

ANTIMICROBIAL RESISTANCE

Carbapenem-resistant *Klebsiella*

% RESISTANT IN 2024 ⓘ

**5.6%
Resistant**

NUMBER OF RESISTANT
ISOLATES OF THE TOTAL
NUMBER OF ISOLATES TESTED
IN 2024 ⓘ

421 Resistant
/ 7,552 Tested

% RESISTANT BY PATIENT AGE IN 2024 ⓘ

Pediatric: **3.0% Resistant**
Adult: **5.7% Resistant**

PATHOGEN PROFILE

Carbapenem-resistant *Klebsiella*

Klebsiella spp. cause pneumonia, urinary tract infections, and bloodstream infections in hospitalized patients, as well as in patients in nursing homes and other healthcare facilities. Carbapenem-Resistant *Klebsiella* spp. is a subset of the very resistant "nightmare" bacteria carbapenem-resistant Enterobacterales (CRE).

DATA SOURCE

National Healthcare
Safety Network (NHSN)

CURRENT THREAT REPORT

Threat Level
● Urgent

Estimated Cases
14,878

Estimated Deaths
1,252

Healthcare Costs (USD)
\$174 M

Source: COVID-19: U.S. Impact
on Antimicrobial Resistance,
Special Report 2024

YEARS INCLUDED

2011 - 2024

RESOURCES

- About Antimicrobial Resistance
- Pathogen Index
- Phenotype Definitions
- Methodology
- Frequently Asked Questions
- Data Dictionary
- Guide to NHSN HAI Pathogen and AR Data

GEOGRAPHIC LOCATIONS

Antimicrobial resistance varies by location, driven by a number of factors, including antibiotic use and infection control practices in individual healthcare facilities, the underlying health and age of the patient population, and regional spread from nearby locations.

PERCENT CARBAPENEM RESISTANCE AMONG *KLEBSIELLA* SPP. BY STATE MAP

HAI TYPE

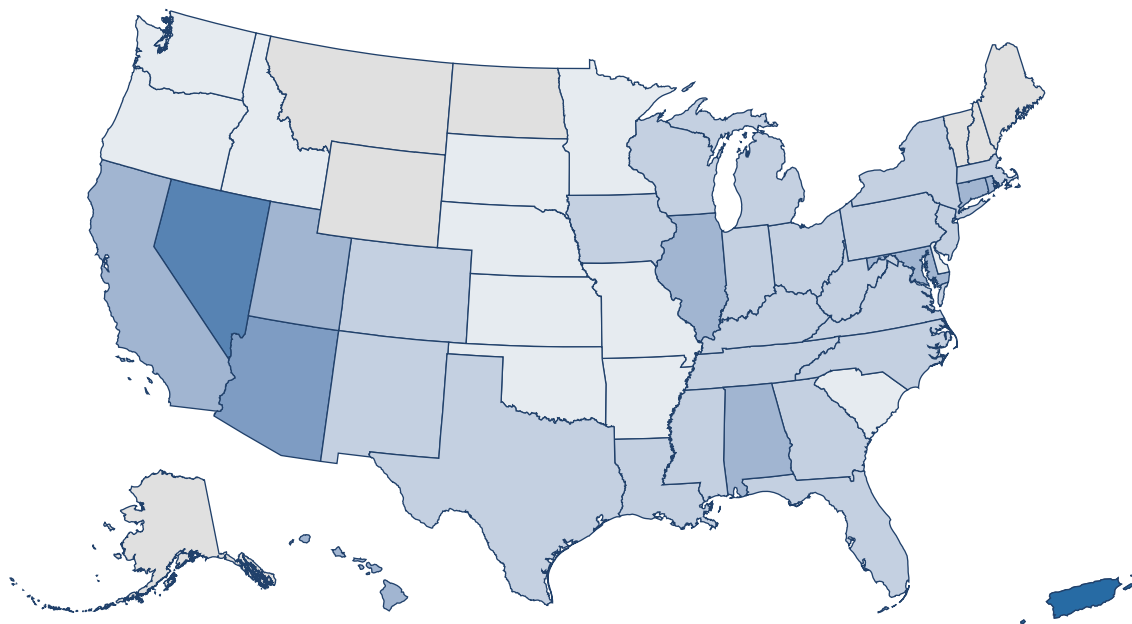
All Event Types 

YEAR

2024

This map shows the variation in % carbapenem resistance among *Klebsiella* spp. causing all event types in 2024.

