

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

April 2025



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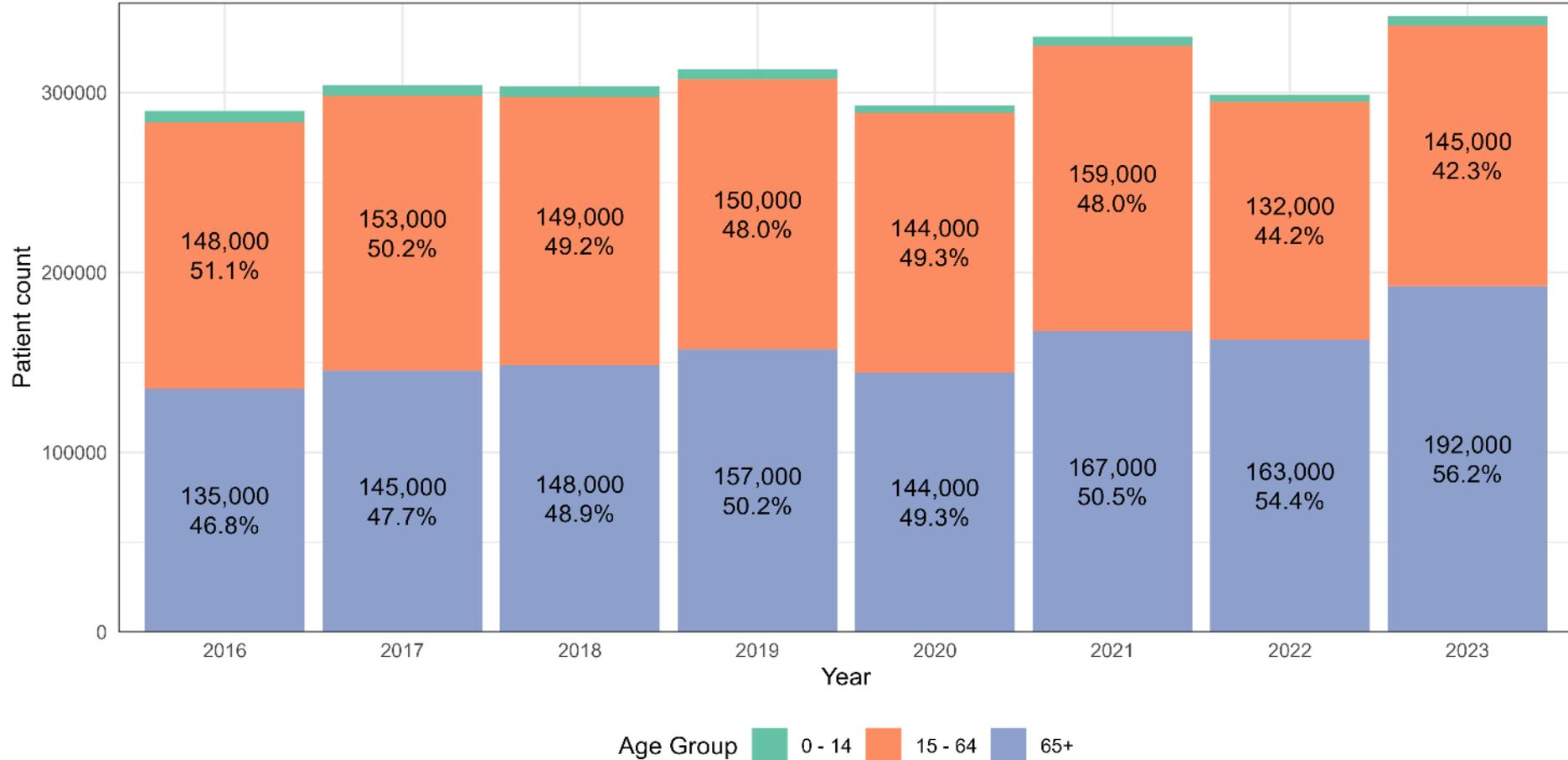


