

## Carbapenem-Resistant Enterobacteriaceae (CRE) Surveillance and Prevention Initiative

The Michigan Department of Community Health (MDCH) Surveillance for Healthcare-Associated and Resistant Pathogens (SHARP) Unit has begun a Carbapenem-Resistant Enterobacteriaceae (CRE) Surveillance and Prevention Initiative. Although an initial case of CRE in a facility or laboratory is reportable as an 'unusual occurrence' and all outbreaks or epidemics are reportable (per the Communicable Disease Rules R 325.171-3, 333.5111), subsequent individual cases are not reportable. As such, the burden of CRE in Michigan is unknown.

MDCH is coordinating resources and expertise by forming a CRE Collaborative group to address the increasing threat of CRE in Michigan. The CRE Collaborative is comprised of medical directors, infection preventionists, clinical microbiologists, long term acute care (LTAC) representatives, and public health representatives.

The CRE Collaborative will help direct surveillance and prevention efforts by developing a practical reporting mechanism for CRE, enrolling acute care and LTAC facilities to participate, and identifying and implementing 'best practice' recommendations that can be applied across the healthcare continuum. The overall goal is to build a regional, public health model to reduce the spread of CRE in Michigan.

### Objectives of the CRE Surveillance and Prevention Initiative:

- Design a survey to capture current laboratory and infection prevention practices
- Form collaborative group
- Develop voluntary CRE reporting mechanism
- Identify and enroll acute and long-term acute care (LTAC) facilities
- Determine baseline CRE prevalence/incidence
- Implement evidence-based CRE prevention measures
- Re-measure CRE prevalence/incidence
- Describe the epidemiology of CRE in the state of Michigan

### Aims:

- Reduce CRE prevalence/incidence in Michigan
- Identify and implement best practice recommendations across the healthcare continuum
- Build regional partnerships within healthcare and public health communities

### CRE Surveillance and Prevention Initiative will focus on:

- CRE awareness and education
- Early identification and detection of CRE
- Improve timeliness of patient isolation
- Increase compliance with contact precautions
- Improve communication within and between acute care and LTAC facilities
- Antimicrobial stewardship (across healthcare continuum)
- Infection prevention (across the healthcare continuum)

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