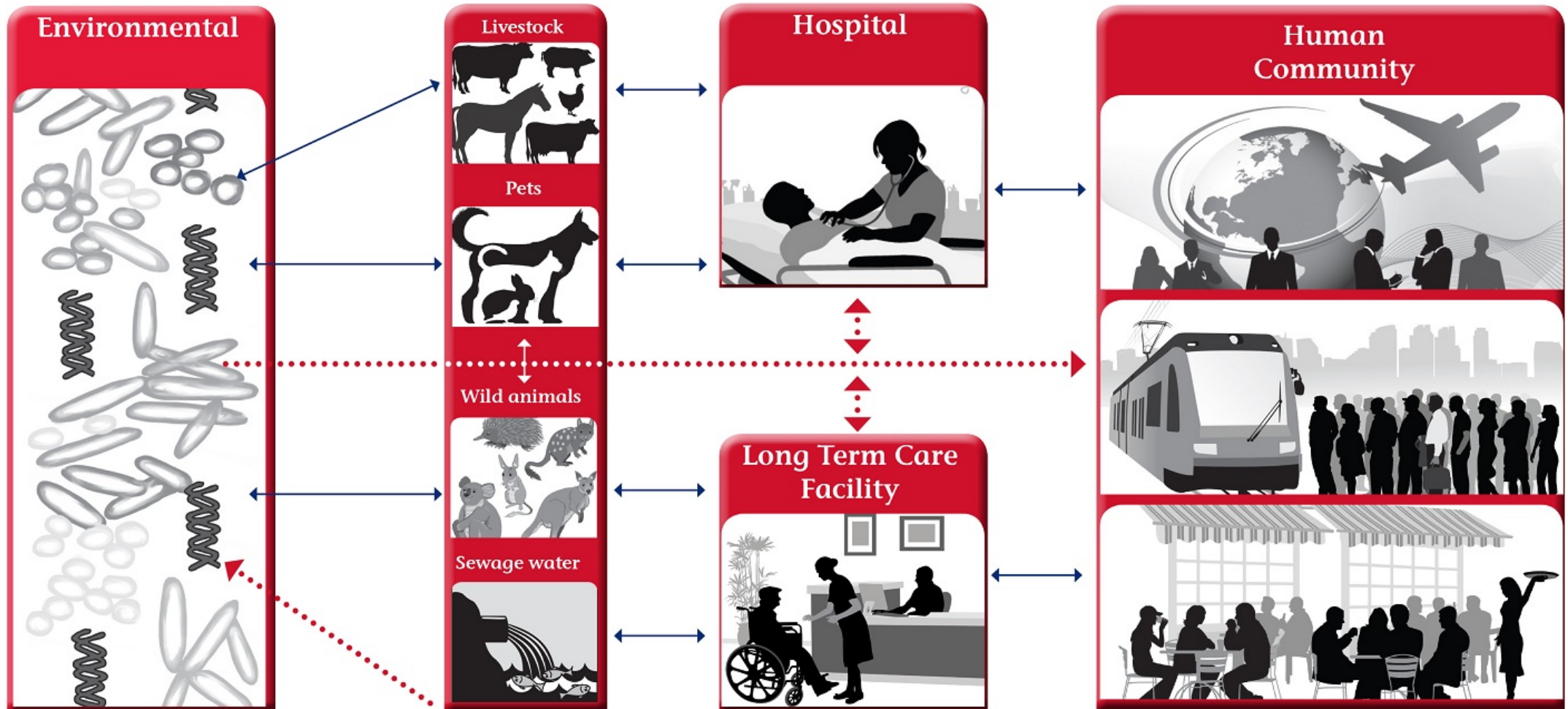


Community Antibioqram Jan - Dec 2017



Community Antibigram Jan - Dec 2017

Cumulative antibiograms from community isolates can be a useful resource to inform empirical therapy recommendations as per Therapeutic Guidelines.

