

INPATIENT and EMERGENCY East Tennessee Children's Hospital Antibigram: All Specimen Sources 07/01/2024 - 06/30/2025

Numbers represent percent susceptibility to aid in making with EMPIRIC antibiotic decisions

	Isolates	Amoxicillin-Clavulanate	Ampicillin	Ampicillin-Sulbactam	Piperacillin-Tazobactam	Cefazolin	Cefuroxime	Cefpodoxime	Ceftazidime	Ceftriaxone	Cefepime	Ertapenem	Imipenem-Cilastin	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Aztreonam	Nitrofurantoin	SMX-TMP	Tetracycline
GRAM NEGATIVE																							
<i>Acinetobacter baumannii</i>	8*	IR	IR	100	57	IR	IR	NT	100	NT	NT	IR	100	100	NT	100	100	100	100	IR	NT	NT	NT
<i>Enterobacter cloacae</i>	39	IR	IR	IR	NT LU	IR	IR	LU	92	NT	92	NT	100	NT	100	100	100	95	92	75	25	87	NT
<i>Escherichia coli</i> [6% ESBL+ rate]	455	NT	49	60	98	83	5	9	94	94	94	100	100	100	100	92	93	94	82	32	98	75	42
<i>Haemophilus influenzae</i>	18*	NT	67	NT	NT	NT	NT	NT	100	NT	NT	NT	NT	100	NT	NT	NT	100	NT	NT	NT	47	NT
<i>Klebsiella oxytoca</i>	33	NT	IR	79	NT	94	83	83	97	97	97	100	100	100	100	91	90	94	88	83	90	94	50
<i>Klebsiella pneumoniae</i> [10% ESBL+rate]	69	NT	IR	80	93	88	17	13	90	90	90	100	100	100	100	91	90	90	88	13	24	84	17
<i>Proteus mirabilis</i>	39	NT	87	90	100	90	NT	NT	100	100	100	100	91	100	NT	95	97	100	100	NT	IR	87	NT
<i>Pseudomonas aeruginosa</i>	99	IR	IR	IR	94	IR	IR	NT	97	IR	97	NT	95	95	100 LU	95	99	93	84	100	NT	IR	IR
<i>Serratia marcescens</i>	21*	IR	IR	IR	NT	IR	IR	NT	100	95	95	100	NT	100	100	100	100	95	96	100	IR	NT	

***Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines**
 ~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility. ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for guidelines for susceptibilities; NT = not tested; SMX-TMP = sulfamethoxazole-trimethoprim; MRSA = methicillin resistant *Staphylococcus aureus*, MRSE = methicillin resistant *Staphylococcus epidermidis*
 Data compiled using Theradoc, different method than previous years; cannot determine trends

≥ 90% Recommended empirically
80 – 89% Recommend 2nd line empiric
41 – 79% Avoid Use Empirically
≤ 40% do not use

INPATIENT and EMERGENCY East Tennessee Children's Hospital Antibigram: All Specimen Sources 07/01/2024 - 06/30/2025

Numbers represent percent susceptibility to aid making with EMPIRIC antibiotic decisions

	Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Ciprofloxacin	Levofloxacin	Clindamycin	Linezolid	SMX-TMP	Erythromycin	Tetracycline
GRAM POSITIVE PATHOGENS													
<i>Enterococcus faecalis</i>	62	100	IR	100	IR	100	100	100	IR	100	IR	0	34
<i>Staphylococcus aureus</i> [MSSA rate 40%]	173	NT	100	4	~100	100	85	87	80	100	90	63	94
<i>Staphylococcus aureus</i> [MRSA rate 53%]	264	NT	0	0	~0	100	45	47	75	100	64	19	97
<i>Staphylococcus epidermidis</i> [35% MSSE rate]	34	NT	100	21	~100	100	97	97	68	100	94	38	88
<i>Staphylococcus epidermidis</i> 65% MRSE rate]	62	NT	0	0	~0	100	84	84	40	100	61	21	89
<i>Streptococcus agalactiae</i> (GBS)	21*	100	NT	100	100	100	NT	100	40	NT	LU	NT	NT
<i>Streptococcus pneumoniae</i>	26*	NT	NT	72	100	100	LU	100	92	100	73	73	88
<i>Streptococcus pyogenes</i>	45*	100	NT	100	100	100	LU	84	84	100	LU	82	82
<i>Streptococcus viridans</i> group	32	78	NT	77	91	100	LU	94	90	100	LU	40	100
<p>*Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines ~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility. ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for susceptibilities; NT = not tested; SMX-TMP = sulfamethoxazole-trimethoprim; MRSA = methicillin resistant <i>Staphylococcus aureus</i>, MRSE = methicillin resistant <i>Staphylococcus epidermidis</i> Data compiled using Theradoc, different method than previous years; cannot determine trends</p>											<p>≥ 90% Recommended empirically 80 – 89% Recommend 2nd line empiric 41 – 79% Avoid Use Empirically ≤ 40% do not use</p>		

