



Sree Gokulam Medical College
and Research Foundation

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ANTIBIOGRAM - 2021

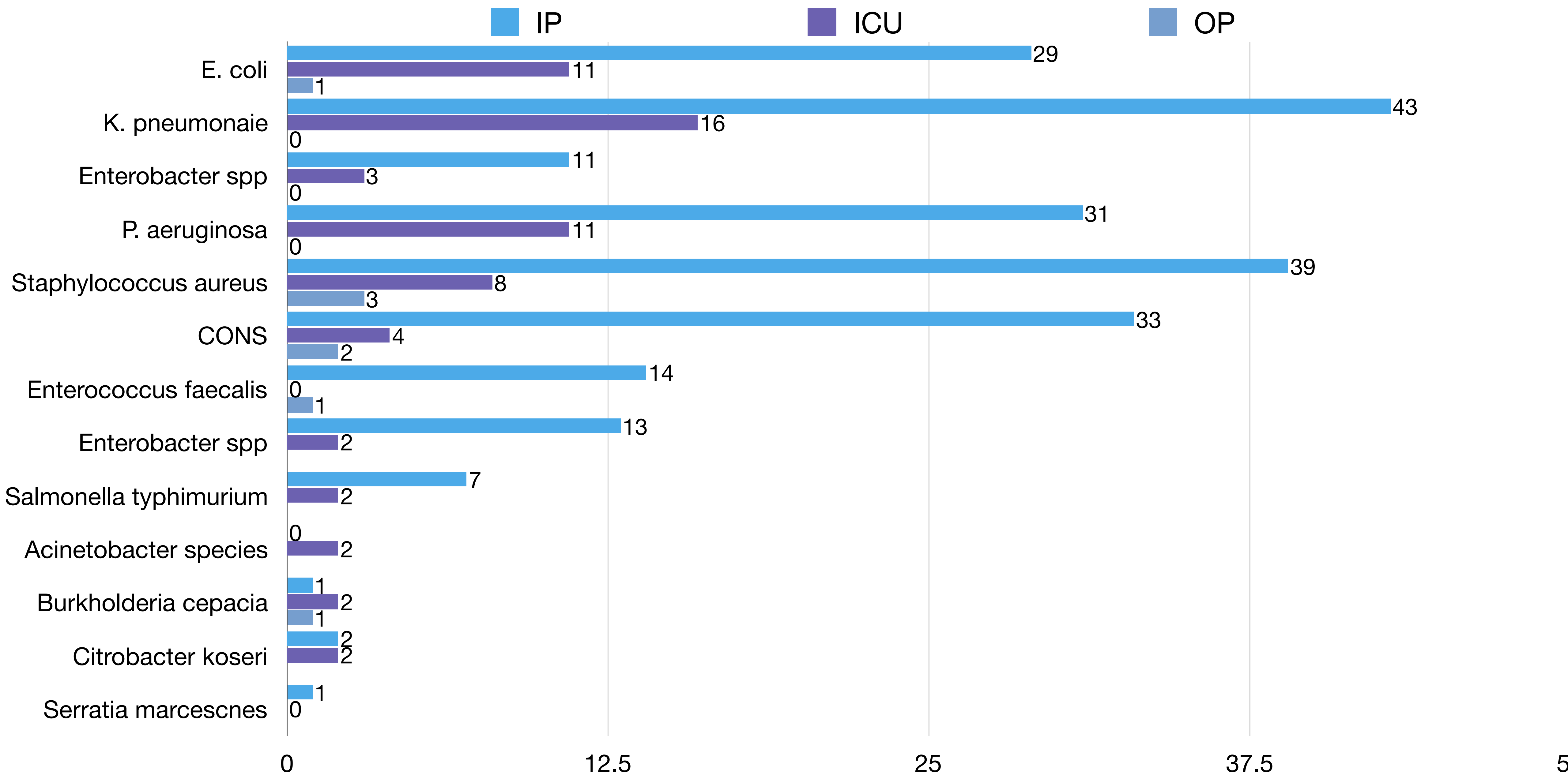
Prepared by
Department of Infection Control

- Antibiogram is based on isolates from our lab.
- Not considered colonisations and excluded screening swabs
- Used only 1st isolate per time frame.
- Antibiograms composed only for organisms with more than 30 isolates
- Antibiotics being used in panels are as per CLSI (Clinical Laboratory Standard Institute) 2021
- Used EUCAST guidelines also when ever required
- All antibiotic nos are in terms of sensitivity

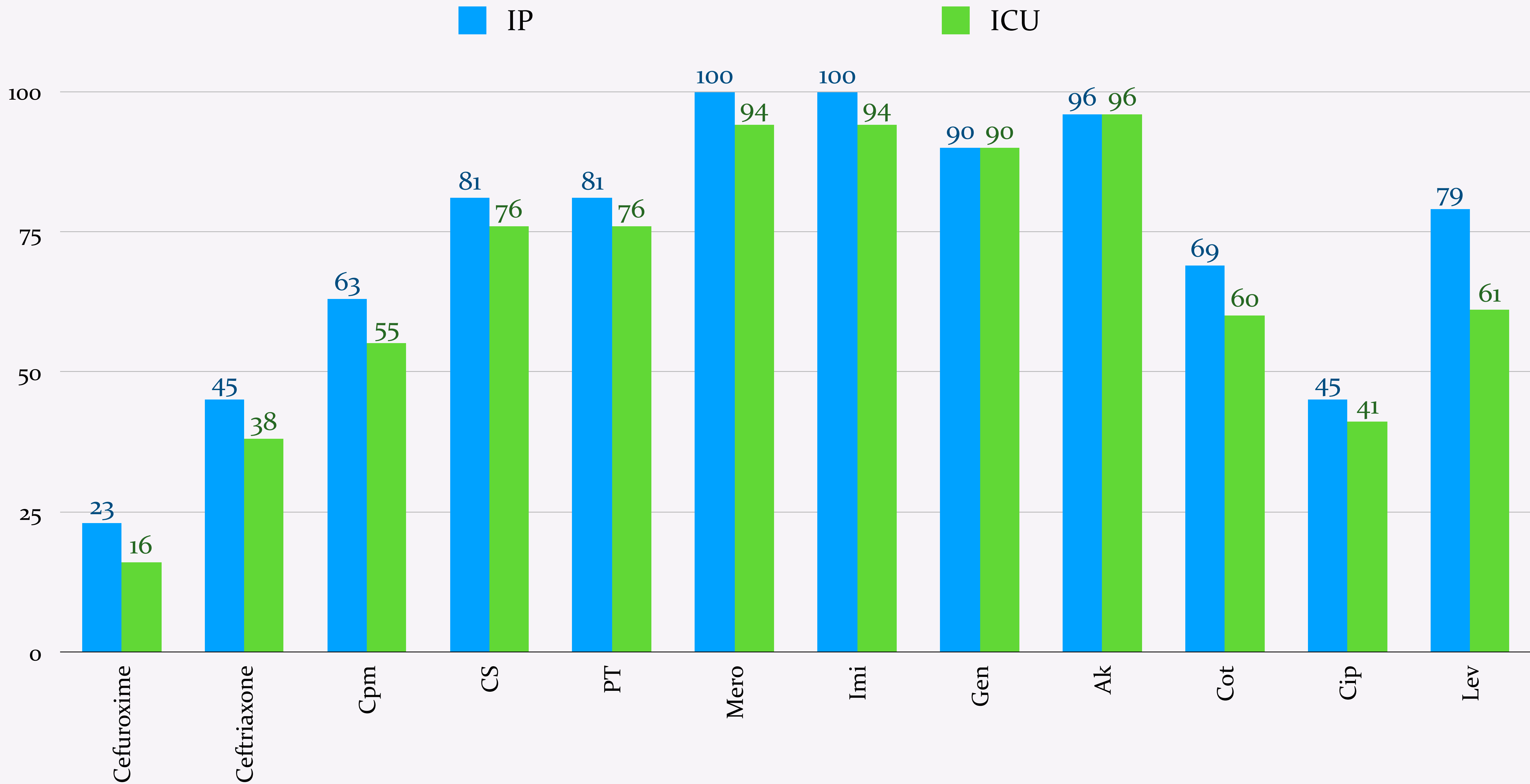
SUB CATEGORIES OF SAMPLES

- Blood-
 - IP- 287
 - ICU-68
 - Mixture of Gram Negative and Gram positives
- Sputum and throat swab
 - IP-67
 - ICU-19
 - Lower nos of sputum samples, most probably as a result of Covid
- Urine
 - IP- 308
 - ICU-71
 - OP- 332
- Pus and other fluids
 - IP- 306
 - OP: 112
 - ICU- 25

