

HNELHD Cumulative Antibigram 2019: Hunter, Lower Hunter and Greater Newcastle Sectors

Blood Culture Isolates

Organism	Antibiotic	Ampicillin	Amoxicillin and clavulanate	Cefazolin	Gentamicin	Amikacin	Tobramycin	Piperacillin and tazobactam	Ceftriaxone	Cefepime	Ceftazidime	Ciprofloxacin	Meropenem	Vancomycin	Sulfamethoxazole and trimethoprim	Benzylpenicillin	Flucloxacillin
<i>Escherichia coli</i>	% susceptible	44.9	79.4	53.4	92.7	99.4	93.2	92.5	90.9	93.0	90.1	84.8	100		75.6		
	Number tested	165	165	163	165	159	161	160	165	43	162	164	164		164		
<i>Klebsiella</i> species	% susceptible	0	92.9	69.1	100	100	100	92.7	95.2		97.6	97.6	100		97.6		
	Number tested	42	42	42	42	41	42	41	42		42	41	42		41		
Other <i>Enterobacterales</i>	% susceptible	24.2	30.3	12.1	87.5	97.0	81.8	87.5	87.9		87.5	93.9	97.0		90.9		
	Number tested	33	33	33	32	33	33	32	33		32	33	33		33		
<i>Staphylococcus aureus</i>	% susceptible	*	*	*				*							97.5	26.8	90.2
	Number tested														81	82	82
<i>Streptococcus pneumoniae</i>	% susceptible	*	*	*				*								91.1	
	Number tested															23	
β-haemolytic Streptococci	% susceptible	*	*	*				*						100		100	*
	Number tested													57		57	

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

***Klebsiella* Species**
Klebsiella pneumoniae
Klebsiella oxytoca

Other *Enterobacterales*
Proteus mirabilis
Pantoea species
Citrobacter koseri/amalonicus complex
Citrobacter freundii complex
Enterobacter asburiae
Enterobacter cloacae complex
Morganella morganii
Serratia marcescens
Providencia rettgeri
Providencia stuartii

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Urine Isolates

Organism	Antibiotic	Ampicillin	Amoxicillin and clavulanate	Amoxicillin and clavulanate (Urine)	Cefazolin	Cefazolin (Urine)	Nitrofurantoin	Trimethoprim	Sulfamethoxazole and trimethoprim	Gentamicin	Tobramycin	Amikacin	Ceftriaxone	Cefepime	Ceftazidime	Piperacillin and tazobactam	Meropenem	Ciprofloxacin	Norfloxacin	Teicoplanin	Vancomycin	Benzylpenicillin	Flucloxacillin
<i>Escherichia coli</i>	% susceptible	85.1	71.7	83.4	87.1	87.3	98.6	78.4	70.8	96.0	90.2	98.7	94.2	89.1	93.7	90.6	100.0	86.2	88.6				
	Number tested	1,680	1,664	459	1,581	931	1,679	1,679	607	1,679	635	636	1,667	603	1,595	640	722	1,104	1,671				
<i>Proteus mirabilis</i>	% susceptible	88.0	95.1		53.8	93.5		84.3		96.4	97.1	100	98.8	96.7	98.8	97.1	100	98.0	98.8				
	Number tested	83	82		80	46		83		83	35	34	82	30	80	35	35	51	83				
<i>Klebsiella pneumoniae</i>	% susceptible	0	92.1	96.2	69.0	91.9		89.6	92.3	98.2	96.5	100	95.7	92.5	94.3	88.2	100	88.5	88.9				
	Number tested	164	164	52	158	99		163	78	164	86	86	164	80	159	85	88	122	162				
<i>Klebsiella oxytoca</i>	% susceptible	0	88.9					98.2		100			92.5		100			100	100				
	Number tested	55	54					55		55			53		49			36	54				
<i>Enterobacter cloacae</i> complex	% susceptible							66.7		76.1	73.0	94.6	60.9	80	67.4	52.8	100	75.6	73.9				
	Number tested							45		46	37	37	46	30	46	36	39	41	46				
<i>Klebsiella (Enterobacter) aerogenes</i>	% susceptible							97.0		100			69.7		67.7	65.2			90.9				
	Number tested							33		33			33		31	23			33				
Other AmpC producing <i>Enterobacteriales</i>	% susceptible							86.4	85.7	89.8	76.1	97.8	81.4	93.0	74.6	87.0	96.0	84.3	86.4				
	Number tested							59	42	59	46	46	59	43	59	46	50	51	59				
<i>Pseudomonas aeruginosa</i>	% susceptible									93.8	100	95.2		94.9	96.4	96.8	94.5	88.8					
	Number tested									113	62	62		59	112	63	73	89					
<i>Staphylococcus aureus</i>	% susceptible	*	*	*	*	*		97.6								*						18.0	87.0
	Number tested							41														39	46
<i>Enterococcus</i> species	% susceptible	85.5	*	*			98.1									*			88.3	85.4	83.9		
	Number tested	249					212												111	130	137		
<i>Staphylococcus saprophyticus</i>	% susceptible		*	*	*	*	100									*							
	Number tested						51																92.2
							50																51

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Other AmpC-Producing Enterobacteriales
Enterobacter hormaechei
Enterobacter species
Providencia species
Serratia marcescens
Morganella morganii
Citrobacter freundii complex

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Other Isolates

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<i>Staphylococcus aureus</i>	% susceptible Number tested	* 1,121	* 1,121	* 1,121	98.5 1,121	98.1 753			*					94.6 761	100 759	99.0 680	100 675	100 678	95.9 760	100 761	95.8 1,114	95.9 1,121	87.9 678	86.8 1,120	82.3 1,121	15.7 1,118	
<i>Streptococcus pneumoniae</i>	% susceptible Number tested	*	*	*					*													81.82 55	81.82 55	81.82 55	81.82 55	95 40	
<i>Streptococcus pyogenes</i> (Group A)	% susceptible Number tested	*	*	*					*						100 143								77.08 144	90.38 144	90.38 144	90.38 144	100 144
Other β -haemolytic Streptococci	% susceptible Number tested	*	*	*					*						100 86								73.3 86	79.1 86	79.1 86	79.1 86	100 86
<i>Enterococcus</i> species	% susceptible Number tested	57.7 26													65.4 26												
<i>Escherichia coli</i>	% susceptible Number tested	46.3 54	80.8 52	55.8 52	74.1 54	94.4 54	94.3 54	100 54	92.6 54	86.8 53	95.4 43	86.8 53	100 54	81.5 54													
Other <i>Enterobacteriales</i>	% susceptible Number tested	11.3 62	35.0 60	29.0 62	98.4 61	100.0 62	93.3 60	100.0 62	86.9 61	86.9 61	95.3 43	88.7 58	100 62	100 62													
<i>Pseudomonas aeruginosa</i>	% susceptible Number tested					95.4 108	98.1 107	96.3 108	96.1 103	98.9 87	99.1 108	99.1 108	91.7 108														
<i>Haemophilus influenzae</i>	% susceptible Number tested	49.4 158	78.5 158		77.2 158				*	94.9 158												98.7 158				*	

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- Other Enterobacteriales**
- Klebsiella pneumoniae*
 - Klebsiella oxytoca*
 - Pantoea* species
 - Proteus mirabilis*
 - Citrobacter koseri/amalonicus* complex
 - Citrobacter freundii* complex
 - Citrobacter youngae*
 - Morganella morganii*
 - Enterobacter aerogenes*
 - Enterobacter cloacae* complex
 - Serratia* species