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2023 Outpatient Antimicrobial Susceptibilities of Major Pathogens

[Data is also located on the Allina Knowledge Network \(AKN\)](#)

- The intent of this document is to provide a preliminary guide to susceptibilities. This information should be used together with the specific susceptibility results of the isolated organism and guidelines from current publications. This report summarizes routinely tested antibiotics. Actual patient reports may selectively exclude some results.
- Results are from outpatients only and include only one isolate per patient.
- Isolates collected during Emergency Department visits are not included in this data.
- MRSA and VRE surveillance culture isolates are not included.
- All intermediate (I) interpretations are included in the resistant category.
- All organisms identified are held for a period of 7 days after the final results have been reported in case further testing is requested. Blood culture isolates are held for 1 month. Testing of additional antimicrobials is available upon request.
- Additional guidance can be found on the [Allina Health Antibiotic Stewardship Program](#) web page.

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GRAM NEGATIVE BACILLI URINE ISOLATES ONLY	ISOLATES														
		AMPICILLIN	AMPICILLIN/SULBACTAM	CEFZOLIN-UC*	CEFEPIME	CEFTAZIDIME	CEFTRIAXONE	CIPROFLOXACIN	GENTAMICIN	LEVOFLOXACIN	MEROPENEM	NITROFURANTOIN	PIPERACILLIN/TAZOBACTAM	TOBRAMYCIN	TRIMETHOPRIM/SULFA
<i>Citrobacter</i> species (all combined)	467				99	90	89	97	97	96	99	94	92	98	94
<i>Enterobacter</i> species (all combined)	300				98	85	80	96	99	95	98	52	79	98	94
<i>Escherichia coli</i>	11100	65	71	93	96	95	95	84	94	80	99	98	97	94	82
<i>Klebsiella aerogenes</i> (formerly <i>Ent. aerogenes</i>)	206				99	91	89	98	100	95	99	24	88	100	100
<i>Klebsiella oxytoca</i>	260		60		96	96	93	97	97	97	99	90	92	96	94
<i>Klebsiella pneumoniae</i>	1454		86	94	95	95	95	92	98	90	99	31	95	98	91
<i>Klebsiella variicola</i>	205		99		100	100	100	99	100	97	100	79	99	100	99
<i>Morganella morganii</i>	66		18		98	89	95	93	89	90	96		100	90	93
<i>Proteus mirabilis</i>	720	92	95	98	99	99	99	94	96	94	99		100	97	90
<i>Pseudomonas aeruginosa</i>	393				96	95		89	94	84	95		94	100	
<i>Serratia marcescens</i>	44				100	97	95	90	97	88	100			95	97

≥90% Susceptible
61-89% Susceptible
0-60% Susceptible

*Cefazolin-UC; the % susceptible can only be ascertained on isolates of *E.coli*, *Klebsiella pneumoniae*, and *Proteus mirabilis* from uncomplicated UTIs. The cefazolin threshold for susceptible is ≤ 2 µg/ml for all other sources and *Enterobacteriales*. The lowest dilution for cefazolin on the Allina FDA cleared automated platform is 4 µg/ml, thus no susceptible results can be determined by this method.

GRAM NEGATIVE BACILLI EXCLUDING URINE ISOLATES	ISOLATES														
		AMPICILLIN	AMPICILLIN/SULBACTAM	CEFEPIME	CEFTAZIDIME	CEFTRIAXONE	CIPROFLOXACIN	GENTAMICIN	LEVOFLOXACIN	MEROPENEM	PIPERACILLIN/TAZOBACTAM	TOBRAMYCIN	TRIMETHOPRIM/SULFA		
<i>Citrobacter</i> species (all combined)	59			100	94	94	96	96	96	100	94	98	94		
<i>Enterobacter</i> species (all combined)	132			99	96	96	99	100	98	100	96	100	97		
<i>Escherichia coli</i>	216	60	71	91	90	90	77	94	75	100	98	94	75		
<i>Klebsiella oxytoca</i>	83		62	100	100	98	100	100	100	98	97	100	98		
<i>Klebsiella pneumoniae</i>	49		87	91	91	91	91	97	87	100	95	93	89		
<i>Morganella morganii</i>	44		18	97	84	95	88	95	88	100	100	97	93		
<i>Proteus mirabilis</i>	92	83	93	96	96	96	89	96	89	100	97	97	89		
<i>Pseudomonas aeruginosa</i>	275			94	95		91	93	86	96	92	99			
<i>Serratia marcescens</i>	47			100	100	100	100	100	95	100		97	100		
<i>Stenotrophomonas maltophilia</i>	42				40				90				90		

GRAM POSITIVE COCCI URINE ISOLATES ONLY	ISOLATES	ANTIBIOTIC CLASSES												
		AMPICILLIN	CEFZOLIN	DAPTOMYCIN	GENTAMICIN	LEVOFLOXACIN	LINEZOLID	NITROFURANTOIN	OXAICILLIN	PENICILLIN	RIFAMPIN ¹	TETRACYCLINE	TRIMETHOPRIM/SULFA	VANCOMYCIN
<i>Enterococcus faecalis</i>	1434	99	61		92 ^u	100	99		99				99	
<i>Enterococcus faecium</i>	65	50			43 ^u	100	33		50				78	
<i>Staphylococcus aureus</i>	186		81	100	100	77	100	98	81		99	90	99	100
<i>Staphylococcus Coag Negative</i>	250		60	100	95	74	100	98	60		99	85	74	100
<i>Staphylococcus lugdunensis</i>	34		97	100	100	97	100	100	97		100	100	100	100

GRAM POSITIVE COCCI EXCLUDING URINE ISOLATES	ISOLATES	ANTIBIOTIC CLASSES															
		AMPICILLIN	CEFZOLIN	CEFTRIAXONE	CLINDAMYCIN	DAPTOMYCIN	DOXYCYCLINE ²	ERYTHROMYCIN	GENTAMICIN ³	LEVOFLOXACIN	LINEZOLID	OXAICILLIN	PENICILLIN	RIFAMPIN ¹	TETRACYCLINE	TRIMETHOPRIM/SULFA	VANCOMYCIN
<i>Enterococcus faecalis</i>	254	100				69					100		99			100	
<i>Staphylococcus aureus</i>	1867		77		83	100	98	63	98	83	100	77		99	89	93	100
<i>Staphylococcus Coag Negative</i>	114		64		66	100	94	37	96	91	100	64		98	81	73	100
<i>Staphylococcus lugdunensis</i>	281		96		87	100	100	86	100	99	100	96		100	96	99	100
<i>Staphylococcus pseudintermedius</i>	32		81		71	100	78	62	73	81	100	81		100	50	68	100
<i>Strep. agalactiae</i> (Strep Group B)	152	100		100	54			48		97	100		100		20		100
<i>Strep. pyogenes</i> (Beta Strep Group A)	61	100		100	85			85		98	100		100		81		100

¹ Rifampin should not be used alone for antimicrobial therapy.

² Daptomycin not reported on isolates from respiratory tract.

³ Gentamicin should not be used as monotherapy for gram positive infections.

Links to Related Content

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