

Carbapenemase-producing Carbapenem-resistant *Enterobacteriaceae* (CP-CRE) in I-NEDSS

Effective December 25, 2015, healthcare providers and laboratories will be required to report carbapenemase-producing carbapenem-resistant *Enterobacteriaceae* (CP-CRE) to the ISDH.

When CP-CRE are identified:

- 1) An investigation shall be performed by the local health officer (or designee) within seventy-two hours via I-NEDSS and include individuals who have shared a residence with the patient in an acute care or long term care facility
- 2) The facility shall initiate contact precautions for CP-CRE; additional precautions should be added if any other transmissible condition is present
- 3) Supplemental measures for a health care facility with CP-CRE transmission include the following:
 - (A) Refer to the most recent CRE Toolkit from the Centers for Disease Control and Prevention for patient and environmental management of CRE patients
 - (B) Consider screening of patients to determine if epidemiologically linked
 - (C) Consider chlorhexidine gluconate bathing
- 4) Case definition is established by the department

Healthcare providers should submit communicable disease reports and local health departments should start investigations in I-NEDSS after December 25, 2015.

Laboratories shall submit CP-CRE isolates to the ISDH Microbiology Laboratory for further evaluation within three business days of isolation. CP-CRE isolates include organisms that are non-susceptible to at least one carbapenem antibiotic with a minimum inhibitory concentration (MIC) $\geq 2\mu\text{g/ml}$ or zone diameter $\leq 22\text{mm}$ ($\leq 21\text{mm}$ for ertapenem), and meet one of the following criteria:

- 1) Are positive for carbapenemase production by a phenotypic test (e.g., Modified Hodge or Carba NP)
- 2) Are non-susceptible to at least three carbapenem antibiotics with MIC $\geq 2\mu\text{g/ml}$ or zone diameter $\leq 22\text{mm}$ ($\leq 21\text{mm}$ for ertapenem)
- 3) Are positive for a carbapenemase gene marker

Only one isolate that meets these criteria should be submitted if the same organism is repeatedly recovered from the same patient.

If you have questions about CP-CRE reporting or case investigations in I-NEDSS, please contact Nicole Hearon, HAI Epidemiologist, at nhearon@isdh.in.gov or 317-234-2805.