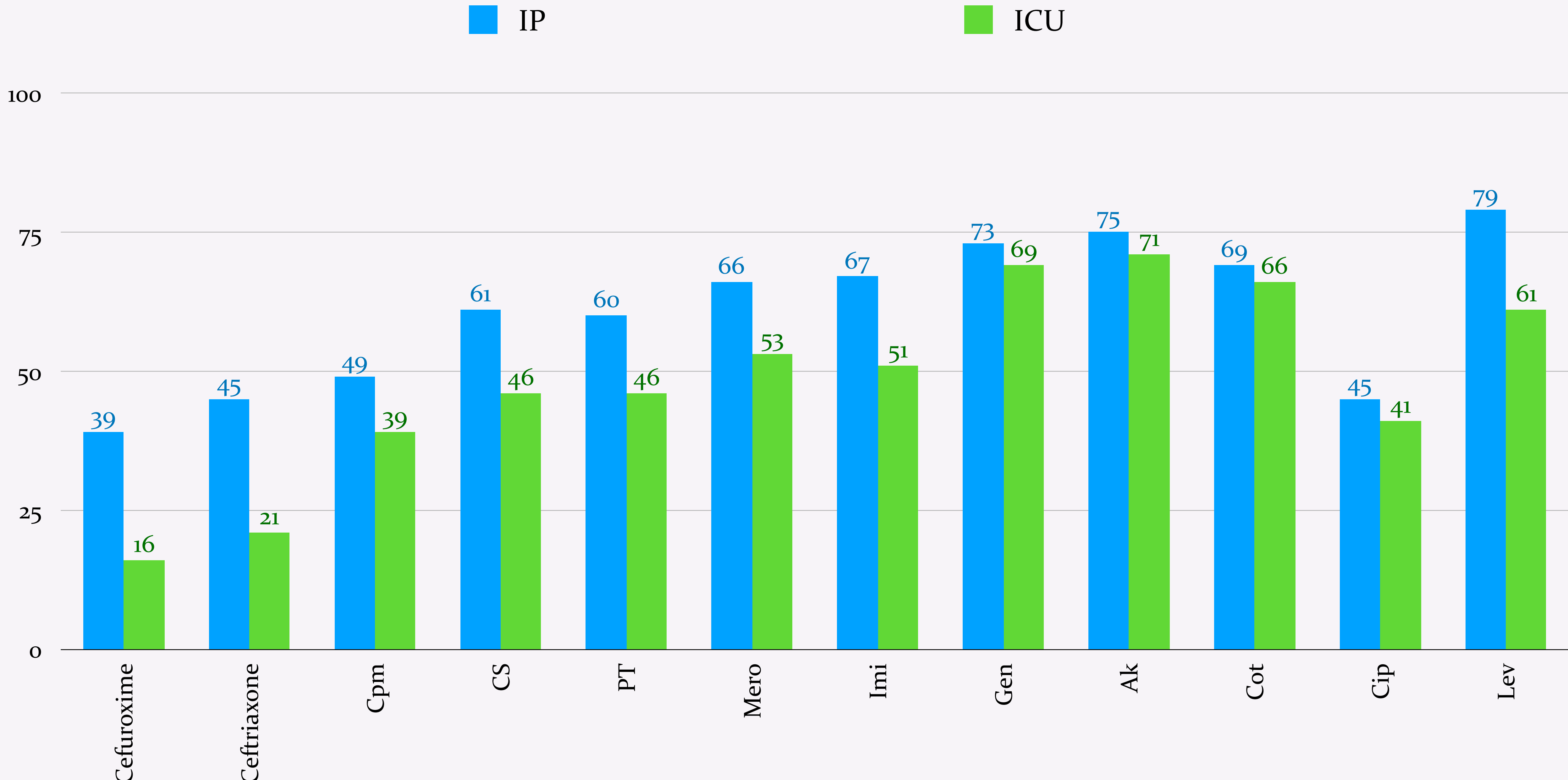
Top Isolates in Blood - 2021



% susceptibility of E. Coli in Blood



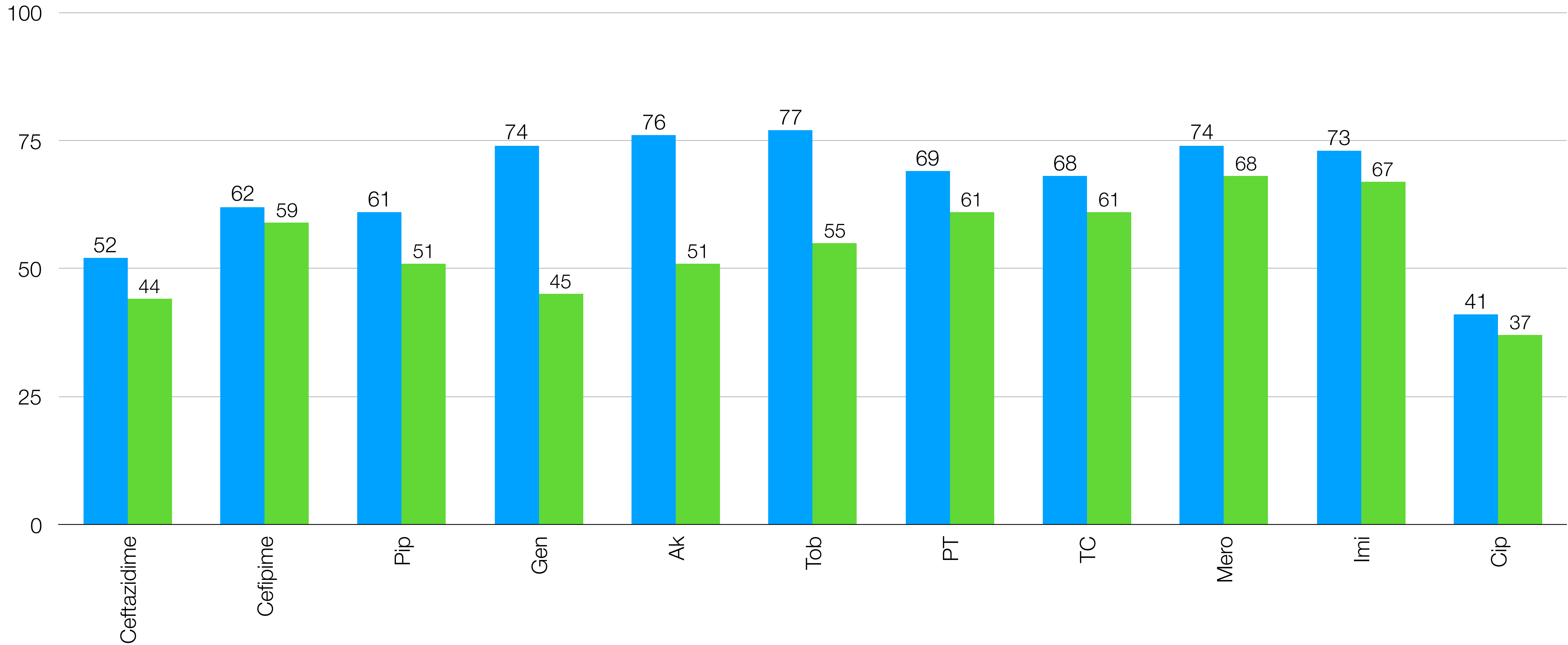
% susceptibility of *Klebsiella pneumoniae* in Blood



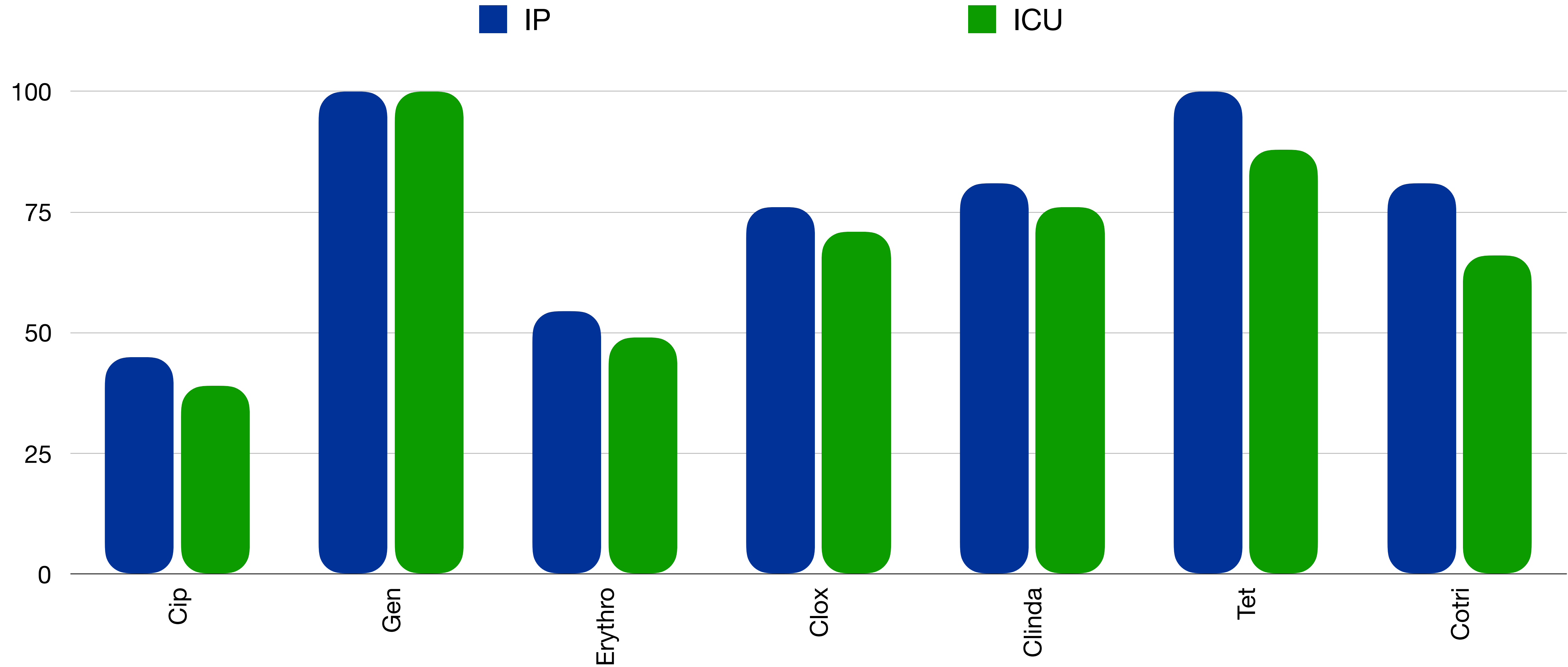
% susceptibility of Pseudomonas aeruginosa in Blood

