

Antimicrobial Susceptibility Report: Whanganui 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 (2238)	-	90% ^a	50%	94% ^a	-	-	-	-	-	-	-	73% ^a	-	90%	99% ^a
<i>Escherichia coli</i> – other sites (59)	-	-	71%	-	80%	83%	-	100%	100%	93%	95%	-	71%	78%	-
ESBL <i>Escherichia coli</i> (99) ^d	R	-	-	R	R	R	R	-	100%	77%	73%	31% ^a	34%	26%	100% ^a
<i>Klebsiella pneumoniae</i> – urinary isolates (148)	R	88% ^a	69%	93% ^a	-	-	-	-	-	-	-	88% ^a	-	93%	-
<i>Proteus mirabilis</i> – urinary isolates (112)	-	99% ^a	93%	97% ^a	-	-	-	-	-	-	-	83% ^a	-	99%	R
<i>E. cloacae</i> , <i>K. aerogenes</i> , <i>C. freundii</i> , <i>S. marcescens</i> & <i>M. morgani</i> (169)	R	R	R	R	R	78% ^b	83% ^b	84%	99%	97%	92%	90% ^a	93%	96%	^e
<i>Pseudomonas aeruginosa</i> (274)	R	R	R	R	R	R	90%	90%	97%	-	100%	R	R	91%	R
<i>Haemophilus influenzae</i> (66) ^c	77%	-	82%	-	-	100%	-	-	-	-	-	-	77%	-	-

^a Susceptibility results apply to uncomplicated lower urinary tract infection only; ^b*E. cloacae*, *K. aerogenes*, *S. marcescens*, *M. morgani*, and *C. freundii* may develop resistance during treatment with third generation cephalosporins. ^c 96% *Haemophilus influenzae* were susceptible to tetracycline/doxycycline; ^d 90% and 93% of isolates susceptible (uncomplicated UTI breakpoints) to Fosfomycin and Mecillinam respectively; ^e *Serratia* and *Morganella* species intrinsically resistant to nitrofurantoin.

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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 (2389)	-	-	89% ^a	-	91%	93%	98%	97%	89%	100%	-	-
Methicillin-resistant <i>Staphylococcus aureus</i> (259)	R	R	R ^a	R	81%	88%	100%	90%	59%	100%	-	-
<i>Staphylococcus lugdunensis</i> (60)	-	-	73% ^a	-	95%	97%	100%	98%	-	100%	-	-
<i>Staphylococcus saprophyticus</i> (65)	-	-	93% ^a	-	-	-	93%	-	-	100%	100% ^c	100% ^c
Other Coagulase Negative Staphylococci (254)	-	-	46% ^a	-	58%	83%	67%	86%	-	100%	-	-
<i>Streptococcus pyogenes</i> & other β-haem Strep (47)	100%	-	-	-	91%	93%	97%	71%	-	100%	-	-
<i>Streptococcus pneumoniae</i> (53)	-	94%	-	100%	94%	-	83%	95%	-	100%	-	-
<i>Enterococcus</i> species (230) ^b	-	86% ^b	R	R	R	R	R	R	-	100%	95% ^c	72% ^c

^a *Staphylococcus* flucloxacillin result predicts susceptibility to amoxicillin-clavulanate, cephalexin, cephalosporin, and ceftriaxone; ^b Expect majority *E. faecalis* to be amoxicillin susceptible and majority *E. faecium* to be amoxicillin resistant; ^c Susceptibility results apply to uncomplicated lower urinary tract infection only.