

Tauranga/Whakatane/Rotorua Hospital cumulative antibiotic susceptibilities (antibiogram)
 (Compiled January 2023, based on 2022 annual data)



Numbers denote % susceptible

Organism group	Number tested	Common usage (1st line) antibiotics											Number tested	Restricted (2nd line) antibiotics						
		Penicillin	Amoxicillin	Amoxicillin+clavulanate	Flucloxacillin	Cephalexin	Cefuroxime	Erythromycin	Co-trimoxazole	Doxycycline	Ceftriaxone	Trimethoprim*		Nitrofurantoin*	Clindamycin	Ciprofloxacin	Ceftazidime	Piperacillin-tazobactam	Meropenem	Gentamicin
Non-urine isolates																				
<i>Staphylococcus aureus</i>	2202			S^	89	S^	S^	90	99	99					27 [#]	85				
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	255	R	R	R	R	R	R	85	100	97	R				9 [#]	89				
<i>Streptococcus pyogenes</i> (Group A)	26 [#]	S	S	S	S	S	S	100							26 [#]	100				
Beta haemolytic streptococci Groups B, C and G	45	S	S	S	S	S	S	69							45	68				
<i>Haemophilus influenzae</i>	266		69	87					72	98	S									
<i>E. coli</i>	242		45	60				74	74		81				236	83		93	99	94
<i>Pseudomonas aeruginosa</i>	185	R	R	R	R	R	R	R	R	R	R				185	71	83	92	82	
Bacteraemic isolates																				
<i>E. coli</i> (ESBL-positive = 6.0%)	613		47	60	R			87	R	72		91			613	88		97	100	92
<i>Klebsiella pneumoniae</i> (ESBL-positive = 27.4%)	124		R	50	R			57	R	55		60			124	69			98	60
Other Enterobacterales	202		26	52	R			73	R	95		94			202	97		94	100	100
<i>Pseudomonas aeruginosa</i>	37	R	R	R	R	R	R	R	R	R	R				37	73	89	95	100	
<i>Staphylococcus aureus</i>	265				94				92	100	99				84 [#]	85				100
<i>Streptococcus pyogenes</i> (Group A)	34	100							97			S			34	97				
Beta haemolytic streptococci Groups B, C and G	97	100							80			S			97	80				
<i>Streptococcus pneumoniae</i>	91	98	S						95	76	95	S								
<i>Enterococcus</i> spp	70		93		R	R	R	R					R		43					100
Urine isolates																				
<i>E. coli</i> (ESBL-positive = 4.9%)	1999		53	80	R	92						76	99		1999	90				
ESBL-positive <i>E. coli</i>	97		R		R	R	R		46			R	40	99		97	34		100	62
<i>Klebsiella</i> spp (ESBL-positive = 20.9%)	369		R	73	R	73						68	71		369	84				
ESBL-positive <i>Klebsiella</i> spp	77		R		R	R	R		7			R	1	27		77	51		93	12
<i>Proteus mirabilis</i>	134		91	98	R	100						81	R							
ESCPPM [§] Enterobacterales	34		R	R	R	R			87			79			34	94				
<i>Pseudomonas aeruginosa</i>	125	R	R	R	R	R	R		R		R	R	R		125	90	89	95	91	
<i>Enterococcus</i> spp	73		85		R	R	R						S		29					100
<i>Staphylococcus saprophyticus</i>	63			S^	S^	S^	S^		100			100	100							

*Uncomplicated UTI isolates only

^ *Staphylococcus* species that are flucloxacillin susceptible can be considered susceptible to amoxicillin-clavulanate, cephalosporins, cephalexin, cefaclor, and cefuroxime.

Caution needed in interpreting these results as low number of isolates and testing usually performed on multi-resistant isolates.

S = Not specifically tested but known to be ordinarily susceptible

R = intrinsically resistant

§ = *Enterobacter* spp., *Serratia* spp., *Citrobacter freundii* family, *Providencia* spp., *Proteus* spp. (excluding *P. mirabilis*), *Morganella morganii*, *Yersinia enterocolitica*