

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

(Compiled January 2022, based on 2021 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
<b>Non-urine isolates</b>																				
<i>Staphylococcus aureus</i>	2387			S^	89	S^	S^	90	99	98					22 <sup>#</sup>	86				
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	265	R	R	R	R	R	R	83	99	97	R				6 <sup>#</sup>	67				
<i>Streptococcus pyogenes</i> (Group A)	20 <sup>#</sup>	S	S	S	S	S	S	95							20 <sup>#</sup>	95				
Beta haemolytic streptococci Groups B, C and G	36	S	S	S	S	S	S	89							36	92				
<i>Haemophilus influenzae</i>	154		80	93					80	96	S									
<i>E. coli</i>	186		48	60				85	78		93				186	89		95	100	94
<i>Pseudomonas aeruginosa</i>	183	R	R	R	R	R	R	R	R	R	R				183	81	92	97	92	
<b>Bacteraemic isolates</b>																				
<i>E. coli</i> (ESBL-positive = 5.0%)	643		51	62	R		90	R	81		93				643	87		97	100	94
<i>Klebsiella pneumoniae</i> (ESBL-positive = 30.0%)	120		R	45	R		47	R	43		47					53			100	54
Other Enterobacterales	167		23	52	R		68	R	96		95				67	98		95	100	98
<i>Pseudomonas aeruginosa</i>	44	R	R	R	R	R	R	R	R	R	R				44	84	80	95	91	
<i>Staphylococcus aureus</i>	336				91			86	100	100					11 <sup>#</sup>	100				100
<i>Streptococcus pyogenes</i> (Group A)	41	100						100			S				41	100				
Beta haemolytic streptococci Groups B, C and G	137	100						99			S				137	82				
<i>Streptococcus pneumoniae</i>	64	95	S					92	75	92	S									
<i>Enterococcus</i> spp	65		85		R	R	R	R			R				49					100
<b>Urine isolates</b>																				
<i>E. coli</i> (ESBL-positive = 3.6%)	2091		56	83	R	92					75	99			2091	91				
ESBL-positive <i>E. coli</i>	76	R			R	R	R		34		R	33	91		76	31			100	49
<i>Klebsiella</i> spp (ESBL-positive = 30.8%)	396	R		57	R	57						54	63		131	62				
ESBL-positive <i>Klebsiella</i> spp	122	R			R	R	R		7		R	4	35		122	17			100	18
<i>Proteus mirabilis</i>	152		91	99	R	100						85	R							
ESCPPM <sup>§</sup> Enterobacterales	167		R	R	R	R			88			88			83	96				
<i>Pseudomonas aeruginosa</i>	131	R	R	R	R	R	R	R	R	R	R	R	R		131	81	85	98	92	
<i>Enterococcus</i> spp	69		87		R	R	R				R		S		22					100
<i>Staphylococcus saprophyticus</i>	52			S^	S^	S^	S^		97			92	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*