IP

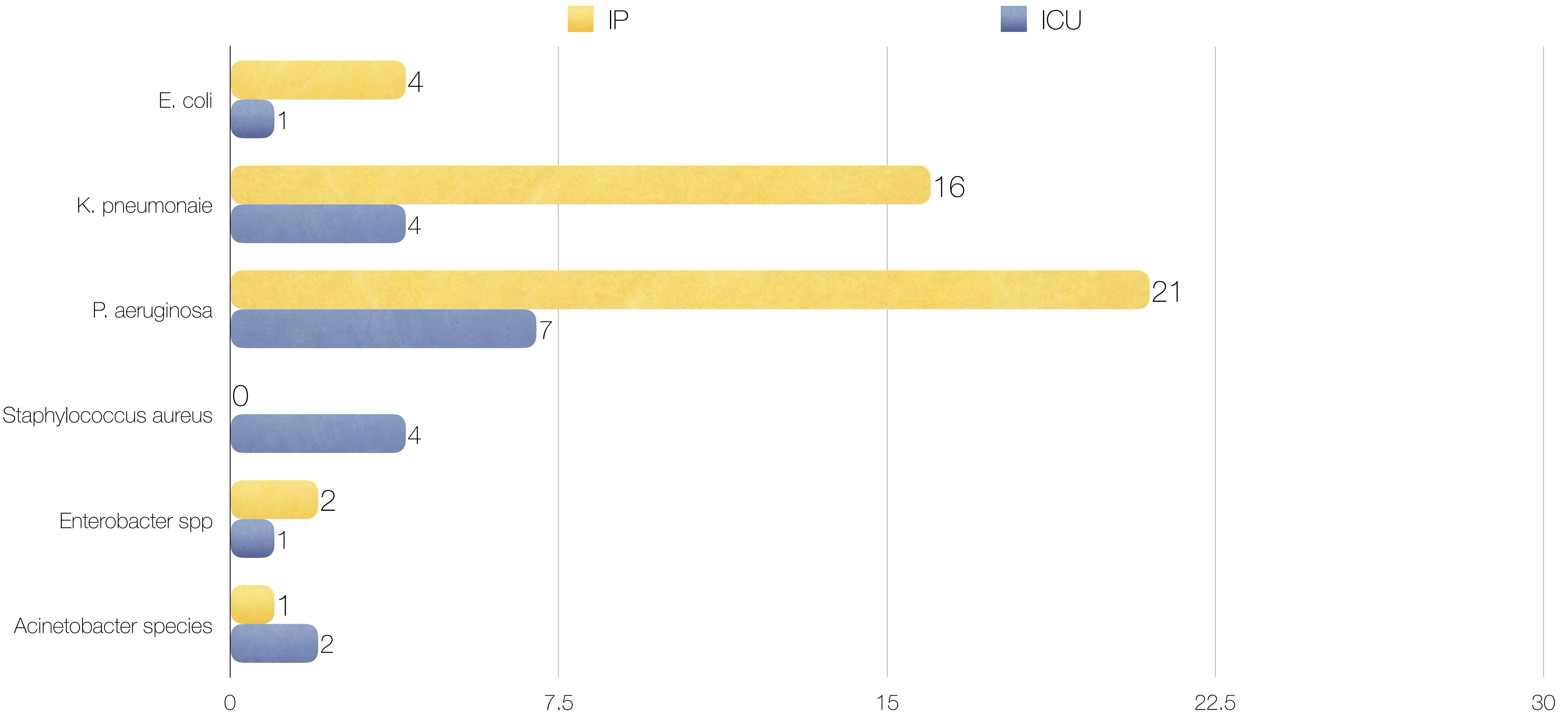
ICU



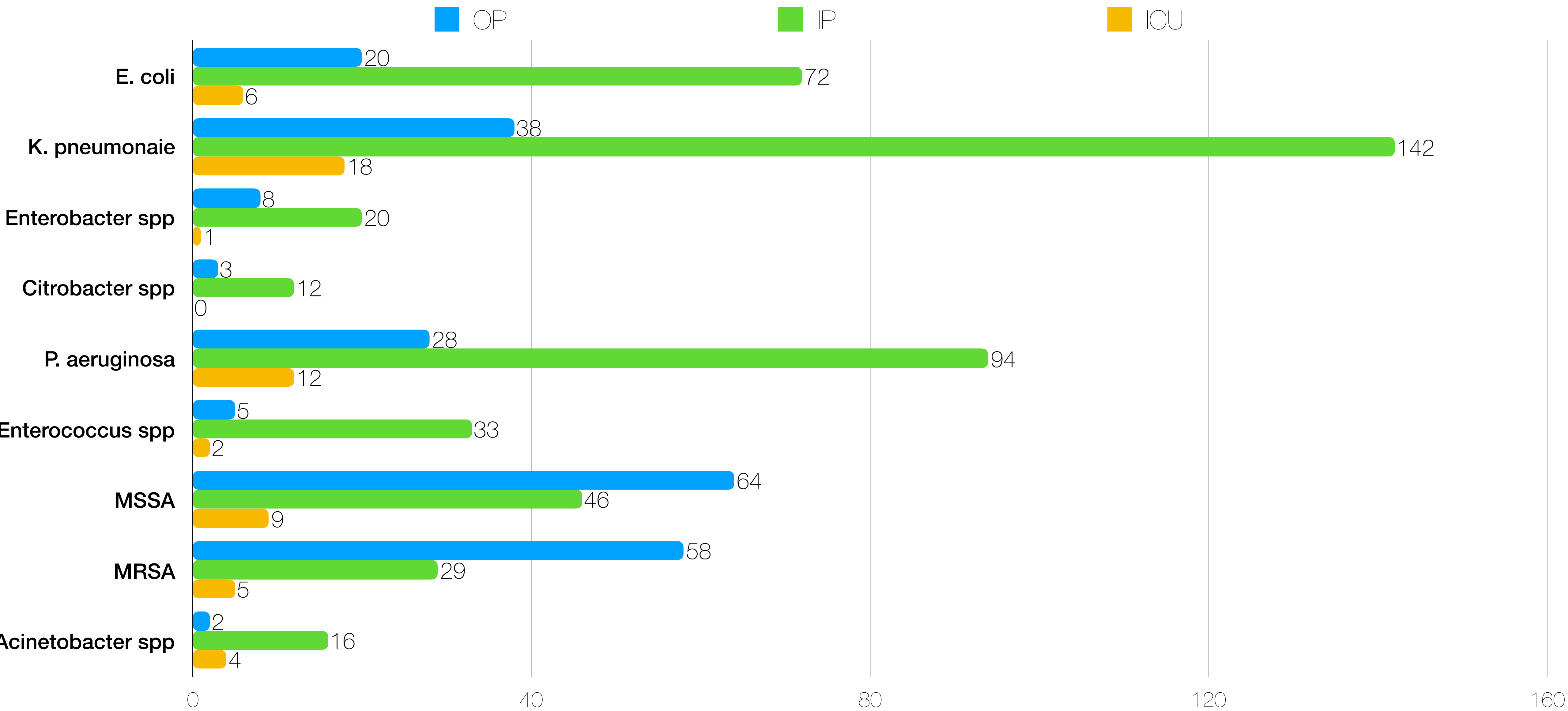
% susceptibility of MSSA in Blood



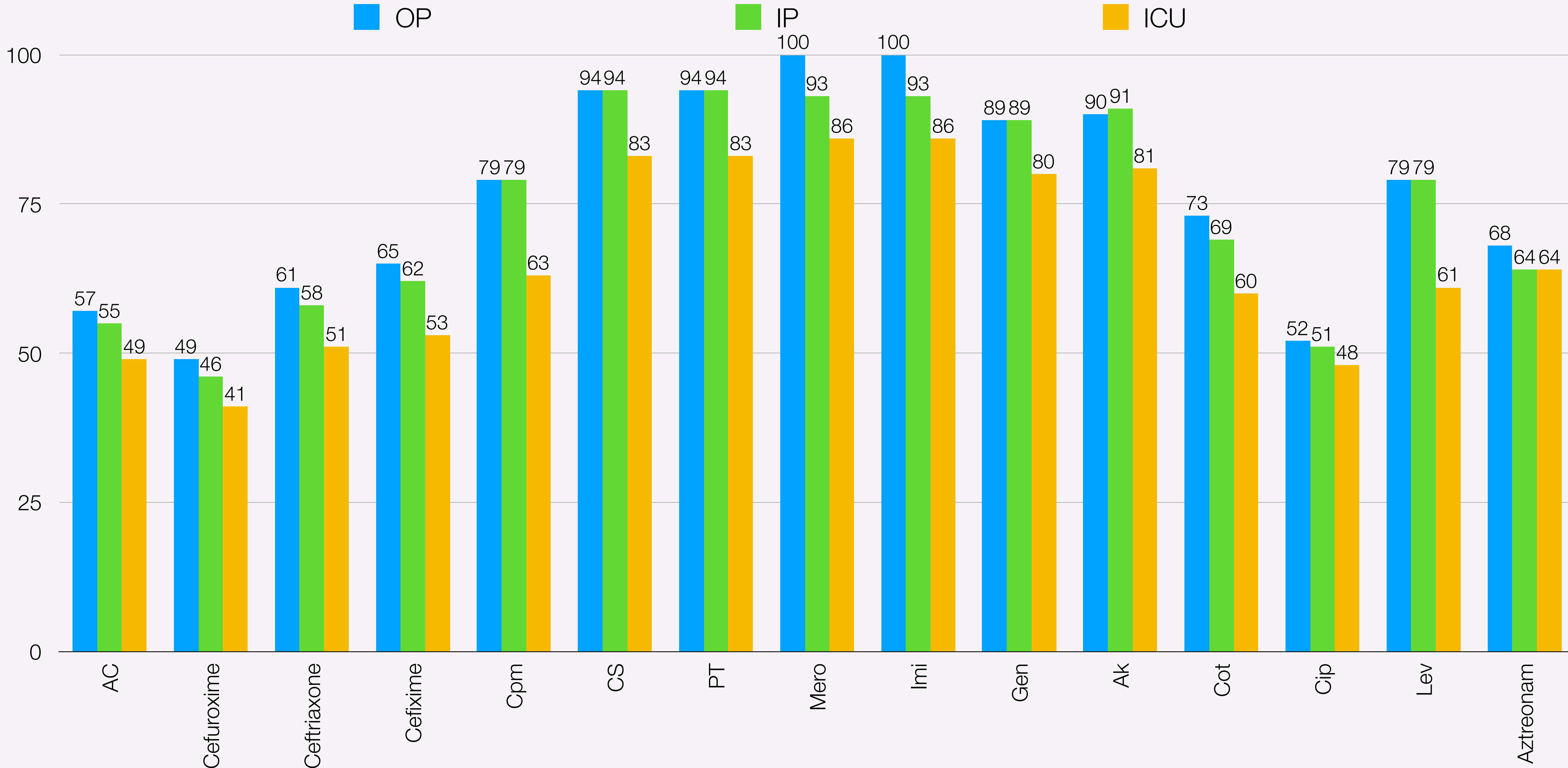
Top Isolates in Respiratory Specimens - 2021



