



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

NOTE: Enter all dates as mm/dd/yyyy

Form Approved  
OMB No. 0920-0978

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: _____
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5. DATE OF BIRTH: _____	7. SEX AT BIRTH: <input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Unknown <input type="checkbox"/> Check if transgender	8a. ETHNIC ORIGIN: <input type="radio"/> Hispanic or Latino <input type="radio"/> Not Hispanic or Latino <input type="radio"/> Unknown	8b. RACE: (Check all that apply) <input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black or African American <input type="checkbox"/> Native Hawaiian or Other Pacific Islander <input type="checkbox"/> White <input type="checkbox"/> Unknown
6. AGE: _____ <input type="radio"/> Days <input type="radio"/> Mos <input type="radio"/> Yrs			

9a. DATE OF INCIDENT SPECIMEN COLLECTION (DISC): _____	10. ORGANISM:		
9b. TIME OF DISC: _____	<input type="checkbox"/> Carbapenem-Resistant <i>Enterobacteriales</i> (CRE)	<input type="checkbox"/> Extended-Spectrum Beta-Lactamase-producing <i>Enterobacteriales</i> (ESBL-E)	<input type="checkbox"/> Carbapenem-Resistant <i>A. baumannii</i> (CRAB)
	<input type="checkbox"/> <i>Escherichia coli</i>	<input type="checkbox"/> <i>Escherichia coli</i>	<input type="checkbox"/> Invasive <i>Escherichia coli</i> (iEC) (not CRE or ESBL-E)
	<input type="checkbox"/> <i>Klebsiella pneumoniae</i>	<input type="checkbox"/> <i>Klebsiella pneumoniae</i>	
	<input type="checkbox"/> <i>Klebsiella oxytoca</i>	<input type="checkbox"/> <i>Klebsiella oxytoca</i>	
	<input type="checkbox"/> <i>Klebsiella aerogenes</i>		
	<input type="checkbox"/> <i>Enterobacter cloacae</i>		

11. SPECIMEN COLLECTION SITE(S):

<input type="checkbox"/> Blood	<input type="checkbox"/> Muscle	<input type="checkbox"/> Urine (complete 22a-22c)
<input type="checkbox"/> Bone	<input type="checkbox"/> Peritoneal fluid	<input type="checkbox"/> Wound (specify): _____ (CRAB only)
<input type="checkbox"/> Bronchoalveolar lavage (CRAB only, complete Q23c)	<input type="checkbox"/> Pericardial fluid	<input type="checkbox"/> Other LRT site (specify): _____ (CRAB only, complete Q23c)
<input type="checkbox"/> CSF	<input type="checkbox"/> Pleural fluid	<input type="checkbox"/> Other normally sterile site (specify): _____
<input type="checkbox"/> Internal body site (specify): _____	<input type="checkbox"/> Joint/synovial fluid	
	<input type="checkbox"/> Sputum (CRAB only, complete Q23c)	
	<input type="checkbox"/> Tracheal aspirate (CRAB only, complete Q23c)	

<p>12. LOCATION OF SPECIMEN COLLECTION:</p> <p><input type="radio"/> OUTPATIENT      <input type="radio"/> INPATIENT      <input type="radio"/> LTCF</p> <p>Facility ID: _____      Facility ID: _____      Facility ID: _____</p> <p><input type="radio"/> Emergency room      <input type="radio"/> ICU      <input type="radio"/> LTACH</p> <p><input type="radio"/> Clinic/Doctor's office      <input type="radio"/> OR      Facility ID: _____</p> <p><input type="radio"/> Dialysis center      <input type="radio"/> Radiology</p> <p><input type="radio"/> Surgery      <input type="radio"/> Other inpatient</p> <p><input type="radio"/> Observational/Clinical decision unit</p> <p><input type="radio"/> Other outpatient</p> <p><input type="radio"/> Autopsy</p> <p><input type="radio"/> Other (Specify): _____</p> <div style="border: 1px solid black; height: 30px; width: 100%;"></div> <p><input type="radio"/> Unknown</p>	<p>13. WHERE WAS THE PATIENT LOCATED ON THE 3RD CALENDAR DAY BEFORE THE DISC?</p> <p><input type="radio"/> Private residence      <input type="radio"/> LTACH</p> <p><input type="radio"/> LTCF      Facility ID: _____</p> <p><input type="radio"/> Hospital inpatient      Facility ID: _____</p> <p><input type="radio"/> Homeless</p> <p><input type="radio"/> Incarcerated</p> <p><input type="radio"/> Other (specify): _____</p> <div style="border: 1px solid black; height: 30px; width: 100%;"></div> <p>Was the patient transferred from this hospital?</p> <p><input type="radio"/> Yes    <input type="radio"/> No    <input type="radio"/> Unknown    <input type="radio"/> Unknown</p>
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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).

