



## Antimicrobial Use and Resistance (AUR): Microbiology Laboratory Data Monthly Electronic Upload Specification Tables

These data will be collected in an aggregate monthly electronic file transfer from the facility to NHSN via Clinical Document Architecture (CDA).  
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| Table 1. CDA File Descriptors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| These data elements will be transmitted with each month's report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                      |                                                                                                                  |
| Variable Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Description of Variable                                              |                                                                                                                  |
| orgid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NHSN Facility ID number                                              |                                                                                                                  |
| location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NHSN location code                                                   |                                                                                                                  |
| month                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Denominator month                                                    |                                                                                                                  |
| year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Denominator year                                                     |                                                                                                                  |
| createDate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date the record was created                                          |                                                                                                                  |
| createUserID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The user that created the record                                     |                                                                                                                  |
| version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Version number of the software under which the data was collected    |                                                                                                                  |
| modifyDate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Date the record was last updated                                     |                                                                                                                  |
| modifyUserID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | The user that last modified record                                   |                                                                                                                  |
| modifyVersion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Version number of the software under which the data was last updated |                                                                                                                  |
| Table 2. Isolate Event Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                      |                                                                                                                  |
| These data elements will be transmitted with each month's report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                      |                                                                                                                  |
| Variable Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Description of Variable                                              | Examples                                                                                                         |
| eventID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Event ID number                                                      |                                                                                                                  |
| specimenDate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Date specimen collected                                              |                                                                                                                  |
| specimenSource                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Specimen Source                                                      | Blood, lower respiratory, urine, cerebral spinal fluid                                                           |
| specBodySite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Specimen Body Site/System                                            |                                                                                                                  |
| isolateID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Isolate identifier                                                   |                                                                                                                  |
| facilityAdmitDate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date admitted to facility                                            |                                                                                                                  |
| specimenLoc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Location of specimen collection                                      |                                                                                                                  |
| pathogen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Identified pathogen                                                  |                                                                                                                  |
| PtDOB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Patient date of birth                                                |                                                                                                                  |
| PtGender                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Patient gender                                                       |                                                                                                                  |
| PtID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Patient ID number                                                    |                                                                                                                  |
| Table 2a. List of Eligible Pathogens                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                      | This is the list of pathogens that will be accepted into NHSN as part of the antimicrobial resistance reporting. |
| Acinetobacter baumannii (ACBA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Enterococcus spp. NOS (ENTSP)                                        | Pseudomonas aeruginosa (PA)                                                                                      |
| Candida albicans (CA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Escherichia coli (EC)                                                | Serratia marcescens (SM)                                                                                         |
| Candida glabrata (CG)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Group B Streptococcus (GBS)                                          | Staphylococcus aureus (SA)                                                                                       |
| Citrobacter freundii (CF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Klebsiella oxytoca (KO)                                              | Stenotrophomonas maltophilia (STEMA)                                                                             |
| Enterobacter spp. (ESO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Klebsiella pneumoniae (KP)                                           | Streptococcus pneumoniae (SP)                                                                                    |
| Enterococcus faecalis (ENTFS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Morganella morganii (MM)                                             |                                                                                                                  |
| Enterococcus faecium (ENTFM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Proteus mirabilis (PM)                                               |                                                                                                                  |
| <b>Assurance of Confidentiality:</b> The voluntarily provided information obtained in this surveillance system that would permit identification of any individual or institution is collected with a guarantee that it will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d)).                                                                                                                                                                                                                     |                                                                      |                                                                                                                  |
| Public reporting burden of this collection of information is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC, Reports Clearance Officer, 1600 Clifton Rd., MS D-74, Atlanta, GA 30333 ATTN: PRA (0920-0666).<br>CDC 57.123 v3 8.0 |                                                                      |                                                                                                                  |

## Antimicrobial Use and Resistance (AUR): Microbiology Laboratory Data Monthly Electronic Upload Specification Tables

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**Table 3. Antimicrobial Susceptibility Details** *These data elements will be transmitted with each month's report.*

| Variable Name       | Description of Variable                 | Examples |
|---------------------|-----------------------------------------|----------|
| antibiotic          | Antibiotic used for susceptibility test |          |
| PBP2a-agglutination | PBP2a-agglutination                     |          |
| PCRMec-gene         | PCR mec-gene                            |          |
| EtestSign           | Etest sign                              | >, <, =  |
| EtestValue          | Etest value                             |          |
| EtestInterp         | Interpretation of Etest                 |          |
| MICsign             | MIC sign                                |          |
| MICinterp           | Interpretation of the MIC test          |          |
| MICvalue            | MIC value                               |          |
| ZoneSign            | Zone sign                               |          |
| ZoneInterp          | Interpretation of zone test             |          |
| ZoneValue           | Zone value                              |          |
| FinIntrep           | Final interpretation result             |          |

**Table 3a. List of Antimicrobials used for Susceptibility Testing**
*This is the list of antimicrobials that will be accepted into NHSN as part of the antimicrobial resistance reporting.*

|                             |                 |                     |                         |                               |
|-----------------------------|-----------------|---------------------|-------------------------|-------------------------------|
| Amikacin                    | Cefoxitin       | Ertapenem           | Micafungin              | Quinupristin-dalfopristin     |
| Amoxicillin                 | Ceftazidime     | Erythromycin        | Minocycline             | Rifampin                      |
| Amoxicillin-clavulanic acid | Ceftriaxone     | Fluconazole         | Moxifloxacin            | Streptomycin                  |
| Ampicillin                  | Cefuroxime      | Flucytosine         | Nitrofurantoin          | Sulfisoxazole                 |
| Ampicillin-sulbactam        | Cephalothin     | Gemifloxacin        | Norfloxacin             | Telithromycin                 |
| Anidulafungin               | Chloramphenicol | Gentamicin          | Ofloxacin               | Tetracycline                  |
| Azithromycin                | Ciprofloxacin   | Imipenem-cilastatin | Oxacillin               | Ticarcillin                   |
| Aztreonam                   | Clarithromycin  | Itraconazole        | Penicillin G            | Ticarcillin-clavulanate       |
| Caspofungin                 | Clindamycin     | Levofloxacin        | Penicillin V            | Trimethoprim                  |
| Cefazolin                   | Daptomycin      | Linezolid           | Piperacillin            | Trimethoprim-sulfamethoxazole |
| Cefepime                    | Doripenem       | Lomefloxacin        | Piperacillin-tazobactam | Vancomycin                    |
| Cefotaxime                  | Doxycycline     | Meropenem           | Posaconazole            | Voriconazole                  |

**Table 4. Denominator Data** *These data elements will be transmitted with each month's report.*

| Variable Name | Description of Variable            |
|---------------|------------------------------------|
| numAdmissions | Number of admissions               |
| numPtDays     | Number of inpatient days           |
| numCulture    | Number of blood cultures performed |