

Carbapenem Resistant Organisms (CRO)/ Carbapenemase Producing Organisms (CPO) Fact Sheet



CRO vs. CPO: What's the Difference and Why Do We Care?



<u>Term</u>	<u>Meaning</u>	<u>Key Points</u>
CRO (Carbapenem-Resistant Organism)	Bacteria that are resistant to carbapenem antibiotics for any reason	Carbapenems are among our most effective class of antibiotics, so resistance to them is especially concerning. The main carbapenem antibiotics include Imipenem (Primaxin); Meropenem (Merrem); Ertapenem (marketed as Invanz); and Doripenem
CPO (Carbapenemase-Producing Organism)	Bacteria that are resistant to carbapenem antibiotics AND that produce carbapenemase enzymes making transmission easier.	Able to produce carbapenemase enzymes that break down carbapenem antibiotics directly. This mechanism can be more easily transmitted from cell-to-cell and person-to-person. The “big five” genes that infer this ability are: KPC, NDM, VIM, IMP, OXA-48

Major Types of Carbapenem Resistant Organisms (CRO)



- Carbapenem-resistant Enterobacterales (**CRE**)
- Carbapenem-resistant Pseudomonas aeruginosa (**CRPA**)
- Carbapenem-resistant Acinetobacter baumannii (**CRAB**)

All of these organisms are also capable of being a CPO (CP-CRE, CP-CRPA, CP-CRAB)

More Information for Healthcare Providers, Patients & Families



Click the links below for more information about:

- CRE Information for Patients & Families: [CRE \(CDC\)](#)
- CRPA Information for Patients & Families: [CRPA \(CDC\)](#)
- CRAB Information for Patients & Families: [CRAB \(Iowa Dept. of Health\)](#)
- CRE Information for Healthcare Providers: [CRE Control \(CDC\)](#)
- CRPA Information for Healthcare Providers: [CRPA \(CDC\)](#)
- CRAB Information for Healthcare Providers: [CRAB for Facilities \(CDC\)](#)



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