



Department of Pathology and Immunology

**SECTION OF PATHOLOGY INFORMATICS**

**Regional Pediatric Antibigrams**

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**2023**

# Foreword

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These antibiograms summarize the susceptibility rates of bacteria isolated from clinical specimens collected during the year 2023 and processed in the microbiology laboratory at Barnes-Jewish Hospital. Only the first isolate per patient based on collection time are included in the generation of the antibiograms. Susceptibility rates are presented for organisms where there were at least 30 total tested isolates. Additional susceptibilities are presented for select organism groups as defined in the [glossary](#).

Questions regarding these antibiograms and antimicrobial susceptibility testing performed in the Microbiology Laboratory of Barnes-Jewish Hospital should be directed to:

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# 2023 Regional Pediatric: Gram Positive

	# isolates																			
Enterococcus faecalis	100	#	#	#	#	#	#	#	88	43	95		100	100	#		#	99	149	
Staphylococcus aureus			70	100	70			78	88	99			100		70			99	99	1123
Staphylococcus aureus (MRSA)			0	100	0			81	85	98			100		0			98	100	333
Staphylococcus aureus (MSSA)			100	100	100			78	90	100			100		99			99	99	790
Staphylococcus epidermidis			27		28			51	93	94			100		28			60	100	64
Staphylococcus lugdunensis			94		95			82		97			100		84			100	100	37
Streptococcus pneumoniae		62				88	100	95		85		100				63	96	74	100	73

  

85-100% of isolates susceptible	■
60-84% of isolates susceptible	■
0-59% of isolates susceptible	■
Not routinely tested or insufficient data	■
Intrinsically Resistant	#

  

Ampicillin	Amphotericin B	Cefazolin	Cefepime	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Clindamycin	Daptomycin	Doxycycline	High-Level Gentamicin	Levofloxacin	Linezolid	Nitrofurantoin	Oxacillin	Penicillin (meningitis)	Penicillin (non-meningitis)	Trimethoprim-Sulfamethoxazole	Vancomycin
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Data based on first isolate per patient.

Daptomycin only routinely tested on Staphylococcus isolates recovered from blood or sterile body sites.

Nitrofurantoin only indicated for uncomplicated cystitis.

**Hospitals Included:** Alton Memorial Hospital, Barnes-Jewish Hospital, Christian Hospital, Memorial Hospital, Parkland Health Center, St. Louis Children's Hospital

**Ages:** Pediatric (<18 years)

**Collection Setting:** Inpatient, Outpatient, and Emergency Department

# 2023 Regional Pediatric: Gram Negative

	#	#	&	#	98		&		&	92	98			100			&		87	# isolates
Enterobacter cloacae complex	#	#	&	#	98		&		&	92	98			100			&		87	62
Escherichia coli	51	54		91	98		97		95	86	90			100			99		74	957
Escherichia coli - URINE ONLY	52			94	98		97		96	87	91			100		98	99		75	877
Klebsiella oxytoca	#			33	98		80		74	89	83			100			87		76	46
Klebsiella pneumoniae	#	64		88	92		90		90	81	92			99		64	96		74	98
Proteus mirabilis	91			75	100		100		100	96	94			100	#	#	100		91	70
Pseudomonas aeruginosa	#	#	86	#	98	99	96	99	#	87		88		89		#	94	89	#	202
Serratia marcescens	#	#		#	100					86	89			100		#			91	44
Stenotrophomonas maltophilia	#	#	#	#				#	#		#	#	97	#	100	#	#	#	100	34

  

85-100% of isolates susceptible	■
60-84% of isolates susceptible	■
0-59% of isolates susceptible	■
Not routinely tested or insufficient data	■
Intrinsically Resistant	#
Inducibly Resistant	&

  

Ampicillin	Ampicillin/Sulbactam	Aztreonam	Cefazolin	Cefepime	Cefiderocol	Ceftazidime	Ceftolozane/Tazobactam	Ceftriaxone	Ciprofloxacin	Gentamicin	Imipenem	Levofloxacin	Meropenem	Mimocycline	Nitrofurantoin	Piperacillin/Tazobactam	Tobramycin	Trimethoprim-Sulfamethoxazole
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Data based on first isolate per patient.

Nitrofurantoin only indicated for uncomplicated cystitis.

Serratia marcescens data limited due to protocol changes in October 2023.

**Hospitals Included:** Alton Memorial Hospital, Barnes-Jewish Hospital, Christian Hospital, Memorial Hospital, Parkland Health Center, St. Louis Children's Hospital

**Ages:** Pediatric (<18 years)

**Collection Setting:** Inpatient, Outpatient, and Emergency Department

# Glossary

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## Abbreviations

MRSA: Methicillin resistant *Staphylococcus aureus*

MSSA: Methicillin susceptible *Staphylococcus aureus*

## Organism groups

***Pseudomonas aeruginosa***: *Pseudomonas aeruginosa*, *Pseudomonas aeruginosa* (mucoid morphotype),  
*Pseudomonas aeruginosa* group

# Report Log

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Report Generation Date and Time

2024-04-18 10:23

Report Generation Software

<https://github.com/WUSM-LGM-Informatics-Section/resistalytics>

v2023.0.0-12-g4c5fcd7

4c5fcd719b09b390df805a30f7358534a5b98046

Software Written and Maintained by

[Section of Pathology Informatics](#)

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