



2024 Multi-site Gram-Negative Surveillance Initiative (MuGSI) Healthcare-Associated Infections Community Interface (HAIC) Case Report

Form Approved
OMB No. 0920-0978

NOTE: Enter all dates as mm/dd/yyyy

PATIENT'S NAME: _____			PHONE NO.: _____		
ADDRESS: _____				MRN: _____	
ADDRESS TYPE: _____			HOSPITAL: _____		
----Patient Identifier information is not transmitted to CDC----					
DEMOGRAPHICS					
1. STATE: _____		2a. COUNTY: _____		2b. PLANNING REGION: _____	
3. STATE ID: _____					
4a. LABORATORY ID WHERE INCIDENT SPECIMEN IDENTIFIED: _____				4b. FACILITY ID WHERE PATIENT TREATED: _____	
5. DATE OF BIRTH: _____		7. SEX:		8a. ETHNIC ORIGIN:	
		Male Female Missing value		Hispanic or Latino Not Hispanic or Latino Unknown	
6. AGE: _____ Days Mos Yrs				8b. RACE: (Check all that apply)	
				American Indian or Alaska Native Asian Black or African American Native Hawaiian or Other Pacific Islander White Unknown	
9a. DATE OF INCIDENT SPECIMEN COLLECTION (DISC): _____		10. ORGANISM:			
9b. TIME OF DISC: _____		Carbapenem-Resistant <i>Enterobacteriales</i> (CRE) <i>Escherichia coli</i> <i>Klebsiella pneumoniae</i> <i>Klebsiella oxytoca</i> <i>Klebsiella aerogenes</i> <i>Enterobacter cloacae</i>			
		Extended-Spectrum Beta-Lactamase-producing <i>Enterobacteriales</i> (ESBL-E) <i>Escherichia coli</i> <i>Klebsiella pneumoniae</i> <i>Klebsiella oxytoca</i>		Carbapenem-Resistant <i>A. baumannii</i> (CRAB) Invasive <i>Escherichia coli</i> (iEC) (not CRE or ESBL-E)	
11. SPECIMEN COLLECTION SITE(S):					
Blood Bone Bronchoalveolar lavage (CRAB only, complete Q23c) CSF Internal body site (specify): _____		Muscle Peritoneal fluid Pericardial fluid Pleural fluid Joint/synovial fluid Sputum (CRAB only, complete Q23c) Tracheal aspirate (CRAB only, complete Q23c)		Urine (complete 22a-22c) Wound (specify): _____ (CRAB only) Other LRT site (specify): _____ (CRAB only, complete Q23c) Other normally sterile site (specify): _____	
12. LOCATION OF SPECIMEN COLLECTION:				13. WHERE WAS THE PATIENT LOCATED ON THE 3RD CALENDAR DAY BEFORE THE DISC?	
OUTPATIENT		INPATIENT		LTACH	
Facility ID: _____		Facility ID: _____		Facility ID: _____	
Emergency room Clinic/Doctor's office Dialysis center Surgery Observational/Clinical decision unit Other outpatient		ICU OR Radiology Other inpatient		LTACH Facility ID: _____ Homeless Incarcerated Other (specify): <div style="border: 1px solid black; width: 100px; height: 40px; margin-top: 5px;"></div>	
		Autopsy Other (Specify): <div style="border: 1px solid black; width: 100px; height: 40px; margin-top: 5px;"></div>		Hospital inpatient Facility ID: _____ Was the patient transferred from this hospital? Yes No Unknown	
		Unknown		Unknown	
14. WAS THE PATIENT HOSPITALIZED ON THE DAY OF OR IN THE 29 CALENDAR DAYS AFTER THE DISC? Yes No Unknown					
IF YES, DATE OF ADMISSION: _____					
15a. WAS THE PATIENT IN AN ICU IN THE 7 DAYS BEFORE THE DISC? Yes No Unknown					
IF YES, DATE OF ICU ADMISSION: _____ OR Date unknown					
15b. WAS THE PATIENT IN AN ICU ON THE DAY OF INCIDENT SPECIMEN COLLECTION OR IN THE 6 DAYS AFTER THE DISC?					
Yes No Unknown					
IF YES, DATE OF ICU ADMISSION: _____ OR Date unknown					
Public reporting burden of this collection of information is estimated to average 28 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/ATSDR Information Collection Review Office, 1600 Clifton Road NE, MS D-74, Atlanta, Georgia 30329; ATTN: PRA (0920-XXXX).					

