review the events to determine which should be reported to NHSN. To learn about the 21 day rule, refer to the Dialysis Event Protocol.

Click the Event link to view the event(s) (current data will be lost). Click OK to return to the current event.
```

- CDA error message:

```plaintext
Reason for failure:

2.1
Error in Data registration : DS_74.zip481_2.xml. Error message: Error in adding/updating record of DS_74.zip481_2.xml Duplicate import records or violation of 21 day rule.

2.2
Error in Data registration : DS_74.zip481_1.xml. Error message: Error in adding/updating record of DS_74.zip481_1.xml Duplicate import records or violation of 21 day rule.
```
Analysis and Data Quality

- **New Facility-Level Unusual Susceptibility Profiles**
  - Users receive alert when entering an event that fits an Unusual Susceptibility Profile
  - Line listing report to view facilities with pending alerts available to groups
<table>
<thead>
<tr>
<th>Unusual Susceptibility Profiles</th>
<th>Profile Codes</th>
<th>Definition of Unusual Susceptibility Profiles</th>
<th>Alert Message Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbapenem-resistant Enterobacteriaceae</td>
<td>CRE</td>
<td>Carbapenem (imipenem, meropenem, doripenem, ertapenem) is Resistant(R)</td>
<td>CR</td>
</tr>
</tbody>
</table>
| Highly Drug-Resistant Enterobacteriaceae                            | HDR_E         | Defined as highly drug-resistant if all five drug classes have at least one drug within the class reported as either Intermediate(I) or Resistant(R):  
• Extended spectrum cephalosporin (cefepime, ceftazidime,  
  ceftaraxone, ceftazidime)  
• Fluoroquinolones (ciprofloxacin, levofloxacin, moxifloxacin)  
• Aminoglycosides (amikacin, gentamicin, tobramycin)  
• Carbapenems (imipenem, meropenem, doripenem, ertapenem)  
• Piperacillin/tazobactam | Other           |
| Colistin/Polymyxin B-resistant *Pseudomonas aeruginosa*             | PR_PA         | Colistin/polymyxin B is Intermediate(I) or Resistant(R)                                                      | Other             |
| Carbapenem-intermediate or -resistant *Pseudomonas aeruginosa*      | CR_PA         | Carbapenem (imipenem, meropenem, doripenem) is Intermediate(I) or Resistant(R)                               | CR                |
| Highly Drug-Resistant *Pseudomonas aeruginosa*                      | HDR_PA        | Defined as highly drug-resistant if all five drug classes have at least one drug within the class reported as either Intermediate(I) or Resistant(R):  
• Extended spectrum cephalosporin (cefepime, ceftazidime),  
  ceftaraxone, ceftazidime  
• Fluoroquinolones (ciprofloxacin, levofloxacin)  
• Aminoglycosides (amikacin, gentamicin, tobramycin)  
• Carbapenems (imipenem, meropenem, doripenem)  
• Piperacillin or piperacillin/tazobactam | Other           |
| Colistin/Polymyxin B-resistant *Acinetobacter baumannii*            | PR_ACBA       | Colistin/polymyxin B is Resistant(R)                                                                          | Other             |
| Carbapenem-intermediate or -resistant *Acinetobacter baumannii*     | CR_ACBA       | Carbapenem (imipenem, meropenem, doripenem) is Intermediate(I) or Resistant(R)                               | CR                |
| Highly Drug-Resistant *Acinetobacter baumannii*                     | HDR_ACBA      | Defined as highly drug-resistant if all six drug classes have at least one drug within the class reported as either Intermediate(I) or Resistant(R):  
• Extended spectrum cephalosporin (cefepime, ceftazidime),  
  ceftaraxone, ceftazidime  
• Fluoroquinolones (ciprofloxacin, levofloxacin)  
• Aminoglycosides (amikacin, gentamicin, tobramycin)  
• Carbapenems (imipenem, meropenem, doripenem)  
• Piperacillin or piperacillin/tazobactam  
• Ampicillin/sulbactam | Other           |
| Daptomycin non-susceptible and Linezolid-resistant *Enterococcus*    | HDR_ENTSP     | Daptomycin is Non Susceptible(NS) AND Linezolid is Resistant(R)                                               | Other             |
| spp.                                                                |               |                                                                                                              |                   |
| Vancomycin-resistant *S. aureus* (VRSA)                              | VR_SA         | Vancomycin is Resistant(R)                                                                                   | VRSA             |
