

Antimicrobial Susceptibility Report: Whanganui isolates 1 Jan – 31 Dec 2022

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

Gram negative isolates

Organism (number tested)	Amoxycillin	Amoxi-clav (uncomplicated UTI)	Amoxi-clav (other)	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 (2255)	-	91% ^a	53%	95% ^a	-	-	-	-	-	-	-	75% ^a	-	91%	98% ^a
<i>Escherichia coli</i> – blood culture isolates (56)	-	-	64%	-	89%	93%	-	93%	100%	100%	100%	-	73%	89%	-
ESBL <i>Escherichia coli</i> (83) ^d	R	-	-	R	R	R	R	-	100%	81%	81%	25% ^a	23%	20%	99% ^a
<i>Klebsiella pneumoniae</i> – urinary isolates (143)	R	94% ^a	77%	94% ^a	-	-	-	-	-	-	-	80% ^a	-	90%	-
<i>Proteus mirabilis</i> – Urinary isolates (107)	-	98% ^a	94%	99% ^a	-	-	-	-	-	-	-	81% ^a	-	100%	R
<i>E. cloacae</i> , <i>K. aerogenes</i> , <i>C. freundii</i> , <i>S. marcescens</i> & <i>M. morganii</i> (166)	R	R	R	R	R	83% ^b	82% ^b	84%	100%	99%	96%	91% ^a	96%	96%	- ^e
<i>Pseudomonas aeruginosa</i> (281)	R	R	R	R	R	R	91%	94%	97%	-	98%	R	R	89%	R
<i>Haemophilus influenzae</i> (73) ^c	60%	-	67%	-	-	97%	-	-	-	-	-	-	81%	-	-

^a Susceptibility results apply to uncomplicated lower urinary tract infection only; ^b*E. cloacae*, *K. aerogenes*, *S. marcescens*, *M. morganii*, and *C. freundii* may develop resistance during prolonged treatment with third generation cephalosporins. ^c 96% *Haemophilus influenzae* were susceptible to tetracycline/doxycycline; ^d 90% and 93% of isolates susceptible (uncomplicated UTI) 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	Amoxycillin	Flucloxacillin ^a	Ceftriaxone	Erythromycin	Clindamycin	Cotrimoxazole	Doxycycline	Fusidic acid	Vancomycin	Nitrofurantoin (uncomplicated UTI)	Ciprofloxacin (uncomplicated UTI)
<i>Staphylococcus aureus</i> – all (1961)	-	-	91% ^a	-	91%	93%	98%	96%	89%	100%	-	-
Methicillin-resistant <i>Staphylococcus aureus</i> (170)	R	R	R ^a	R	74%	78%	100%	81%	67%	100%	-	-
<i>Staphylococcus lugdunensis</i> (49)	-	-	76% ^a	-	98%	98%	100%	100%	-	100%	-	-
<i>Staphylococcus saprophyticus</i> (65)	-	-	97% ^a	-	-	-	95%	-	-	100%	100% ^c	100% ^c
Other Coagulase Negative Staphylococci (189)	-	-	56% ^a	-	56%	86%	76%	89%	-	100%	-	-
<i>Streptococcus pyogenes</i> & other β-haem Strep	100%	-	-	-	-	-	-	-	-	100%	-	-
<i>Streptococcus pneumoniae</i> (27)	-	100%	-	100%	92%	-	56%	85%	-	100%	-	-
<i>Enterococcus</i> species (205) ^b	-	88% ^b	R	R	R	R	R	R	-	100%	97% ^c	80% ^c

^a *Staphylococcus* flucloxacillin result predicts susceptibility to amoxicillin-clavulanate, cephalexin, cephalosin, 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.