

Regional Adult Antibigrams 2021

Updated April 21, 2022

Gram Positive Bacteria Percent of Strains Susceptible

Regional Antibigram - 2021 Patients ≥18 years of age Alton Memorial Hospital, Barnes-Jewish Hospital, Christian Hospital, Memorial Hospital, Parkland Health Center, St. Louis Children's Hospital	Percent of Strains Susceptible to Antimicrobial Indicated																			
	# Strains Tested	Ampicillin	Cefazolin	Ceftaroline	Ceftriaxone	Ceftriaxone (non-meningitis)	Ceftriaxone (meningitis)	Ciprofloxacin	Clindamycin	Doxycycline	Erythromycin	Gentamicin (High-level)	Linezolid	Nitrofurantoin [†]	Oxacillin	Penicillin	Penicillin (non-meningitis)	Penicillin (meningitis)	Trimethoprim-Sulfamethoxazole	Vancomycin
Gram Positive																				
<i>Staphylococcus aureus</i>	3966		59	100	59			73	96	42		100		59					99	99
MRSA*	1623		0	100	0			65	95	14		100		0					97	99
MSSA**	2343		100	100	100			78	97	61		100		99					100	98
VISA***	59		61	100	61			54	98	32		100		59					100	0
<i>Staphylococcus capitis</i>	93		81		81			79	90	70		100		81					100	100
<i>Staphylococcus epidermidis</i>	825		36		36			53	89	30		100		36					46	100
<i>Staphylococcus haemolyticus</i>	37		57		57			62	89	22		100		57					83	100
<i>Staphylococcus hominis</i>	149		52		52			79	74	33		100		52					61	100
<i>Staphylococcus intermedius</i> group	71		80		80			63	62	63		100		80					69	100
<i>Staphylococcus lugdunensis</i>	465		85		85			78	97	71		100		76					100	100
Other <i>Staphylococcus</i> species	113		78		78			80	98	60		100		78					94	100
<i>Enterococcus faecalis</i>	1586	100							35		85	100	99							95
<i>Enterococcus faecium</i>	414	12							60		95	100	19							37
<i>Streptococcus anginosus</i>	172				100			79		63					98					100
<i>Streptococcus bovis</i> group ^{&}	44				100			84		70					100					100
<i>Streptococcus constellatus</i>	95				100			75		73					98					100
<i>Streptococcus intermedius</i>	94				100			77		65					100					100
<i>Streptococcus mitis</i> group	106				98			84		34					64					100
<i>Streptococcus pneumoniae</i> [‡]	138					98	88	83	78	57						94	67			100
<i>Streptococcus salivarius</i> group	33				97			82		30					61					100
<i>Corynebacterium striatum</i>	219							7		27		100			1					100
<i>Corynebacterium</i> spp., not <i>C. striatum</i>	143							58		83		100			43					100

[†] Only indicated for uncomplicated cystitis.

* Methicillin-Resistant *Staphylococcus aureus*.

** Methicillin-Susceptible *Staphylococcus aureus*.

*** Vancomycin-Intermediate *Staphylococcus aureus*.

[‡] Susceptibility and resistance of *S. pneumoniae* to azithromycin is predicted by erythromycin.

[&] indicates values are based upon two years of data (2020 and 2021).

Shaded boxes indicate organism/antimicrobial combinations not tested routinely.

Regional antibiogram includes first isolate per patient for inpatients, outpatients, and Emergency Department.

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Gram Negative Bacteria Percent of Strains Susceptible

Regional Antibigram - 2021 Patients ≥18 years of age Alton Memorial Hospital, Barnes-Jewish Hospital, Christian Hospital, Memorial Hospital, Parkland Health Center, St. Louis Children's Hospital	Percent of Strains Susceptible to Antimicrobial Indicated																						
	# Strains Tested	Amikacin	Ampicillin	Ampicillin-Sulbactam	Aztreonam	Cefazolin	Cefepime	Cefiderocol	Ceftolozane-Tazobactam	Ceftriaxone	Ceftazidime	Ciprofloxacin	Fosfomycin [^]	Gentamicin	Imipenem	Levofloxacin	Meropenem	Minocycline	Nitrofurantoin [†]	Piperacillin-Tazobactam	Tobramycin	Trimethoprim-Sulfamethoxazole	
Gram Negative Bacilli																							
<i>Achromobacter</i> spp.	86					15					87	15		6			87			100		95	
<i>Acinetobacter</i> spp. (excluding <i>A. calcoaceticus-baumannii</i> complex)	89			99		98					85	98		97			99			91		91	
<i>Acinetobacter calcoaceticus-baumannii</i> complex	126			89		39					55	33		86			34			31		58	
<i>Alcaligenes faecalis</i>	31					58					100	74		100			100					80	
<i>Citrobacter freundii</i> complex	227		•	•	•	•	97			•	•	86		95			99		94	•		83	
<i>Citrobacter koseri</i>	222		0	87		93	97			97	96	96		100			97		100	97		95	
<i>Enterobacter aerogenes</i>	296		•	•	•	•	99			•	•	95		99			100		49	•		97	
<i>Enterobacter cloacae</i> complex	735		•	•	•	•	99			•	•	93		99			99		63	•		91	
<i>Escherichia coli</i>	7938		49	61		86	96			91	94	75		92			100			99		75	
<i>Escherichia coli</i> - URINE ONLY	6925		49			90	97			93	95	75	97	92			100		98	99		75	
<i>Klebsiella oxytoca</i>	445		0	68		52	97			87	93	88		93			99		97	94		86	
<i>Klebsiella pneumoniae</i>	2048		0	67		89	95			92	92	85		95			99		66	96		84	
<i>Klebsiella variicola</i>	186		0	88		95	98			97	97	90		97			100		93	98		94	
<i>Morganella morganii</i>	175		0			0	100			91	83	74		93	£		99		‡	97		76	
<i>Proteus mirabilis</i>	1308		82	96		68	99			98	99	73		94	£		100		‡	100		78	
<i>Proteus vulgaris</i> and <i>Proteus vulgaris/hauseri</i>	100		0			0	99			95	99	95		100	£		100		‡	100		94	
<i>Providencia stuartii</i>	82		0			0	96			96	82	46		90	£		98		‡	96		82	
<i>Providencia rettgeri</i>	82		0			0	100			99	100	85		98	£		100		‡	100		89	
<i>Pseudomonas aeruginosa</i>	1731	96			82		96	100	98		94	85		95	89		91			94	97		
<i>Pseudomonas aeruginosa</i> (mucooid phenotype)	175	86			81		86		94		93	62		88	84		86			93	95		
<i>Pseudomonas</i> spp., not <i>P. aeruginosa</i>	68						96				96	93		100			84					45	
<i>Serratia marcescens</i>	304		•	•	•	•	100			•	•	96		98			100			•		96	
<i>Stenotrophomonas maltophilia</i>	257															93		100				97	

[†] Only indicated for uncomplicated cystitis.

• Because of the presence of inducible beta-lactamase, these organisms should be considered resistant to the antimicrobial indicated.

‡ Intrinsic resistant to nitrofurantoin, tetracyclines, and colistin.

[^] Fosfomycin is routinely tested on multi-drug resistant *Escherichia coli* from urine. Fosfomycin is only indicated for urinary tract infection.

[£] Low-level resistance to imipenem is common in Proteaeae; imipenem cannot be inferred from meropenem.

Shaded boxes indicate organism/antimicrobial combinations not tested routinely.

Data based on first isolate per patient.

Regional antibiogram includes first isolate per patient for inpatients, outpatients, and Emergency Department.

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Select Streptococcus spp.

Percent of Strains Susceptible

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	# Strains Tested	Ceftriaxone	Clindamycin	Erythromycin	Penicillin	Vancomycin
Gram Positive						
<i>Streptococcus agalactiae</i>	188	100	34	25	100	100
<i>Streptococcus dysgalactiae</i>	57	100	61	60	100	100
<i>Streptococcus pyogenes</i>	57	100	74	75	100	100

Only isolates recovered from blood and sterile body sites are routinely tested.

Regional antibiogram includes first isolate per patient for inpatients, outpatients, and Emergency Department.