**16. PATIENT OUTCOME:**

- Survived
- Died
- Unknown

DATE OF DISCHARGE: \_\_\_\_\_ OR

- Date unknown
- Left against medical advice (AMA)

IF SURVIVED, DISCHARGED TO:

- Private residence
- LTCF, Facility ID: \_\_\_\_\_
- LTACH, Facility ID: \_\_\_\_\_
- Other (specify): \_\_\_\_\_
- Unknown

DATE OF DEATH: \_\_\_\_\_ OR  Date unknown

**17a. TYPES OF INFECTION ASSOCIATED WITH CULTURE(S):** (Check all that apply)  None  Colonized  Unknown

- |  |   |  |   |
|--|---|--|---|
| <input type="checkbox"/> Abscess, not skin                   | <input type="checkbox"/> Decubitus/pressure ulcer | <input type="checkbox"/> Pneumonia (CRAB cases, complete Q23c) | <input type="checkbox"/> Skin abscess                               |
| <input type="checkbox"/> AV fistula/graft infection          | <input type="checkbox"/> Empyema                  | <input type="checkbox"/> Pyelonephritis complete 22a–22c)      | <input type="checkbox"/> Surgical incision infection                |
| <input type="checkbox"/> Bacteremia                          | <input type="checkbox"/> Endocarditis             | <input type="checkbox"/> Sepsis                                | <input type="checkbox"/> Surgical site infection (internal)         |
| <input type="checkbox"/> Bursitis                            | <input type="checkbox"/> Epidural abscess         | <input type="checkbox"/> Urosepsis                             | <input type="checkbox"/> Traumatic wound                            |
| <input type="checkbox"/> Catheter site infection (CVC)       | <input type="checkbox"/> Meningitis               | <input type="checkbox"/> Septic arthritis                      | <input type="checkbox"/> Urinary tract infection (complete 22a–22c) |
| <input type="checkbox"/> Cellulitis                          | <input type="checkbox"/> Osteomyelitis            | <input type="checkbox"/> Septic emboli                         | <input type="checkbox"/> Other (specify): _____                     |
| <input type="checkbox"/> Chronic ulcer/wound (not decubitus) | <input type="checkbox"/> Peritonitis              | <input type="checkbox"/> Septic shock                          |   |

**17b. RECURRENT UTI:**

- Yes
- No
- Unknown

**17c. WAS THE PATIENT TREATED FOR THE MUGSI ORGANISM?**

- Yes
- No
- Unknown

**18. UNDERLYING CONDITIONS:** (Check all that apply)  None  Unknown

**CHRONIC LUNG DISEASE**

- Cystic fibrosis
- Chronic pulmonary disease

**CHRONIC METABOLIC DISEASE**

- Diabetes mellitus
- With chronic complications

**CARDIOVASCULAR DISEASE**

- CVA/Stroke/TIA
- Congenital heart disease
- Congestive heart failure
- Myocardial infarction
- Peripheral vascular disease (PVD)

**GASTROINTESTINAL DISEASE**

- Diverticular disease
- Inflammatory bowel disease
- Peptic ulcer disease
- Short gut syndrome

**IMMUNOCOMPROMISED CONDITION**

- HIV infection
- AIDS/CD4 count < 200
- Primary immunodeficiency
- Transplant, hematopoietic stem cell
- Transplant, solid organ:

**LIVER DISEASE**

- Chronic liver disease
- Ascites
- Cirrhosis
- Hepatic encephalopathy
- Variceal bleeding
- Hepatitis C
- Treated, in SVR
- Current, chronic

**MALIGNANCY**

- Malignancy, hematologic
- Malignancy, solid organ (non-metastatic)
- Malignancy, solid organ (metastatic)

**NEUROLOGIC CONDITION**

- Cerebral palsy
- Chronic cognitive deficit
- Dementia
- Epilepsy/seizure/seizure disorder
- Multiple sclerosis
- Neuropathy
- Parkinson's disease
- Other (specify): \_\_\_\_\_

