

# Antibiogram - 2024

## London Health Sciences Centre and St. Joseph's Health Care

### Interpretation Guide

- The antibiogram is an annual cumulative report of the antimicrobial susceptibility rates of common pathogens recovered from patients receiving care at London Health Sciences Centre and St. Joseph's Healthcare 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://intra.lhsc.on.ca/pathology-and-laboratory-medicine-palm/laboratories/microbiology/antibiograms>

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Gram Negative Organisms	Number of Isolates	Ampicillin	Amoxicillin-Clavulanate	Piperacillin-Tazobactam	Cephalexin (urinary tract)	Cefazolin	Ceftriaxone	Ceftazidime	Imipenem	Meropenem	Ciprofloxacin	Levofloxacin	Gentamicin	Tobramycin	TMP-SMX
<i>Escherichia coli</i>	3675	56	77		84	68	86		99		75		91	90	76
<i>Klebsiella pneumoniae</i> complex	1044		83		85	75	85		97		83		94	91	84
<i>Proteus mirabilis</i>	397	85	95				96			99	88		78	82	86
<i>Enterobacter cloacae</i> complex	375								94		85		96	92	83
<i>Klebsiella oxytoca</i>	232		84				85		96		89		91	89	89
<i>Citrobacter freundii</i> complex	167								94		86		90	92	78
<i>Serratia marcescens</i>	156						94		99		94		99		100
<i>Klebsiella aerogenes</i>	138								97		96		98	97	98
<i>Morganella morganii</i>	92						82		13	99	75		80	82	72
<i>Citrobacter koseri</i>	69		99				99		99		100		100	100	100
<i>Pseudomonas aeruginosa</i>	1080			86				84	71	85	82				
<i>Stenotrophomonas maltophilia</i>	108											88			97

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Gram Positive Organisms	Number of Isolates	Ampicillin	Penicillin	Penicillin (Meningeal)	Penicillin (Non-meningeal)	Cloxacillin	Ceftriaxone	Ceftriaxone (Meningeal)	Ceftriaxone (Non-meningeal)	Clindamycin	Doxycycline	Gentamicin	TMP-SMX	Vancomycin
<i>Staphylococcus aureus</i> (incl. MRSA)	2592					69				83	100		99	100
MRSA	807					0				91	99		97	100
<i>Staphylococcus epidermidis</i>	430					44				61	100		66	100
<i>Staphylococcus lugdunensis</i>	75					99				93	100		100	100
<i>Enterococcus faecalis</i>	218	100										90		100
<i>Enterococcus faecium</i>	240	5										62		78
<i>Streptococcus pneumoniae</i>	90			76	99			92	100				82	100
<i>Streptococcus anginosus</i> group	81		100				100							100
<i>Streptococcus mitis</i> group	43		65				88							100