



STATE OF MISSOURI
 DEPARTMENT OF HEALTH AND SENIOR SERVICES
 BUREAU OF COMMUNICABLE DISEASE CONTROL AND PREVENTION
CARBAPENEM-RESISTANT ENTEROBACTERIACEAE (CRE) REPORTING FORM

GENERAL INFORMATION

Send completed form:
 By MAIL: Missouri Department of Health and Senior Services
 Bureau of Communicable Disease Control and Prevention
 930 Wildwood Dr, P.O. Box 570
 Jefferson City, MO 65109

FAX: 573-526-0235

OR EMAIL: HAI_Reporting@health.mo.gov

FACILITY INFORMATION

NAME OF FACILITY		TYPE OF FACILITY (HOSPITAL, SURGICAL CENTER)		NUMBER OF BEDS
ADDRESS				
CITY	STATE	ZIP CODE	COUNTY	
NAME OF CONTACT	TELEPHONE NUMBER	FAX NUMBER	EMAIL ADDRESS	

DATA

REPORTING QUARTER (CHECK ONE) YEAR _____

January-March April-June July-September October-December

Total number of CRE¹ isolates for reporting quarter: _____

Number of CRE isolates that are carbapenemase producers (CP-CRE)² for reporting quarter: _____

Species (attach more pages as necessary)	Number of isolates	Number of isolates that are CP-CRE

I hereby certify that all of the information provided on this form is complete and true to the best of my knowledge.

SIGNATURE OF CONTACT	DATE
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CRE is reportable quarterly, in aggregate fashion. Reporting is required for the following CRE organisms in Missouri:

- ***Enterobacter* spp.**
- ***Escherichia coli (E. Coli)***
- ***Klebsiella* spp.**

Reporting of other CRE organisms is encouraged.

Definition of carbapenem-resistant Enterobacteriaceae (CRE):

- Resistant to any carbapenem antimicrobial (i.e. minimum inhibitory concentrations of ≥ 4 mcg/ml for doripenem, meropenem, or imipenem OR ≥ 2 mcg/ml for ertapenem)

OR

- Documented to produce carbapenemase (e.g., KPC, NDM, VIM, IMP, OXA-48)

In addition:

- For bacteria that have intrinsic imipenem nonsusceptibility (i.e., *Morganella morganii*, *Proteus* spp., *Providencia* spp.), resistance to carbapenems other than imipenem is required.
- At present, acceptable tests for detecting carbapenemases include polymerase chain reaction, modified Hodge test (MHT), Carba NP, metallo- β -lactamase testing (e.g., MBL tests or screens). The number of available tests for carbapenemase is expanding; facilities using a test not included on the list above should review the test performance to ensure that it has reasonable sensitivity and specificity.

Carbapenemase-producing CRE (CP-CRE)

The subset of CRE includes carbapenemase-producing organisms (CP-CRE) which contain mobile resistance elements that facilitate transmission of resistance to other Gram negative bacilli. Early detection and aggressive implementation of infection prevention and control strategies are necessary to prevent further spread of CP-CRE, especially novel CP-CRE. Testing for CP-CRE is available for select CRE isolates through the Antibiotic Resistance Laboratory Network.

Contact the Missouri State Public Health Laboratory for carbapenemase screening requests at 573-751-3334.

CP-CRE Reporting:

Individual cases of CP-CRE infections are to be immediately reported to the Missouri Department of Health and Senior Services (DHSS) in accordance with 19 CSR 20-20.020 1(C). "Instances, clusters, or outbreaks of unusual, novel, and/or emerging diseases or findings not otherwise named in this rule, appearing to be naturally occurring, but posing a substantial risk to public health and/or social and economic stability due to their ease of dissemination or transmittal, associated mortality rates, or the need for special public health actions to control."

Note: Case patients with multiple specimen collections of the same genus/species of CP-CRE and carbapenem resistance profile should be reported as an incident case only once every 30 days. If a different CP-CRE genus/species or a more-resistant profile is identified within the 30-day window then this should be reported as a separate incident case.

Definition of carbapenemase-producing carbapenem-resistant Enterobacteriaceae (CP-CRE):

Reportable CP-CRE include:

- ***Enterobacter* spp.**
- ***Escherichia coli (E. Coli)***
- ***Klebsiella* spp.**

Reporting of other CP-CRE organisms is encouraged.

For questions related to CRE reporting, please contact:
Bureau of Communicable Disease Control and Prevention
Missouri Department of Health and Senior Services
930 Wildwood Dr., P.O. Box 570, Jefferson City, MO 65109
Telephone: 573-751-6113
E-mail: HAI_Reporting@health.mo.gov