Results - Urine Culture

Overview on patients with urine culture

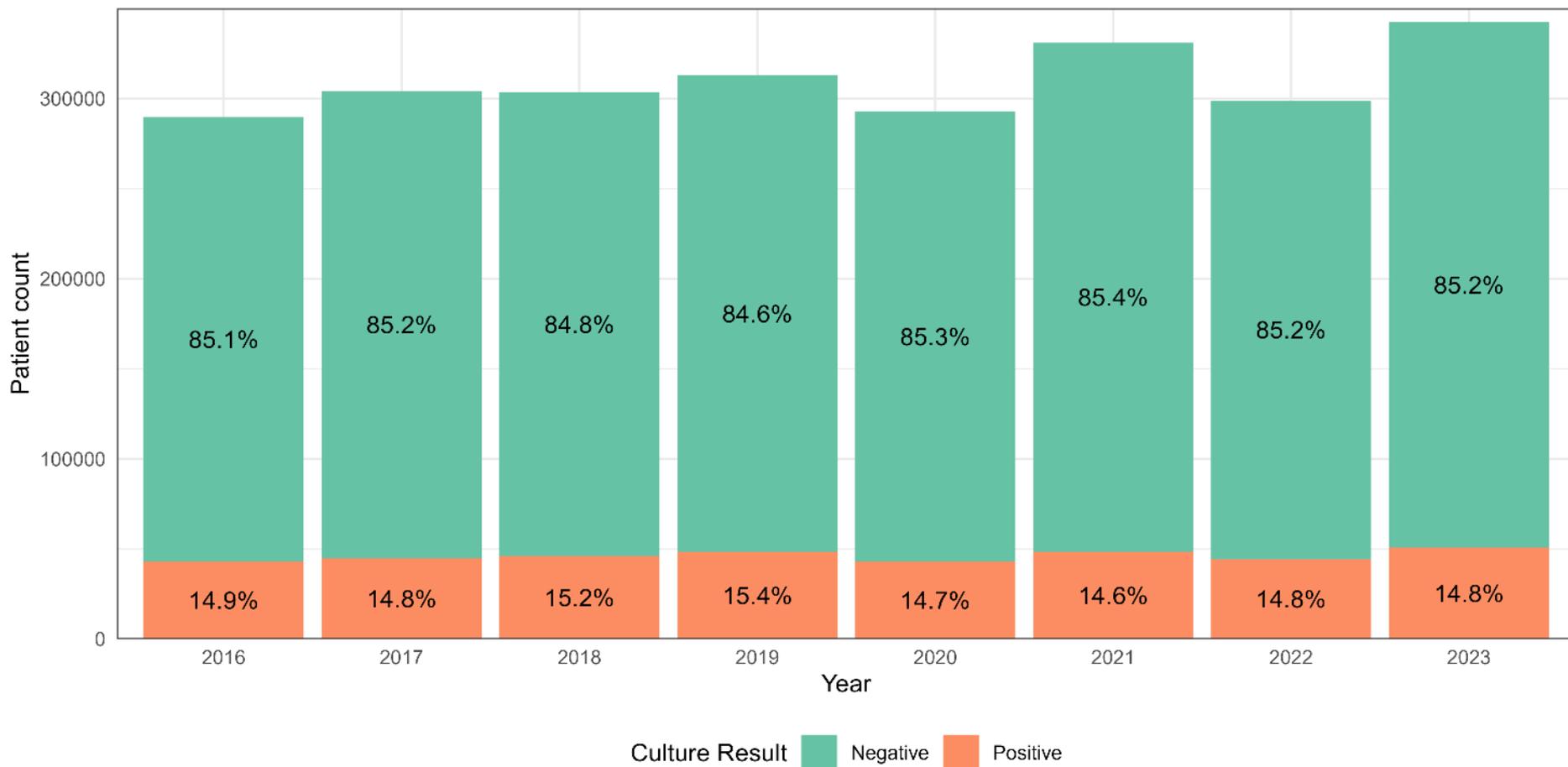


Age distribution of patients with urine culture



- No. of patients with urine culture increased from 299000 in 2022 to 342000 in 2023 (14.6% increase).

Percentage of patients with positive urine culture



- % patients with positive urine culture remained stable over the past years at around 14-15%.