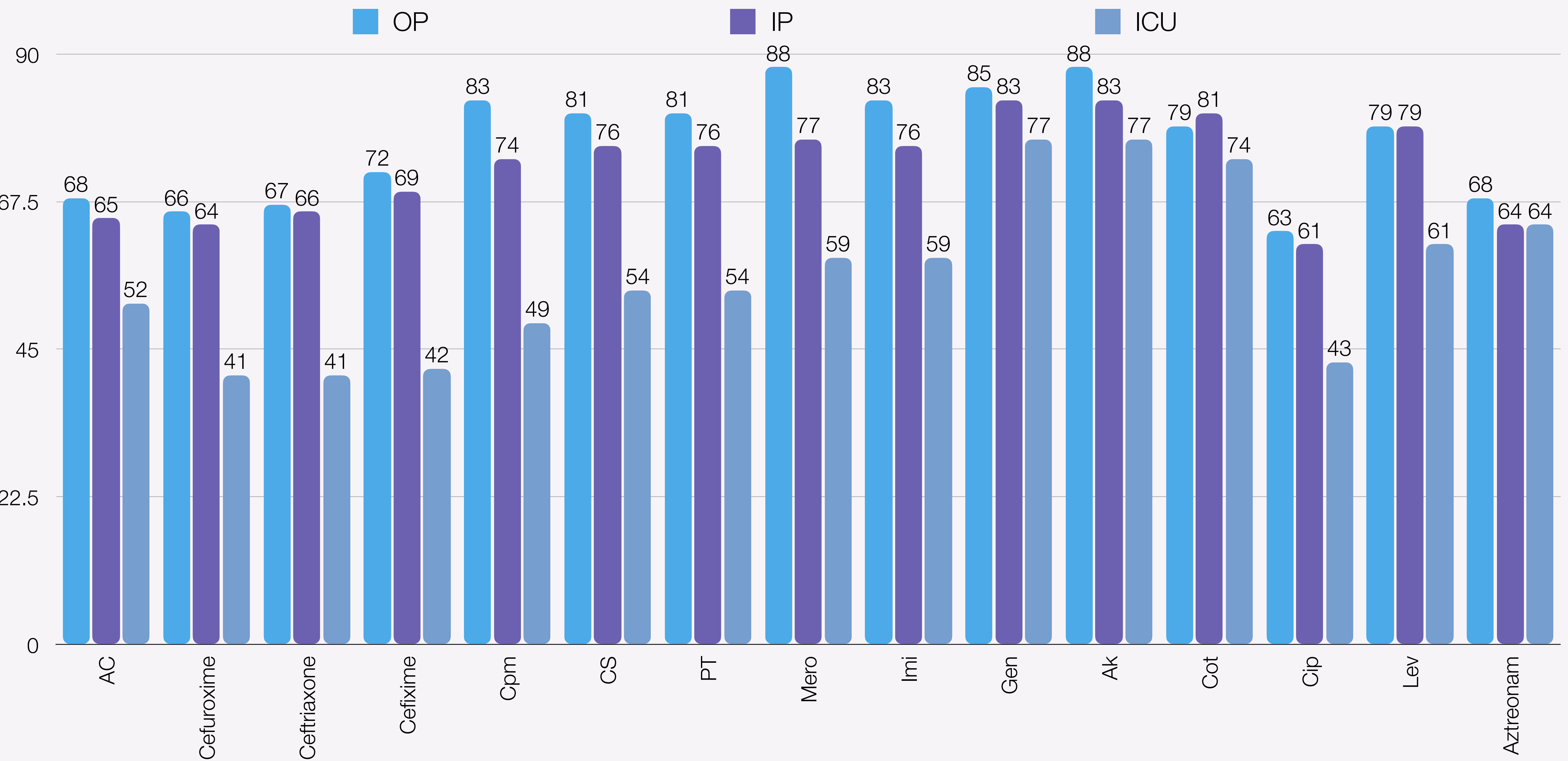
Top Isolates in Pus/Tissue - 2021



% susceptibility of E. Coli in Pus/Tissue

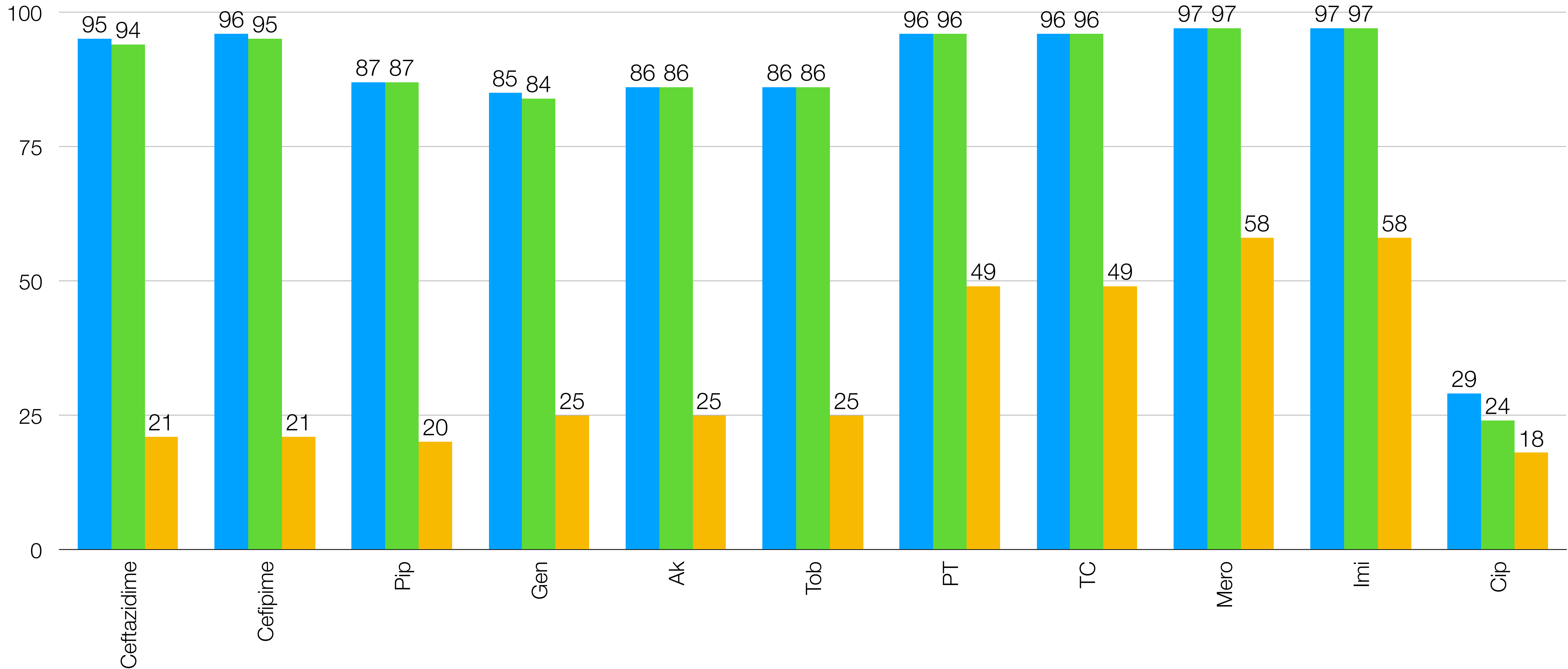


% susceptibility of Klebsiella pneumonia in Pus/Tissue



