# 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 µg/ml for meropenem, imipenem, or doripenem
- $\geq 2 \ \mu g \ /ml$  for ertapenem

### CRPa

•  $\geq 8 \,\mu g/ml$  for meropenem, imipenem, or doripenem <u>AND</u>  $\geq 16 \,\mu g/ml$  (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 ≤ 19mm for meropenem, imipenem, or doripenem
- zone diameter breakpoint ≤ 18mm for ertapenem

#### CRPa

• zone diameter breakpoint ≤ 15mm for meropenem, imipenem, or doripenem <u>AND</u> ≤ 17mm 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<sup>1</sup>

# 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.

Carbapenem Resistant Enterobacterales\* Carbapenem Resistant Pseudomonas aeruginosa\* Carbapenem Resistant Acinetobacter baumannii\*

[\*] Laboratory or clinical specimens are <u>required</u> to be sent to the Scientific Laboratory Division (SLD).

# <sup>1</sup>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

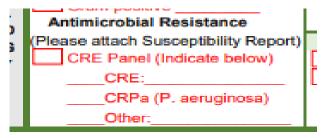
**Collection:** Send isolate on culture medium such as nutrient agar slants or MAC agar plates.

**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 <u>susceptibility report</u> 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).