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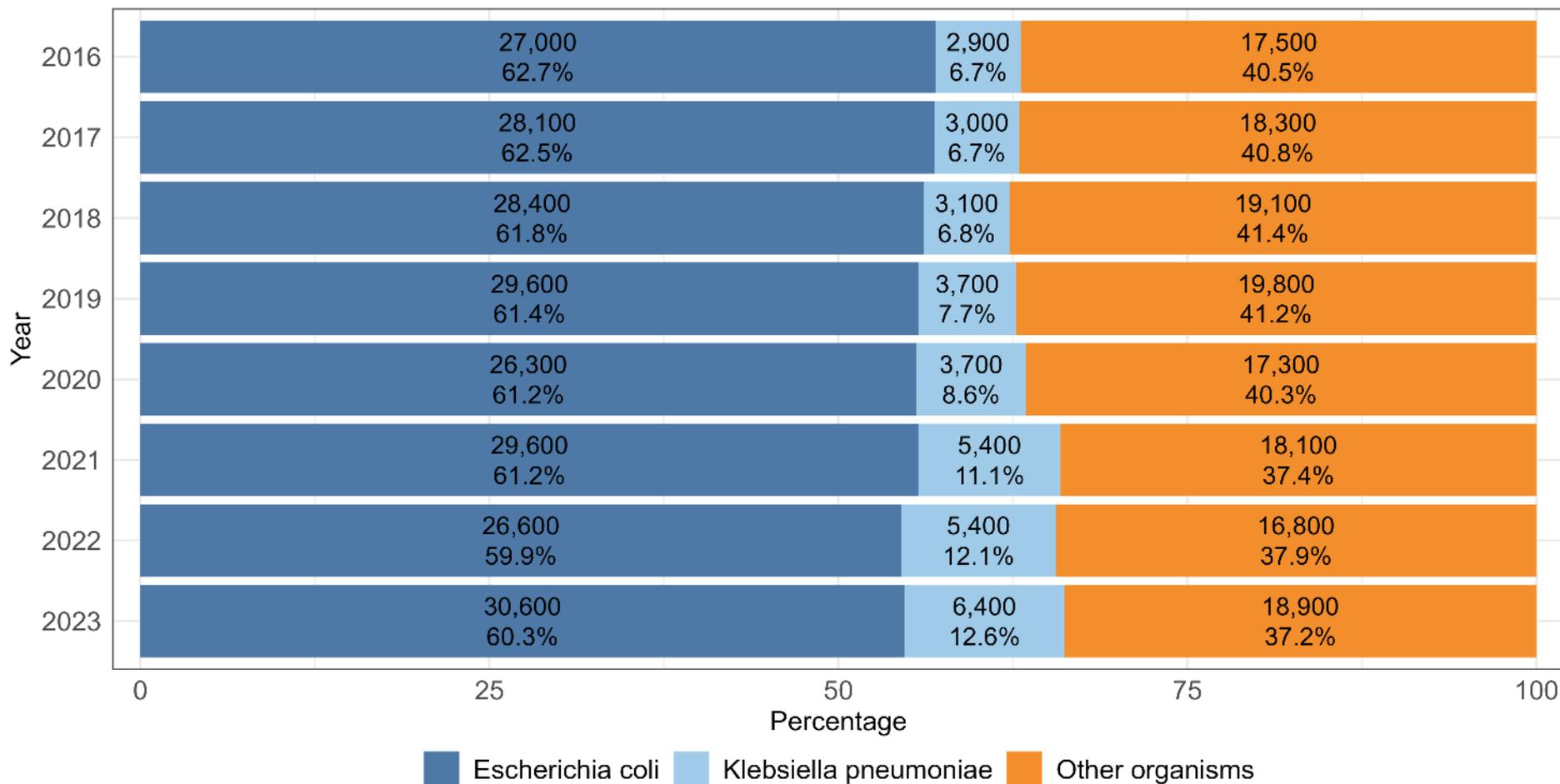
Department of Health