% susceptibility of Pseudomonas aeruginosa in Pus/Tissue

OP IP ICU



% susceptibility of MSSA in Pus/Tissue

OP

IP

ICU

100

75

50

25

0

Cip

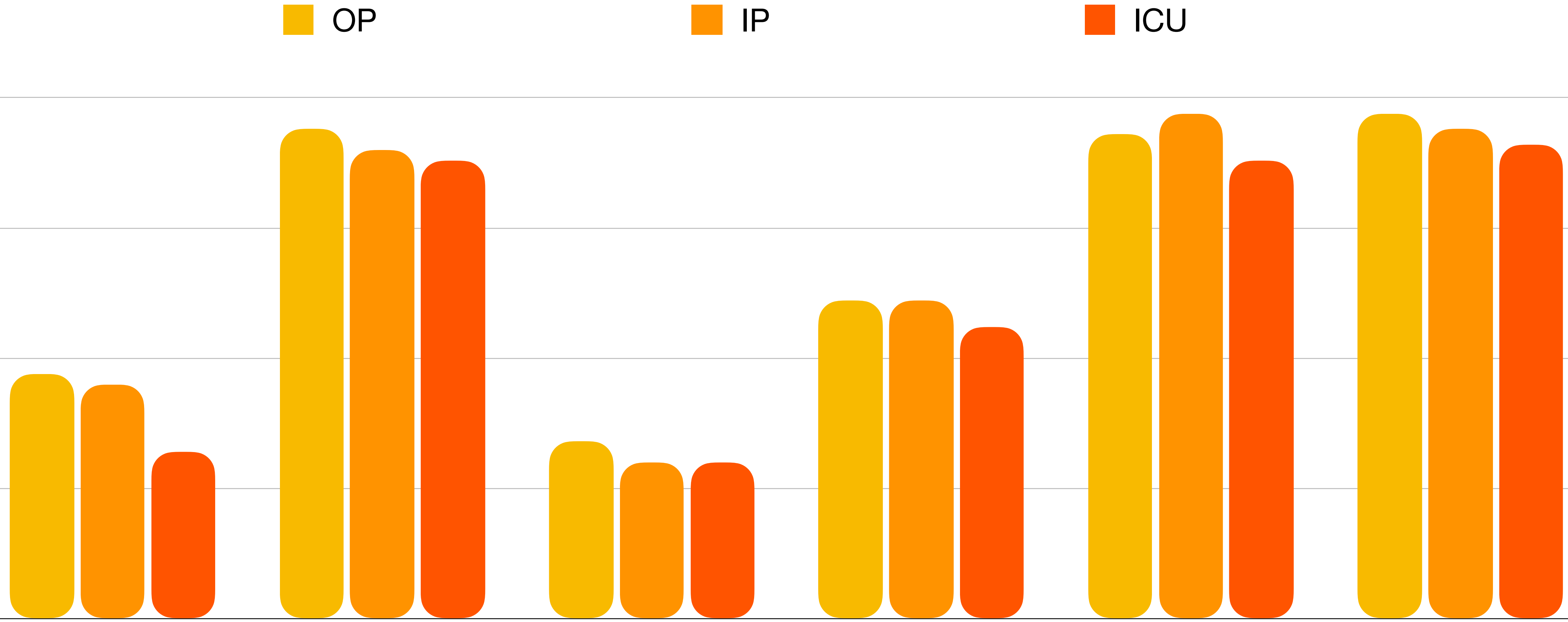
Gen

Erythro

Clinda

Tet

