



Marshfield Clinic Health System

2022 Inpatient Cumulative Antibigram

This antibiogram summarizes the susceptibility patterns of the most commonly encountered bacterial pathogens to guide empiric treatment/prophylaxis choices. The percentages found in the antibiogram represent the percentages SUSCEPTIBLE in 2022.

Contact Dr. Thomas Novicki or Dr. Sophie Arbefeville at ext. 16300 (715-221-6300) for additional information regarding this report. Contact the Marshfield Clinic Pharmacy Drug Information Service at ext. 19800 (715-221-9800) for dosing and other drug information.

% Susceptible	<i>Citrobacter freundii</i>	<i>Enterobacter cloacae</i>	<i>Escherichia coli</i>	<i>Klebsiella aerogenes</i>	<i>Klebsiella oxytoca</i>	<i>Klebsiella pneumoniae</i>	<i>Morganella morganii</i>	<i>Proteus mirabilis</i>	<i>Pseudomonas aeruginosa</i>	<i>Serratia marcescens</i>	<i>Stenotrophomonas maltophilia</i>
Max. Number Tested	52	101	1957	63	101	380	32	194	298	39	34 [1]
Ampicillin	-	-	66%	-	0%	0%	0%	88%	-	-	-
Amoxicillin/ Clavulanic Acid	0%	1%	89%	0%	93%	96%	0%	92%	-	0%	-
Piperacillin/ Tazobactam	79%	79%	97%	89%	94%	97%	100%	100%	91%	-	-
Cefazolin (Urine)	-	-	92%	-	-	96%	-	96%	-	-	-
Ceftazidime	75%	81%	97%	90%	100%	98%	84%	99%	94%	97%	47%
Ceftriaxone	75%	75%	95%	90%	92%	97%	88%	98%	-	92%	-
Cefepime	100%	99%	99%	100%	100%	99%	100%	100%	95%	100%	-
Meropenem	100%	100%	100%	100%	100%	100%	100%	100%	93%	100%	-
Amikacin	100%	100%	100%	100%	100%	100%	100%	100%	99%	100%	-
Gentamicin	90%	100%	95%	100%	98%	99%	94%	93%	95%	100%	-
Tobramycin	90%	100%	95%	100%	98%	98%	97%	93%	98%	87%	-
Ciprofloxacin	92%	100%	85%	100%	98%	95%	91%	82%	86%	97%	-
Levofloxacin	87%	94%	82%	94%	100%	93%	91%	79%	79%	92%	85%
Minocycline	-	-	-	-	-	-	-	-	-	-	100%
Tetracycline	85%	92%	84%	95%	94%	88%	63%	0%	-	26%	-
Nitrofurantoin (Urine)	92%	43%	97%	10%	87%	29%	0%	0%	-	0%	-
Trimethoprim/ Sulfamethoxazole	87%	93%	85%	100%	96%	93%	91%	88%	-	97%	97%

Note [1] Inpatient and outpatient isolates.

% Susceptible	<i>Enterococcus faecalis</i>	<i>Enterococcus faecium</i>	<i>Staphylococcus aureus</i>	<i>Staphylococcus epidermidis</i>	<i>Staphylococcus lugdunensis</i>	<i>Streptococcus anginosus</i>	<i>Streptococcus constellatus</i>	Group A <i>Streptococcus (S. pyogenes)</i>	Group B <i>Streptococcus (S. agalactiae)</i>	Group C <i>Streptococcus</i>	Group G <i>Streptococcus</i>	<i>Streptococcus pneumoniae</i>
Max. Number Tested	429	54	781	333	43	66	42	69 [1]	76	32	36	46 [1]
Ampicillin	100%	22%	-	-	-	98%	95%	100%	100%	100%	100%	[2]
Amoxicillin	-	-	-	-	-	-	-	-	-	-	-	[3]
Oxacillin	-	-	72%	39%	98%	-	-	-	-	-	-	-
Penicillin	100%	20%	19%	-	-	99%	93%	100%	100%	100%	100%	-
Penicillin IV, meningeal	-	-	-	-	-	-	-	-	-	-	-	66%
Penicillin IV, non-meningeal	-	-	-	-	-	-	-	-	-	-	-	96%
Ceftaroline	-	-	100%	-	-	-	-	-	-	-	-	-
Ceftriaxone, meningeal	-	-	-	-	-	-	-	-	-	-	-	89%
Ceftriaxone, non-meningeal	-	-	-	-	-	-	-	-	-	-	-	93%
Meropenem	-	-	-	-	-	-	-	-	-	-	-	81%
Clindamycin	-	-	80%	58%	79%	80%	83%	77%	54%	84%	89%	-
Erythromycin	13%	6%	59%	38%	79%	68%	85%	78%	57%	88%	89%	59%
Daptomycin	-	-	100%	100%	100%	-	-	-	-	-	-	-
Gentamicin	-	-	99%	89%	100%	-	-	-	-	-	-	-
Levofloxacin	82%	15%	77%	60%	100%	100%	100%	100%	97%	100%	92%	97%
Linezolid	97%	98%	100%	100%	100%	100%	100%	100%	100%	100%	100%	-
Nitrofurantoin (Urine)	100%	17%	100%	100%	100%	-	-	-	-	-	-	-
Rifampicin	-	-	100%	99%	98%	-	-	-	-	-	-	-
Tetracycline	27%	20%	93%	83%	95%	58%	81%	75%	23%	81%	81%	71%
Trimethoprim/ Sulfamethoxazole	-	-	97%	61%	100%	-	-	-	-	-	-	68%
Vancomycin	100%	48%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Notes:

[1] Inpatient and outpatient isolates.

[2] Based on susceptibility to standard dose IV penicillin and studies of clinical efficacy, nearly all non-meningeal pneumococcal infections can be effectively treated with IV ampicillin.

[3] Based on susceptibility to oral penicillin and studies of clinical efficacy, nearly all non-meningeal pneumococcal infections can be effectively treated with high dose oral amoxicillin (in children: 80-100 mg/kg/day divided TID; adult dose and maximum dose in children: 1 g TID). Mandell J, Dolin R, Blaser M. Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases. 9th ed. Elsevier; c2023. Chapter 199, *Streptococcus pneumoniae*; p. 2473-2491. Table 199.5 (comment b)