



## 2023 Carbapenem Resistant Enterobacterales (CRE)/ Carbapenem Resistant *A. baumannii* (CRAB) Multi-site Gram-Negative Surveillance Initiative (MuGSI) Healthcare-Associated Infections Community Interface (HAIC) Case Report

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:
5. DATE OF BIRTH: (mm/dd/yyyy)		7. SEX AT BIRTH:		8a. ETHNIC ORIGIN:	
6. AGE: _____ <input type="radio"/> Days <input type="radio"/> Mos <input type="radio"/> Yrs		<input type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Unknown <input type="checkbox"/> Check if transgender		<input type="radio"/> Hispanic or Latino <input type="radio"/> Not Hispanic or Latino <input type="radio"/> Unknown <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	

9a. DATE OF INCIDENT SPECIMEN COLLECTION (DISC): (mm/dd/yyyy)	10. ORGANISM: <input type="radio"/> CRE <input type="radio"/> CRAB		
9b. TIME OF DISC: (HH:MM-Military Format)	If CRE, select one of the following: <input type="radio"/> <i>Escherichia coli</i> <input type="radio"/> <i>Enterobacter cloacae</i> <input type="radio"/> <i>Klebsiella aerogenes</i> <input type="radio"/> <i>Klebsiella pneumoniae</i> <input type="radio"/> <i>Klebsiella oxytoca</i>		

**11. INCIDENT SPECIMEN COLLECTION SITE:**

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

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

<p><b>14. WAS THE PATIENT HOSPITALIZED ON THE DAY OF OR IN THE 29 CALENDAR DAYS AFTER THE DISC?</b></p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown</p> <p>IF YES, DATE OF ADMISSION: (mm/dd/yyyy) _____</p>	<p><b>15a. WAS THE PATIENT IN AN ICU IN THE 7 DAYS BEFORE THE DISC?</b></p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown</p> <p>IF YES, DATE OF ICU ADMISSION: (mm/dd/yyyy) _____ OR <input type="checkbox"/> Date unknown</p> <p><b>15b. WAS THE PATIENT IN AN ICU ON THE DAY OF INCIDENT SPECIMEN COLLECTION OR IN THE 6 DAYS AFTER THE DISC?</b></p> <p><input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown</p> <p>IF YES, DATE OF ICU ADMISSION: (mm/dd/yyyy) _____ OR <input type="checkbox"/> Date unknown</p>
--	--

**16. PATIENT OUTCOME:**  Survived  Died  Unknown

DATE OF DISCHARGE: (mm/dd/yyyy) \_\_\_\_\_ OR  Date unknown

Date unknown  Left against medical advice (AMA)

DATE OF DEATH: (mm/dd/yyyy) \_\_\_\_\_ OR  Date unknown

**IF SURVIVED, DISCHARGED TO:**

Private residence  Other (specify): \_\_\_\_\_

LTACH, Facility ID: \_\_\_\_\_  Unknown

LTACH, Facility ID: \_\_\_\_\_

**ON THE DAY OF OR IN THE 6 CALENDAR DAYS BEFORE DEATH, WAS THE PATHOGEN OF INTEREST ISOLATED FROM A SITE THAT MEETS THE CASE DEFINITION?**

Yes  No  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 (0920-0978).

**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"/> Surgical site infection (internal)
<input type="checkbox"/> AV fistula/graft infection	<input type="checkbox"/> Empyema	<input type="checkbox"/> Pyelonephritis	<input type="checkbox"/> Traumatic wound
<input type="checkbox"/> Bacteremia	<input type="checkbox"/> Endocarditis	<input type="checkbox"/> Septic arthritis	<input type="checkbox"/> Urinary tract infection
<input type="checkbox"/> Bursitis	<input type="checkbox"/> Epidural abscess	<input type="checkbox"/> Septic emboli	<input type="checkbox"/> Other (specify): _____
<input type="checkbox"/> Catheter site infection (CVC)	<input type="checkbox"/> Meningitis	<input type="checkbox"/> Septic shock	
<input type="checkbox"/> Cellulitis	<input type="checkbox"/> Osteomyelitis	<input type="checkbox"/> Skin abscess	
<input type="checkbox"/> Chronic ulcer/wound (not decubitus)	<input type="checkbox"/> Peritonitis	<input type="checkbox"/> Surgical incision infection	