20. RISK FACTORS: <i>(Check all that apply)</i>		None	Unknown	
WAS INCIDENT SPECIMEN COLLECTED 3 OR MORE CALENDAR DAYS AFTER HOSPITAL ADMISSION?		Yes	No	
PREVIOUS HOSPITALIZATION IN THE YEAR BEFORE DISC		Yes	No	Unknown
IF YES, DATE OF DISCHARGE CLOSEST TO DISC: _____ OR, DATE UNKNOWN				Facility ID: _____
OVERNIGHT STAY IN LTCF IN THE YEAR BEFORE DISC:		Yes	No	Unknown
OVERNIGHT STAY IN LTACH IN THE YEAR BEFORE DISC:		Yes	No	Unknown
SURGERY IN THE YEAR BEFORE DISC:		Yes	No	Unknown
CURRENT CHRONIC DIALYSIS:		Yes	No	Unknown
IF YES, TYPE: Hemodialysis Peritoneal Unknown				
IF HEMODIALYSIS, TYPE OF VASCULAR ACCESS: AV fistula/graft Hemodialysis central line Unknown				
CENTRAL LINE IN PLACE ON THE DISC (UP TO THE TIME OF COLLECTION), OR AT ANY TIME IN THE 2 CALENDAR DAYS BEFORE DISC:		Yes	No	Unknown
Check here if central line in place for > 2 calendar days				
URINARY CATHETER IN PLACE ON THE DISC (UP TO THE TIME OF COLLECTION), OR AT ANY TIME IN THE 2 CALENDAR DAYS BEFORE DISC:		Yes	No	Unknown
IF YES, CHECK ALL THAT APPLY:				
Indwelling Urethral Catheter Condom Catheter				
Suprapubic Catheter Other (specify): _____				
ANY OTHER INDWELLING DEVICE IN PLACE ON THE DISC UP TO THE TIME OF COLLECTION), OR AT ANY TIME IN THE 2 CALENDAR DAYS BEFORE DISC:		Yes	No	Unknown
IF YES, CHECK ALL THAT APPLY:				
ET/NT Tube NG Tube Nephrostomy Tube				
Gastrostomy Tube Tracheostomy Other (specify): _____				
PATIENT TRAVELED INTERNATIONALLY IN THE YEAR BEFORE DISC:		Yes	No	Unknown
COUNTRY(IES): _____				
PATIENT HOSPITALIZED WHILE VISITING COUNTRY(IES) ABOVE:		Yes	No	Unknown
21a. WEIGHT:		21b. HEIGHT:		21c. BMI:
_____ lbs. _____ oz. OR _____ kg Unknown		_____ ft. _____ in. OR _____ cm Unknown		_____ Unknown
Complete questions 22a-22c for all MuGSI cases from urine cultures or where UTI or pyelonephritis is marked in question 17a:				
22a. WAS THE URINE COLLECTED THROUGH AN INDWELLING URETHRAL CATHETER?		Yes	No	Unknown
22b. RECORD THE COLONY COUNT: _____				
22c. ASSOCIATED SIGNS AND SYMPTOMS:				
Please indicate if any of the following symptoms were reported during the 5 day time period including the 2 calendar days before through the 2 calendar days after the DISC.				
None	Fever [temperature \geq 100.4 °F (38 °C)]	Symptoms for patients \leq 1 year of age only:		
Unknown	Frequency	Apnea	Lethargy	
Costovertebral angle pain or tenderness	Suprapubic tenderness	Bradycardia	Vomiting	
Dysuria	Urgency			
Complete questions 23a-23b ONLY for A. BAUMANNII cases:				
23a. DID THE PATIENT HAVE A SPUTUM CULTURE POSITIVE FOR CRAB IN THE 30 DAYS BEFORE THE DISC?		Yes	No	Unknown
				N/A
23b. RISK FACTORS PRIOR TO CRAB DISC: <i>(Check all that apply)</i>				
Non-invasive positive pressure ventilation (CPAP or BiPAP) at any time in the 7 calendar days before the DISC				
Nebulizer treatment at any time in the 7 calendar days before the DISC				
Mechanical ventilation at any time in the 7 calendar days before the DISC				
None of the above				

