MERCYONE℠

2025 **Antibiogram**

This antibiogram represents the cumulative antimicrobial susceptibility data from organisms isolated at MercyOne Dubuque Medical Center microbiology department from January 2025 through December 2025. This report is to help guide empiric antibiotic therapy by providing local susceptibility data on the most common organisms using Kirby-Bauer, E-Test and Phoenix™ methods. The patient's specific isolate susceptibility results should be used when available.

- Inpatient and outpatient isolates are included.
- Duplicates and organisms with less than 10 isolates are excluded; only the first isolate for each organism isolated from a patient are included in the susceptibility calculation.
- MRSA surveillance cultures are excluded.

NOTES:

Staphylococci that are oxacillin-susceptible are also susceptible to the other penicillinase-stable penicillins.

For agents with established clinical efficacy and considering site of infection and appropriate dosing, oxacillin-susceptible staphylococci can be considered susceptible to: beta-lactam combination agents, oral cephems, parenteral cephems and carbapenems.

Streptococcus pneumoniae: Non-meningitis isolates reported as susceptible to penicillin can be considered susceptible to other beta-lactam antibiotics.

Haemophilis sp.: Amoxicillin-clavulanate, azithromycin, cefaclor, cefdinir, cefixime, cefpodoxime, cefprozil, cefuroxime and clarithromycin are used as empiric therapy for respiratory tract infections.

Salmonella spp. and Shigella spp. cannot effectively be treated with first and second generation cephalosporins, cephamycins or aminoglycosides.

Groups A,B,C,F and G beta-hemolytic streptococci are uniformly susceptible to penicillin, ampicillin, amoxicillin and first generation cephalosporins. Thus, susceptibility testing is not performed routinely with those drugs. Susceptibility to erythromycin and clindamycin (including inducible resistance to clindamycin) are routinely determined on screening isolates of Group B strep from penicillin-allergic pregnant women.

Enterococci susceptible to penicillin are predictably susceptible to ampicillin, amoxicillin, ampicillin-sulbactam, amoxicillin-clavulanate, piperacillin-tazobactam for non-beta-lactamase-producing enterococci. However, enterococci susceptible to ampicillin cannot be assumed to be susceptible to penicillin.

Combination therapy with high-dose parenteral ampicillin, penicillin or vancomycin (for susceptible strains), plus an aminoglycoside, is usually indicated for serious enterococcal infections, such as endocarditis, unless high-level resistance to both gentamicin and streptomycin is documented; such combinations are predicted to result in synergistic killing of Enterococci.

E.coli, Kleb. pneumoniae and Proteus mirabilis – Urine Isolates: Cefazolin susceptibility can be used to predict susceptibility to oral cephalosporins.

Enterobacter cloacae complex, Klebsiella (formerly Enterobacter) aerogenes and **Citrobacter freundii** complex may develop resistance during prolonged therapy with 3rd generation cephalosporins as a result of derepression of Amp-C Beta lactams. Therefore, isolates that are initially susceptible may become resistant within 3 to 4 days after initiation of therapy.

GENERAL COMMENTS

Organisms that are susceptible to tetracycline are also considered susceptible to doxycycline and minocycline. However, some organisms that test intermediate or resistant to tetracycline should be tested against doxcycline or minocycline if those results are needed for treatment.

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Gram-positive	Ampicillin	Cefotaxime	Ceftriaxone	Clindamycin	Erythromycin	Gentamicin	Gentamycin (High Level)	Levofloxacin	Linezolid	Oxacillin	Penicillin	Streptomycin (High Level)	Nitrofurantoin	Tetracycline	Trimethoprim/ Sulfamethoxazole	Vancomycin
Enterococcus faecalis	100 (398)						85 (20)	83 (155)			99 (400)	78 (9)	99 (381)	24 (382)		100 (400)
Enterococcus faecium	29 (41)							12 (41)	90 (21)		29 (42)			23 (40)		100 (41)
Enterococcus VRE	14 (36)							3 (35)	100 (36)		17 (36)			3 (35)		0 (36)
Staphylococcus aureus (all)				**71 (849)**	**46 (848)**	**98 (965)**		**64 (22)**		**71 (965)**	**21 (963)**		**100 (108)**	**90 (967)**	**97 (975)**	**100 (965)**
Methicillin Resistant (MRSA)				80 (236)	20 (236)	96 (281)				0 (281)	0 (281)		100 (30)	84 (281)	92 (290)	100 (281)
Methicillin Sensitive (MSSA)				68 (613)	57 (612)	99 (684)				100 (684)	29 (682)		100 (78)	92 (686)	99 (685)	100 (684)
Staphylococcus epidermiditis				66 (29)	38 (29)	99 (101)		69 (35)		45 (106)	13 (106)		97 (31)	78 (105)		100 (105)
Streptococcus Group B		100 (7)		38 (16)	67 (3)						100 (21)					100 (22)
Streptococcus pneumoniae			100 (43)	97 (33)	59 (37)						78 (46)			76 (37)	74 (34)	100 (39)
Streptococcus mitis/oralis group			100 (14)	81 (47)							60 (29)					100 (48)