This document provides a cumulative antibiogram of isolates collected from patients in the community. Sullivan Nicolaides pathology services patients from all over Queensland as well as Northern New South Wales.

The data is divided into two parts

1. Urinary Antibigram

Note: only a subset of *S.saprophyticus* isolates have had routine susceptibility performed.

2. Non Urinary Antibigram

Organisms are listed in descending order of frequency.

Organisms are colour coded according to whether they are Gram Positive or Gram Negative.

Only the first isolate of a given species per patient per year per subtype (e.g urine, non urine) is included.

Since 2012, susceptibility testing to produce these antibiograms is performed using EUCAST microbroth dilution and disc diffusion.¹

Expert EUCAST rules in Antimicrobial Susceptibility testing have been applied.²

Where the total number of isolates tested is < 30, results are considered statistically invalid in accordance with CLSI M39-A4.³

Where only a subset (< 95%) of isolates from a particular organism group have been tested, reported susceptibilities are usually not indicative of the true susceptibility because of the selective nature of testing only more resistant isolates. These occasions are marked with an * and susceptibility results should be interpreted with caution.

Signal resistances:

Some important antibiotic resistances have their origin or circulate in the community. At the end of each antibiogram, signal resistances are summarised

These organisms include

- *Enterobacteriaceae* resistant to third or fourth generation cephalosporins due to the presence of Extended Spectrum Beta Lactamases (ESBLs)
- *Enterobacteriaceae* resistant to third or fourth generation cephalosporins due to the presence of Plasmid Mediated AMPC production (PAMPs)
- *Enterobacteriaceae* resistant to carbapenems due to the presence of a plasmid mediated carbapenamase (CPE)
- Non *Enterobacteriaceae* (e.g *Acinetobacter* spp; *Pseudomonas aeruginosa*) resistant to carbapenems due to the presence of a plasmid mediated carbapenamase (CPNE)
- Vancomycin resistant Enterococci (VRE)
- Methicillin resistant *Staphylococcus aureus* (MRSA)
- Vancomycin heteroresistant, intermediate and resistant *Staphylococcus aureus* (hVISA, VISA, VRSA)
- Penicillin intermediate and resistant *Streptococcus pneumoniae* noting that breakpoints differ according to clinical condition (meningitis, pneumonia, other) and mode of administration
- Penicillin intermediate and resistant viridans *Streptococci*

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Colour coding for all antibiograms tables is shown below.

	Gram Positive Organism		≥90% of isolates susceptible		≥90% of isolates susceptible (where sample size <95% of total isolates tested)
	Gram Negative Organism		70-89% of isolates susceptible		70-89% of isolates susceptible (where sample size <95% of total isolates tested)
	Antibiotic Not recommended to be used in children without specialist advice		<70% of isolates susceptible		<70% of isolates susceptible (where sample size <95% of total isolates tested)
	Restricted or 2nd Line Antibiotics	R	Intrinsic Resistance is present with this organism-antibiotic combination	*	Sample size <95% of the total isolates tested
	Restricted or 2nd Line Antibiotics and Antibiotic Not recommended to be used in children without specialist advice	%	Percentage of isolates sensitive to this particular antibiotic	n	Number of isolates tested with this antibiotic

References:

1. http://www.eucast.org/clinical_breakpoints/
2. http://www.eucast.org/expert_rules_and_intrinsic_resistance/
3. Clinical and Laboratory Standards Institute (CLSI). Guideline for Analysis and Presentation of Cumulative Antimicrobial Susceptibility (M39-A4). 3rd ed. Pennsylvania: CLSI, 2014