| Daptomycin non-susceptible and Linezolid-resistant and Vancomycin-   | HDR_SA        | Daptomycin is Non Susceptible(NS) AND Linezolid is Resistant(R) AND Vancomycin is Intermediate(I)           | Other             |
| intermediate *S. aureus*                                            |               |                                                                                                              |                   |
| Vancomycin-resistant *S. aureus*, coagulase negative (VRSE)          | VR_CS          | Vancomycin is Resistant(R)                                                                                    | Other             |
Analysis and Data Quality

- New alert when ‘Other vascular access device’ checked and ‘Catheter-graft hybrid’ is No

- Warning when facility enters duplicate CCN
NHSN Facilities

- **New facility type for home/peritoneal dialysis (AMB-HDPD)**
  - Facilities already enrolled automatically migrated over to new facility type in NHSN
  - New facilities can select facility type upon enrollment
  - Facility Administrators can log in to facilities to change facility type in the ‘Facility Info’ screen

- **Home facilities and peritoneal facilities must fill out an annual survey in Healthcare Personnel Safety (HPS) Component**
  - If a 2017 annual survey has not been entered, facilities will be prevented from creating Monthly Reporting Plans for the 2017/2018 flu season
Resolution of System Defects

- **New loophole to create duplicate events involving patient ID**
  - After release, this loophole will be closed

- **Rate Table – IV Antimicrobial Start not running when grouped by summaryYM**
  - After release, the report will run when summaryYM is selected as the group by variable

- **All rate tables not running as CSV when grouped by summaryYM**
  - After release, all rate tables will run when the output option is csv and summaryYM is selected as a group by variable
NHSN RELEASE 8.6 ANALYSIS UPDATES
NHSN User Interface Upgrade

- New Analysis Modify screen
  - Tabs for each section
  - Displays descriptive variable names (can toggle on/off)
  - New data filters tool
How to Run a Report with Default Settings

- Click “Analysis” and then “Reports”
- Click the report name and then “Run Report”
How to Modify the Format of a Report

- Click the report name and then click “Modify Report”
- The report format can be changed on the “Title/Format” tab
- Click the box next to the desired format
- Then, click “Run” to run the report, “Save” to save the modifications as a custom report, or click another tab on the Modify screen to make additional modifications
How to Modify the Date Range of a Report

- The date range can be changed on the “Time Period” tab
- Select the Date Variable and enter at least a beginning date
- Then, click “Run” to run the report, “Save” to save the modifications as a custom report, or click another tab on the Modify screen to make additional modifications
How to Filter a Report for Specific Values

- Filters can be applied on the “Filters” tab
- Use the operators: Equal, Not Equal, In, Not In
- In the example below, event data will only display for patients with AVF only and a positive blood culture
How to Specify Which Variables Display

- Specify which variables will display in the report on the “Display Variables” tab
- Move variables to display from the “Available Variables” list to the “Selected Variables” list by using the “Selected >” button
How to Sort the Report on Specific Variables

- Specify which variables to use for sorting the data on the “Sort Variables” tab
- Select variable(s) to use for sorting by moving them from the “Available Variables” list to the “Selected Variables” list by using the “Selected >” button
How to Separate Data into Tables

- Variables used to separate the data into tables can be selected on the “Display Options” tab
- Select a “Page by” variable from the drop-down menu
How to Export Data

- **Option 1: export the entire data set**
  - Click the report name and then click “Export Data Set”

- **Option 2: export a report with the default settings or after making modifications**
  - Click the “Export” button at the bottom of the Modify screen
Questions?
Email nhsn@cdc.gov and include ‘Dialysis’ in the subject line

For more information please contact Centers for Disease Control and Prevention

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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.