OUTPATIENT East Tennessee Children's Hospital Antibioqram: All Specimen Sources 07/01/2024 - 06/30/2025

Numbers represent percent susceptibility to aid making with EMPIRIC antibiotic decisions

	Isolates	Amoxicillin-Clavulanate	Ampicillin	Ampicillin-Subbactam	Piperacillin-Tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Cefpodoxime	Ceftazidime	Ceftriaxone	Cefepime	Ertapenem	Imipenem-Cilastatin	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Aztreonam	Nitrofurantoin	SMX-TMP	Tetracycline
GRAM NEGATIVE PATHOGENS																								
<i>Enterobacter cloacae</i>	38	IR	IR	IR	NT	IR	IR	IR	LU	LU	IR	95	NT	100	100	100	100	100	100	95	90	29	86↑	100↑
<i>Escherichia coli</i> [5% ESBL+]	905	86	52	63	96	84↓	86	16	18	95	94	95	100	100	99	98	92	92	89↓	81	33↓	97	75↓	38↓
<i>Haemophilus influenzae</i>	51	NT	51	NT	NT	NT	NT	NT	NT	100	100	NT	NT	NT	95	NG	NG	NG	100	NT	NT		67	NT
<i>Klebsiella oxytoca</i>	32	NT	IR	75	100	88	100	88↑	89	94	91	97	100	100	100	100	94	92	100	94↑	NT	90	97	75↓
<i>Klebsiella pneumoniae</i> [7% ESBL+]	63	100	IR	84↑	100	96	86↓	57	63	94	93	94	100	100	100	100	97	98	98	89	NT	27	86↑	88↓
<i>Proteus mirabilis</i>	56	NT	95	96	100	78↓	NT	NT	NT	98	100	100	100	93	100	NT	100	100	96	96	NT	IR	98	NT
<i>Pseudomonas aeruginosa</i>	136	IR	IR	IR	96	IR	IR	IR	IR	95	IR	99	IR	94	92	99	94	98	92	81	NT		IR	IR
<i>Serratia marcescens</i>	39	IR	IR	IR	NT	3	0	0	IR	100	97↑	100	100	NT	100	100	100	92	100	79	NT		NT	30

*Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines

~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility.
 ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for susceptibilities; NT = not tested; SMX-TMP = sulfamethoxazole-trimethoprim; MRSA = methicillin resistant *Staphylococcus aureus*, MRSE = methicillin resistant *Staphylococcus epidermidis*
 Data compiled using Theradoc, different method than previous years; cannot determine trends

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≤ 40% do not use

OUTPATIENT East Tennessee Children's Hospital Antibigram: All Specimen Sources 07/01/2024 - 06/30/2025

Numbers represent percent susceptibility to aid making with EMPIRIC antibiotic decisions

	Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Ciprofloxacin	Levofloxacin	Clindamycin	Linezolid	Nitrofurantoin	SMX-TMP	Erythromycin	Tetracycline
GRAM POSITIVE PATHOGENS														
<i>Enterococcus faecalis</i>	62	100	IR	100	IR	100	95	95	IR	100	98	IR	8	39
<i>Staphylococcus aureus</i> [50% MSSA rate]	292	NT	100	7	~100	100	89	91	72	100	NT	93	91	93
<i>Staphylococcus aureus</i> [50% MRSA rate]	290	IR	0	0	0	100	46 LU	46 LU	75	100		74	24	97
<i>Staphylococcus epidermidis</i> [35% MSSE rate]	32	NT	100	25	~100	100	100	100	63	100	100	75	44	88
<i>Staphylococcus epidermidis</i> [65% MRSE rate]	59	NT	0	2	~0	100	71↓	71↓	63	100	100	63	20	88↑
<i>Streptococcus agalactiae</i> (GBS)	11*	100	NT	100	100	100	NT	100	9	NT	IR	NT	NT	IR
<i>Streptococcus pneumoniae</i>	125	NT	NT	48	84	100	NT	99	77↑	100	IR	66	35	79
<i>Streptococcus pyogenes</i>	70	100	NT	99	100	100	NT	89↓	87↓	100	IR	NT	84↑	87↓
<i>Streptococcus viridans group</i>	14*	69↓	NT	57	79↓	100	IR	86↓	67	100	IR	IR	20	50

*Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines

~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility.

ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for susceptibilities; NT = not tested; SMX-TMP = sulfamethoxazole-trimethoprim; MRSA = methicillin resistant *Staphylococcus aureus*, MRSE = methicillin resistant

Staphylococcus epidermidis

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EMERGENCY DEPARTMENT East Tennessee Children's Hospital Antibiogram: All Specimen Sources 07/01/2024 - 06/30/2025

Numbers represent percent susceptibility to aid making with EMPIRIC antibiotic decisions

	Isolates	Amoxicillin-Clavulanate	Ampicillin	Ampicillin-Sulbactam	Piperacillin-Tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Cefpodoxime	Ceftazidime	Ceftriaxone	Cefepime	Ertapenem	Imipenem	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Aztreonam	Nitrofurantoin	SMX-TMP	Tetracycline
GRAM NEGATIVE PATHOGENS																								
<i>Enterobacter cloacae</i>	23*	IR	IR	IR	NT	IR	IR	22	IR	96 LU	IR	100	NT	100	100	100	100	100	100	96	NT	20	91	IR
<i>Escherichia coli</i> [6% ESBL+]	409	NT	49	60	98	84	94	6	11	94	94	94	100	100	100	100	92	93	92	84	22	98	76	41
<i>Haemophilus influenzae</i>	7*	NT	57	NT	NT	NT	NT	NT	NT	100	100	NT	NT	NT	100	NT	NT	NT	100	NT	NT	NT	29	NT
<i>Klebsiella oxytoca</i>	19*	NT	IR	79	NT	95	100	100	100	100	100	100	100	100	100	100	89	89	95	89	100	86	100	50
<i>Klebsiella pneumoniae</i> [9% ESBL+]	45	NT	IR	76	91	90	100	0	0	91	91	91	100	100	100	100	93	93	91	89	0	25	87	0
<i>Proteus mirabilis</i>	31	NT	84	87	100	87	NT	NT	NT	100	100	100	100	93	100	NT	94	96	100	100	NT	IR	87	IR
<i>Pseudomonas aeruginosa</i>	59	IR	IR	IR	95	IR	IR	IR	IR	97	IR	97	IR	95	93	100	94	98	95	88	NT		IR	IR
<i>Serratia marcescens</i>	12*	IR	IR	IR	NT	0	0	0	IR	100	92	92	100	NT	100	100	100	100	92	83	100	0	NT	0

*Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines

~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility.

ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for susceptibilities; NT = not tested;

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Numbers represent percent susceptibility to aid making with EMPIRIC antibiotic decisions

	Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Ciprofloxacin	Levofloxacin	Clindamycin	Linezolid	Nitrofurantoin	SMX-TMP	Erythromycin	Tetracycline								
GRAM POSITIVE PATHOGENS																						
<i>Enterococcus faecalis</i>	46	100	IR	100	IR	100	100	100	IR	100	100	IR	7	30								
<i>Staphylococcus aureus</i> [65% MRSA rate]	190	NT	36	2	~36	100	74 LU	76 LU	78	100	NT	70	35	95								
<i>Staphylococcus epidermidis</i> [59% MRSE rate]	64*	NT	42	6	NT	100	91	91	52	100	100	77	30	89								
<i>Streptococcus agalactiae</i> (GBS)	20*	100	NT	100	100	100	NT	100	42	NT	IR	NT	NT	IR								
<i>Streptococcus pneumoniae</i>	16*	NT	NT	73	100	100	NT	100	88	100	IR	75	63	81								
<i>Streptococcus pyogenes</i>	40	100	NT	100	100	100	NT	100	100	100	IR	NT	78	75								
<i>Streptococcus viridans group</i>	19*	68	NT	67	84	100	IR	95	100	100	IR	IR	33	100								
<p>*Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines</p> <p>~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility.</p> <p>ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for susceptibilities; NT = not tested; SMX-TMP = sulfamethoxazole-trimethoprim; MRSA = methicillin resistant <i>Staphylococcus aureus</i>, MRSE = methicillin resistant <i>Staphylococcus epidermidis</i>, MSSE = methicillin susceptible <i>Staphylococcus epidermidis</i></p> <p>Data compiled using Theradoc, different method than previous years; cannot determine trends</p>																						
<table border="0"> <tr> <td style="background-color: #e0ffe0; width: 20px;"></td> <td>≥ 90% Recommended empirically</td> </tr> <tr> <td style="background-color: #ffffe0; width: 20px;"></td> <td>80 – 89% Recommend 2nd line empiric</td> </tr> <tr> <td style="background-color: #ffe0e0; width: 20px;"></td> <td>41 – 79% Avoid Use Empirically</td> </tr> <tr> <td style="background-color: #ffe0e0; width: 20px;"></td> <td>≤ 40% do not use</td> </tr> </table>																≥ 90% Recommended empirically		80 – 89% Recommend 2nd line empiric		41 – 79% Avoid Use Empirically		≤ 40% do not use
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INPATIENT East Tennessee Children's Hospital Antibigram: All Specimen Sources 07/01/2024 - 06/30/2024
 Numbers represent percent susceptibility to aid in making with EMPIRIC antibiotic decisions

	Isolates	Amoxicillin-Clavulanate	Ampicillin	Ampicillin-Sulbactam	Piperacillin-Tazobactam	Cefazolin	Cefuroxime	Ceftazidime	Ceftriaxone	Cefepime	Ertapenem	Imipenem-Cilastatin	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Aztreonam	Nitrofurantoin	SMX-TMP
GRAM NEGATIVE																					
<i>Acinetobacter baumannii</i>	4*	IR	IR	100	0	IR	IR	100	IR	NT	IR	100	100	NT NG	100	100	100	100	IR	NT IR	NT
<i>Enterobacter cloacae</i>	16*	IR	IR	IR	NT LU	IR	IR	LU	IR	81	NT	100	100	100	100	100	88	88	NT	33	81
<i>Escherichia coli</i> [6% ESBL+ rate]	46	NT	46	57	96	78	0	93	93	93	100	100	100	100	89	90	78	67	75	94	70
<i>Haemophilus influenzae</i>	11*	NT	73	NT	NT	NT	NT	100	100	NT	NT	NT	100	NT	NT	NT	100	NT	NG	NG	60
<i>Klebsiella oxytoca</i>	14*	NT	IR	79	NT	92	NT	93	93	93	100	100	100	100	93	92	93	86	NT	100	86
<i>Klebsiella pneumoniae</i> [11% ESBL+rate]	27*	NT	IR	78	93	74	14	78	78	78	100	100	100	100	78	74	78	78	14	14	70
<i>Pseudomonas aeruginosa</i>	40	IR	IR	IR	92	IR	IR	98	IR	98	IR	95	98	100	97	100	90	78	NT	NG IR	IR

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~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility. ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for guidelines for susceptibilities; NT = not tested; SMX-TMP

= sulfamethoxazole-trimethoprim; MRSA = methicillin resistant *Staphylococcus aureus*, MRSE = methicillin resistant *Staphylococcus epidermidis*

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INPATIENT East Tennessee Children's Hospital Antibigram: All Specimen Sources 07/01/2024 - 06/30/2025

Numbers represent percent susceptibility to aid making with EMPIRIC antibiotic decisions

	Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Ciprofloxacin	Levofloxacin	Clindamycin	Linezolid	SMX-TMP	Erythromycin
GRAM POSITIVE PATHOGENS												
<i>Enterococcus faecalis</i>	16*	100	IR	100	IR	100	100	100	IR	100	IR	0
<i>Staphylococcus aureus</i> [MSSA rate 47%]	68	NT	100	3	~100	100	88	86	78	100	94	64
<i>Staphylococcus aureus</i> [MRSA rate 53%]	74	NT	0	0	~0	100	64	86	70	100	70	18
<i>Staphylococcus epidermidis</i> [23% MSSE rate]	7*	NT	100	43	~100	100	100	100	71	100	100	43
<i>Staphylococcus epidermidis</i> [77% MRSE rate]	31	NT	0	0	~0	100	79	79	38	100	54	13
<i>Streptococcus agalactiae</i> (GBS)	1*	100	NT	100	100	100	NT	100	0	NT	LU	NT
<i>Streptococcus pneumoniae</i>	10*	NT	NT	70	100	100	LU	100	100	100	70	90
<i>Streptococcus pyogenes</i>	16*	100	NT	100	100	100	LU	75	88	100	LU	81
<i>Streptococcus viridans</i> group	13*	92	NT	92	100	100	LU	92	80	100	LU	50
<p>*Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines</p> <p>~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility.</p> <p>ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for susceptibilities; NT = not tested; SMX-TMP = sulfamethoxazole-trimethoprim; MRSA = methicillin resistant <i>Staphylococcus aureus</i>, MRSE = methicillin resistant <i>Staphylococcus epidermidis</i></p> <p>Data compiled using Theradoc, different method than previous years; cannot determine trends</p>												
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INPATIENT and EMERGENCY East Tennessee Children's Hospital Antibrogram: Urine Source 07/01/2024 - 06/30/2025

Numbers represent percent susceptibility to aid in making with EMPIRIC antibiotic decisions

	Isolates	Amoxicillin-Clavulanate	Ampicillin	Ampicillin-Sulbactam	Piperacillin-Tazobactam	Cefazolin	Cefuroxime	Cefpodoxime	Ceftazidime	Ceftriaxone	Cefepime	Ertapenem	Imipenem-Cilastin	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Aztreonam	Nitrofurantoin	SMX-TMP	Tetracycline
GRAM NEGATIVE																							
<i>Escherichia coli</i> [5% ESBL+ rate]	410	NT	50	61	98	84	6	12	94	94	95	100	100	100	100	92	93	92	84	29	98	75	44
<i>Klebsiella pneumoniae</i> [9% ESBL+rate]	46	NT	IR	80	91	93	0	0	91	91	91	100	100	100	100	93	93	91	89	0	24	87	0
<i>Proteus mirabilis</i>	27	NT	81	85	100	85	NT	NT	100	100	100	100	91	100	NT	93	96	100	100	NT	IR	85	NT
<i>Pseudomonas aeruginosa</i>	21	IR	IR	IR	100	IR	IR	NT	100	IR	100	NT	90	89	100	95	100	95	100	100	NT	IR	IR

	Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Ciprofloxacin	Levofloxacin	Clindamycin	Linezolid	SMX-TMP	Erythromycin
GRAM POSITIVE PATHOGENS												
<i>Enterococcus faecalis</i>	52	100	IR	100	IR	100	100	100	IR	100	IR	4

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INPATIENT and EMERGENCY East Tennessee Children's Hospital Antibigram: Non-Urine Source 07/01/2024 - 06/30/2025

Numbers represent percent susceptibility to aid in making with EMPIRIC antibiotic decisions

	Isolates	Amoxicillin-Clavulanate	Ampicillin	Ampicillin-Sulbactam	Piperacillin-Tazobactam	Cefazolin	Cefuroxime	Cefpodoxime	Ceftazidime	Ceftriaxone	Cefepime	Ertapenem	Imipenem-Cilastin	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Aztreonam	Nitrofurantoin	SMX-TMP	Tetracycline
GRAM NEGATIVE																							
<i>Enterobacter cloacae</i>	23*	IR	IR	IR	NT	IR	0	75	78	NT	87	NT	100	NT	100	100	100	91	87	75	NT	91	100
<i>Escherichia coli</i> [10% ESBL+ rate]	40	NT	40	50	97	70	0	0	90	90	90	100	100	100	100	93	94	80	65	40	NT	91	100
<i>Klebsiella oxytoca</i>	22*	NT	IR	77	NT	95	83	83	95	95	95	100	100	100	100	86	85	91	86	83	NT	91	50
<i>Pseudomonas aeruginosa</i>	72	IR	IR	IR	91	IR	IR	NT	96	IR	96	NT	96	96	NT	95	99	92	78	NT	NT	IR	IR

	Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Ciprofloxacin	Levofloxacin	Clindamycin	Linezolid	SMX-TMP	Erythromycin
GRAM POSITIVE PATHOGENS												
<i>Staphylococcus aureus</i> [37% MSSA rate]	129	NT	100	4	~100	100	84	85	80	100	91	66
<i>Staphylococcus aureus</i> [63% MRSA rate]	222	NT	0	0	~0	100	44	47	74	100	64	18
<i>Staphylococcus epidermidis</i> [33% MSSE rate]	22*	NT	100	32	~100	100	100	100	68	100	95	32
<i>Staphylococcus epidermidis</i> [67% MRSE rate]	45	NT	0	0	~0	100	78	78	38	100	58	22
<i>Streptococcus pyogenes</i>	31	100	NT	100	100	100	NT	84	81	100	NT	77

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≤ 40% do not use

OUTPATIENT East Tennessee Children's Hospital Antibigram: Urine Source 07/01/2024 - 06/30/2025

Numbers represent percent susceptibility to aid in making with EMPIRIC antibiotic decisions

	Isolates	Amoxicillin-Clavulanate	Ampicillin	Ampicillin-Sulbactam	Piperacillin-Tazobactam	Cefazolin	Cefuroxime	Cefpodoxime	Ceftazidime	Ceftriaxone	Cefepime	Ertapenem	Imipenem-Cilastin	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Aztreonam	Nitrofurantoin	SMX-TMP	Tetracycline
GRAM NEGATIVE																							
<i>Escherichia coli</i> [4% ESBL+ rate]	860	NT	52	63	95	84	4	6	95	95	96	100	100	100	100	92	92	90	82	21	97	75	37
<i>Klebsiella pneumoniae</i> [2% ESBL+rate]	49	NT	IR	85	100	100	0	50	98	98	98	100	100	100	100	100	100	100	92	50	27	86	100
<i>Proteus mirabilis</i>	47	NT	94	96	100	74	NT	NT	98	100	100	100	91	100	NT	100	100	100	100	NT	IR	98	NT
<i>Pseudomonas aeruginosa</i>	23*	IR	IR	IR	95	IR	IR	NT	96	IR	100	NT	96	96	100	100	96	100	97	NT	NT	IR	IR

	Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Ciprofloxacin	Levofloxacin	Clindamycin	Linezolid	SMX-TMP	Erythromycin
GRAM POSITIVE PATHOGENS												
<i>Enterococcus faecalis</i>	59	100	IR	100	IR	100	95	95	IR	100	IR	4

*Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines
 ~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility. ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for guidelines for susceptibilities; NT = not tested; SMX-TMP = sulfamethoxazole-trimethoprim; MRSA = methicillin resistant *Staphylococcus aureus*, MRSE = methicillin resistant *Staphylococcus epidermidis*
 Data compiled using Theradoc, different method than previous years; cannot determine trends

≥ 90% Recommended empirically
80 – 89% Recommend 2nd line empiric
41 – 79% Avoid Use Empirically
≤ 40% do not use

OUTPATIENT East Tennessee Children's Hospital Antibigram: Non-Urine Source 07/01/2024 - 06/30/2025
 Numbers represent percent susceptibility to aid in making with EMPIRIC antibiotic decisions

	Isolates	Amoxicillin-Clavulanate	Ampicillin	Ampicillin-Sulbactam	Piperacillin-Tazobactam	Cefazolin	Cefuroxime	Cefpodoxime	Ceftazidime	Ceftriaxone	Cefepime	Ertapenem	Imipenem-Cilastin	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Aztreonam	Nitrofurantoin	SMX-TMP	Tetracycline
GRAM NEGATIVE																							
<i>Escherichia coli</i> [16% ESBL+ rate]	42	NT	43	60	98	64	50	55	83	83	83	100	100	100	100	93	94	67	55	73	NT	74	40
<i>Haemophilus influenzae</i>	51	NT	51	NT	NT	NT	NT	NT	100	100	NT	NT	NT	100	NT	NT	NT	100	NT	NT	NT	67	NT
<i>Pseudomonas aeruginosa</i>	113	IR	IR	IR	96	IR	IR	NT	95	IR	96	IR	94	91	NT	93	98	90	79	91	NT	IR	IR
<i>Serratia marcescens</i>	33	IR	IR	IR	NT	3	0	IR	100	97	100	97	NT	100	100	100	94	100	79	100	NT	100	33

	Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Ciprofloxacin	Levofloxacin	Clindamycin	Linezolid	SMX-TMP	Erythromycin
GRAM POSITIVE PATHOGENS												
<i>Staphylococcus aureus</i> [51% MSSA rate]	210	NT	100	4	~100	100	90	91	66	100	95	59
<i>Staphylococcus aureus</i> [49% MRSA rate]	203	NT	0	0	~0	100	46 LU	46 LU	74	100	79	24
<i>Staphylococcus epidermidis</i> [22% MSSE rate]	11	NT	100	32	~100	100	100	100	55	100	82	36
<i>Staphylococcus epidermidis</i> [78% MRSE rate]	38	NT	0	0	~0	100	58	58	58	100	61	24
<i>Streptococcus pyogenes</i>	127	100	NT	47	81	100	NT	99	76	100	65	35

*Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines
 ~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility. ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for guidelines for susceptibilities; NT = not tested; SMX-TMP = sulfamethoxazole-trimethoprim; MRSA = methicillin resistant *Staphylococcus aureus*, MRSE = methicillin resistant *Staphylococcus epidermidis*
 Data compiled using Theradoc, different method than previous years; cannot determine trends

Light Green	≥ 90% Recommended empirically
Yellow	80 – 89% Recommend 2nd line empiric
Orange	41 – 79% Avoid Use Empirically
Black	≤ 40% do not use

All Locations East Tennessee Children's Hospital Antibigram: Lower Respiratory Source 07/01/2024 - 06/30/2025
 Numbers represent percent susceptibility to aid in making with EMPIRIC antibiotic decisions

	Isolates	Amoxicillin-Clavulanate	Ampicillin	Ampicillin-Subbactam	Piperacillin-Tazobactam	Cefazolin	Cefuroxime	Cefpodoxime	Ceftazidime	Ceftriaxone	Cefepime	Ertapenem	Imipenem-Cilastin	Meropenem	Amikacin	Gentamicin	Tobramycin	Ciprofloxacin	Levofloxacin	Aztreonam	Nitrofurantoin	SMX-TMP	Tetracycline
GRAM NEGATIVE																							
<i>Haemophilus influenzae</i>	37	88	62	NT	NT	NT	NT	NT	100	100	NT	NT	NT	100	NT	NT	NT	100	NT	NT	NT	57	NT
<i>Pseudomonas aeruginosa</i>	78	IR	IR	IR	92	IR	IR	NT	95	IR	97	NT	97	96	NT	92	97	92	78	NT	NT	IR	IR
<i>Serratia marcescens</i>	32	IR	IR	IR	NT	3	0	IR	100	94	97	97	NT	100	100	100	97	97	75	100	NT	100	17
<i>Stenotrophomas maltophilia</i>	39	IR	IR	IR	IR	IR	IR	NG	NG	IR	NG	IR	IR	IR	NG	IR	IR	NG	85	IR	NT	100	IR

	Isolates	Ampicillin	Oxacillin	Penicillin	Ceftriaxone	Vancomycin	Ciprofloxacin	Levofloxacin	Clindamycin	Linezolid	SMX-TMP	Erythromycin
GRAM POSITIVE PATHOGENS												
<i>Staphylococcus aureus</i> [52% MSSA rate]	63	NT	100	8	~100	100	89	90	68	100	98	60
<i>Staphylococcus aureus</i> [48% MRSA rate]	59	NT	0	0	~0	100	64	64	59	100	86	17
<i>Streptococcus pneumoniae</i>	30	NT	NT	70	95	100	NT	97	93	100	73	53

***Data for fewer than 30 isolates per organism, per selected time frame is not statistically significant according to CLSI guidelines**
 ~% susceptibility deduced based on oxacillin/1st generation cephalosporin susceptibility. ESBL = extended spectrum β-lactamase; IR = intrinsic resistance; LU = limited utility; NG = no CLSI guidelines for guidelines for susceptibilities; NT = not tested; SMX-TMP = sulfamethoxazole-trimethoprim; MRSA = methicillin resistant *Staphylococcus aureus*, MRSE = methicillin resistant *Staphylococcus epidermidis*
 Data compiled using Theradoc, different method than previous years; cannot determine trends

≥ 90% Recommended empirically
80 – 89% Recommend 2nd line empiric
41 – 79% Avoid Use Empirically
≤ 40% do not use