

HNELHD Cumulative Antibigram 2019: John Hunter Hospital

Blood Culture Isolates

Organism	Antibiotic	Ampicillin	Amoxicillin and clavulanate	Cefazolin	Gentamicin	Amikacin	Tobramycin	Piperacillin and tazobactam	Ceftriaxone	Cefepime	Ceftazidime	Ciprofloxacin	Meropenem	Linezolid	Vancomycin	Teicoplanin	Sulfamethoxazole and trimethoprim	Benzylicillin	Flucloxacillin
<i>Escherichia coli</i>	% susceptible	55.6	75.6	64.0	91.0	97.6	90.2	90.6	88.8	85.7	88.1	87.1	100				76.4		
	Number of isolates	178	176	178	178	167	173	170	178	49	177	178	178				178		
<i>Klebsiella pneumoniae</i>	% susceptible	0	89.1	80.4	97.8	97.8	95.7	81.8	93.5	100	95.7	88.9	100				91.3		
	Number of isolates	46	46	46	46	46	46	44	46	21	46	45	45				46		
<i>Enterobacter species</i>	% susceptible	0	0	0	90.3	100	90.3	77.4	76.7	92.3	76.7	90.3	93.6				80.7		
	Number of isolates	31	30	31	31	31	31	31	30	13	30	31	31				31		
Other <i>Enterobacteriales</i>	% susceptible	26	46.0	17.6	94.0	96.0	87.5	98.0	94.0	100	94.0	98.0	100				94.0		
	Number of isolates	50	50	51	50	50	48	50	50	15	50	50	50				50		
<i>Pseudomonas aeruginosa</i>	% susceptible				100	100	100	96		100	96	92	95.8						
	Number of isolates				25	25	25	25		12	25	25	24						
<i>Staphylococcus aureus</i>	% susceptible	*	*	*	96.4	*	*	*				85.7	0	100	100	100	98.4	22.3	86.0
	Number of isolates				28							28	0	21	29	21	121	121	121
<i>β-haemolytic Streptococci</i>	% susceptible	*	*	*				*	*	*	*		*	100	100	100	100	100	*
	Number of isolates													3	37	3	3	37	
<i>Enterococcus species</i>	% susceptible	78.6	*					*						100	79.5	84.4			
	Number of isolates	42										0		32	44	32			

LEGEND	
	>90% susceptible
	70-89% susceptible
	<70% susceptible or intrinsically resistant
	Insufficient data: Gram positive organism
	Insufficient data: Gram negative organism
	Use with caution in children
	Routinely reported antimicrobials
	Restricted or 2nd line antimicrobials
	Extrapolated from other susceptibilities

Other *Enterobacteriales*

- Serratia marcescens*
- Hafnia alvei*
- Morganella morganii*
- Klebsiella oxytoca*
- Proteus mirabilis*
- Pantoea agglomerans*

HNELHD Cumulative Antibigram 2019: John Hunter Hospital		Urine Isolates																					
Organism	Antibiotic	Ampicillin	Amoxicillin and clavulanate	Amoxicillin and clavulanate (Urine)	Cefazolin	Cefazolin (Urine)	Trimethoprim	Sulfamethoxazole and trimethoprim	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Piperacillin and tazobactam	Ceftriaxone	Ceftazidime	Cefepime	Meropenem	Ciprofloxacin	Norfloxacin	Vancomycin	Doxycycline	Flucloxacillin	Benzylpenicillin
<i>Escherichia coli</i>	% susceptible	57.5	73.7	77.6	60.4	84.5	77.3	72.4	98.9	95.0	87.9	98.9	90.6	94.2	93.4	89.7	100	85.5	88.0				
	Number tested	1,505	1,488	424	1,460	788	1,505	591	1,499	1,502	622	619	627	1,504	1,426	585	690	1,048	1,494				
<i>Klebsiella pneumoniae</i>	% susceptible	0	92.2	90.4	75.8	91.5	86.3	90.2		98.1	94.1	97.1	87.4	97.1	95.9	97.9	100	90.3	90.7				
	Number tested	206	204	52	198	106	204	92		206	102	102	103	206	197	93	111	145	204				
<i>Klebsiella oxytoca</i>	% susceptible	0	82.8	73.1	8.9	28.6	93.1	93.8		100	100	100	71.4	87.9	100	100	100	100	98.2				
	Number tested	58	58	26	56	28	58	32		58	34	34	35	58	57	33	35	49	56				
<i>Citrobacter koseri/amalonicus</i> complex	% susceptible	0	94.3		87.9		97.1			97.1				97.1	97.0			95.7	96.9				
	Number tested	33	35		33		34			34				34	33			23	32				
<i>Proteus mirabilis</i>	% susceptible	84.6	93.3	87.5	48.5	90.2	85.6	79.5		96.2	95.1	97.6	100	99.0	99.0	100	100	96.9	98.1				
	Number tested	104	104	24	99	51	104	39		104	41	41	41	102	100	39	45	65	104				
<i>Enterobacter cloacae</i> complex	% susceptible	0	0	0	0	0	63.1	62.7		81.0	75.0	95.5	56.1	61.9	63.1	78.0	90.5	79.2	77.4				
	Number tested	83	84	35	83	35	84	59		84	68	67	66	84	83	59	74	77	84				
Other Amp C carrying <i>Enterobacteriales</i>	% susceptible	0	0	0	0	0	0	90.4		91.9	80.0	95.3	76.2	79.7	76.7	97.3	98.0	96.2	95.9				
	Number tested	122	122	42	121	42	123	73		123	85	85	84	123	120	74	98	104	123				
<i>Pseudomonas aeruginosa</i>	% susceptible									91.8	97.0	92.1	88.5		97.5	93.9	92.4	89.7	95.6				
	Number tested									196	101	101	104		196	118	118	155	114				
<i>Staphylococcus aureus</i>	% susceptible	*	*	*	*	*	96.4	100		100			*					87.0		100	95.4	93.3	25.5
	Number tested						55	23		23								23		24	43	60	55
<i>Staphylococcus saprophyticus</i>	% susceptible		*	*	*	*	95.5		100				*									87.0	
	Number tested						44		46													46	
Other <i>Enterococcus</i> species	% susceptible	99.0	*	*					100				*							89.5	98.5		
	Number tested	300							292											171	130		
<i>Enterococcus faecium</i>	% susceptible	1.8	*	*									*							49.1			
	Number tested	56																		57			

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Other AmpC carrying *Enterobacteriales*
Citrobacter braakii
Citrobacter freundii complex
Citrobacter species
Proteus vulgaris
Proteus penneri
Hafnia alvei
Enterobacter aerogenes
Enterobacter species
Morganella morganii
Serratia species
Providencia species

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Other Isolates

Organism	Antibiotic	Ampicillin	Amoxicillin and clavulanate	Cefazolin	Sulfamethoxazole and trimethoprim	Gentamicin	Tobramycin	Amikacin	Ceftriaxone	Cefepime	Ceftazidime	Piperacillin and tazobactam	Meropenem	Ciprofloxacin	Vancomycin	Teicoplanin	Linezolid	Daptomycin	Fusidic acid	Rifampicin	Clindamycin	Erythromycin	Mupirocin (topical)	Doxycycline	Benzylenicillin	Flucloxacillin	
<i>Staphylococcus aureus</i>	% susceptible Number tested	* 1828	* 1828	* 1828	97.4 1828	97.8 1238						*		91.4 1237	100 1236	98.2 1099	100 1103	99.9 1102	96.8 1233	99.5 1230	83.9 1105	82 1828	97.4 1821	96.0 1828	15.9 1823	81.6 1829	
<i>Streptococcus pneumoniae</i>	% susceptible Number tested	*	*	*								*										78.7 89	85.9 89	79.8 89	82.1 156		
<i>Streptococcus pyogenes</i> (Group A)	% susceptible Number tested	*	*	*								*	0		100 170									170 170	100 170	*	
<i>Streptococcus dysgalactiae</i> (Group C)	% susceptible Number tested	*	*	*								*			100 76									92.3 78	100 78	*	
<i>Enterococcus faecalis</i>	% susceptible Number tested	100 66	*									*			100 64	100 37	100 37	100 34									
<i>Enterococcus faecium</i>	% susceptible Number tested	100 37	*									*			100 41	100 35	100 36										
<i>Escherichia coli</i>	% susceptible Number tested	47.5 219	74.8 210	60.3 209	77.9 217	92.2 219	92.1 216	98.6 217	88.1 219	92.5 186	86.3 219	89.4 216	100 219	85.8 219													
<i>Klebsiella pneumoniae</i>	% susceptible Number tested	0 49	93.3 45	82.6 46	91.7 48	97.9 48	97.9 48	97.9 47	91.7 48	93.8 32	93.8 48	87.0 46	100 47	91.7 48													
<i>Klebsiella oxytoca</i>	% susceptible Number tested	0 40	85.0 40	15.4 39	97.4 39	95.0 40	95.0 40	97.5 40	85.0 40	96.9 32	92.5 40	87.2 39	97.5 40	92.5 40													
<i>Prateus mirabilis</i>	% susceptible Number tested	78.8 33	93.6 31	65.5 31	87.9 33	93.9 33	97.0 33	100 33	100 33	100 22	97.0 33	100 30	100 33	97.0 33													
<i>Enterobacter cloacae</i> complex	% susceptible Number tested	0 100	0 100	0 101	89.1 101	93.1 101	93.1 101	100 101	67.3 101	82.5 80	68.3 101	65.6 96	98.0 101	93.1 101													
<i>Serratia marcescens</i>	% susceptible Number tested	0 59	0 59	0 60	100 60	98.3 60	72.9 60	98.3 60	98.3 60	100 45	100 60	96.6 58	100 60	98.3 60													
Other AMPC producing Enterobacteriales	% susceptible Number tested	0 63	0 62	0 62	98.4 63	95.2 63	95.2 63	98.4 63	83.9 62	98.4 53	98.1 63	81.0 59	98.4 63	96.8 63													
<i>Pseudomonas aeruginosa</i>	% susceptible Number tested					80.0 455	89.4 453	80.6 454		84.3 376	87.3 455	85.6 395	86.8 455	85.5 455													
<i>Haemophilus influenzae</i>	% susceptible Number tested	61.0 290	84.1 289		74.8 290					96.2 289		*													99.3 289		
<i>Moraxella catarrhalis</i>	% susceptible Number tested	2.0 49	100.0 70							98.6 70		*													97.1 70	98.6 70	

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