Carbapenem Resistant Enterobacterales (CRE), Carbapenem Resistant Pseudomonas aeruginosa (CRPa), Carbapenem Resistant Acinetobacter baumannii (CRAB) and/or Carbapenemase Producing bacteria

INCLUSION CRITERIA

Isolate must meet one or more of the following criteria

1. Minimum Inhibitory Concentrations (MIC):
   
   **CRE**
   - $\geq 4 \, \mu g/ml$ for meropenem, imipenem, or doripenem
   - $\geq 2 \, \mu g/ml$ for ertapenem

   **CRPa**
   - $\geq 8 \, \mu g/ml$ for meropenem, imipenem, or doripenem AND $\geq 16 \, \mu g/ml$ (nonsusceptible) for cefepime or ceftazidime

   **CRAB**
   - $\geq 8 \, \mu g/ml$ for meropenem, imipenem, or doripenem, or if pan-nonsusceptible

   Note: for bacteria that have intrinsic imipenem non-susceptibility (Morganella, Proteus, Providencia spp), resistance to carbapenems other than imipenem is required.

2. Disk Diffusion susceptibility testing methods:
   
   **CRE**
   - Zone diameter breakpoint $\leq 19$mm for meropenem, imipenem, or doripenem
   - Zone diameter breakpoint $\leq 18$mm for ertapenem

   **CRPa**
   - Zone diameter breakpoint $\leq 15$mm for meropenem, imipenem, or doripenem AND $\leq 17$mm for cefepime or ceftazidime

3. Enterobacterales and other bacteria that exhibit evidence of carbapenemase production demonstrated by one of the following test:
   
   - CarbaNP/CarbaR
   - Polymerase Chain Reaction (PCR) for KPC, NDM, VIM, IMP, OXA-48
   - modified carbapenem inactivation method (mCIM)
   - other molecular methods

Note: Please do not submit duplicate isolates (same patient, specimen site, and organism) collected within 30 days.
NOTIFIABLE DISEASES in the State of New Mexico\(^1\)

Carbapenem Resistant Enterobacterales (CRE), Carbapenem Resistant Pseudomonas aeruginosa (CRPa), Carbapenem Resistant Acinetobacter baumannii (CRAB) and/or Carbapenemase Producing bacteria

Report all infections, including non-healthcare-associated, **within 24 hours** to Epidemiology and Response Division (ERD) by fax at 505-827-0013 or by phone at 505-827-0006.

[^1] Laboratory or clinical specimens are **required** to be sent to the Scientific Laboratory Division (SLD).

2 NOTIFIABLE DISEASES OR CONDITIONS IN NEW MEXICO:
https://nmhealth.org/publication/view/regulation/372/

7.4.3.13 NEW MEXICO ADMINISTRATIVE CODE:
http://www.nmcpr.state.nm.us/nmac/parts/title07/07.004.0003.htm

ALL REPORTS INCLUDING ELECTRONIC LABORATORY REPORTS OF NOTIFIABLE CONDITIONS MUST INCLUDE:
1. The disease or condition being reported;
2. Patient’s name, date of birth/age, gender, race/ethnicity, address, patient’s telephone numbers, and occupation;
3. Physician or licensed healthcare professional name and telephone number; and
4. Healthcare facility or laboratory name and telephone number, if applicable.

SUBMISSION
Please send isolates to SLD
1101 Camino de Salud NE Albuquerque, NM 87102

**Collection:** Send isolate on culture medium such as nutrient agar slants or MAC agar plates.

**Special Requirements:** Carbapenemase producing plasmids are not stable. Keep isolate **refrigerated** until shipment. Avoid multiple sub- cultures.

**Handling:** Refrigerate immediately upon growth of isolate.

**Include:** Copy of **susceptibility report** and Clinical Test Request form.
https://www.nmhealth.org/publication/view/form/6380/

**Analysis Requested:** Under Bacteriology, please check “CRE Panel”, select CRE, CRPa, or Other and write in organism genus and species.

**Shipping:** Send cold, on an ice pack. **Do not freeze**. Pack as a Category B Specimen in accordance with all Department of Transportation (DOT) and International Air Transport Association (IATA) guidelines. Send to the Scientific Laboratory Division (SLD).

**Contact:** GM Supervisor (505-383-9128), or GM Line Supervisor (505-383-9127).