Community Antibrogram Jan - Dec 2017

Urine Antibrogram			All SNP Community																				
Organism Group	No. Organisms	%Total																					
			Amoxicillin	Amoxicillin-clavulanate	Ticarcillin-clavulanate	Piperacillin-tazobactam	Cefalexin	Ceftriaxone	Ceftazidime	Meropenem	Gentamicin	Amikacin	Trimethoprim	Nitrofurantoin	Norfloxacin	Ciprofloxacin	Fusidic Acid	Rifampicin	Gentamicin (High Level)	Fosfomycin	Quinupristin-dalfopristin	Vancomycin	
All isolates	95487	100																					
Escherichia spp	62864	65.8	%	58	88	64	95	93	92		100	95	99	77	99	92					99		
			n	62853	*5328 5	*3057 3	*3177 1	62690	*3193 1		*3072 6	*3199 0	*3077 5	62851	62813	62863					*2391		
Enterococcus spp	9212	9.6	%	99				10					R	99	96			20	65		45	87	
			n	9209				*10						9189	9197			*176	*181		*179	*210	
Klebsiella spp	7449	7.8	%	R	96	86	91	95	95		100	98	100	90	85	96							
			n		*6163	*3070	*3444	7420	*3459		*3110	*3464	*3117	7447	7442	7449							
Staphylococcus saprophyticus	2438	2.6	%	21	97								93	100	100								
			n	*460	*471								2422	2432	2430								
Proteus mirabilis	2326	2.4	%	89	96	99	100	98	99		100	98	99	86	R	98							
			n	2324	*1964	*1104	*1193	2326	*1199		*1111	*1199	*1114	2326		2326							
Pseudomonas aeruginosa	2136	2.2	%	R	R	44	94	R	R	96	96	96	95	R	R	95	92						
			n			*1790	2132			2136	*1812	2136	*1820			2062	2128						
Enterobacter cloacae complex	1648	1.7	%	R	R	67	80	R	80		99	97	99	86	86	95							
			n			*1192	*1387		*1433		*1222	*1434	*1229	1648	1646	1648							
Citrobacter koseri, amalonaticus	1364	1.4	%	R	97	94	96	94	98		100	99	100	98	96	99							
			n		*1125	*626	*690	1362	*691		*633	*694	*633	1364	1360	1364							
β haemolytic Streptococci Group B	1300	1.4	%	100					100					91	100	75						100	
			n	1300					*14					1300	1294	*1008						*15	
Enterobacter aerogenes	1001	1.0	%	R	R	82	83	R	86		100	99	100	97	72	97							
			n			*733	*788		*790		*742	*791	*743	1001	1001	1001							

Community Antibiogram Jan - Dec 2017

Urine Antibiogram			All SNP Community																				
Organism Group	No. Organisms	%Total																					
			Amoxicillin	Amoxicillin-clavulanate	Ticarcillin-clavulanate	Piperacillin-tazobactam	Cefalexin	Ceftriaxone	Ceftazidime	Meropenem	Gentamicin	Amikacin	Trimethoprim	Nitrofurantoin	Norfloxacin	Ciprofloxacin	Fusidic Acid	Rifampicin	Gentamicin (High Level)	Fosfomycin	Quinupristin-dalfopristin	Vancomycin	
All isolates	95487	100																					
Coagulase negative Staphylococci	770	0.8	%	22	73								61	100	89		70	90					100
			n	761	769									766	765	761		*89	*89				
Staphylococcus aureus (ALL)	655	0.7	%	24	88								93	100	94		95	100					100
			n	655	654									646	644	636		*102	*102				
Morganella spp	540	0.6	%	R	R	85	99	R	92		99	96	99	89	R	94							
			n			*492	537		537		*497	537	*498	540		540							
Citrobacter freundii complex	424	0.4	%	R	R	67	76	R	71		100	96	99	89	97	96							
			n			*293	*331		*333		*302	*333	*303	424	424	424							
Serratia spp	353	0.4	%	R	R	93	97	R	97		99	97	98	92	R	93							
			n			*287	346		347		*290	347	*290	353		353							
viridans Streptococci	190	0.2	%	97									65	99	59								
			n	189									190	190	188								
Proteus spp other	120	0.1	%	R	52	100	100	R	84		99	97	100	78	R	99							
			n		*104	*86	*107		*107		*87	*107	*87	120		120							
Providencia spp	92	0.1	%	R	R	98	99	R	95		100	84	99	89	R	99							
			n			*86	92		92		*86	92	*86	92		92							
Acinetobacter spp	84	0.1	%	R	R	91	95	R	R		100	100	99	R	2	82							
			n			*67	*77				*71	84	*71		84	*73							
Miscellaneous GPC†	77	0.1	%	97									21	99	91								
			n	76									*72	77	77								