Results - Urine Culture

Overview on WHO priority organisms isolated from urine

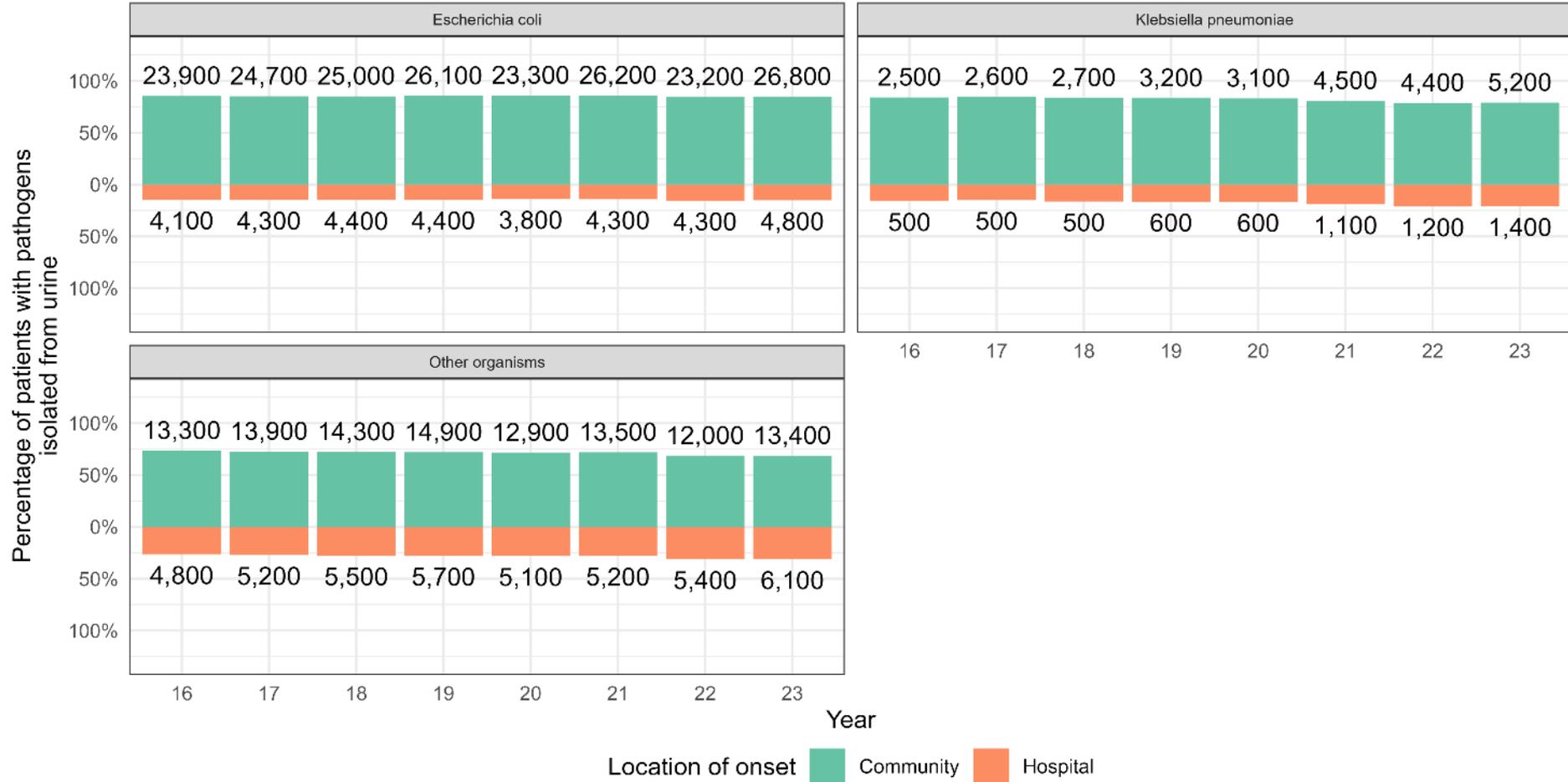


Distribution of organisms by year



- The most common WHO priority organism cultured from urine remained to be E. coli from 2016 to 2023.