**PLEGIAS/PARALYSIS**

- Hemiplegia
- Paraplegia
- Quadriplegia

**RENAL DISEASE**

- Chronic kidney disease
- Lowest serum creatinine: \_\_\_\_\_ mg/DL
- Unknown or not done

**SKIN CONDITION**

- Burn
- Decubitus/pressure ulcer
- Surgical wound
- Other chronic ulcer or chronic wound
- Other (specify): \_\_\_\_\_

**OTHER**

- Connective tissue disease
- Obesity or morbid obesity
- Pregnant

**MUGSI CONDITIONS**

- Urinary tract problems/abnormalities
- Premature birth
- Spina bifida

**19. SUBSTANCE USE**

SMOKING: (Check all that apply)

- None
- Tobacco
- Marijuana
- Unknown
- E-nicotine delivery system

ALCOHOL ABUSE:

- Yes
- No
- Unknown

OTHER SUBSTANCES: (Check all that apply)  None  Unknown

	DUD/ ABUSE	MODE OF DELIVERY (Check all that apply)			
<input type="checkbox"/> Marijuana, cannabinoid (other than smoking)	<input type="checkbox"/> DUD or abuse	<input type="checkbox"/> IDU	<input type="checkbox"/> Skin popping	<input type="checkbox"/> Non-IDU	<input type="checkbox"/> Unknown
<input type="checkbox"/> Opioid, DEA schedule I (e.g., heroin)	<input type="checkbox"/> DUD or abuse	<input type="checkbox"/> IDU	<input type="checkbox"/> Skin popping	<input type="checkbox"/> Non-IDU	<input type="checkbox"/> Unknown
<input type="checkbox"/> Opioid, DEA schedule II-IV (e.g., methadone, oxycodone)	<input type="checkbox"/> DUD or abuse	<input type="checkbox"/> IDU	<input type="checkbox"/> Skin popping	<input type="checkbox"/> Non-IDU	<input type="checkbox"/> Unknown
<input type="checkbox"/> Opioid, NOS	<input type="checkbox"/> DUD or abuse	<input type="checkbox"/> IDU	<input type="checkbox"/> Skin popping	<input type="checkbox"/> Non-IDU	<input type="checkbox"/> Unknown
<input type="checkbox"/> Cocaine	<input type="checkbox"/> DUD or abuse	<input type="checkbox"/> IDU	<input type="checkbox"/> Skin popping	<input type="checkbox"/> Non-IDU	<input type="checkbox"/> Unknown
<input type="checkbox"/> Methamphetamine	<input type="checkbox"/> DUD or abuse	<input type="checkbox"/> IDU	<input type="checkbox"/> Skin popping	<input type="checkbox"/> Non-IDU	<input type="checkbox"/> Unknown
<input type="checkbox"/> Other (specify): _____	<input type="checkbox"/> DUD or abuse	<input type="checkbox"/> IDU	<input type="checkbox"/> Skin popping	<input type="checkbox"/> Non-IDU	<input type="checkbox"/> Unknown
<input type="checkbox"/> Unknown substance	<input type="checkbox"/> DUD or abuse	<input type="checkbox"/> IDU	<input type="checkbox"/> Skin popping	<input type="checkbox"/> Non-IDU	<input type="checkbox"/> Unknown

DURING THE CURRENT HOSPITALIZATION, DID THE PATIENT RECEIVE MEDICATION ASSISTED TREATMENT (MAT) FOR OPIOID USE DISORDER?

- Yes
- No
- N/A (patient not hospitalized or did not have DUD)

**20. RISK FACTORS:** (Check all that apply)

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

Facility ID: \_\_\_\_\_

OVERNIGHT STAY IN LTACH IN THE YEAR BEFORE DISC:  Yes  No  Unknown

Facility ID: \_\_\_\_\_

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:**

\_\_\_\_\_ lbs. \_\_\_\_\_ oz. OR \_\_\_\_\_ kg  Unknown

**21b. HEIGHT:**

\_\_\_\_\_ ft. \_\_\_\_\_ in. OR \_\_\_\_\_ cm  Unknown

**21c. BMI:**

\_\_\_\_\_  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.

