Criteria for MDCH CRE confirmatory testing of *Enterobacteriaceae* using OLD (2010 or older) CLSI or FDA (2012 or older) carbapenem breakpoints

**Look at instrument results:**
(Vitek®, Microscan®, Phoenix™)

- **Is isolate I or R to one or more carbapenem?**
  (imipenem, meropenem, ertapenem, doripenem)
  
  **Check MIC values of carbapenems. Are any of the following true?**
  - Imipenem MIC is = 2 or 4 ug/ml
  - Meropenem MIC is = 2 or 4 ug/ml
  - Ertapenem MIC is = 1 or 2 ug/ml

  **Unknown: Lower dilutions not on our panel**

- **Is isolate I or R to all agents in cephalosporin subclass III?**
  (cefoperazone, cefotaxime, ceftazidime, ceftizoxime, and ceftriaxone)

  **Perform MHT (Modified Hodge Test)**

  - **Result POS**
  - **Result NEG**

  **Submit isolate to MDCH lab for CRE confirmation**

  **Do NOT submit; probably not CRE**

1/28/2013

Michigan Department of Community Health Laboratory
Criteria for MDCH CRE confirmatory testing of *Enterobacteriaceae* using NEW CLSI (2012) carbapenem breakpoints

Look at instrument results:
(Vitek®, Microscan®, Phoenix™)

Is isolate I or R to one or more carbapenem? (imipenem, meropenem, ertapenem, doripenem)

Yes
Submit isolate to MDCH lab for CRE confirmation

No
Do NOT submit; probably not CRE