

2021 Carbapenem Resistant Enterobacteriaceae (CRE)/ Carbapenem Resistant *A. baumannii* (CRAB)

Multi-site Gram-Negative Surveillance Initiative (MuGSI)

Healthcare-Associated Infections Community Interface (HAIC) Case Report



Patient's Name: _____		Phone no. () _____	
Address: _____		MRN: _____	
City: _____	State _____	ZIP: _____	Hospital: _____
----Patient Identifier information is not transmitted to CDC----			
DEMOGRAPHICS			
1. STATE: _____	2. COUNTY: _____	3. STATE ID: _____	4a. LABORATORY ID WHERE INCIDENT SPECIMEN IDENTIFIED: _____
5. DATE OF BIRTH: _____ - _____ - _____		7. SEX AT BIRTH: <input type="checkbox"/> MALE <input type="checkbox"/> FEMALE <input type="checkbox"/> Unknown <input type="checkbox"/> Check if transgender	8a. ETHNIC ORIGIN: <input type="checkbox"/> Hispanic or Latino <input type="checkbox"/> Not Hispanic or Latino <input type="checkbox"/> Unknown
6. AGE: _____ <input type="checkbox"/> Days <input type="checkbox"/> Mos. <input type="checkbox"/> Yrs.		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	
9. DATE OF INCIDENT SPECIMEN COLLECTION (DISC): _____ - _____ - _____		10. ORGANISM: <input type="checkbox"/> CRE <input type="checkbox"/> CRAB If CRE, select one of the following: <input type="checkbox"/> <i>Escherichia coli</i> <input type="checkbox"/> <i>Klebsiella aerogenes</i> <input type="checkbox"/> <i>Klebsiella oxytoca</i> <input type="checkbox"/> <i>Enterobacter cloacae</i> <input type="checkbox"/> <i>Klebsiella pneumoniae</i>	
11. INCIDENT SPECIMEN COLLECTION SITE: <input type="checkbox"/> Blood <input type="checkbox"/> Bone <input type="checkbox"/> Bronchoalveolar lavage (CRAB only, complete Q23c) <input type="checkbox"/> CSF <input type="checkbox"/> Internal body site (specify): _____ <input type="checkbox"/> Muscle <input type="checkbox"/> Peritoneal fluid <input type="checkbox"/> Pericardial fluid <input type="checkbox"/> Pleural fluid <input type="checkbox"/> Joint/synovial fluid <input type="checkbox"/> Sputum (CRAB only, complete Q23c) <input type="checkbox"/> Tracheal aspirate (CRAB only, complete Q23c) <input type="checkbox"/> Urine <input type="checkbox"/> Wound (specify): _____ (CRAB only) <input type="checkbox"/> Other LRT site (specify): _____ (CRAB only, complete Q23c) <input type="checkbox"/> Other normally sterile site (specify): _____			
12. LOCATION OF SPECIMEN COLLECTION: <input type="checkbox"/> OUTPATIENT: Facility ID: _____ <input type="checkbox"/> Emergency room <input type="checkbox"/> Clinic/Doctor's office <input type="checkbox"/> Dialysis center <input type="checkbox"/> Surgery <input type="checkbox"/> Observational/Clinical decision unit <input type="checkbox"/> Other outpatient <input type="checkbox"/> INPATIENT: Facility ID: _____ <input type="checkbox"/> ICU <input type="checkbox"/> OR <input type="checkbox"/> Radiology <input type="checkbox"/> Other inpatient <input type="checkbox"/> LTCF Facility ID: _____ <input type="checkbox"/> LTACH Facility ID: _____ <input type="checkbox"/> Autopsy <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Unknown		13. WHERE WAS THE PATIENT LOCATED ON THE 3 RD CALENDAR DAY BEFORE THE DISC? <input type="checkbox"/> Private residence <input type="checkbox"/> LTACH Facility ID: _____ <input type="checkbox"/> LTCF Facility ID: _____ <input type="checkbox"/> Hospital inpatient Facility ID: _____ <input type="checkbox"/> Homeless <input type="checkbox"/> Incarcerated <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Unknown Was the patient transferred from this hospital? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
14. WAS THE PATIENT HOSPITALIZED ON THE DAY OF OR IN THE 29 CALENDAR DAYS AFTER THE DISC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown IF YES, DATE OF ADMISSION: _____ - _____ - _____		15a. WAS THE PATIENT IN AN ICU IN THE 7 DAYS BEFORE THE DISC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown IF YES, DATE OF ICU ADMISSION: _____ - _____ - _____ OR <input type="checkbox"/> Date unknown 15b. WAS THE PATIENT IN AN ICU ON THE DAY OF INCIDENT SPECIMEN COLLECTION OR IN THE 6 DAYS AFTER THE DISC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown IF YES, DATE OF ICU ADMISSION: _____ - _____ - _____ OR <input type="checkbox"/> Date unknown	
16. PATIENT OUTCOME: <input type="checkbox"/> Survived DATE OF DISCHARGE: _____ - _____ - _____ OR <input type="checkbox"/> Date unknown <input type="checkbox"/> Left against medical advice (AMA) IF SURVIVED, DISCHARGED TO: <input type="checkbox"/> Private residence <input type="checkbox"/> LTCF Facility ID: _____ <input type="checkbox"/> LTACH Facility ID: _____ <input type="checkbox"/> Other (specify): _____ <input type="checkbox"/> Unknown		<input type="checkbox"/> Died <input type="checkbox"/> Unknown DATE OF DEATH: _____ - _____ - _____ OR <input type="checkbox"/> Date unknown 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? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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).