Distribution of organisms by location of onset



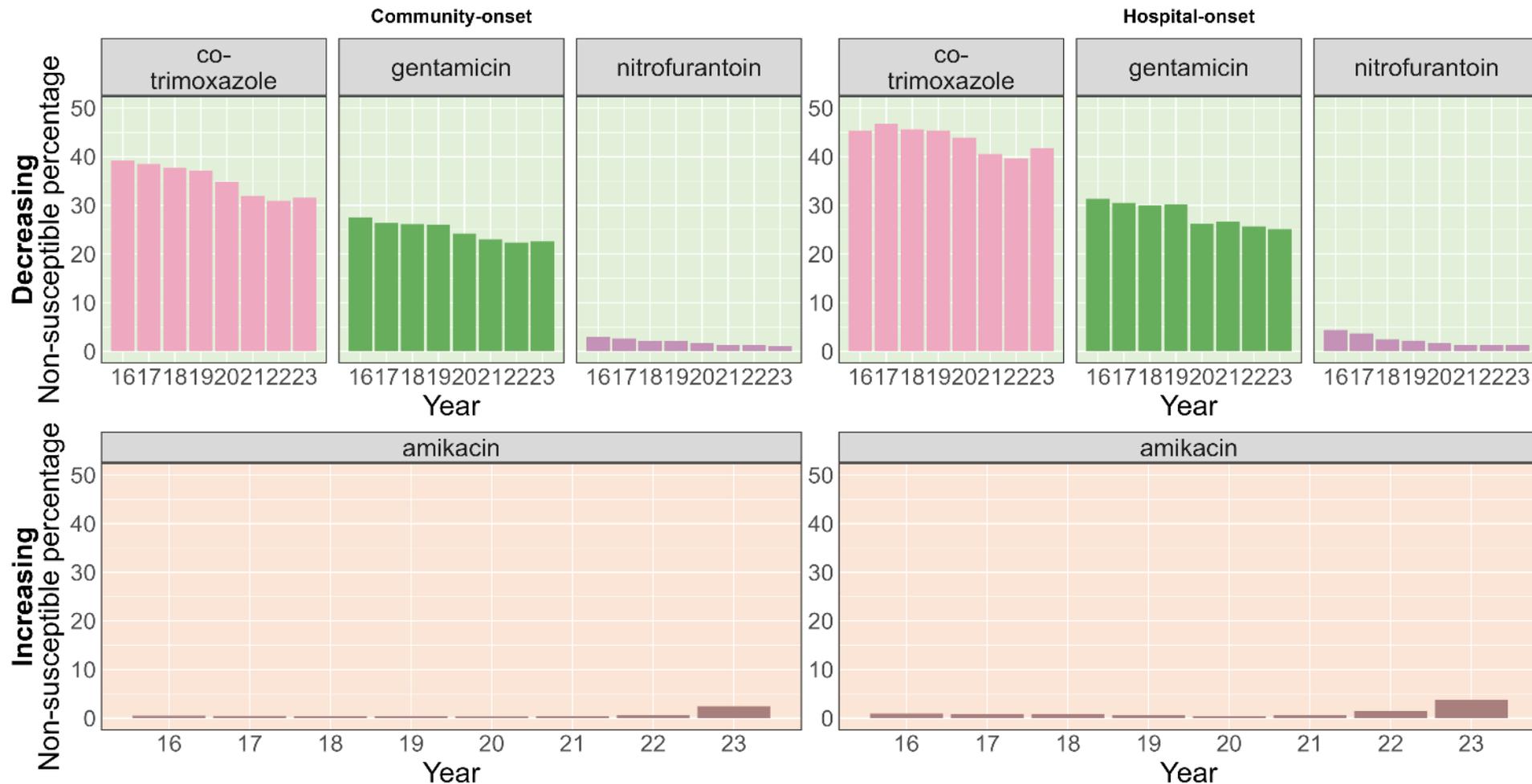
- Both *Escherichia coli* and *Klebsiella pneumoniae* were predominantly community-onset from 2016 to 2023.

