

Antibiogram - 2024

Middlesex 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 Middlesex 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>	477	68	86			89	78	92		100		81			93	93	84	
<i>Klebsiella pneumoniae</i> complex	120		92			93	88	92		100		88			99	96	88	
<i>Proteus mirabilis</i>	32	91	97					97			100	88			71	76	91	
<i>Pseudomonas aeruginosa</i>	48			92					83	81	90	90						
<i>Staphylococcus aureus</i> (incl. MRSA)	119				72								89	100			100	100