Community Antibigram Jan - Dec 2017

Urine Antibigram			All SNP Community																				
Organism Group	No. Organisms	%Total																					
			Amoxicillin	Amoxicillin-clavulanate	Ticarcillin-clavulanate	Piperacillin-tazobactam	Cefalexin	Ceftriaxone	Ceftazidime	Meropenem	Gentamicin	Amikacin	Trimethoprim	Nitrofurantoin	Norfloxacin	Ciprofloxacin	Fusidic Acid	Rifampicin	Gentamicin (High Level)	Fosfomycin	Quinupristin-dalfopristin	Vancomycin	
All isolates	95487	100																					
β haemolytic Streptococci Group A	71	0.1	%	100									100	100	89								
			n	71										*65	*65	*64							
Raoultella spp	59	0.1	%	R	93	96	94	93	94		100	97	96	93	97	98							
			n		*41	*24	*35	59	*35		*25	*35	*25	59	59	59							
Miscellaneous Enterobacteriaceae†	53	0.1	%	32	80	85	80	72	95		100	100	100	92	91	96							
			n	53	*49	*34	*40	53	*42		*36	*42	*36	53	53	53							
Salmonella spp	53	0.1	%	94	98				92				98	100	98								
			n	53	*47				*12				53	53	53								
β haemolytic Streptococci Other (nonA nonB)	44	0.0	%	100									100	100	86								
			n	44										*41	*41	*36							
Pseudomonas spp	30	0.0	%	R	0	0	77	0			57	100	95	3	3	89							
			n		*25	*20	30	30			*21	30	*21	30	30	*19							

Community Antibiogram Jan - Dec 2017

Signal Resistances: Where the tables below contain no data no multiresistant organisms have been detected.

Urine: Extended spectrum beta lactamase producing Enterobacteriaceae (ESBL)

Organism Group	Organism Name	No. Positive	% of Strain
Citrobacter freundii complex n = 424	Citrobacter braakii	1	0.2
	Citrobacter freundii	8	1.9
Citrobacter koseri, amalonaticus n = 1364	Citrobacter koseri	3	0.2
Enterobacter aerogenes n = 1001	Enterobacter aerogenes	4	0.4
Enterobacter cloacae complex n = 1648	Enterobacter cloacae	30	1.8
Escherichia spp n = 62868	Escherichia coli	2155	3.4
Klebsiella spp n = 7450	Klebsiella oxytoca	5	0.1
	Klebsiella pneumoniae	125	1.7
Morganella spp n = 540	Morganella morganii	1	0.2
Proteus mirabilis n = 2327	Proteus mirabilis	4	0.2
Proteus spp other n = 120	Proteus penneri	2	1.7
Raoultella spp n = 59	Raoultella ornithinolytica	1	1.7
Serratia spp n = 353	Serratia marcescens	2	0.6

Urine: Plasmid mediated AMPC producing Enterobacteriaceae (PAMP)

Community Antibigram Jan - Dec 2017

Organism Group	Organism Name	No. Positive	% of Strain
Citrobacter koseri, amalonaticus n = 1364	Citrobacter koseri	7	0.5
Enterobacter aerogenes n = 1001	Enterobacter aerogenes	1	0.1
Enterobacter cloacae complex n = 1648	Enterobacter cloacae	1	0.1
Escherichia spp n = 62868	Escherichia coli	1090	1.7
Klebsiella spp n = 7450	Klebsiella oxytoca	7	0.1
	Klebsiella pneumoniae	31	0.4
Proteus mirabilis n = 2327	Proteus mirabilis	8	0.3
Proteus spp other n = 120	Proteus penneri	4	3.3
	Proteus vulgaris	1	0.8
Raoultella spp n = 59	Raoultella ornithinolytica	1	1.7