**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

<b>CHRONIC LUNG DISEASE</b> <input type="checkbox"/> Cystic fibrosis <input type="checkbox"/> Chronic pulmonary disease	<b>IMMUNOCOMPROMISED CONDITION</b> <input type="checkbox"/> HIV infection <input type="checkbox"/> AIDS/CD4 count < 200 <input type="checkbox"/> Primary immunodeficiency <input type="checkbox"/> Transplant, hematopoietic stem cell <input type="checkbox"/> Transplant, solid organ	<b>NEUROLOGIC CONDITION</b> <input type="checkbox"/> Cerebral palsy <input type="checkbox"/> Chronic cognitive deficit <input type="checkbox"/> Dementia <input type="checkbox"/> Epilepsy/seizure/seizure disorder <input type="checkbox"/> Multiple sclerosis <input type="checkbox"/> Neuropathy <input type="checkbox"/> Parkinson's disease <input type="checkbox"/> Other (specify): _____	<b>SKIN CONDITION</b> <input type="checkbox"/> Burn <input type="checkbox"/> Decubitus/pressure ulcer <input type="checkbox"/> Surgical wound <input type="checkbox"/> Other chronic ulcer or chronic wound <input type="checkbox"/> Other (specify): _____
<b>CHRONIC METABOLIC DISEASE</b> <input type="checkbox"/> Diabetes mellitus <input type="checkbox"/> With chronic complications	<b>LIVER DISEASE</b> <input type="checkbox"/> Chronic liver disease <input type="checkbox"/> Ascites <input type="checkbox"/> Cirrhosis <input type="checkbox"/> Hepatic encephalopathy <input type="checkbox"/> Variceal bleeding <input type="checkbox"/> Hepatitis C <input type="checkbox"/> Treated, in SVR <input type="checkbox"/> Current, chronic	<b>PLEGIAS/PARALYSIS</b> <input type="checkbox"/> Hemiplegia <input type="checkbox"/> Paraplegia <input type="checkbox"/> Quadriplegia	<b>OTHER</b> <input type="checkbox"/> Connective tissue disease <input type="checkbox"/> Obesity or morbid obesity <input type="checkbox"/> Pregnant
<b>CARDIOVASCULAR DISEASE</b> <input type="checkbox"/> CVA/Stroke/TIA <input type="checkbox"/> Congenital heart disease <input type="checkbox"/> Congestive heart failure <input type="checkbox"/> Myocardial infarction <input type="checkbox"/> Peripheral vascular disease (PVD)	<b>MALIGNANCY</b> <input type="checkbox"/> Malignancy, hematologic <input type="checkbox"/> Malignancy, solid organ (non-metastatic) <input type="checkbox"/> Malignancy, solid organ (metastatic)	<b>RENAL DISEASE</b> <input type="checkbox"/> Chronic kidney disease Lowest serum creatinine: _____ mg/DL <input type="checkbox"/> Unknown or not done	<b>MUGSI CONDITIONS</b> <input type="checkbox"/> Urinary tract problems/abnormalities <input type="checkbox"/> Premature birth <input type="checkbox"/> Spina bifida
<b>GASTROINTESTINAL DISEASE</b> <input type="checkbox"/> Diverticular disease <input type="checkbox"/> Inflammatory bowel disease <input type="checkbox"/> Peptic ulcer disease <input type="checkbox"/> Short gut syndrome			

**19. SUBSTANCE USE**  None  Unknown

**SMOKING:** (Check all that apply)  
 None  
 Unknown  
 Tobacco  
 E-nicotine delivery system  
 Marijuana

**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:** (mm/dd/yyyy) \_\_\_\_\_ 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  Tracheostomy  
 Gastrostomy Tube  Nephrostomy Tube  
 NG Tube  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