Cotri

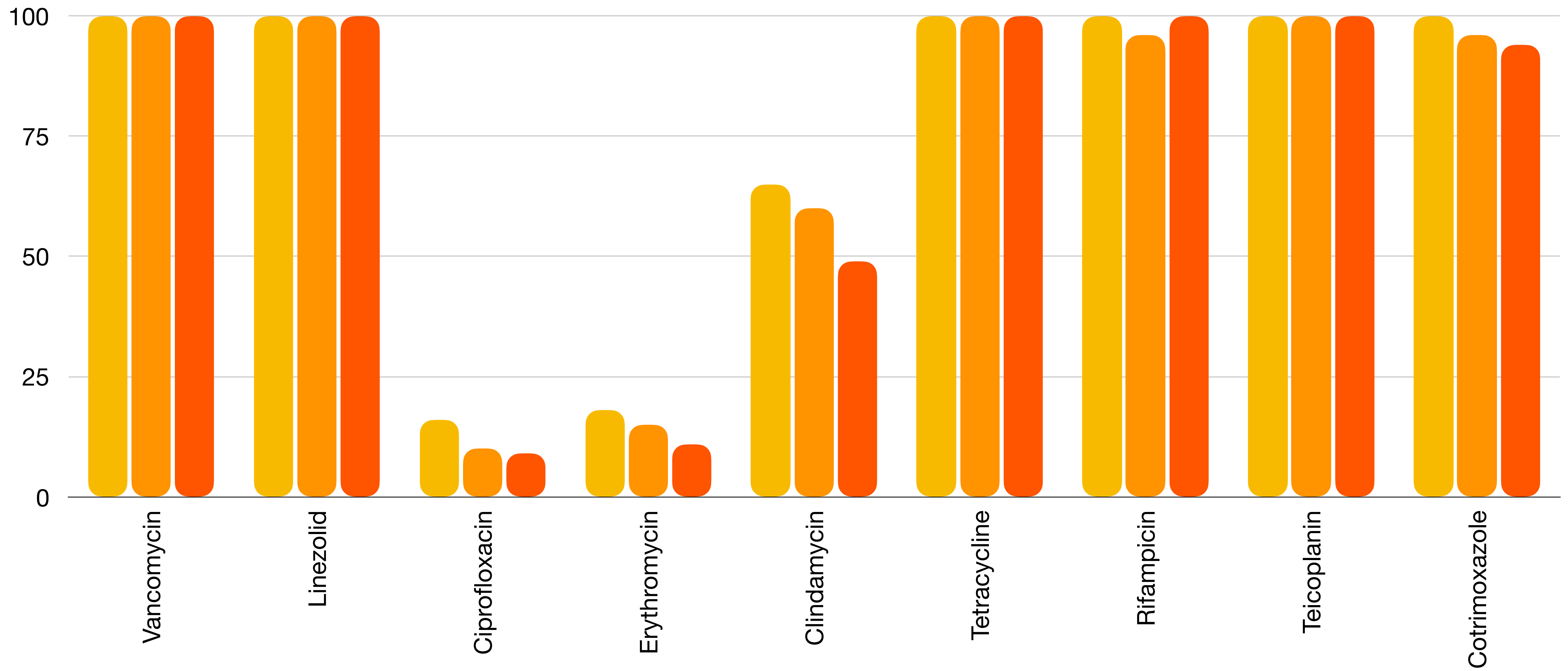


% susceptibility of MRSA in Pus/Tissue

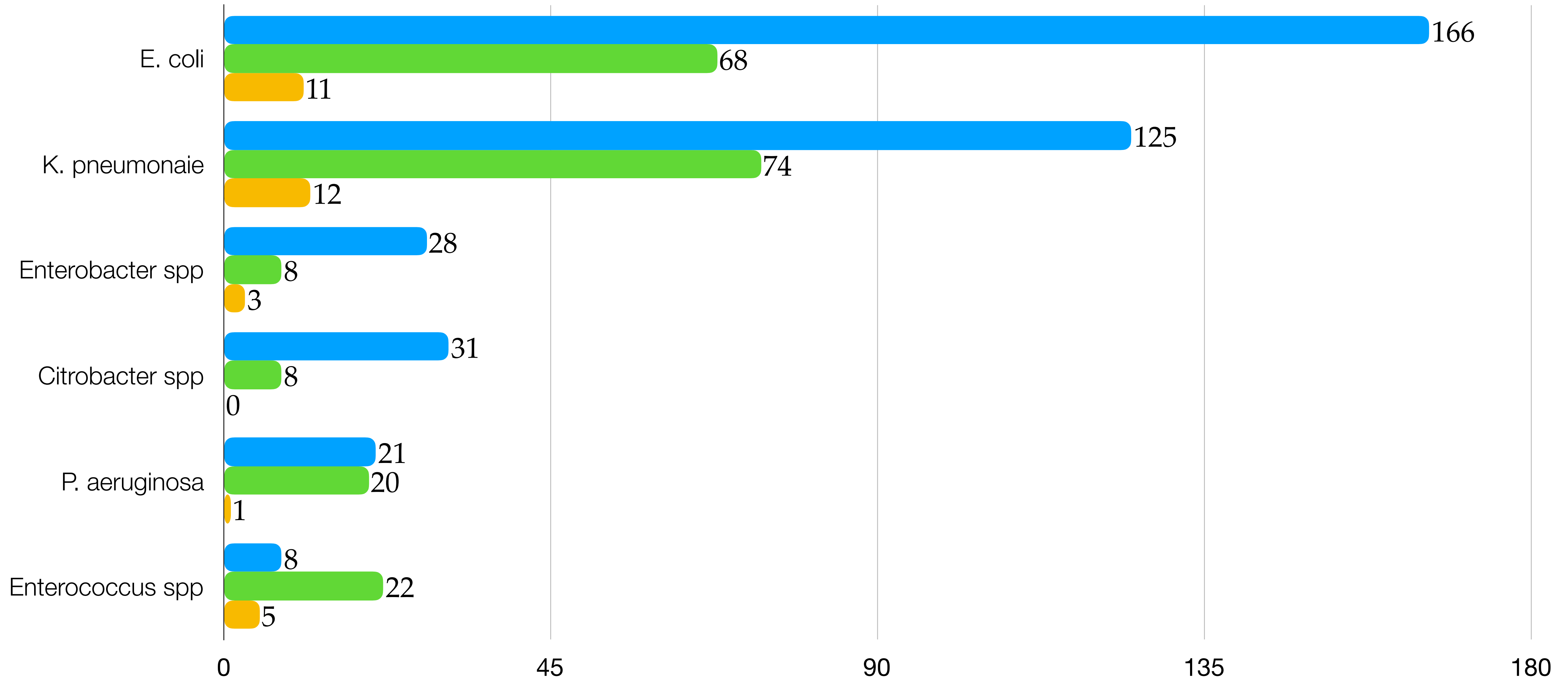
OP

IP

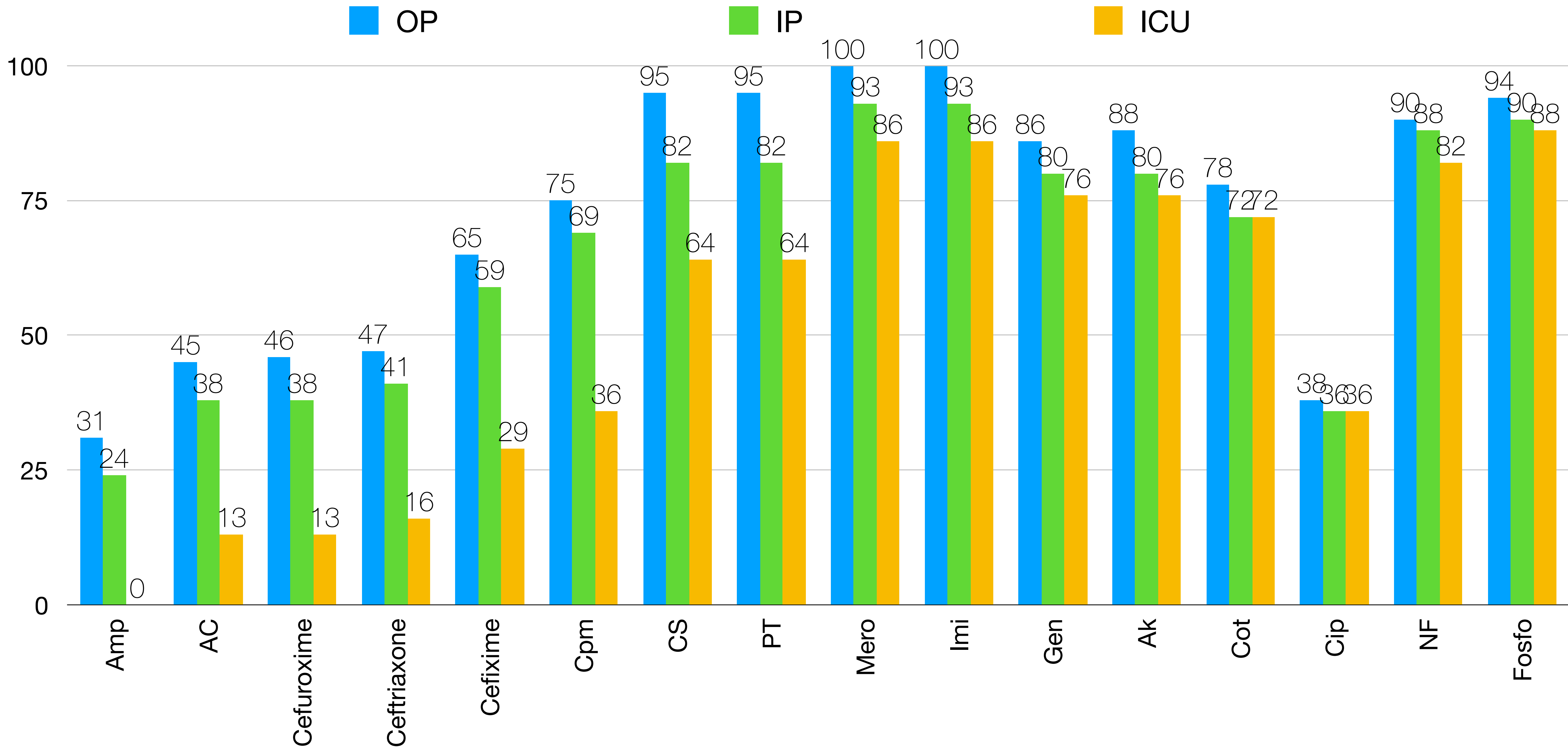
ICU



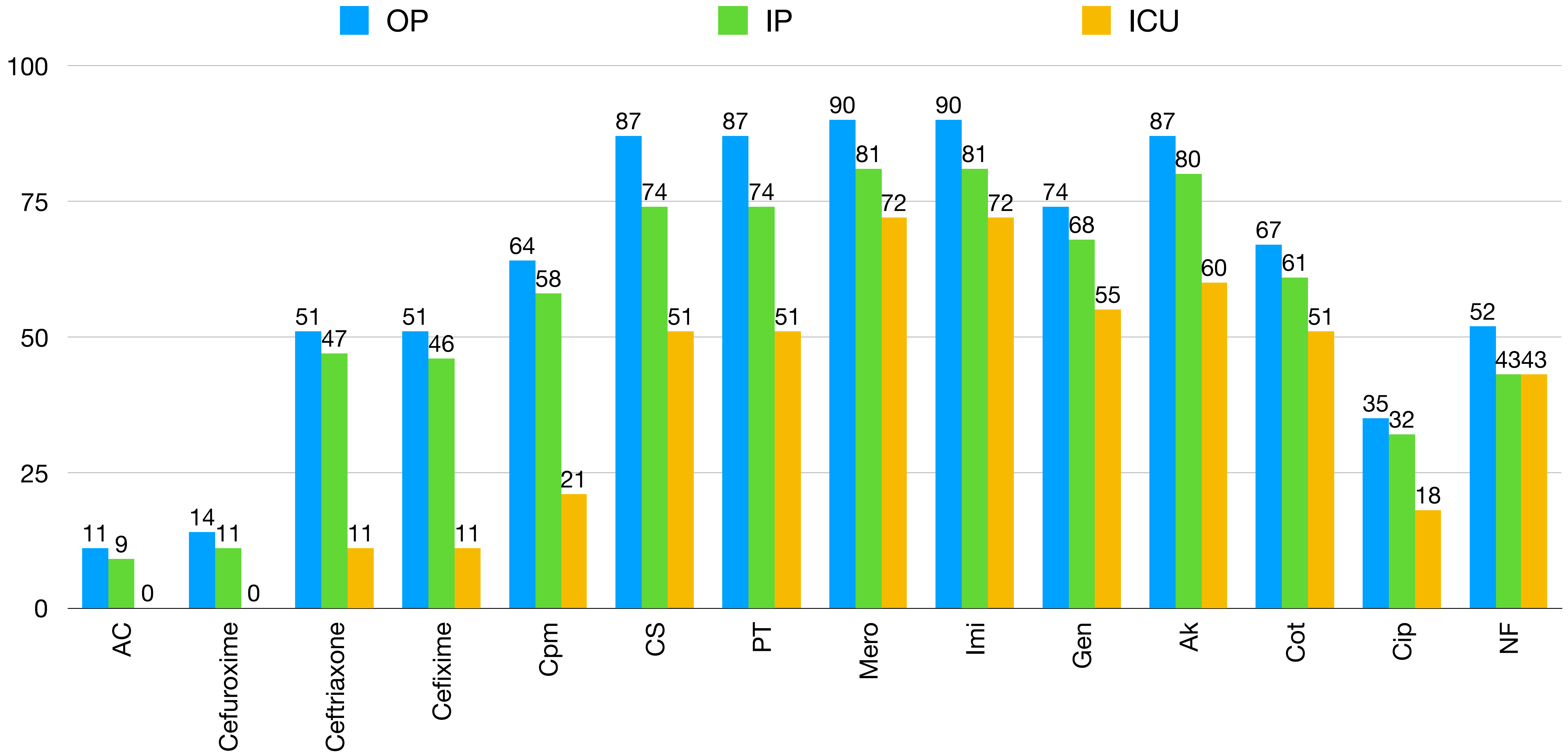