Complete question 23c ONLY for A. BAUMANNII cases from LRT site cultures or for non-LRT cultures where pneumonia is marked in question 17a.

23c. CHEST RADIOLOGY FINDINGS: (Check all that apply)

Not done	Ground glass opacities/infiltrates	Consolidation	Nodules
No report available	Bronchopneumonia/pneumonia	Infiltrate	No evidence of pneumonia
Acute respiratory distress syndrome (ARDS)	Cannot rule out pneumonia	Pleural effusion	
Air space density/opacity	Cavitation		

24a. IS ANTIMICROBIAL USE (IV OR ORAL) IN THE 30 DAYS BEFORE THE DISC DOCUMENTED? Yes No Unknown

24b. IF YES, CHECK ALL ANTIMICROBIALS USED IN THE 30 DAYS BEFORE THE DISC: (Check all that apply) Unknown

Amikacin	Ceftazidime	Fidaxomicin	Rifaximin
Amoxicillin	Ceftazidime/avibactam	Fosfomicin	Tedizolid
Amoxicillin/clavulanic acid	Ceftizoxime	Gentamicin	Telavancin
Ampicillin	Ceftolozane/tazobactam	Imipenem/cilastatin	Tigecycline
Ampicillin/sulbactam	Ceftriaxone	Levofloxacin	Tobramycin
Azithromycin	Cefuroxime	Linezolid	Trimethoprim
Aztreonam	Cephalexin	Meropenem	Trimethoprim/sulfamethoxazole
Cefadroxil	Ciprofloxacin	Meropenem/vaborbactam	Vancomycin
Cefazolin	Clarithromycin	Metronidazole	IV
Cefdinir	Clindamycin	Moxifloxacin	PO
Cefepime	Dalbavancin	Nitrofurantoin	Other (specify):
Cefiderocol	Daptomycin	Omadacycline	_____
Cefixime	Delafloxacin	Oritavancin	Other (specify):
Cefotaxime	Doripenem	Penicillin	_____
Cefoxitin	Doxycycline	Piperacillin/tazobactam	
Cefpodoxime	Ertapenem	Polymyxin B	
Ceftaroline	Eravacycline	Polymyxin E (colistin)	

REMINDER: Any prior antimicrobial use that is not noted above should be documented in the other (specify) field.

25a. DID THE PATIENT HAVE A POSITIVE TEST(S) FOR SARS-CoV-2 (MOLECULAR ASSAY, ANTIGEN, OR OTHER VIRAL TEST, EXCLUDING SEROLOGY) IN THE 90 DAYS BEFORE OR DAY OF THE DISC?

Yes No Unknown

25b. SPECIMEN COLLECTION DATES FOR POSITIVE TESTS IN THE 90 DAYS BEFORE OR THE DAY OF THE DISC:

First positive test: _____ or Date unknown **Most recent positive test:** _____ or Date unknown

25c. COVID-NET CASE ID IN THE YEAR BEFORE OR DAY OF DISC: _____ None or N/A

26. WAS THE INCIDENT SPECIMEN POLYMICROBIAL? Yes No Unknown

27a. WAS THE INCIDENT SPECIMEN TESTED FOR CARBAPENEMASE GENES? Yes No Laboratory not testing Unknown

