

ALL BACTERIA	3792		18	33		62	6/	55	31	45						5/				
ALL GRAM-NEGATIVE BACTERIA	1848	100	11	43		66	97	73	21	50		66		73		61	90	87	95	
Escherichia coli	628	34	24	62		71	100	100	31	75		75		58		65	89	77	95	
Pseudomonas aeruginosa	348	19				89	87					90		84			83	96	89	
Klebsiella pneumoniae	286	15	0	81		81	100	98	59	84		84		78		75	94	87	100	
Enterobacter cloacae	141	8	0	0		1	100	93	0	0		0		96		85	99	99	99	
Klebsiella oxytoca	74	4	0	84		85	99	96	27	86		86		96		89	97	96	100	
Proteus mirabilis	56	3	32	94		98	100	100	24	98		98		80		83	93	88	94	
Stenotrophomonas maltophilia ʻ	56	3													83	91				
Serratia marcescens	48	3	0	0		4	100	100	0	2		2		89		98	100	94	100	
Haemophilus influenzae^^	46	2	72																	
Klebsiella aerogenes	39	2	0	0		0	100	100	0	0		0		97		97	100	100	100	
Citrobacter freundii complex	30	2	0	0		0	97	90	0	0		0		93		100	100	100	100	
Morganella morganii	26	1	0	0		4	96	92	0	0		0		92		88	92	96	100	
Citrobacter koseri	24	1	0	0		0	100	100	0	0		0		100		100	100	100	100	
Moraxella catarrhalis^	11	1																		
Achromobacter xylosoxidans subsp. xylosoxidans	9	0				100	0					89		0		89	11	11	0	
Citrobacter braakii	9	0	0	0		0	100	100	0	0		0		78		78	100	100	100	
Acinetobacter baumannii complex	6	0				100	100			67		100		100		100	100	100	100	
Providencia stuartii	6	0	0	0		0	100	100	0	0		0		50		100	67	67	100	
Haemophilus parainfluenzae^^	5	0	20																	

ALL GRAM-POSITIVE BACTERIA	1944	100	25	25	7			58	39	39	33	39	41			45	34			54		95		
Coagulase-negative staphylococci	742	38						33	33	33	33	33				57	36	93		68		100	100	
Staphylococcus aureus, all isolates	464	24						86	86	86	86	86				79	70	97		99		100	100	
- methicillin-susceptible	401	21						99	99	99	99	99				80	74	98		100		100	100	
- methicillin-resistant (MRSA)	63	3						0	0	0	0	0				75	48	87		95		100	100	
Enterococcus faecalis	336	17	99	99				99														100		
Enterococcus faecium, all isolates	219	11	8	8				8														75		
- vancomycin-susceptible	167	9	11	11				11														99		
- vancomycin-resistant (VRE)	52	3	0	0				0														0	96	98
Streptococcus anginosus group°°	58	3			98								98									100		
Viridans group streptococci°	57	3			59								93									100		
Streptococcus pneumoniae	34	2				100	100							94	100	90	82		97			100		
Staphylococcus lugdunensis	23	1						83	83	83	83	83				74	74	96		91		100	100	
Group A streptococci**	14	1			100											42	82					100		
Group B streptococci**	14	1			100											46	46					100		
Mycobacterium tuberculosis complex	8	0																						
Enterococcus gallinarum	6	0	100	100				100														33		
Consent Matrix																								_

General Notes:

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- ${\color{red}\succ} \ {\color{blue} Susceptibility} \ to \ doxycycline \ was \ predicted \ based \ on \ tetracycline \ susceptibility \ testing \ results.$

Organism-Specific Notes:

- ^ M. catarrhalis: Susceptibility testing is not routinely performed. Most isolates are resistant to ampicillin and amoxicillin but are generally susceptible to other antibiotics commonly used for respiratory infections.
- ^^ H. influenzae and H. parainfluenzae: Susceptibility to ampicillin was determined using beta-lactamase testing. Beta-lactamase-positive isolates are resistant to ampicillin but are generally susceptible to amoxicillin-clavulanic acid and cefuroxime.
- ** Beta-hemolytic streptococci: Susceptibilty testing to penicillin is not routinely performed since resistant strains have not been recognized. All isolates are considered susceptible to penicillin.
- * Viridans group streptococci: Please note that only a small proportion of these isolates were tested for susceptibilities. Please take this into consideration when interpreting the reported results.
- ' S. maltophilia: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.
- ** S. anginosus group: Please note that only a small proportion of these isolates were tested for susceptibilities. Please take this into consideration when interpreting the reported results.

