

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	
Application OID	Vendor software ID number	
SDS validation ID	ID provided by NHSN Team confirming vendor software passed validation	

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	
admitStatus	Was patient admitted to an inpatient location	Y/N
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. Complete list of accepted is found in the NHSN IDM Workbook.		
Acinetobacter species	Citrobacter koseri	Morganella morganii
Candida albicans		Proteus mirabilis
Candida auris	Enterobacter species	Proteus penneri
Candida glabrata	Enterococcus faecalis	Proteus vulgaris
Candida parapsilosis	Enterococcus faecium	Pseudomonas aeruginosa
Candida tropicalis	Enterococcus species	Serratia marcescens
Citrobacter amalonaticus	Escherichia coli	Staphylococcus aureus
Citrobacter braakii	Klebsiella aerogenes	Stenotrophomonas maltophilia
Citrobacter freundii	Klebsiella oxytoca	Streptococcus agalactiae
Citrobacter freundii complex	Klebsiella pneumoniae	Streptococcus pneumoniae

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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).
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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	Doripenem	Meropenem	Rifampin
Amoxicillin	Ceftaroline	Doxycycline	Meropenem-vaborbactam	Streptomycin
Amoxicillin-clavulanic acid	Ceftazidime	Ertapenem	Micafungin	Streptomycin – high level
Ampicillin	Ceftazidime/Avibactam	Erythromycin	Minocycline	Sulfisoxazole
Ampicillin-sulbactam	Ceftolozane/Tazobactam	Fluconazole	Moxifloxacin	Tedizolid
Anidulafungin	Ceftriaxone	Fosfomycin	Nitrofurantoin	Telavancin
Azithromycin	Cefuroxime	Gemifloxacin	Oritavancin	Tetracycline
Aztreonam	Chloramphenicol	Gentamicin	Oxacillin	Trimethoprim
				Trimethoprim-sulfamethoxazole
Caspofungin	Ciprofloxacin	Gentamicin – high level	Penicillin G	
Cefazolin	Clarithromycin	Imipenem-cilastatin	Penicillin V	Vancomycin
		Imipenem-relebactam with cilastatin	Piperacillin-tazobactam	Voriconazole
Cefepime	Clindamycin	Lefamulin	Polymyxin B	
Cefiderocol	Colistin	Levofloxacin	Posaconazole	
Cefotaxime	Dalbavancin	Linezolid	Quinupristin-dalfopristin	
Cefotetan	Daptomycin			

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
numEncounters	Number of outpatient encounters
noAREvent	No AR Events were identified