27b. IF YES, WHAT TESTING METHOD WAS USED? (Check all that apply)

Non-Molecular Test Methods:

CarbaNP	Modified Hodge Test (MHT)
Carbapenemase Inactivation Method (CIM)	RAPIDEC
CPO Detect	Other (specify): _____
Disk Diffusion/ROSCO Disk	Unknown
E-test	
Modified Carbapenemase Inactivation Method (mCIM)	

Molecular Test Methods:

Automated Molecular Assay	Streck ARM-D
Carba-R	Other (specify): _____
Check Points	
MALDI-TOF MS	Unknown
Next Generation Nucleic Acid Sequencing	
PCR	

27c. IF TESTED, WHAT WAS THE TESTING RESULT?

Non-Molecular Test Results:

Positive
Indeterminate
Negative
Unknown

Molecular Test Results:

NDM	Pos	Neg	Ind	Unk
KPC	Pos	Neg	Ind	Unk
OXA (specify): _____	Pos	Neg	Ind	Unk
VIM	Pos	Neg	Ind	Unk
IMP	Pos	Neg	Ind	Unk
Other carbapenemase gene (specify): _____	Pos	Neg	Ind	Unk

28a. WAS THE INCIDENT SPECIMEN TESTED FOR ESBL PRODUCTION OR OTHER BETA-LACTAMASE GENES?

- Yes
- No
- Laboratory not testing
- Unknown

28b. IF TESTED, WHAT TESTING METHOD WAS USED? (Check all that apply):

28c. IF TESTED, WHAT WAS THE RESULT?

Broth Microdilution (ATI detection)	Pos	Neg	Ind	Unk
ESBL well	Pos	Neg	Ind	Unk
Expert rule (ATI flag)	Pos	Neg	Ind	Unk
Unknown	Pos	Neg	Ind	Unk
Broth Microdilution (Manual)	Pos	Neg	Ind	Unk
Disk Diffusion	Pos	Neg	Ind	Unk
E-test	Pos	Neg	Ind	Unk
Molecular test (specify): _____	Pos	Neg	Ind	Unk
Gene variant (specify): _____	Pos	Neg	Ind	Unk
Other non-molecular test (specify): _____	Pos	Neg	Ind	Unk

29. SUSCEPTIBILITY RESULTS:

Please complete the table below based on the information found in the indicated data source.

No susceptibility data from the medical record are available

Antibiotic	Data source:	Data source:	Data source:	Data source:	Data source:	Data source:
	MIC or zone diameter	Interpretation	MIC or zone diameter	Interpretation	MIC or zone diameter	Interpretation
Amikacin						
Amoxicillin/Clavulanate						
Ampicillin						
Ampicillin/Sulbactam						
Aztreonam						
Cefazolin						
Cefepime						
Cefiderocol						
Cefotaxime						
Cefoxitin						
Ceftazidime						
Ceftazidime/Avibactam						
Ceftolozane/Tazobactam						
Ceftriaxone						
Cephalothin						
Ciprofloxacin						
Colistin						
Doripenem						
Doxycycline						
Eravacycline						
Ertapenem						
Fosfomycin						
Gentamicin						
Imipenem						
Imipenem-relebactam						
Levofloxacin						
Meropenem						
Meropenem-vaborbactam						
Minocycline						
Moxifloxacin						
Nitrofurantoin						
Omadacycline						
Piperacillin/Tazobactam						
Plazomicin						
Polymyxin B						
Rifampin						
Tetracycline						
Tigecycline						
Tobramycin						
Trimethoprim-sulfamethoxazole						

<p>30a. WAS THE CASE FIRST IDENTIFIED THROUGH AN AUDIT?</p> <p>Yes No</p>	<p>30b. CRF STATUS:</p> <p>Complete Pending Chart unavailable after 3 requests Complete – pending data</p>	<p>30c. SO INITIALS:</p> <p>_____</p>	<p>30d. DATE OF ABSTRACTION:</p> <p>_____</p>
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30e. COMMENTS:
