

Antimicrobial Susceptibility Report: Midcentral isolates 1 Jan – 31 Dec 2023

≥ 90% susceptible;
 70-89% susceptible;
 < 70% susceptible;
 Number = proportion susceptible (S/I); R = Resistant

Gram negative isolates

Organism (number tested)	Amoxicillin	Amoxi-clav (uncomplicated UTI)	Amoxi-clav (other indications)	Cephalexin (uncomplicated UTI)	Cefuroxime	Ceftriaxone	Ceftazidime	Piperacillin-tazobactam	Meropenem	Gentamicin	Tobramycin	Trimethoprim (uncomplicated UTI)	Cotrimoxazole	Ciprofloxacin	Nitrofurantoin (uncomplicated UTI)
<i>Escherichia coli</i> – urinary isolates (5483)	-	88% ^a	52%	93% ^a	-	-	-	-	-	-	-	74 ^a	-	89%	99% ^a
<i>Escherichia coli</i> – other sites (212)	-	-	64%	-	87% ^a	92%	-	95%	100%	98%	98%	-	75%	90%	-
ESBL <i>Escherichia coli</i> (192) ^e - all	R	-	-	R	R	R	R	-	100%	79%	74%	28% ^a	29%	20%	94% ^a
<i>Klebsiella pneumoniae</i> – urinary isolates (464)	R	97% ^a	80%	94% ^a	-	-	-	-	-	-	-	84% ^a	-	91%	-
<i>Klebsiella pneumoniae</i> – other sites (53)	R	-	96%	-	^d	91%	-	96%	100%	90%	92%	-	89%	88%	-
<i>Proteus mirabilis</i> – urinary isolates (284)	-	97% ^a	93%	96% ^a	-	--	-	-	-	-	-	81% ^a	-	99%	R
<i>Proteus mirabilis</i> - other sites (30)	-	-	89%	-	^d	100%	-	100%	100%	100%	100%	-	93%	100%	R
<i>E. cloacae</i> , <i>K. aerogenes</i> , <i>C. freundii</i> , <i>S. marcescens</i> & <i>M. organii</i> (426)	R	R	R	R	R	86% ^b	90% ^b	88%	100%	96%	90%	89% ^a	92%	94%	^f
<i>Pseudomonas aeruginosa</i> (702)	R	R	R	R	R	R	95%	95%	99%	-	98%	R	R	91%	R
<i>Haemophilus influenzae</i> (290) ^c	69%	-	75%	-	-	97%	-	98%	-	-	-	-	72%	-	-

^a Susceptibility results apply to uncomplicated lower urinary tract infection only; ^b*E. cloacae*, *K. aerogenes*, *S. marcescens*, *M. organii*, and *C. freundii* may develop resistance during treatment with third generation cephalosporins. ^c 99% *Haemophilus influenzae* were susceptible to tetracycline/doxycycline. ^d Insufficient numbers tested (estimate approx. 85-90% susceptible); ^e 94% and 88% of isolates susceptible (uncomplicated UTI breakpoints) to Fosfomycin and Mecillinam respectively; ^f *Serratia* and *Morganella* species intrinsically resistant to nitrofurantoin; ^g Only 106 isolates tested (primarily blood culture isolates).

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Gram positive isolates

Organism (number tested)	Penicillin	Amoxicillin	Flucloxacillin ^a	Ceftriaxone	Erythromycin	Clindamycin	Cotrimoxazole	Doxycycline	Fusidic acid	Vancomycin	Nitrofurantoin (uncomplicated UTI)	Ciprofloxacin (uncomplicated UTI)
<i>Staphylococcus aureus</i> – all (5065)	-	-	92% ^a	-	91%	92%	98%	98%	90%	100%	-	-
Methicillin-resistant <i>Staphylococcus aureus</i> (367)	R	R	R ^a	R	91%	94%	100%	94%	59%	100%	-	-
<i>Staphylococcus lugdunensis</i> (195)	-	-	70% ^a	-	93%	93%	99%	95%	-	100%	-	-
<i>Staphylococcus saprophyticus</i> (169)	-	-	89% ^a	-	-	-	96%	-	-	100%	100% ^b	100% ^b
Other Coagulase Negative Staphylococci (661)	-	-	48% ^a	-	52%	78%	68%	82%	-	100%	-	-
<i>Streptococcus pyogenes</i> & other β-haem Strep (89)	100%	-	-	-	93%	95%	94%	94%	-	100%	-	-
<i>Streptococcus pneumoniae</i> (150)	-	94%	-	100%	90%	-	61%	95%	-	100%	-	-
<i>Enterococcus faecalis</i> (422)	-	99%	R	R	R	R	R	R	-	100%	100% ^b	89% ^b
<i>Enterococcus faecium</i> (118)	-	3%	R	R	R	R	R	R	-	100%	60% ^b	6% ^b

^a *Staphylococcus* flucloxacillin result predicts susceptibility to amoxicillin-clavulanate, cephalexin, cephalozin, and ceftriaxone; ^b Susceptibility results apply to uncomplicated lower urinary tract infection only.