

Tauranga/Whakatane/Rotorua Hospital cumulative antibiotic susceptibilities (antibiogram)

(Compiled January 2024, based on 2023 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
Non-urine isolates																			
<i>Staphylococcus aureus</i>	2575			S^	88	S^	S^	90	99	98				39 [#]	82				
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	297	R	R	R	R	R	R	83	100	97	R			7 [#]	67				
<i>Streptococcus pyogenes</i> (Group A)	70 [#]	S	S	S	S	S	S	97						70 [#]	97				
Beta haemolytic streptococci Groups B, C and G	47 [#]	S	S	S	S	S	S	91						49 [#]	96				
<i>Haemophilus influenzae</i>	254		74	91					78	99	S								
<i>E. coli</i> (ESBL-positive = 3.2%)	187		60	67			91		84		93			187	93		94	100	95
<i>Pseudomonas aeruginosa</i>	229	R	R	R	R	R	R	R	R	R	R			229	83	85	92	85	
Bacteraemic isolates																			
<i>E. coli</i> (ESBL-positive = 5.5%)	471		49	59	R		90	R	75		92			471	90		96	100	95
<i>Klebsiella pneumoniae</i> (ESBL-positive = 17.1%)	129		R	76	R		77	R	73		79			129	88			100	80
Other Enterobacteriales	164		26	49	R		61	R	90		91			161	96		92	100	97
<i>Pseudomonas aeruginosa</i>	37	R	R	R	R	R	R	R	R	R	R			37 [#]	81	84	86	86	
<i>Staphylococcus aureus</i>	317				90			92	100	99				188	91				100
<i>Streptococcus pyogenes</i> (Group A)	69	100					100				S			65	100				
Beta haemolytic streptococci Groups B, C and G	98	100					80				S			98	84				
<i>Streptococcus pneumoniae</i>	103	98	S				89	73	89	S									
<i>Enterococcus</i> spp	41 [#]		90		R	R	R	R			R			29					100
Urine isolates																			
<i>E. coli</i> (ESBL-positive = 4.9%)	2270		51	80	R	91						75	98	2270	90				
ESBL-positive <i>E. coli</i>	111		R		R	R	R		48		R	39	95	111	37			100	64
<i>Klebsiella</i> spp (ESBL-positive = 18.5%)	405		R	73	R	75						71	76	405	84				
ESBL-positive <i>Klebsiella</i> spp	75 [#]		R		R	R	R		12		R	7	53	75 [#]	50			100	26
<i>Proteus mirabilis</i>	183		90	98	R	98						78	R						
ESCPM [§] Enterobacteriales	137		R	R	R	R			91			83		137	94				
<i>Pseudomonas aeruginosa</i>	128	R	R	R	R	R	R	R	R		R	R	R	128	89	89	96	94	
<i>Enterococcus</i> spp	69 [#]		80		R	R	R				R		94						100
<i>Staphylococcus saprophyticus</i>	88			S^	S^	S^	S^		99			95	100						

*Uncomplicated UTI isolates only

^ *Staphylococcus* species that are flucloxacillin susceptible can be considered susceptible to amoxicillin-clavulanate, cephazolin, 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*