Urine: Plasmid mediated Carbapenemase producing Enterobacteriaceae (CPE)

Organism Group	Organism Name	No. Positive	% of Strain
Citrobacter freundii complex n = 424	Citrobacter freundii	1	0.2
Enterobacter cloacae complex n = 1648	Enterobacter cloacae	2	0.1
Escherichia spp n = 62868	Escherichia coli	1	0.0
Klebsiella spp n = 7450	Klebsiella pneumoniae	2	0.0

Urine: Plasmid mediated Carbapenemase producing Non Enterobacteriaceae (CPNE)

Organism Group	Organism Name	No. Positive	% of Strain
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Community Antibigram Jan - Dec 2017

Urine: Vancomycin Resistant Enterococci (VRE)

Organism Group	Organism Name	No. Positive	% of Strain
Enterococcus spp n = 9213	Enterococcus faecalis(VRE) - VAN-A	1	0.0
	Enterococcus faecium (VRE) - VAN-A	9	0.1
	Enterococcus faecium (VRE) - VAN-B	12	0.1

Urine: Methicillin Resistant Staphylococcus aureus (MRSA)

Organism Group	Organism Name	No. Positive	% of Strain
Staphylococcus aureus (ALL) n = 655	S.aureus (non-multiresistant MRSA)	54	8.2
	Staphylococcus aureus (MRSA)	1	0.2
	Staphylococcus aureus (UK EMRSA-15)	23	3.5

Community Antibiogram Jan - Dec 2017

Non-urine Antibiogram

All SNP Community

Organism Group	No. Organisms	%Total	Antibiotics																										
			Penicillin	Amoxicillin	Flucloxacillin	Amoxicillin-clavulanate	Ticarcillin-clavulanate	Piperacillin-tazobactam	Cefalotin	Cefazolin	Ceftriaxone	Ceftazidime	Cefepime	Meropenem	Gentamicin	Amikacin	Sulpha-trimethoprim	Norflloxacin	Ciprofloxacin	Fusidic Acid	Rifampicin	Gentamicin (High Level)	Erythromycin/Clarithromycin	Azithromycin	Clindamycin	Tetracycline	Mupirocin	Quinupristin-dalfopristin	Vancomycin
All isolates	73173	100																											
Staphylococcus aureus (ALL)	41197	56.3	% 18		89	89			89							98		97	92	100		83	84	97	97	90	100		
			n 41179		41190	41158		41193							41192		*38018	*38039	*38039		41195	41171	41192	*34092	*10	*38024			
β haemolytic Streptococci Group A	7897	10.8	% 100					100		99					99						93	95	85					100	
			n 7893					7835		*5002					7894						7894	7889	7893				*5175		
Pseudomonas aeruginosa	7876	10.8	% R	R		52	97		R	R	98	98	98	96	95	R		96											
			n *6182			7868					7870	7625	7872	7876	*6230			7870											
Haemophilus influenzae	4512	6.2	% 68		86					80						71		93							99				
			n 4511		4510					*15					4512		*15							4511					
β haemolytic Streptococci Other (nonA nonB)	1786	2.4	% 100					100		97						100					81	83	72					100	
			n 1786					1769		*864					1786						1784	1781	1785				*896		
Campylobacter spp	1506	2.1	%														74				94	94	81						
			n 1506												1506						1506	1505	1506						
Moraxella catarrhalis	1244	1.7	% 1		100											92					100		100						
			n 1244		1244										1244						1243		1244						
Salmonella spp	1214	1.7	% 91		98					99		100				98	94	96				85	50						
			n 1212		1190					1183		1180			1214	1214	1183					*13	*10						
Streptococcus pneumoniae	1125	1.5	% 62					81		84						72					73	77	76					100	
			n 1121					*86		*676					1123						1122	*1030	1124				*683		