Top Isolates in Urine - 2021



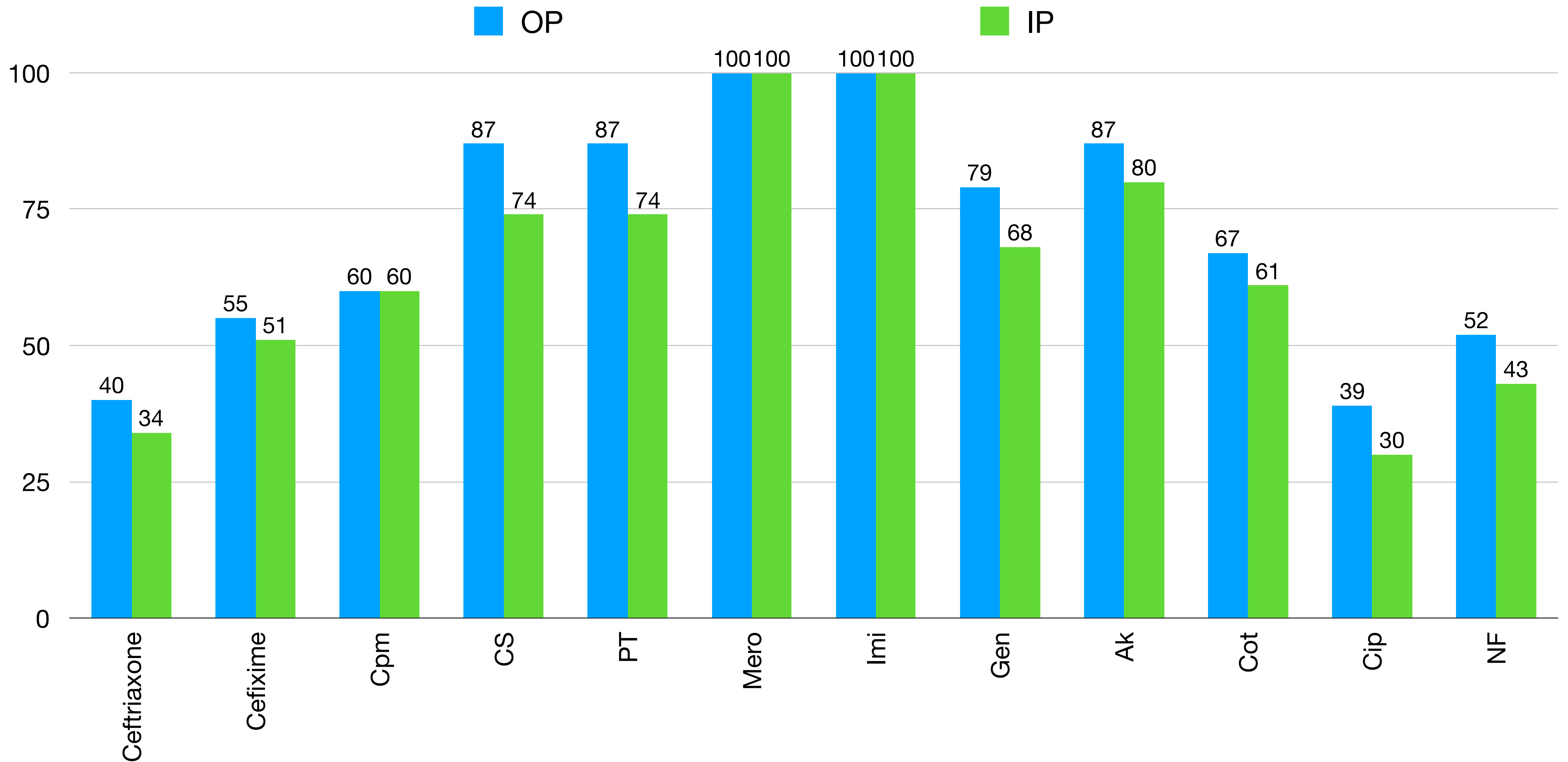
% susceptibility of E. Coli in Urine



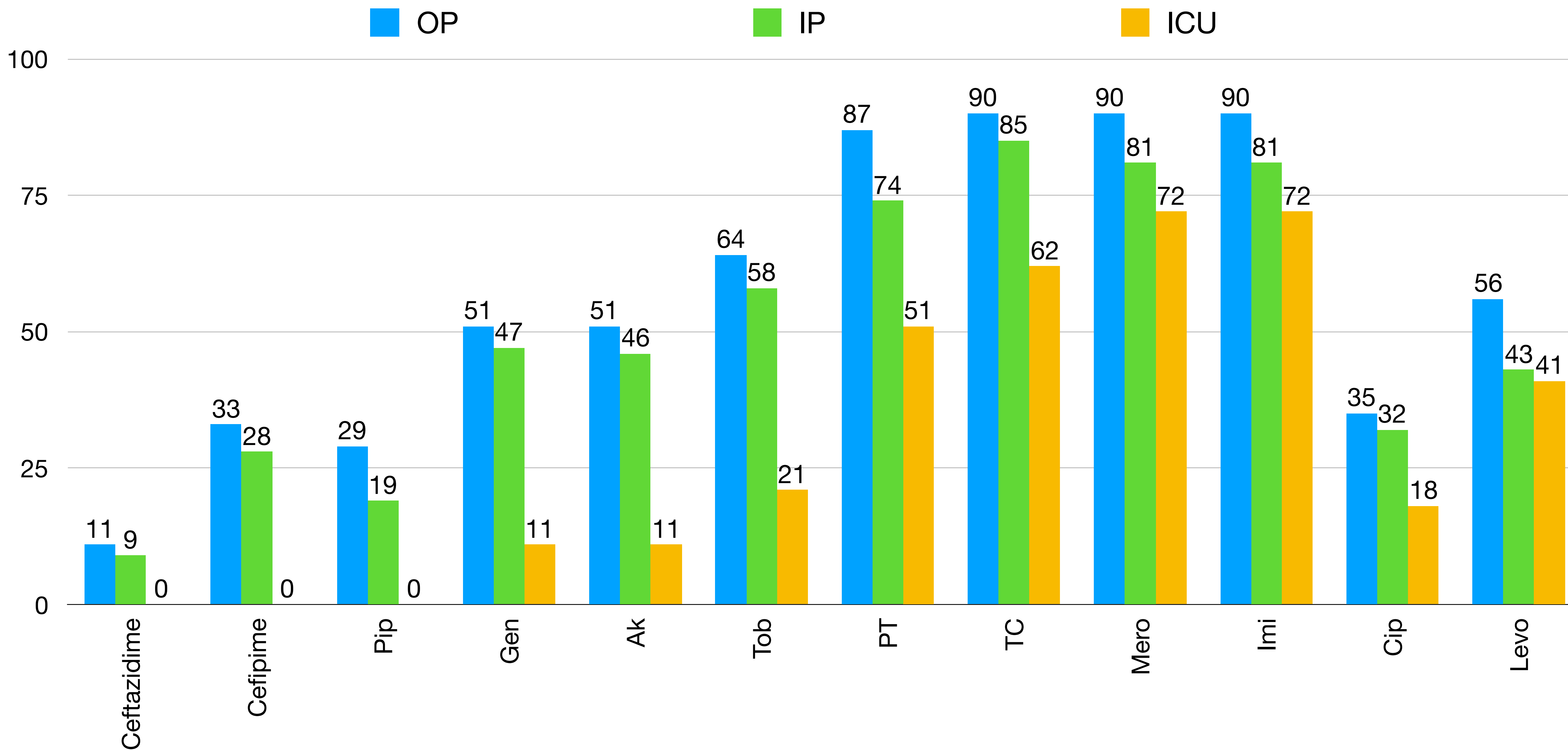
% susceptibility of Klebsiella pneumoniae in Urine