PERCENT CARBAPENEM RESISTANCE AMONG *KLEBSIELLA* SPP. BY STATE



PERCENT CARBAPENEM RESISTANCE AMONG *KLEBSIELLA* SPP. BY STATE LIST

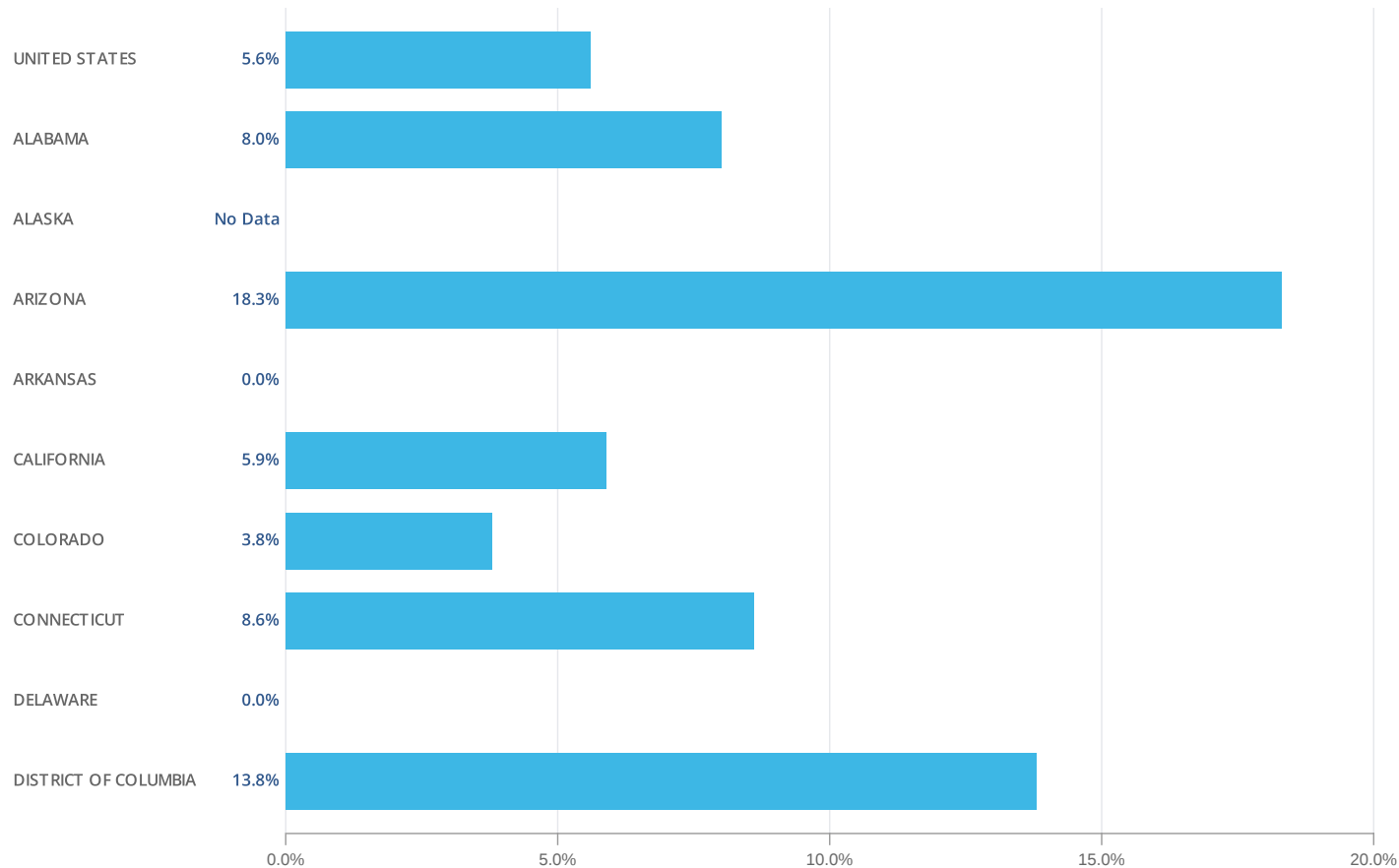
HAI TYPE

All Event Types

YEAR

2024

GEOGRAPHY



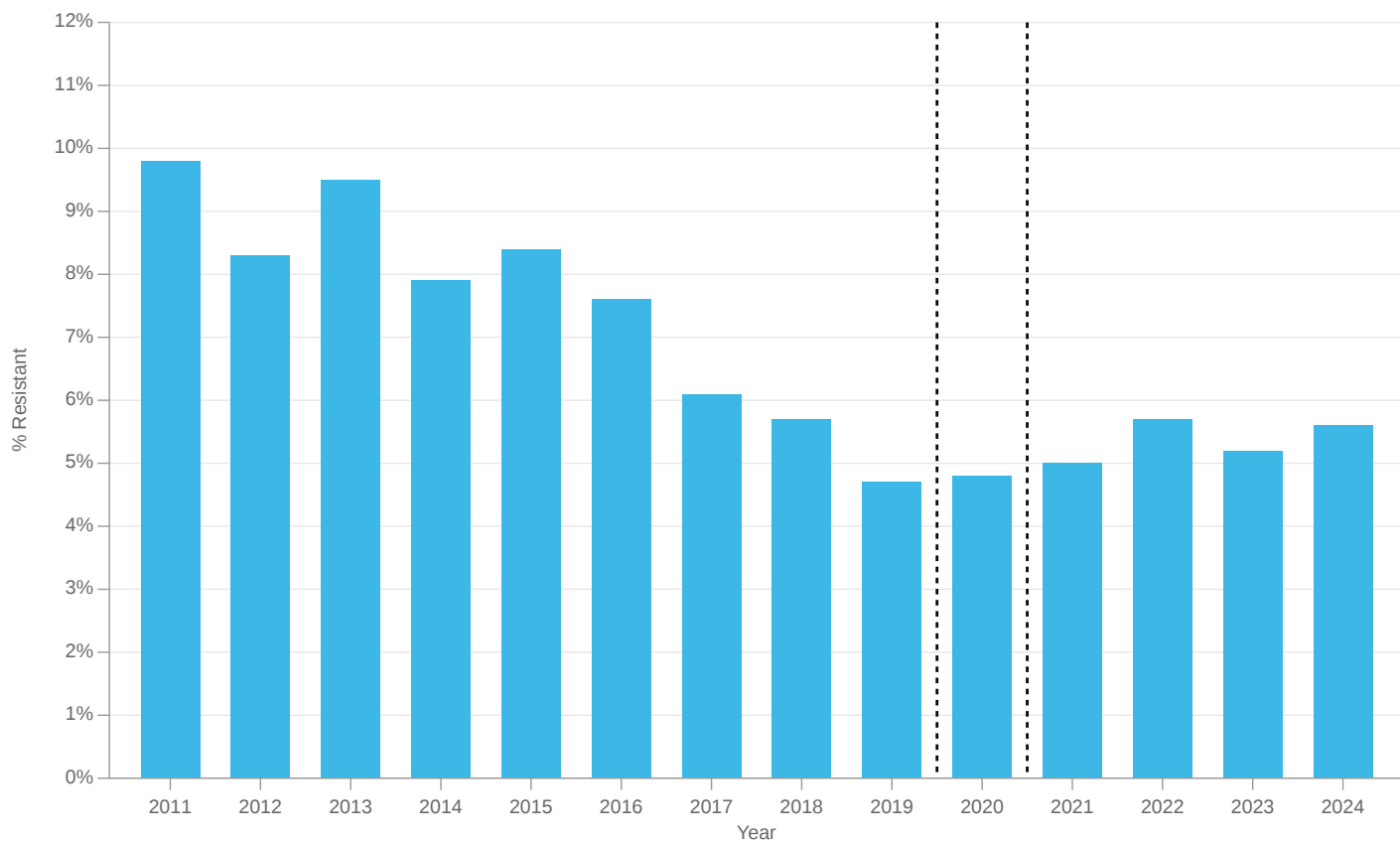
CHANGES OVER TIME IN CARBAPENEM RESISTANCE AMONG *KLEBSIELLA* SPP.

HAI TYPE

All Event Types

This graph displays percent antimicrobial resistance from 2011 to 2024 for all event types. *Blank areas of the chart represent 0% resistance, indicating that zero resistant pathogens were reported for the selected year, phenotype, and HAI type. "Insufficient data" indicates that less than 20 pathogens were isolated and tested for resistance.*

⚠ Due to definition changes, caution should be used when reviewing this phenotype over time.



HEALTHCARE FACILITY TYPE

The setting or type of healthcare facility can influence the types of procedures and prevention measures that are related to healthcare-associated infections and antimicrobial resistance.