Community Antibigram Jan - Dec 2017

Non-urine Antibigram

All SNP Community

Organism Group	No. Organisms	%Total	Antibiotics																											
			Penicillin	Amoxicillin	Flucloxacillin	Amoxicillin-clavulanate	Ticarcillin-clavulanate	Piperacillin-tazobactam	Cefalotin	Cefazolin	Ceftriaxone	Ceftazidime	Cefepime	Meropenem	Gentamicin	Amikacin	Sulpha-trimethoprim	Norfloxacin	Ciprofloxacin	Fusidic Acid	Rifampicin	Gentamicin (High Level)	Erythromycin/Clarithromycin	Azithromycin	Clindamycin	Tetracycline	Mupirocin	Quinupristin-dalfopristin	Vancomycin	
All isolates	73173	100																												
Aeromonas spp	1108	1.5	%	R		62	86	92		0	99		100	78	100	100	97	97	100									92		
			n			1066	*973	*89		*496	*1045		*1029	*1023	1070	*310	1108	*1034	*1050									*13		
Coagulase negative Staphylococci	517	0.7	%	41		80	80		80								92		94	92	100		79		87	84			100	
			n	515		514	515		516								516	*483	*482	*482		516		516	517			*484		
viridans Streptococci	403	0.6	%	97					100	88							92				100	82		90	69			99		
			n	402					*270	*103						*293					*17	401		400	403			*115		
Escherichia spp	402	0.5	%		53		78	63	94		82	92		94	100	94	98	80		89										
			n	402	402	402	*373	400	402	401	401	401	401	402	*377	402	401	402	401											
Neisseria gonorrhoeae	238	0.3	%	5						100									76				95							
			n	238						238								237				232								
Klebsiella spp	206	0.3	%		R		98	95	96		84	99		99	100	99	100	96		99										
			n			206	*183	205		206	206		205	203	206	*184	206	203												
Corynebacterium spp	184	0.3	%	79						92								66				70		61	99		100			
			n	184					*71								*133				*135		184	184		*126				
Fastidious GNB†	170	0.2	%	91	100		100		100	100	100	100		100	100	85		99		100						99				
			n	*74	166		168		*10	*38	*19		*34	*16	*34		169		*24						*159					
Enterobacter cloacae complex	169	0.2	%		R		R	85	94		R	93		99	100	99	100	95		99										
			n					*143	167		169		167	169	169	*143	169		169											

Community Antibiogram Jan - Dec 2017

Non-urine Antibiogram

All SNP Community

Organism Group	No. Organisms	% Total	Antibiotics																										
			Penicillin	Amoxicillin	Flucloxacillin	Amoxicillin-clavulanate	Ticarcillin-clavulanate	Piperacillin-tazobactam	Cefalotin	Cefazolin	Ceftriaxone	Ceftazidime	Cefepime	Meropenem	Gentamicin	Amikacin	Sulpha-trimethoprim	Norfloxacin	Ciprofloxacin	Fusidic Acid	Rifampicin	Gentamicin (High Level)	Erythromycin/Clarithromycin	Azithromycin	Clindamycin	Tetracycline	Mupirocin	Quinupristin-dalfopristin	Vancomycin
All isolates	73173	100																											
Stenotrophomonas maltophilia	165	0.2	%													97													
			n												165														
Serratia spp	164	0.2	%	R		R	98	100		R	100		100	100	100	99	99		98										
			n				*149	164			163		161	162	164	*149	164		162										
Non fermenting GNB†	162	0.2	%	8		79	94	98		3	57		40	95	33	18	95		57							100			
			n	160		*131	*62	*127		*134	*99		*119	*126	*134	*74	159		160						*52				
Vibrio spp	95	0.1	%	22		97		100		52	100		100	100	100		98		100						99				
			n	92		*32		*24		*50	*78		*32	*24	*28		95		92						95				
Yersinia spp	93	0.1	%	1		6	93	100		0	99		99	100	100	100	99		100										
			n	93		*80	*80	*38		*77	*81		*81	*81	*82	*81	93		*81										
β haemolytic Streptococci Group B	89	0.1	%	99					100		100						99						74		75	23		100	
			n	88					*69		*58					87						86		87	87		*62		
Proteus mirabilis	80	0.1	%		90		98	100	100		86	100		100	100	100	99	89		100									
			n		80		80	76	80		79	80		79	79	80	76	80		79									
Enterococcus spp	75	0.1	%	90						R							R			25	70	R		R	26	34	95		
			n	*67															*16	*23				*68	*29	*66			
Pseudomonas spp	73	0.1	%		R		8	13	79		R	100		96	75	97	98	14		100									
			n				73	*48	73		*10		70	73	73	*48	73		73										

Community Antibioigram Jan - Dec 2017

Non-urine Antibioigram

All SNP Community

Organism Group	No. Organisms	%Total																										
			Penicillin	Amoxicillin	Flucloxacillin	Amoxicillin-clavulanate	Ticarcillin-clavulanate	Piperacillin-tazobactam	Cefalotin	Cefazolin	Ceftriaxone	Ceftazidime	Cefepime	Meropenem	Gentamicin	Amikacin	Sulpha-trimethoprim	Norfloxacin	Ciprofloxacin	Fusidic Acid	Rifampicin	Gentamicin (High Level)	Erythromycin/Clarithromycin	Azithromycin	Clindamycin	Tetracycline	Mupirocin	Quinupristin-dalfopristin
All isolates	73173	100																										
Acinetobacter spp	61	0.1	%	R	R	76	87	R	R	45	55	100	98	96	95		100											
			n			*51	*45			60	60	61	61	*52	61		61											
Shigella spp	44	0.1	%	53	72	51	97	47	92		94	100	69	69	30	68	86						27					
			n	43	*36	*35	*32	*34	*36		*36	*36	*35	*36	44	44	*36						*11					
Enterobacter aerogenes	40	0.1	%	R	R	92	93	R	95		100	100	100	100	100		98											
			n			*36	40		40		40	40	40	*36	40		40											
Neisseria meningitidis	38	0.1	%	29					100								97								100			
			n	*35					38							38								*20				
Nocardia spp	35	0.0	%			22			56					100	97		21						33					
			n			*32			34					34	*33		34						*21					
Morganella spp	33	0.0	%	R	R	90	100	R	91		97	100	97	100	94		94											
			n			*31	33		32		33	33	33	*31	33		33											

Community Antibiogram Jan - Dec 2017

Signal Resistances: Where the tables below contain no data no multiresistant organisms have been detected.

NonUrine: Extended spectrum beta lactamase producing Enterobacteriaceae (ESBL)

Organism Group	Organism Name	No. Positive	% of Strain
Enterobacter cloacae complex n = 171	Enterobacter cloacae	2	1.2
Escherichia spp n = 490	Escherichia coli	25	5.1
Klebsiella spp n = 215	Klebsiella pneumoniae	3	1.4
Salmonella spp n = 1215	Salmonella species	2	0.2

NonUrine: Plasmid mediated AMPC producing Enterobacteriaceae (PAMP)

Organism Group	Organism Name	No. Positive	% of Strain
Escherichia spp n = 490	Escherichia coli	7	1.4
Klebsiella spp n = 215	Klebsiella pneumoniae	1	0.5

NonUrine: Plasmid mediated Carbapenemase producing Enterobacteriaceae (CPE)

Organism Group	Organism Name	No. Positive	% of Strain
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NonUrine: Plasmid mediated Carbapenemase producing Non Enterobacteriaceae (CPNE)

Organism Group	Organism Name	No. Positive	% of Strain
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Community Antibigram Jan - Dec 2017

NonUrine: Vancomycin Resistant Enterococci (VRE)			
Organism Group	Organism Name	No. Positive	% of Strain
Enterococcus spp n = 80	Enterococcus faecium (VRE) - VAN-B	3	3.8

NonUrine: Methicillin Resistant Staphylococcus aureus (MRSA)			
Organism Group	Organism Name	No. Positive	% of Strain
Staphylococcus aureus (ALL) n = 41201	S.aureus (non-multiresistant MRSA)	3978	9.7
	Staphylococcus aureus (MRSA)	104	0.3
	Staphylococcus aureus (UK EMRSA-15)	336	0.8

NonUrine: Streptococcus pneumoniae Penicillin Susceptibility ** (Oral penicillin V breakpoints)			
Organism Group	MIC category	No.	% of Strain
Streptococcus pneumoniae n = 1123	Sensitive \leq 0.06 mg/L	697	62.1
	Intermediate 0.12 - 1 mg/L	405	36.1
	Resistant \geq 2 mg/L	21	1.9

NonUrine: Streptococcus alpha haem (viridans Streptococci)			
Organism Group	MIC category	No.	% of Strain
viridans Streptococci n = 398	Sensitive \leq 0.06 mg/L	387	97.2
	Intermediate 0.12 - 1 mg/L	11	2.8

Community Antibrogram Jan - Dec 2017

Blood Culture Antibiogram												All SNP Community			
Organism Group	No. Organisms	% Total		Penicillin	Flucloxacillin	Amoxicillin-clavulanate	Cefalotin	Sulpha-trimethoprim	Ciprofloxacin	Fusidic Acid	Rifampicin	Erythromycin/Clarithromycin	Clindamycin	Tetracycline	Vancomycin
All isolates	195	100.0													
Coagulase negative Staphylococci	82	42.1		21	64	64	64	79	89	91	100	65	78	80	99
			n	82	81	81	81	81	79	78	78	81	82	82	82

Signal Resistances: Where the tables below contain no data no multiresistant organisms have been detected.

Blood Culture: Extended spectrum beta lactamase producing Enterobacteriaceae (ESBL)

Organism Group	Organism Name	No. Positive	% of Strain
Escherichia spp n = 28	Escherichia coli	1	3.6

Blood Culture: Plasmid mediated AMPC producing Enterobacteriaceae (PAMP)

Organism Group	Organism Name	No. Positive	% of Strain
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Blood Culture: Plasmid mediated Carbapenemase producing Enterobacteriaceae (CPE)

Organism Group	Organism Name	No. Positive	% of Strain
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Blood Culture: Plasmid mediated Carbapenemase producing Non Enterobacteriaceae (CPNE)

Community Antibigram Jan - Dec 2017

Organism Group	Organism Name	No. Positive	% of Strain
Blood Culture: Vancomycin Resistant Enterococci (VRE)			
Organism Group	Organism Name	No. Positive	% of Strain
Blood Culture: Methicillin Resistant Staphylococcus aureus (MRSA)			
Organism Group	Organism Name	No. Positive	% of Strain
Staphylococcus aureus (ALL) n = 14	S.aureus (non-multiresistant MRSA)	1	7.1

Community Antibigram Jan - Dec 2017

Blood Culture: Streptococcus pneumoniae Penicillin Susceptibility ** (Oral penicillin V breakpoints)			
Organism Group	MIC category	No.	% of Strain
Streptococcus pneumoniae n = 4	Sensitive ≤ 0.06 mg/L	3	75.0
	Intermediate 0.12 - 1 mg/L	1	25.0

Blood Culture: Streptococcus alpha haem (viridans Streptococci)			
Organism Group	MIC category	No.	% of Strain
viridans Streptococci n = 89	Sensitive ≤ 0.06 mg/L	77	86.5
	Intermediate 0.12 - 1 mg/L	9	10.1
	Resistant ≥ 2 mg/L	3	3.4

† Miscellaneous organism groupings detail [report](#).