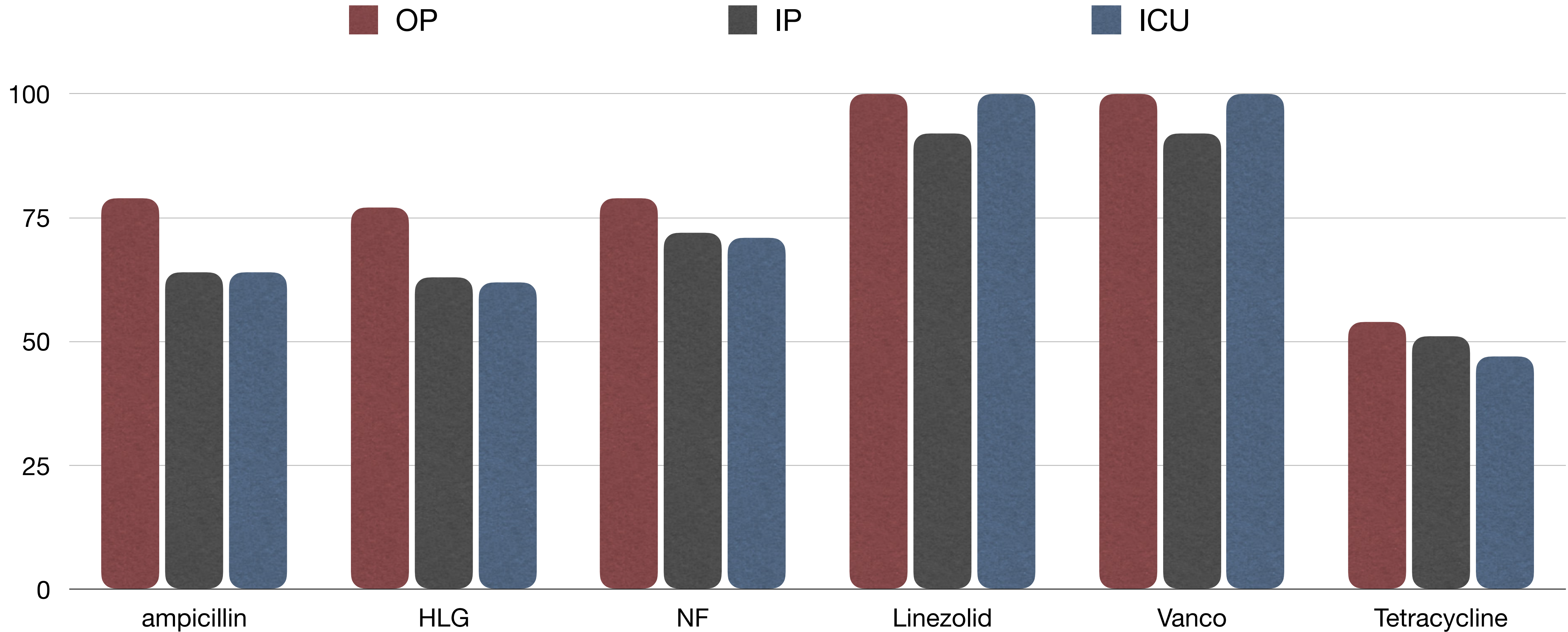
% susceptibility of Enterobacter spp in Urine



% susceptibility of *Pseudomonas aeruginosa* in Urine



% susceptibility of Enterococci in Urine

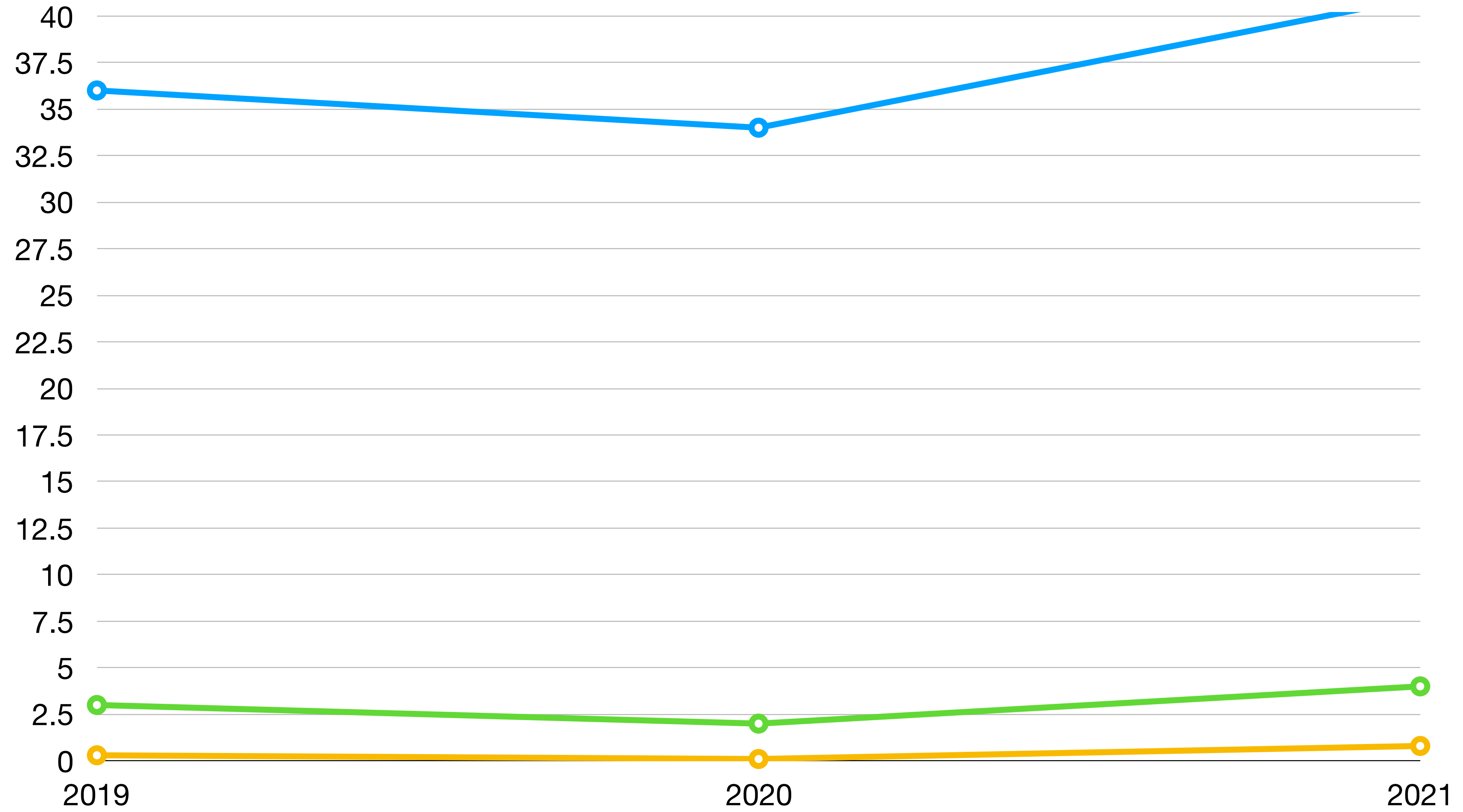


Parameter	2021	2020	India
VRE	5.6%	2%	1- 8.7%
MRSA	38%	12%	40.4%
ESBL	26%	21%	30%

MDR

XDR

PDR



TAKE HOME MESSAGES

- MDR Klebsiella rates are on an upward slope
- CONS isolated from blood- Significant, needs further follow up
- XDR, PDR GNBS
- Fluoroquinolones resistance increasing at an alarming rate
- VRE isolates increased exponentially
- MRSA rates- constantly rising. No VRSA, VISA- vigilance
- Pseudomonas aeruginosa- Highly resistant in complicated cases- especially carbapenems
- Relatively low rates of significant Acinetobacter species infection



thank
you