

Northern Health Authority Annual Antibioqram 2024*

Northern Health Authority Gram Negative Organisms % Susceptible	# of isolates	Greater than or equal to 80% susceptibility = GOOD CHOICE										Less than 80% susceptibility = POOR CHOICE				
		Amoxicillin/ Clavulanate	Ampicillin	Piperacillin/ Tazobactam	Cefazolin	Cefuroxime	Cefixime	Cefotaxime or Ceftriaxone	Ceftazidime	Meropenem	Gentamicin	Tobramycin	TMP/SMX	Ciprofloxacin	Moxifloxacin	Nitrofurantoin ^u
<i>Escherichia coli</i>	4874	86	64	96	88	–	91	93	–	100	93	94	85	79	–	98
<i>Citrobacter freundii</i>	100	R	R	R	R	R	R	R	–	99	93	95	91	84	–	94
<i>Citrobacter koseri</i>	62	61	R	66	60	–	–	63	66	100	100	98	98	98	–	84
<i>Enterobacter cloacae complex</i> ^a	320	R	R	–	R	–	–	–	–	99	98	97	88	87	–	45
<i>Klebsiella aerogenes</i> ^b	65	R	R	–	R	–	–	–	–	99	98	98	99	99	–	21
<i>Klebsiella oxytoca</i>	162	88	R	91	59	–	92	88	94	99	94	95	94	95	–	96
<i>Klebsiella pneumoniae</i>	534	94	R	96	91	–	95	96	96	100	97	97	92	90	–	45
<i>Morganella morganii</i>	65	R	R	–	R	R	–	–	–	100	86	90	72	79	–	–
<i>Proteus mirabilis</i>	257	96	87	98	88	–	97	98	–	99	97	97	91	95	–	–
<i>Serratia marcescens</i>	53	R	R	–	R	R	–	–	–	100	96	88	100	94	–	R
<i>Pseudomonas aeruginosa</i>	358	R	R	90	–	–	–	R	93	96	–	98	R	86	–	–
<i>Stenotrophomonas maltophilia</i> ^c	23	R	R	R	–	–	–	R	R	R	–	–	82	–	–	–
<i>Haemophilus influenzae</i>	73	94	80	–	–	94	–	100	–	–	–	–	68	–	100	–

Notes Percent susceptible for each organism/antimicrobial combination was generated by including the first isolate of that organism encountered on a given patient.

- Legend**
- ^a Enterobacter cloacae complex includes Enterobacter asburiae, E. cloacae and E. hormaechei.
 - ^b Previously known as Enterobacter aerogenes. Reporting hasn't changed in LIS yet.
 - ^c Organisms with less than 30 isolates have decreased statistical validity
 - ^u Urinary tract infections only
 - R Intrinsic resistance
 - Drug not tested or indicated

10-201-6002 (FF07868-IND-Rev.-04/24)



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<i>Staphylococcus aureus</i> †	2365	–	–	74	–	74	–	75	86	–	–	–	91	96	–	100	–
<i>S. aureus (MRSA)</i> ‡	600	R	R	R	R	R	R	R	85	–	–	–	89	91	–	100	100
<i>Staphylococcus epidermidis</i>	292	–	–	48	–	47	–	52	76	–	–	–	77	92	–	100	–
<i>Staphylococcus lugdunensis</i>	97	–	–	93	–	93	–	100	91	–	–	–	100	99	–	100	100
<i>Enterococcus faecalis</i>	735	99 ^B	99	R	–	–	R	R	R	82	–	83	–	–	99	100	–
<i>Enterococcus faecium</i>	135	R	R	R	–	–	R	R	R	14	–	87	–	–	–	42 [‡]	88
Group A Streptococcus	832	100 ^C	100 ^C	–	100	–	100	81	80	–	–	–	R	–	–	98	–
Group B Streptococcus	393	100 ^C	100	–	100	–	100 ^S	62	59	–	–	–	R	–	–	100	–
Group C Streptococcus	109	100 ^C	100 ^C	–	100	–	100 ^S	92	78	–	–	–	R	–	–	100	–
Group G Streptococcus	130	100 ^C	100 ^C	–	100	–	100 ^S	74	75	–	–	–	R	–	–	100	–
<i>Streptococcus pneumoniae</i>	141	100	–	–	100 ²	–	100 ²	73	–	–	100	–	77	–	–	100	–

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Legend – Drug not tested or indicated † Total *Staphylococcus aureus* isolates (includes MSSA and MRSA)
 \$ AST method not validated for this organism/antibiotic combination ‡ Represents clinical isolates - excludes colonization
 U Urinary tract infections only 2 Non-meningitis
 R Intrinsic resistance 3 Meningitis
 A Extrapolated from Cloxacillin B Extrapolated from Ampicillin
 C Extrapolated from Penicillin

*Prepared by Ally King, Microbiology Quality Resource Technologist, January 2024 based on 2023 cumulative AST data from Jan. 1 2023 to Dec. 31 2023, As per CLSI document M39-A4 Analysis and presentation of cumulative antimicrobial susceptibility tests data – approved guideline – 4th edition

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