Results - Urine Culture

AST results for WHO priority organisms isolated from urine



AST results with significant trend for E. coli (16 to 23)



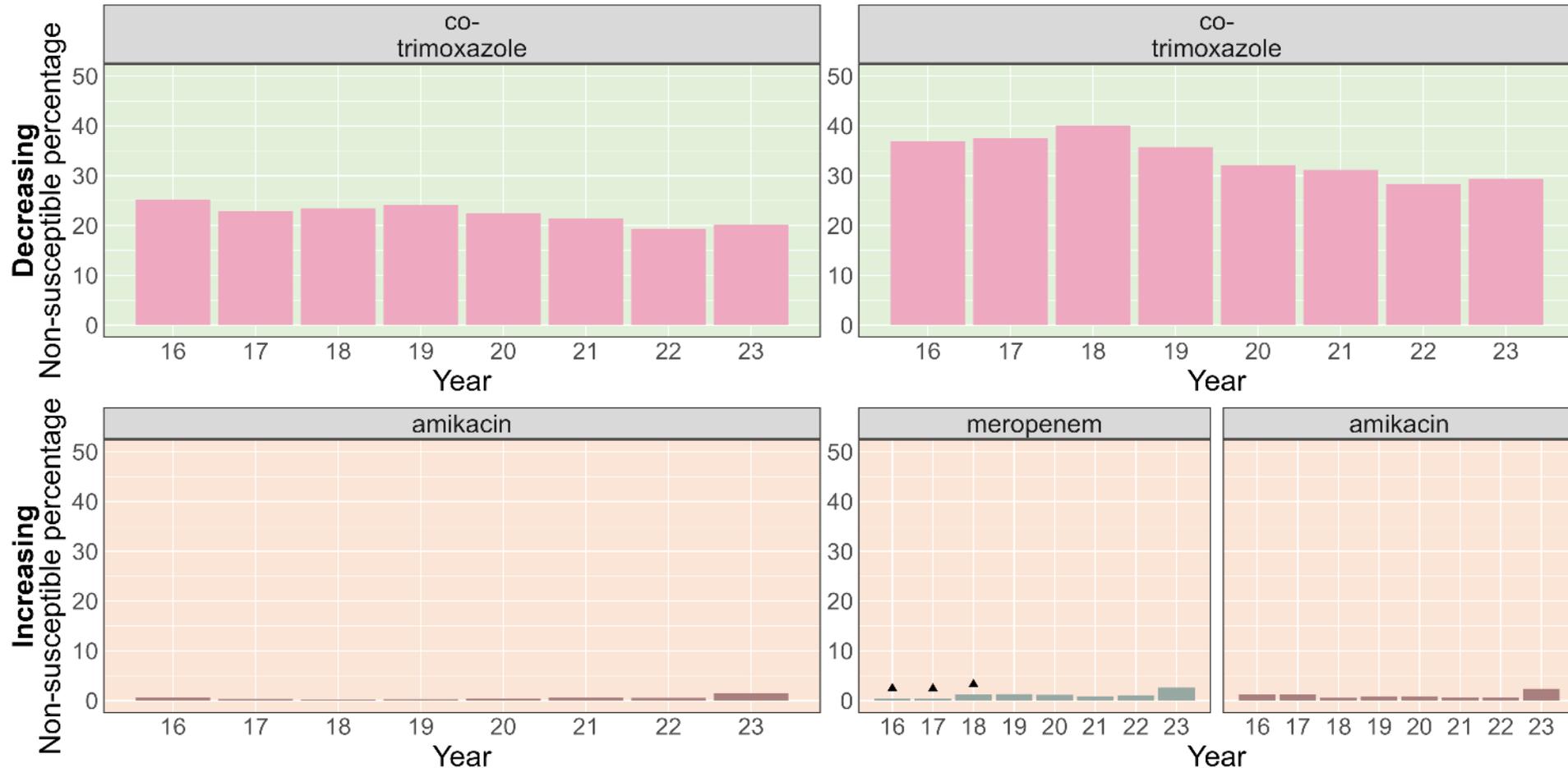
▲ <70% of isolates tested • <10 isolates tested (NS% not reported) ○ No isolates tested

- Co-trimoxazole, gentamicin, and nitrofurantoin (both community-onset and hospital-onset) show a significant decrease in non-susceptible percentage from 2016-2023.
- Amikacin (both community-onset and hospital-onset) shows a significant increase in non-susceptible percentage during 2016-2023.