**URINE CULTURES ONLY:**

**22a. WAS THE URINE COLLECTED THROUGH AN INDWELLING URETHRAL CATHETER?**

- Yes  No  Unknown

**URINE CULTURES ONLY:**

**22b. RECORD THE COLONY COUNT:**

\_\_\_\_\_

**URINE CULTURES ONLY:**

**22c. SIGNS AND SYMPTOMS ASSOCIATED WITH URINE CULTURE**

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"/> Costovertebral angle pain or tenderness | <input type="checkbox"/> Suprapubic tenderness                  |  |
| <input type="checkbox"/> Dysuria                                 | <input type="checkbox"/> Urgency                                |  |
- Apnea       Lethargy  
 Bradycardia       Vomiting

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 IN THE 7 DAYS BEFORE THE DISC:**

- 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

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

**24a. 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

**24b. SPECIMEN COLLECTION DATES FOR POSITIVE TESTS IN THE 90 DAYS BEFORE OR DAY OF DISC:**

<b>First positive test:</b>	_____ or <input type="checkbox"/> Date unknown
<b>Most recent positive test:</b>	_____ or <input type="checkbox"/> Date unknown

24c. COVID-NET CASE ID: \_\_\_\_\_

**25. WAS THE INCIDENT SPECIMEN POLYMICROBIAL?**

- Yes  No  Unknown

**26a. WAS THE INCIDENT SPECIMEN TESTED FOR CARBAPENEMASE GENES?**

- Yes  No  Laboratory not testing  Unknown

**26b. IF YES, WHAT TESTING METHOD WAS USED?** (Check all that apply)

- |  |  |
|--|--|
| <b>Non-Molecular Test Methods:</b>   | <b>Molecular Test Methods:</b>                                   |
| <input type="checkbox"/> CarbaNP   | <input type="checkbox"/> Automated Molecular Assay               |
| <input type="checkbox"/> Carbapenemase Inactivation Method (CIM)           | <input type="checkbox"/> Carba-R                                 |
| <input type="checkbox"/> CPO Detect  | <input type="checkbox"/> Check Points                            |
| <input type="checkbox"/> Disk Diffusion/ROSCO Disk E-test                  | <input type="checkbox"/> MALDI-TOF MS                            |
| <input type="checkbox"/> Modified Carbapenemase Inactivation Method (mCIM) | <input type="checkbox"/> Next Generation Nucleic Acid Sequencing |
| <input type="checkbox"/> Modified Hodge Test (MHT)                         | <input type="checkbox"/> PCR                                     |
| <input type="checkbox"/> RAPIDEC   | <input type="checkbox"/> Streck ARM-D                            |
| <input type="checkbox"/> Other (specify): _____                            | <input type="checkbox"/> Other (specify): _____                  |
| <input type="checkbox"/> Unknown   | <input type="checkbox"/> Unknown                                 |

**26c. 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 |

**27a. WAS THE INCIDENT SPECIMEN TESTED FOR ESBL PRODUCTION OR OTHER BETA-LACTAMASE GENES?**

- Yes  
 No  
 Laboratory not testing  
 Unknown

**27b. 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): \_\_\_\_\_

**27c. 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 |

**28. SUSCEPTIBILITY RESULTS:**

Please complete the table below based on the results from the data source (Accelerate Pheno System, E-test, Kirby Bauer, Microscan, Phoenix, Sensititre, Vitek, or Medical Record).

Antibiotic	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						
Tigicycline						
Tobramycin						
Trimethoprim-sulfamethoxazole						

**29a. WAS THE CASE FIRST IDENTIFIED THROUGH AN AUDIT?**

- Yes
- No

**29e. COMMENTS:**

**29b. CRF STATUS:**

- Complete
- Pending
- Chart unavailable after 3 requests
- Complete - pending data

**29c. SO INITIALS:**

\_\_\_\_\_

**29d. DATE OF ABSTRACTION: (mm/dd/yyyy)**

\_\_\_\_\_