Reported: % susceptible
(number of isolates tested)

* = Susceptible / Intermediate
† = Interpret with caution.
Less than 30 isolates tested.

Gram-negative	Ampicillin	Ampicillin/ Sulbactam	Cefepime (FEP)	Cefazolin (CFZ)	Cefoxitin (CFX)	Ceftazidime (CAZ)	Ceftriaxone (CAX)	Ciprofloxacin	Ertapenem	Gentamicin	Imipenem	Levofloxacin	Nitrofurantoin	Piperacillin/ Tazobactam	Tobramycin	Trimethoprim/ Sulfamethoxazole
Citrobacter freundii complex			97 (141)	9 (143)			73 (141)	88 (60)	99 (141)	100 (141)	99 (141)	91 (57)	91 (135)	80 (141)	100 (141)	91 (141)
Citrobacter koseri			99 (89)	97 (89)			99 (89)	100 (41)	100 (89)	100 (89)	98 (89)	100 (43)	42 (86)	100 (89)	100 (89)	99 (89)
Enterobacter cloacae complex			89 (270)	16 (268)			59 (273)	96 (121)	73 (272)	99 (268)		99 (118)	24 (243)	70 (274)	98 (268)	92 (268)
Escherichia coli	64 (4454)	68 (4461)	95 (4432)	89 (4445)	95 (4443)		94 (4434)	76 (1660)	100 (4430)	92 (4436)	100 (4429)	82 (1620)	97 (4312)	98 (4215)	93 (4441)	81 (4435)
Klebsiella (Enterobacter) aerogenes			95 (129)	10 (128)	0 (127)		64 (129)	95 (40)	87 (129)	100 (127)		97 (37)	20 (124)	67 (129)	100 (127)	98 (127)
Kleb. oxytoca/Raoultella ornithinolytica	0 (200)	46 (200)	98 (200)	65 (203)	98 (201)		96 (201)	96 (74)	99 (200)	97 (200)	100 (200)	99 (72)	87 (179)	96 (200)	96 (200)	90 (200)
Klebsiella pneumoniae	0 (777)	73 (781)	83 (778)	82 (776)	93 (784)		83 (778)	69 (340)	98 (780)	94 (777)	98 (776)	73 (336)	37 (767)	98 (651)	91 (781)	81 (779)
Klebsiella species	0 (108)		97 (108)	95 (108)	96 (108)		97 (108)	96 (57)	99 (108)	99 (108)		91 (56)	76 (103)	100 (108)	100 (108)	96 (108)
Morganella species	0 (91)	18 (93)	99 (90)	2 (91)	57 (93)		86 (91)	82 (34)	99 (91)	92 (91)		81 (32)	0 (49)	96 (90)	93 (91)	80 (91)
Proteus mirabilis	76 (513)	83 (520)	99 (510)	79 (514)	97 (513)		95 (513)	80 (175)	100 (509)	88 (511)		80 (175)	0 (443)	100 (511)	87 (513)	80 (514)
Pseudomonas aeruginosa			94 (497)			95 (499)		85 (504)		100 (2)	81 (499)	83 (504)		91 (500)	99 (495)	
Salmonella spp †	97 (31)															97 (31)
Serratia marcescens			97 (72)	0 (71)			88 (74)	85 (36)	93 (74)	97 (73)	81 (73)	82 (33)	0 (27)	93 (74)	84 (73)	