

California Antimicrobial-Resistant (AR) Pathogen Containment Plan Tiers

Tiers do not include MRSA, VRE, ESBL, and other common AR pathogens. Local health departments might define the pathogen tiers differently within their jurisdiction based on local epidemiology.

Tier 1	Pathogens, resistance mechanisms never or very rarely detected in California	<ul style="list-style-type: none"> • Novel organism or resistance mechanism
Tier 2	Pathogens, resistance mechanisms not commonly detected in California	<ul style="list-style-type: none"> • <i>Candida auris</i> • Non-KPC carbapenemase-producing Enterobacterales¹ • Uncommon carbapenemase-producing <i>Acinetobacter</i> spp.² • Carbapenemase-producing <i>Pseudomonas</i> spp.³
Tier 3	Pathogens, resistance mechanisms regularly detected in California but not endemic	<ul style="list-style-type: none"> • KPC-producing Enterobacterales • OXA-23-like-, OXA-24/40-like-, OXA-58-like-, OXA-235-like-producing <i>Acinetobacter</i> spp.
Tier 4	Pathogens, resistance mechanisms endemic in California	<ul style="list-style-type: none"> • None of the AR pathogens in this framework is endemic statewide. However, their levels of endemicity can vary regionally within the state.

Footnotes and Abbreviations

1. Including IMP-, NDM-, OXA-48-like-, VIM-producing Enterobacterales
2. Including KPC-, IMP-, NDM-, OXA-48-like-, VIM-producing *Acinetobacter* spp.
3. Including GES-, KPC-, IMP-, NDM-, OXA-48-like-, VIM-producing *Pseudomonas* spp.

GES	Guiana extended-spectrum beta-lactamase
KPC	<i>Klebsiella pneumoniae</i> carbapenemase
IMP	Imipenemase
NDM	New Delhi metallo-beta-lactamase
OXA	Oxacillinase
VIM	Verona integron-encoded metallo-beta-lactamase
ESBL	Extended-spectrum beta-lactamase
MRSA	Methicillin-resistant <i>Staphylococcus aureus</i>
VRE	Vancomycin-resistant <i>Enterococcus</i>