

# Antibiogram - 2024

## Chatham-Kent Health Alliance

### Interpretation Guide

- The antibiogram is an annual cumulative report of the antimicrobial susceptibility rates of common pathogens recovered from patients receiving care at Chatham-Kent Health Alliance facilities and is to be used as a resource to inform empirical antimicrobial therapy.
- Susceptibility rates are calculated from the compilation of susceptibility results from all 'first' clinical isolates of a specific pathogen recovered from an individual patient per 30-day period. The rationale for this referral period is based on the need to represent 'wild-type' susceptibility profiles and avoid over-representing antimicrobial resistance that may develop de novo during a patient's prolonged hospital stay.
- Susceptibility rates for pathogens or clinical scenarios represented by less than 30 isolates are not calculated due to their limited statistical significance and interpretive value.
- The appropriateness of empiric therapy is highlighted using a colour range that corresponds to susceptibility rates. Green, 80-100%; Yellow, 70-79%; Red, <70%.

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<https://www.lhsc.on.ca/pathology-and-laboratory-medicine/microbiology>

Organism	Number of Isolates	Ampicillin	Amoxicillin-Clavulanate	Piperacillin-Tazobactam	Cloxacillin	Cephalexin (urinary tract)	Cefazolin	Ceftriaxone	Ceftazidime	Imipenem	Meropenem	Ciprofloxacin	Clindamycin	Doxycycline	Gentamicin	Tobramycin	TMP-SMX	Vancomycin
<i>Escherichia coli</i>	1010	61	81			86	74	89		100		79			93	92	83	
<i>Klebsiella pneumoniae</i> complex	248		90			91	85	92		97		89			96	96	90	
<i>Proteus mirabilis</i>	84	86	95					98			100	86			80	82	89	
<i>Enterobacter cloacae</i> complex	58									98		95			100	98	97	
<i>Klebsiella oxytoca</i>	40		88					90		100		95			100	95	95	
<i>Pseudomonas aeruginosa</i>	112			82					82	64	80	80						
<i>Staphylococcus aureus</i> (incl. MRSA)	389				75								81	100			100	100
MRSA	98				0								90	100			100	99