AST results with significant trend for *K. pneumoniae* (16 to 23)

Community-onset

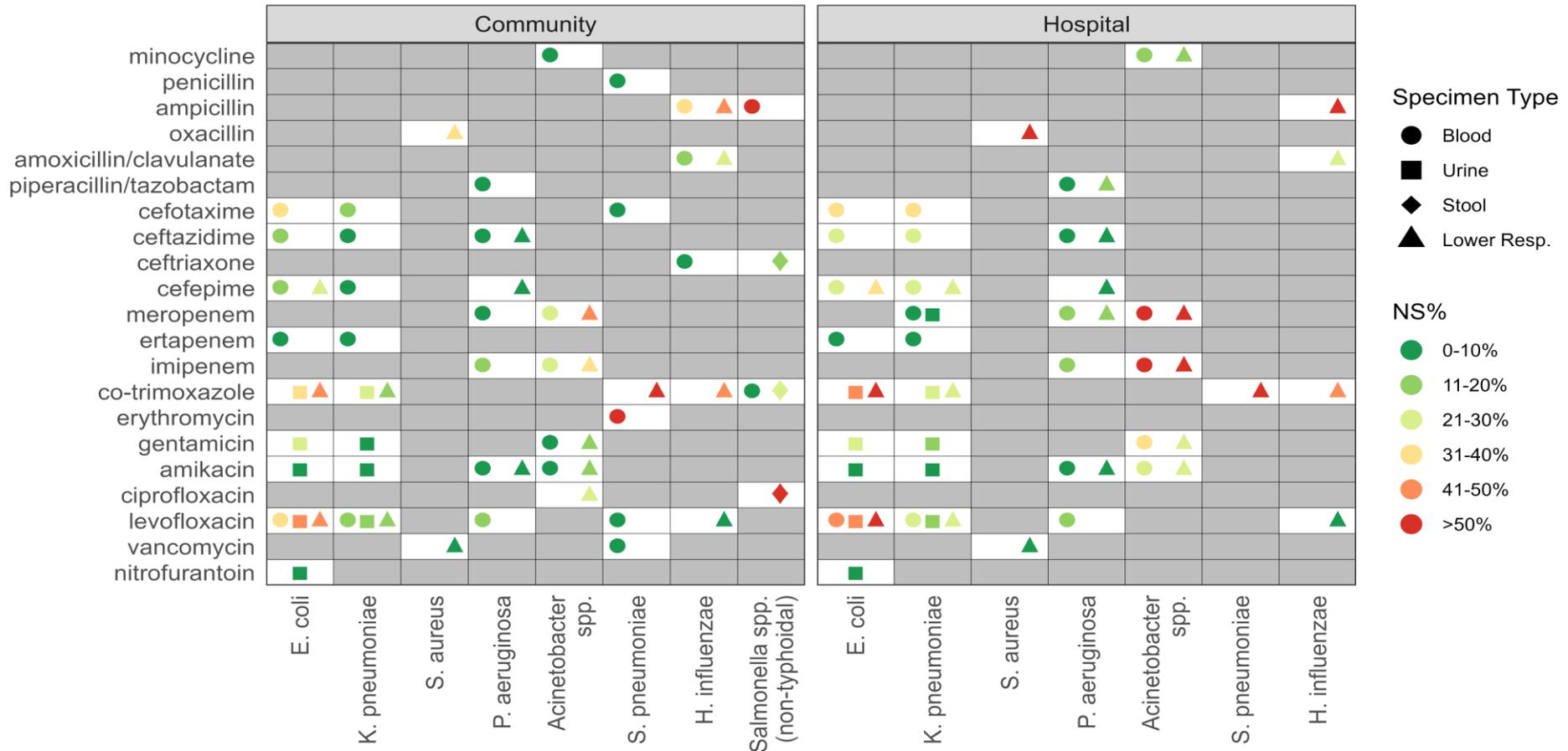
Hospital-onset



▲ <70% of isolates tested • <10 isolates tested (NS% not reported) ○ No isolates tested

- Co-trimoxazole for both community-onset and hospital-onset infections shows a significant decrease in non-susceptible percentage from 2016-2023.
- Community- and hospital-onset amikacin, and hospital-onset meropenem show a significant increase in non-susceptible percentage from 2016-2023.

Summary



Specimen Type

- Blood
- Urine
- ◆ Stool
- ▲ Lower Resp.

NS%

- 0-10%
- 11-20%
- 21-30%
- 31-40%
- 41-50%
- >50%

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.