CARBAPENEM RESISTANCE AMONG *KLEBSIELLA* SPP. BY HOSPITAL TYPE

VIEW BY

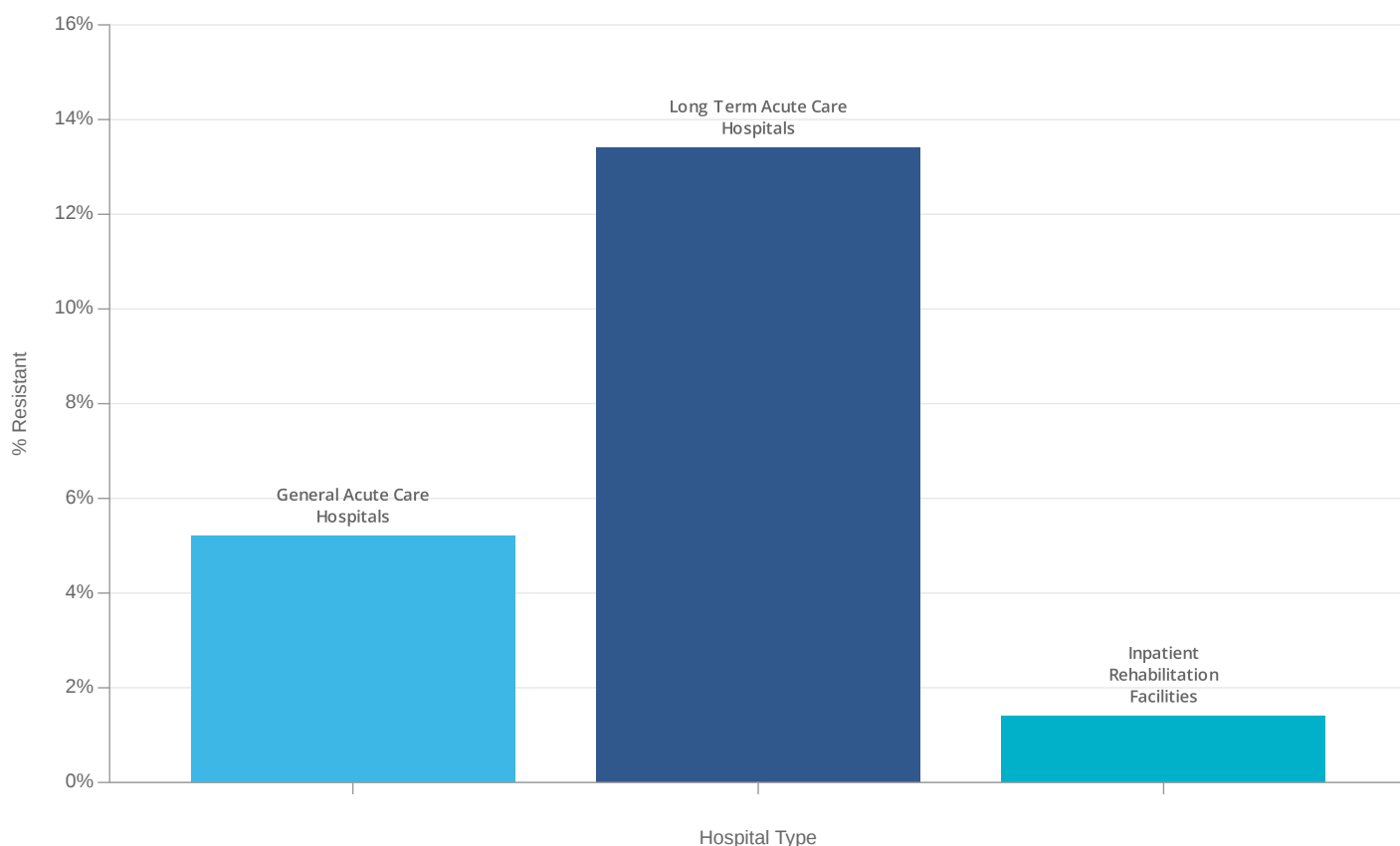
Percent resistant	Number resistant	Number tested
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YEAR

2024

This graph displays percent antimicrobial resistance by hospital type in 2024.

PERCENT RESISTANT AMONG *KLEBSIELLA* SPP. BY HOSPITAL TYPE



- HAIs include Catheter-associated Urinary Tract Infections (CAUTI), Central Line-associated Bloodstream Infections (CLABSI), and Surgical Site Infections (SSI).
- CI (Confidence Interval) - The national, regional, and state-level data included in Antimicrobial Resistance information are displayed with 95% confidence intervals around the percent resistance, which were calculated using a mid-P exact test and are an indication of precision.
- Map legends are classified using the Jenks Natural Breaks method.
- *Klebsiella aerogenes* is only counted in this phenotype for 2020 events and forward. Prior to 2020, this pathogen was referred to as *Enterobacter aerogenes*.

- The definition for this phenotype underwent changes in 2021. For more information, refer to the AR&PSP [Phenotype Definitions](#).