

# Antimicrobial Resistance (AMR) Surveillance on Culture Specimens in Public Hospitals and Clinics - Hospital Authority AMR Data (2023)

April 2025



# Contents Outline

- Results
  - Overview on patients with blood, urine, stool, CSF and lower respiratory cultures
  - Overview on WHO priority organisms isolates from blood, urine, stool, CSF and lower respiratory cultures
  - Antimicrobial susceptibility test result
- Summary

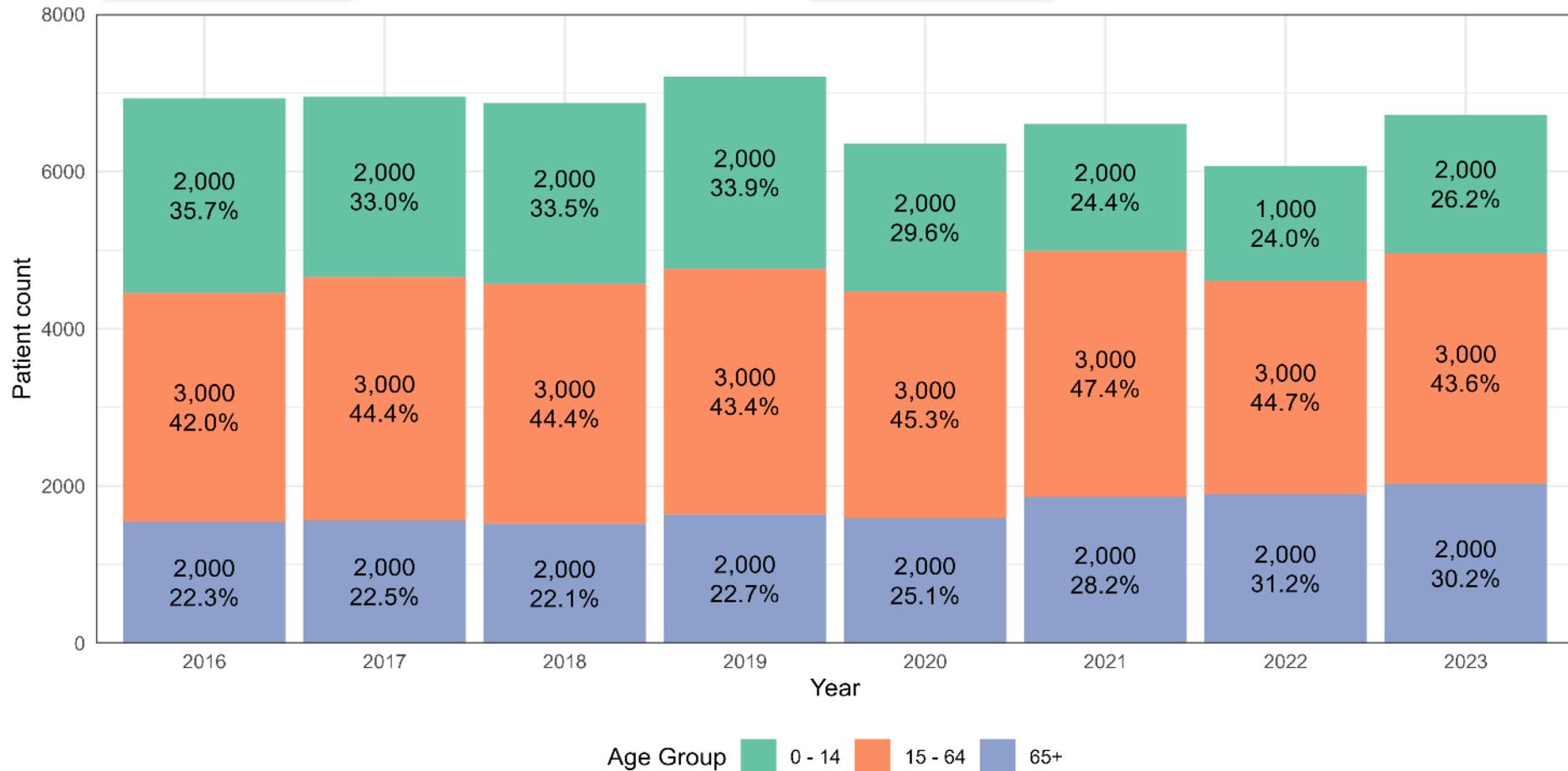


# Results - CSF Culture

Overview on patients with CSF culture

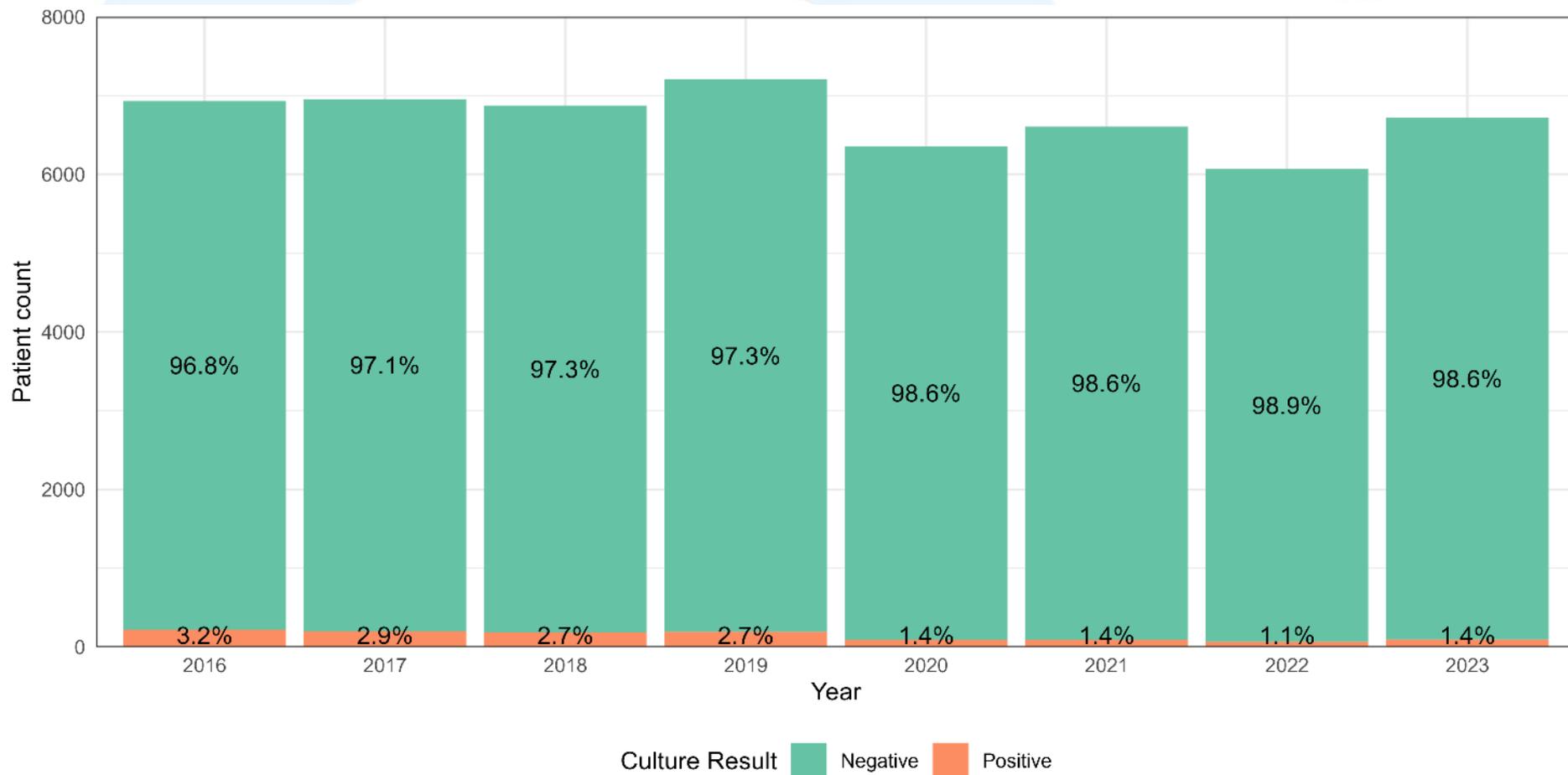


# Age distribution of patients with CSF culture



- No. of patients with CSF culture increased from 6000 in 2022 to 7000 in 2023 (16.7% increase).

# Percentage of patients with positive CSF culture



- % patients with positive CSF culture remained stable from 2020 to 2023 at less than 2%.

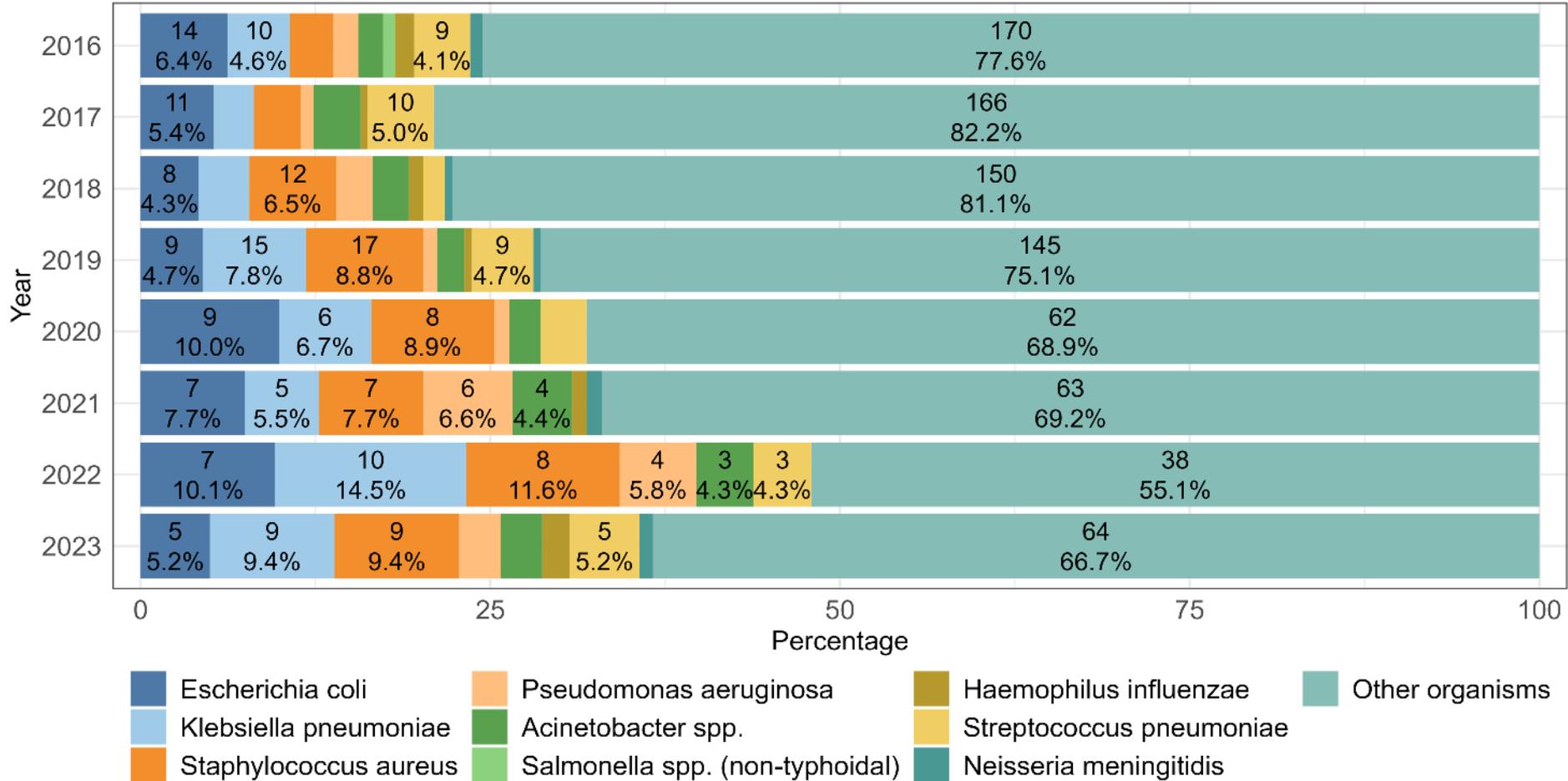


# Results - CSF Culture

Overview on WHO priority organisms isolated from CSF

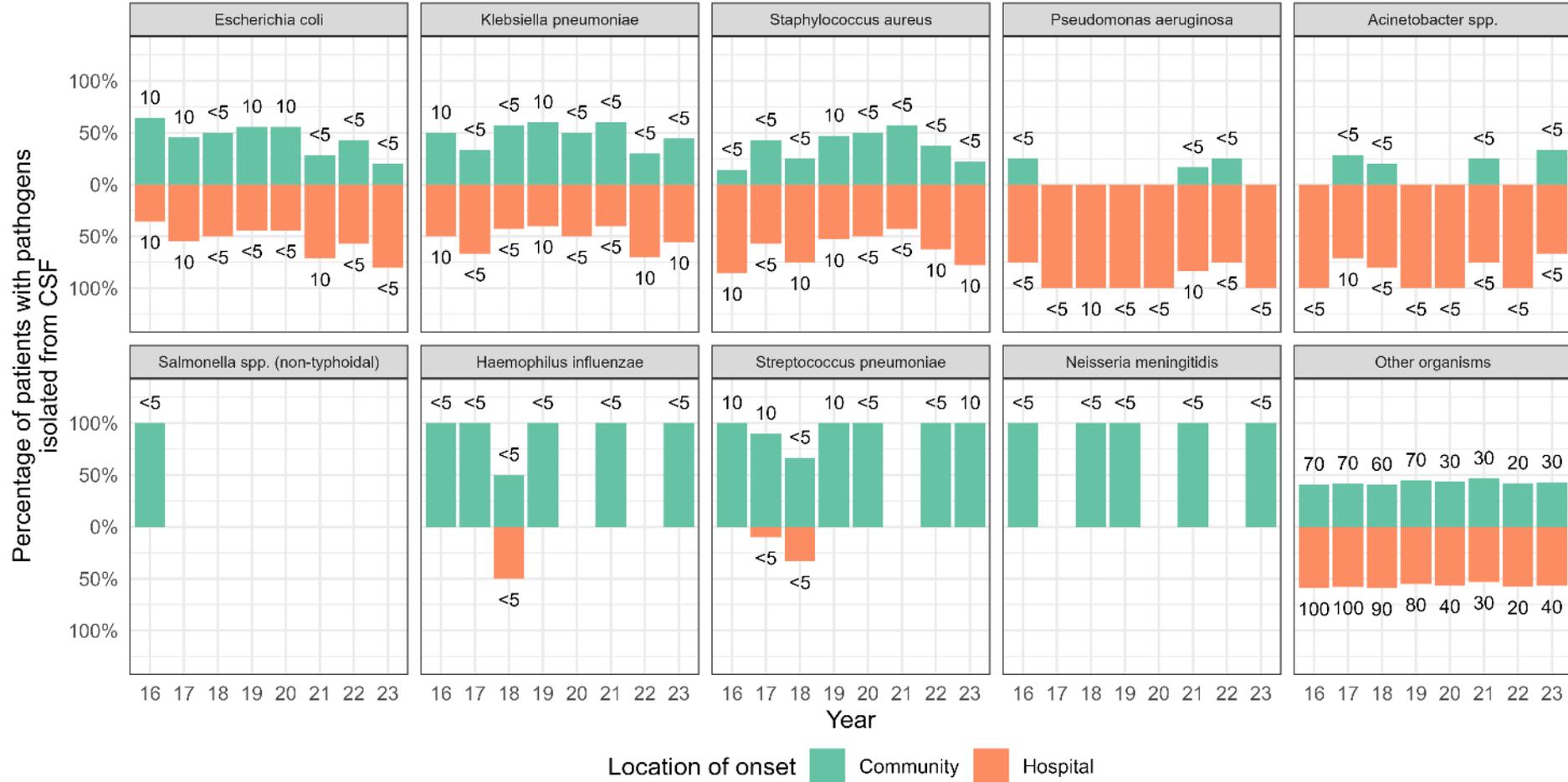


# Distribution of organisms by year



- Among the WHO priority organisms cultured from CSF between 2016 to 2023, no single pathogen remained consistently dominant.

# Distribution of organisms by location of onset



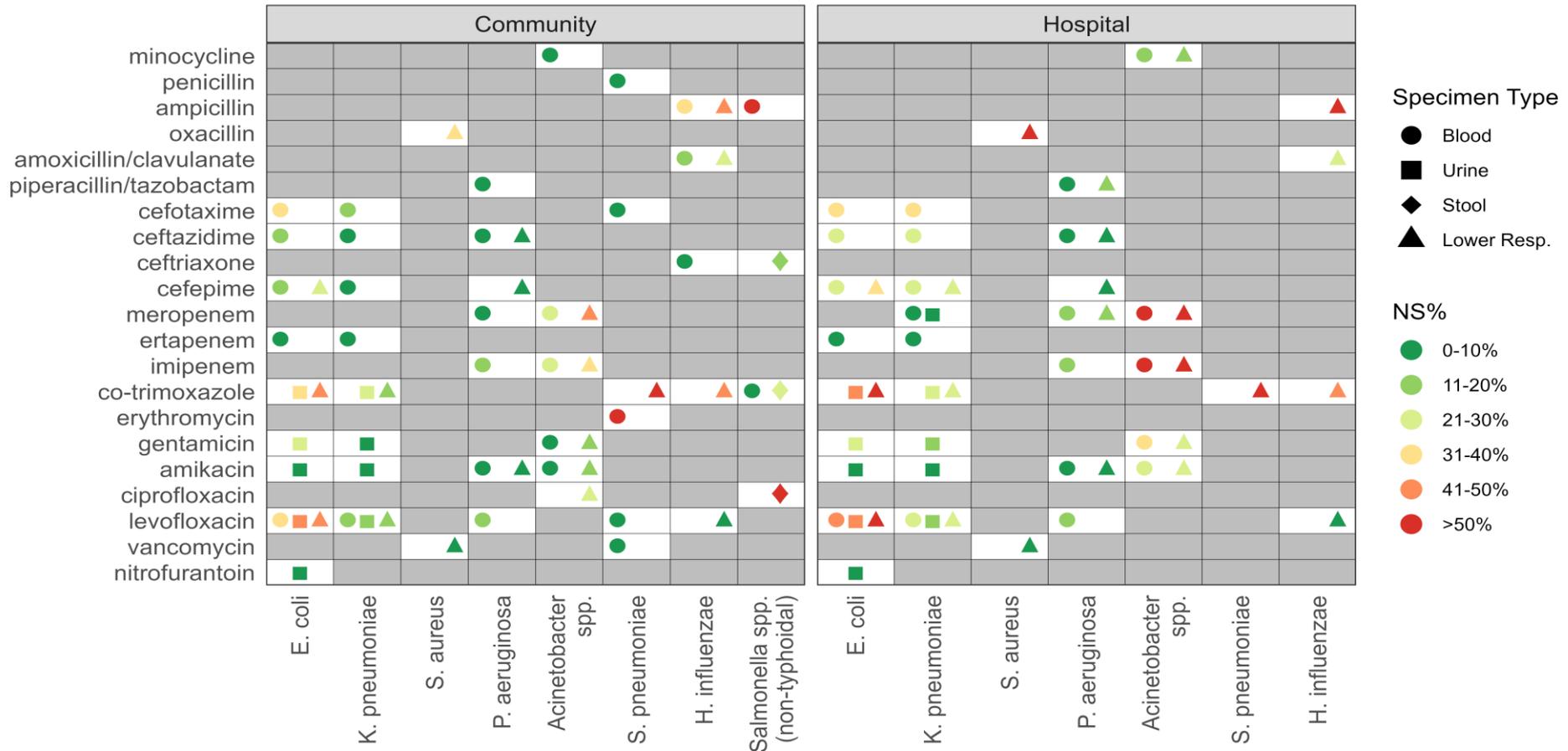
- *H. influenzae*, *S. pneumoniae*, *N. meningitidis* were predominantly community-onset from 2016 to 2023.
- More than half of *S. aureus*, *P. aeruginosa* and *Acinetobacter* spp. isolated were hospital-onset.

# CSF Culture- AST results

No AST results available as < 10 isolates tested for each organism (WHO GLASS manual)



# Summary



Note: Only drug-bug combinations with more than 10 isolates and at least 70% of isolates tested for susceptibility in 2023 are shown.

- Carbapenem resistance among Enterobacterales (E. coli and K. pneumoniae) was observed in infections of hospital- and community- onset.
- Higher non-susceptibility rates (orange/red symbols) are more frequently observed in hospital isolates, especially for Acinetobacter spp. and Pseudomonas aeruginosa.