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.

- None Unknown
Costovertebral angle pain or tenderness Frequency
Dysuria Suprapubic tenderness
Fever [temperature ≥ 100.4 °F (38 °C)] Urgency

Symptoms for patients ≤ 1 year of age only:

- 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

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

24a. DID THE PATIENT HAVE A POSITIVE TEST(S) FOR SARS-CoV-2 (MOLECULAR ASSAY, SEROLOGY OR OTHER CONFIRMATORY TEST) ON OR BEFORE THE DISC?

Yes No Unknown

24b. IF YES, COMPLETE TABLE BELOW:

Table with 3 columns: Test description, Specimen collection date, Test type. Rows for FIRST and MOST RECENT positive tests.

24c. COVID-NET CASE ID:

24d. NNDSS IDs (please provide at least one of the following when applicable):

Local case ID: Local record ID: State case identifier: Legacy case identifier:

CDC 2019-nCoV 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):

Non-Molecular Test Methods:

Molecular Test Methods:

- CarbaNP Automated Molecular Assay
Carbapenemase Inactivation Method (CIM) Carba-R
Disk Diffusion/ROSCO Disk Check Points
E-test MALDI-TOF MS
Modified Carbapenemase Inactivation Method (mCIM) Next Generation Nucleic Acid Sequencing
Modified Hodge Test (MHT) PCR
RAPIDEC Streck ARM-D
Other (specify): Other (specify):
Unknown Unknown

26c. IF TESTED, WHAT WAS THE TESTING RESULT?

Non-Molecular Test Results:

Positive Indeterminate Negative Unknown

Molecular Test Results:

- NDM 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

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

Yes No Laboratory not testing Unknown

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?

- Positive Negative Indeterminate Unknown
Positive Negative Indeterminate Unknown
Positive Negative Indeterminate Unknown
Positive Negative Indeterminate Unknown
Positive Negative Indeterminate Unknown
Positive Negative Indeterminate Unknown
Positive Negative Indeterminate Unknown
Positive Negative Indeterminate Unknown

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



28. SUSCEPTIBILITY RESULTS:

Please complete the table below based on the information found in the indicated data source. Shaded antibiotics are required to have the MIC entered into the MuGSI-CM system, if available.

Data Source	Medical Record		Microscan		Vitek		Phoenix		Sensititre		Kirby-Bauer		E-test	
	MIC	Interp	MIC	Interp	MIC	Interp	MIC	Interp	MIC	Interp	Zone Diam	Interp	MIC	Interp
Amikacin														
Amoxicillin/Clavulanate														
Ampicillin														
Ampicillin/Sulbactam														
Aztreonam														
Cefazolin														
CEFEPIME														
Cefiderocol														
CEFOTAXIME														
Cefoxitin														
CEFTAZIDIME														
Ceftazidime/Avibactam														
Ceftolozane/Tazobactam														
CEFTRIAZONE														
Cephalothin														
Ciprofloxacin														
COLISTIN														
DORIPENEM														
Doxycycline														
Eravacycline														
ERTAPENEM														
Fosfomycin														
Gentamicin														
IMIPENEM														
Imipenem-relebactam														
Levofloxacin														
MEROPENEM														
Meropenem-vaborbactam														
Minocycline														
Nitrofurantoin														
Omadacycline														
Piperacillin/Tazobactam														
Plazomicin														
POLYMYXIN B														
Rifampin														
Tetracycline														
TIGECYCLINE														
Tobramycin														
Trimethoprim-sulfamethoxazole														

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

- Yes
- No

29b. CRF STATUS:

- Complete
- Pending
- Chart unavailable after 3 requests

29c. SO INITIALS:

29d. DATE OF ABSTRACTION:

_____ - _____ - _____

29e. COMMENTS:
