



Antimicrobial Stewardship Collaborative
of South Carolina

2020 South Carolina Statewide Antibiogram All Systemic Isolates

Gram Negative Organisms	# isolates	Ampicillin	Ampicillin/sulbactam	Amoxicillin/clavulanate	Piperacillin/ Tazobactam	Cefazolin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Aztreonam	Meropenem	Ertapenem	Gentamicin	Tobramycin	Amikacin	Ciprofloxacin	Levofloxacin	Trimeth/sulfa	Nitrofurantoin
<i>Acinetobacter baumannii</i> complex	315	R	89	R	84	R	R	48	87	83	R	86	R	89	97	99	82	92	87	R
<i>Klebsiella (formerly Enterobacter) aerogenes</i>	1083	R	R	R	88	R	NR	83	NR	98	92	99	96	99	99	NR	98	99	98	20
<i>Enterobacter cloacae</i> complex	1992	R	R	R	81	R	NR	82	NR	95	79	98	89	94	97	NR	95	96	91	35
<i>Escherichia coli</i>	31013	51	60	83	100	88	86	93	91	94	94	100	99	95	93	100	79	78	76	97
<i>Klebsiella oxytoca</i>	616	R	60	93	94	66	82	95	94	96	94	100	99	98	97	100	98	99	95	NR
<i>Klebsiella pneumoniae</i>	8879	R	81	90	93	89	88	92	89	93	93	99	99	98	95	100	93	94	88	37
<i>Proteus mirabilis</i>	4768	85	90	95	99	90	91	96	97	94	96	99	100	96	100	77	83	85	87	R
<i>Pseudomonas aeruginosa</i>	5812	R	R	R	88	R	R	R	88	88	75	90	R	91	97	96	84	79	R	R

Gram Positive Organisms	# isolates	Oxacillin/nafcillin	Penicillin G	Ampicillin	Ceftriaxone	Gentamicin (synergy)	Rifampin (synergy)	Levofloxacin	Clindamycin	Erythromycin	Tetracycline	Trimeth/sulfa	Nitrofurantoin	Linezolid	Vancomycin	Daptomycin
MSSA	5332	100	13	NR	NR	99	99	86	76	56	92	98	97	100	100	99
MRSA	6360	R	R	R	R	99	99	39	73	15	92	91	99	100	99	99
<i>Streptococcus pneumoniae</i>	717	NR	87	NR	94	NR	NR	99	83	42	80	72	R	100	100	NR
<i>Streptococcus pneumoniae</i> (meningitis)	333	NR	64	NR	87	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
<i>Enterococcus faecalis</i>	5777	R	68	100	R	NR	NR	80	R	R	27	R	99	99	100	94
<i>Enterococcus faecium</i>	727	R	23	27	R	NR	NR	24	R	R	33	R	27	97	48	95

NR= not reported, R= intrinsic resistance

Not all antimicrobials were tested against each isolate

Data reported as % susceptible

Individual institutions may have differing resistance patterns, facilities should reference facility-level antibiograms if able



Antimicrobial Stewardship Collaborative
of South Carolina

2020 Midlands Regional Antibigram All Systemic Isolates

	# isolates	Ampicillin	Ampicillin/sulbactam	Amoxicillin/clavulanate	Piperacillin/ Tazobactam	Cefazolin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Aztreonam	Meropenem	Ertapenem	Gentamicin	Tobramycin	Amikacin	Ciprofloxacin	Levofloxacin	Trimeth/sulfa	Nitrofurantoin
Gram Negative Organisms																				
<i>Acinetobacter baumannii</i> complex	92	R	100	R	79	R	R	73	NR	93	R	80	R	100	100	NR	75	100	91	R
<i>Klebsiella (formerly Enterobacter) aerogenes</i>	176	R	R	R	80	R	NR	79	NR	99	96	100	98	100	100	NR	95	98	97	36
<i>Enterobacter cloacae</i> complex	311	R	R	R	75	R	NR	82	NR	93	69	97	87	97	95	NR	94	90	89	44
<i>Escherichia coli</i>	4889	48	59	79	96	88	93	92	85	95	95	100	100	91	92	100	77	67	76	96
<i>Klebsiella oxytoca</i>	134	R	63	91	95	74	NR	94	93	93	91	99	99	96	95	100	96	98	91	NR
<i>Klebsiella pneumoniae</i>	1654	R	75	84	93	83	100	89	85	93	96	99	99	99	92	99	89	82	69	33
<i>Proteus mirabilis</i>	971	76	96	96	99	87	100	90	97	77	88	99	100	96	96	100	83	83	88	R
<i>Pseudomonas aeruginosa</i>	1385	R	R	R	86	R	R	R	84	87	60	87	R	90	98	96	84	73	R	R

	# isolates	Oxacillin/nafcillin	Penicillin G	Ampicillin	Ceftriaxone	Gentamicin (synergy)	Rifampin (synergy)	Levofloxacin	Clindamycin	Erythromycin	Tetracycline	Trimeth/sulfa	Nitrofurantoin	Linezolid	Vancomycin	Daptomycin
Gram Positive Organisms																
MSSA	889	100	18	NR	NR	99	NR	85	82	62	93	99	100	100	100	100
MRSA	1315	R	R	R	R	99	98	41	78	15	97	90	100	100	98	99
<i>Streptococcus pneumoniae</i>	78	NR	94	NR	93	NR	NR	100	91	59	83	80	R	100	100	NR
<i>Streptococcus pneumoniae</i> (meningitis)	30	NR	100	NR	100	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
<i>Enterococcus faecalis</i>	1175	R	100	99	R	NR	NR	79	R	R	42	R	99	100	99	100
<i>Enterococcus faecium</i>	138	R	6	38	R	NR	NR	18	R	R	47	R	34	99	48	NR

NR= not reported, R= intrinsic resistance

Not all antimicrobials were tested against each isolate

Data reported as % susceptible

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Antimicrobial Stewardship Collaborative
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2020 Upstate Regional Antibigram All Systemic Isolates

	# isolates	Ampicillin	Ampicillin/sulbactam	Amoxicillin/clavulanate	Piperacillin/ Tazobactam	Cefazolin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Aztreonam	Meropenem	Ertapenem	Gentamicin	Tobramycin	Amikacin	Ciprofloxacin	Levofloxacin	Trimeth/sulfa	Nitrofurantoin
Gram Negative Organisms																				
<i>Acinetobacter baumannii</i> complex	130	R	93	R	NR	R	R	72	NR	87	R	93	R	91	97	100	87	93	86	R
<i>Klebsiella</i> (formerly <i>Enterobacter</i>) <i>aerogenes</i>	550	R	R	R	84	R	NR	84	NR	97	94	99	94	99	100	NR	99	99	99	17
<i>Enterobacter cloacae</i> complex	852	R	R	R	80	R	NR	84	NR	97	79	99	85	98	88	NR	95	97	92	38
<i>Escherichia coli</i>	16476	64	59	83	86	90	86	95	95	86	95	100	99	92	93	100	81	81	77	97
<i>Klebsiella oxytoca</i>	327	R	55	94	94	76	84	97	97	99	95	100	99	99	98	100	87	99	97	NR
<i>Klebsiella pneumoniae</i>	4176	R	83	94	93	91	90	94	92	94	94	99	98	98	97	100	95	97	90	41
<i>Proteus mirabilis</i>	2124	85	87	95	99	92	93	98	98	99	98	99	99	96	97	100	82	85	88	R
<i>Pseudomonas aeruginosa</i>	1907	R	R	R	90	R	R	R	93	90	85	81	R	94	99	98	85	84	R	R

	# isolates	Oxacillin/naftillin	Penicillin G	Ampicillin	Ceftriaxone	Gentamicin (synergy)	Rifampin (synergy)	Levofloxacin	Clindamycin	Erythromycin	Tetracycline	Trimeth/sulfa	Nitrofurantoin	Linezolid	Vancomycin	Daptomycin
Gram Positive Organisms																
MSSA	2945	100	NR	NR	NR	100	99	77	74	38	92	97	99	100	100	99
MRSA	2873	R	R	R	R	100	99	49	80	13	87	89	99	100	100	89
<i>Streptococcus pneumoniae</i>	228	NR	97	NR	97	NR	NR	97	84	45	79	68	R	100	100	NR
<i>Streptococcus pneumoniae</i> (meningitis)	171	NR	67	NR	99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
<i>Enterococcus faecalis</i>	1897	R	99	99	R	NR	NR	84	R	R	22	R	99	99	98	62
<i>Enterococcus faecium</i>	339	R	28	23	R	NR	NR	17	R	R	27	R	33	95	63	96

NR= not reported, R= intrinsic resistance

Not all antimicrobials were tested against each isolate

Data reported as % susceptible

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Antimicrobial Stewardship Collaborative
of South Carolina

2020 PeeDee Regional Antibiogram All Systemic Isolates

Gram Negative Organisms	# isolates	Ampicillin	Ampicillin/sulbactam	Amoxicillin/clavulanate	Piperacillin/ Tazobactam	Cefazolin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Aztreonam	Meropenem	Ertapenem	Gentamicin	Tobramycin	Amikacin	Ciprofloxacin	Levofloxacin	Trimeth/sulfa	Nitrofurantoin
<i>Acinetobacter baumannii</i> complex	33	R	91	R	NR	R	R	48	85	82	R	97	R	94	NR	97	91	97	85	R
<i>Klebsiella</i> (formerly <i>Enterobacter</i>) <i>aerogenes</i>	261	R	R	R	86	R	NR	85	NR	98	91	100	100	98	97	NR	96	97	97	20
<i>Enterobacter cloacae</i> complex	498	R	R	R	87	R	NR	79	NR	95	83	98	98	97	97	NR	98	97	94	30
<i>Escherichia coli</i>	6884	45	53	82	97	83	78	90	90	91	86	99	100	90	92	99	70	74	71	95
<i>Klebsiella oxytoca</i>	119	R	56	93	93	38	75	90	83	94	93	98	100	99	96	100	97	99	97	NR
<i>Klebsiella pneumoniae</i>	2200	R	79	93	93	88	82	91	89	91	88	99	100	99	93	99	90	93	88	39
<i>Proteus mirabilis</i>	1251	87	94	92	100	90	95	97	97	97	96	99	100	95	95	100	85	85	87	R
<i>Pseudomonas aeruginosa</i>	1823	R	R	R	89	R	R	R	88	88	75	92	R	91	97	98	83	76	R	R

Gram Positive Organisms	# isolates	Oxacillin/nafcillin	Penicillin G	Ampicillin	Ceftriaxone	Gentamicin (synergy)	Rifampin (synergy)	Levofloxacin	Clindamycin	Erythromycin	Tetracycline	Trimeth/sulfa	Nitrofurantoin	Linezolid	Vancomycin	Daptomycin
MSSA	817	100	17	NR	NR	99	NR	89	75	NR	92	100	100	100	100	NR
MRSA	1484	R	R	R	R	100	NR	33	71	18	95	96	100	100	100	100
<i>Streptococcus pneumoniae</i>	266	NR	78	NR	90	NR	NR	100	77	12	78	71	R	100	100	NR
<i>Streptococcus pneumoniae</i> (meningitis)	22	NR	50	NR	82	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
<i>Enterococcus faecalis</i>	1891	R	96	99	R	NR	NR	79	R	R	27	R	98	100	99	100
<i>Enterococcus faecium</i>	144	R	13	16	R	NR	NR	8	R	R	26	R	23	99	28	NR

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Not all antimicrobials were tested against each isolate

Data reported as % susceptible

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Antimicrobial Stewardship Collaborative
of South Carolina

2020 Lowcountry Regional Antibigram All Systemic Isolates

	# isolates	Ampicillin	Ampicillin/subactam	Amoxicillin/clavulanate	Piperacillin/ Tazobactam	Cefazolin	Cefuroxime	Ceftriaxone	Ceftazidime	Cefepime	Aztreonam	Meropenem	Ertapenem	Gentamicin	Tobramycin	Amikacin	Ciprofloxacin	Levofloxacin	Trimeth/sulfa	Nitrofurantoin
Gram Negative Organisms																				
<i>Acinetobacter baumannii</i> complex	60	R	95	R	92	R	R	32	89	91	R	100	R	94	95	95	83	92	70	R
<i>Klebsiella</i> (formerly <i>Enterobacter</i>) <i>aerogenes</i>	96	R	R	R	79	R	NR	79	NR	97	83	99	NR	99	99	NR	98	99	97	15
<i>Enterobacter cloacae</i> complex	331	R	R	R	83	R	NR	74	NR	92	81	97	90	98	97	NR	94	39	88	32
<i>Escherichia coli</i>	2764	57	56	83	96	83	89	92	92	93	92	100	100	92	93	100	79	78	77	98
<i>Klebsiella oxytoca</i>	36	R	50	95	97	16	NR	94	NR	94	94	100	NR	100	100	100	100	100	97	NR
<i>Klebsiella pneumoniae</i>	849	R	83	89	93	89	87	92	93	93	93	100	97	99	95	100	95	97	77	42
<i>Proteus mirabilis</i>	422	92	91	99	93	85	97	98	97	98	97	100	100	95	98	100	91	92	78	R
<i>Pseudomonas aeruginosa</i>	697	R	R	R	84	R	R	R	93	82	70	95	R	86	88	85	77	73	R	R

	# isolates	Oxacillin/nafcillin	Penicillin G	Ampicillin	Ceftriaxone	Gentamicin (synergy)	Rifampin (synergy)	Levofloxacin	Clindamycin	Erythromycin	Tetracycline	Trimeth/sulfa	Nitrofurantoin	Linezolid	Vancomycin	Daptomycin
Gram Positive Organisms																
MSSA	681	100	12	NR	NR	98	100	99	81	64	93	99	81	100	100	99
MRSA	688	R	R	R	R	95	98	34	77	13	91	95	99	100	100	95
<i>Streptococcus pneumoniae</i>	145	NR	88	NR	95	NR	NR	100	91	51	87	74	R	NR	100	NR
<i>Streptococcus pneumoniae</i> (meningitis)	110	NR	76	NR	89	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
<i>Enterococcus faecalis</i>	814	R	100	100	R	NR	NR	81	R	R	18	R	100	98	99	100
<i>Enterococcus faecium</i>	106	R	23	22	R	NR	NR	56	R	R	33	R	11	96	33	NR

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