- |  |   |  |                                   |
|--|---|--|-----------------------------------|
| <input type="checkbox"/> None                                    | <input type="checkbox"/> Fever [temperature ≥ 100.4 °F (38 °C)] | <b>Symptoms for patients ≤ 1 year of age only:</b> |                                   |
| <input type="checkbox"/> Unknown                                 | <input type="checkbox"/> Frequency                              | <input type="checkbox"/> Apnea                     | <input type="checkbox"/> Lethargy |
| <input type="checkbox"/> Costovertebral angle pain or tenderness | <input type="checkbox"/> Suprapubic tenderness                  | <input type="checkbox"/> Bradycardia               | <input type="checkbox"/> Vomiting |
| <input type="checkbox"/> Dysuria                                 | <input type="checkbox"/> 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:** (Check all that apply)

- 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)

- |   |   |   |   |
|---|---|---|---|
| <input type="checkbox"/> Not done                                   | <input type="checkbox"/> Ground glass opacities/infiltrates | <input type="checkbox"/> Consolidation    | <input type="checkbox"/> Nodules                  |
| <input type="checkbox"/> No report available                        | <input type="checkbox"/> Bronchopneumonia/pneumonia         | <input type="checkbox"/> Infiltrate       | <input type="checkbox"/> No evidence of pneumonia |
| <input type="checkbox"/> Acute respiratory distress syndrome (ARDS) | <input type="checkbox"/> Cannot rule out pneumonia          | <input type="checkbox"/> Pleural effusion |   |
| <input type="checkbox"/> Air space density/opacity                  | <input type="checkbox"/> 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

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

- |  |  |
|--|--|
| <input type="checkbox"/> CarbaNP   | <input type="checkbox"/> Modified Hodge Test (MHT) |
| <input type="checkbox"/> Carbapenemase Inactivation Method (CIM)           | <input type="checkbox"/> RAPIDEC                   |
| <input type="checkbox"/> CPO Detect  | <input type="checkbox"/> Other (specify): _____    |
| <input type="checkbox"/> Disk Diffusion/ROSCO Disk                         | <input type="checkbox"/> Unknown                   |
| <input type="checkbox"/> E-test  |  |
| <input type="checkbox"/> Modified Carbapenemase Inactivation Method (mCIM) |  |

**Molecular Test Methods:**

- |  |   |
|--|---|
| <input type="checkbox"/> Automated Molecular Assay               | <input type="checkbox"/> Streck ARM-D           |
| <input type="checkbox"/> Carba-R                                 | <input type="checkbox"/> Other (specify): _____ |
| <input type="checkbox"/> Check Points                            |   |
| <input type="checkbox"/> MALDI-TOF MS                            | <input type="checkbox"/> Unknown                |
| <input type="checkbox"/> Next Generation Nucleic Acid Sequencing |   |
| <input type="checkbox"/> PCR                                     |   |

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

**Non-Molecular Test Results:**

- Positive  
 Indeterminate  
 Negative  
 Unknown

**Molecular Test Results:**

- |  |                           |                           |                           |                           |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| <input type="checkbox"/> NDM                                       | <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="checkbox"/> KPC                                       | <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="checkbox"/> OXA (specify): _____                      | <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="checkbox"/> VIM                                       | <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="checkbox"/> IMP                                       | <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="checkbox"/> Other carbapenemase gene (specify): _____ | <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> 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):**

- Broth Microdilution (ATI detection)
  - ESBL well
  - Expert rule (ATI flag)
  - Unknown
- Broth Microdilution (Manual)
- Disk Diffusion
- E-test
  
- Molecular test (specify): \_\_\_\_\_
  - Gene variant (specify): \_\_\_\_\_
- Other non-molecular test (specify): \_\_\_\_\_

**28c. IF TESTED, WHAT WAS THE RESULT?**

- |                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> Unk |
| <input type="radio"/> Pos | <input type="radio"/> Neg | <input type="radio"/> Ind | <input type="radio"/> 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><b>30a. WAS THE CASE FIRST IDENTIFIED THROUGH AN AUDIT?</b></p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p>	<p><b>30b. CRF STATUS:</b></p> <p><input type="radio"/> Complete</p> <p><input type="radio"/> Pending</p> <p><input type="radio"/> Chart unavailable after 3 requests</p> <p><input type="radio"/> Complete - pending data</p>	<p><b>30c. SO INITIALS:</b></p> <p>_____</p>	<p><b>30d. DATE OF ABSTRACTION:</b></p> <p>_____</p>
<p><b>30e. COMMENTS:</b></p>			