Blood Isolates — % Susceptible			1						1						1								1			,		
≥80% Susceptible 70-79% Susceptible ≤69% Susceptible	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim- Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	Daptomycin
ALL BACTERIA	4530		42	40	1			E2	l ro	ee.		42	47	_	1							E0.				_		
ALL BACTERIA	1538	_	12	19				53	58	55		42	47									59						
ALL GRAM-NEGATIVE BACTERIA	365	100	13	44		<u> </u>		60	99	86		32	50			61				72		63	91	92	97			
Escherichia coli	147	40	32	58				67	100	100		42	70			70				53		57	86	86	95			
Klebsiella pneumoniae	74	20	0	78				81	97	97		70	81			81				78		74	92	92	100			
Pseudomonas aeruginosa	42	12						95	93							95				86			93	100	93			
Enterobacter cloacae	36	10	0	0				3	100	91		0	0			0				94		79	97	97	100			
Serratia marcescens	18	5	0	0				0	100	94		0	0			0				94		100	100	94	100			
Klebsiella oxytoca	11	3	0	73				73	100	100		27	73			73				100		91	100	100	100			
Citrobacter freundii	10	3	0	0				0	100	100		0	0			0				70		100	100	100	100			
Klebsiella aerogenes	9	2	0	0				0	100	100		0	0			0				100		100	100	100	100			
Proteus mirabilis	8	2	12	88				100	100	100		12	100			100				50		88	88	100	100			
ALL GRAM-POSITIVE BACTERIA	4472	100	44	44	,	_	_	E	45	45	20	45	47	_	1		- 17	27	-					<u> </u>		00		_
	1173	100	11	11	6			51	45	45	39	45	47				46	37	00			57	_			98	400	_
Coagulase-negative staphylococci	819	70						42	42	42	42	42					48	36	98			60				100	100	
Staphylococcus aureus, all isolates	135	12						87	87	87	87	87					86	73	98			98				100	100	
- methicillin-susceptible	117	10			<u> </u>			100		100		100					86	76	98			99				100	100	<u> </u>
- methicillin-resistant (MRSA)	18	2			_			0	0	0	0	0					89	56	100			94				100	100	_
Enterococcus faecium, all isolates	63	5	8	8	-			8																		79		-
- vancomycin-susceptible	50	4	10	10				10																		100	400	400
- vancomycin-resistant (VRE)	13	1	0	0				0																		0	100	100
Enterococcus faecalis	58	5	98	98	(2)			98					0.4													100		-
Viridans group streptococci°	47	4			63 85								91													100		₩
Streptococcus anginosus group°°	13	1			85	100	100				-	-	100		100			02			100					100		\vdash
Streptococcus pneumoniae Staphylococcus lugdunensis	12	1				100	100	70	78	70	78	70		100	100		90	82 89	100		100	89				100	100	\vdash
Group B streptococci**	7	1			100			78	/8	/8	/8	/8					89 43	43	100			89				100	100	-
Group A streptococci**	6	1			100												33	82								100		-
General Notes:		1		1	100												33	δZ								100		

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- \succ Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

> Only a limited number of coagulase negative staphylococci isolates were tested for susceptibilities. The vast majority of coagulase-negative staphylococci are susceptible to vancomycin. If you have any questions, please contact the UHN/MSH Department of $\,$

Organism-Specific Notes:

- ** Beta-hemolytic streptococci: Susceptibilty testing to penicillin is not routinely performed since resistant strains have not been recognized. All isolates are considered susceptible to penicillin.
- * Viridans group streptococci: Please note that only a small proportion of these isolates were tested for susceptibilities. Please take this into consideration when interpreting the reported results.
- * S. anginosus group: Please note that only a small proportion of these isolates were tested for susceptibilities. Please take this into consideration when interpreting the reported results.

Respiratory Isolates - % Susceptible

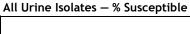
Respiratory Isolates — % Susceptible																										
≥80% Susceptible 70-79% Susceptible ≤69% Susceptible	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim- Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	(24			40			70	02	42	1	25	E4			1						7.5			<u> </u>	_	_
ALL BACTERIA	634		8	18			72	83	43		25	51									65					<u> </u>
ALL GRAM-NEGATIVE BACTERIA	425	100	13	27			66	88	29			36			63				67		48	83	82	87		Г
Pseudomonas aeruginosa	146	34					82	77							83				77			74	94	84		\vdash
Haemophilus influenzae^^	64	15	77																							
Stenotrophomonas maltophilia '	40	9																		90	90					
Klebsiella pneumoniae	36	8	0	77			74	100	67			80			80				74		86	94	33	100		
Enterobacter cloacae	27	6	0	0			0	100	93			0			0				89		81	100	100	100		
Escherichia coli	25	6	0	24			40	100	100			48			48				40		44	88	62	88		
Serratia marcescens	16	4	0	0			0	100	100			0			0				87		100	100	94	100		
Klebsiella aerogenes	13	3	0	0			0	100	100			0			0				100		100	100	100	100		
Moraxella catarrhalis^	10	2																								
Klebsiella oxytoca	9	2	0	89			89	100	100			89			89				100		100	100	100	100		
Achromobacter xylosoxidans subsp. xylosoxidans	6	1					83	0							83				0		83	17	17	0		
Acinetobacter species	5	1					60	100	0			60			100				80		80	100	100	100		
Citrobacter koseri	5	1	0	0			0	100	100			0			0				100		100	100	100	100		<u> </u>
ALL GRAM-POSITIVE BACTERIA	200	400			1		00	70	70	70	72	80			I	77	7.5				07				00	_
	209	100	_				82	72	72	72	72	δU					65	0/			97				98	400
Staphylococcus aureus, all isolates	183	88	-				83	83	83	83	83					78	66	96			100				100	
- methicillin-susceptible	155	74					98	98	98	98	98					80	73	97			100				100	+
- methicillin-resistant (MRSA)	28	13	-		400	400	0	0	0	0	0		00	400		68	29	89		05	100				100	100
Streptococcus pneumoniae	21	10			100	100							80	100		86	76			95					100	_
Mycobacterium tuberculosis complex	4			0		_	0				_			_						_	_				100	_
Enterococcus faecium s	1	0	0	0			0	0	0	0	0					0	0	100			100				100	100
Staphylococcus lugdunensis	1	U					U	U	U	U	U					U	U	100			100				100	100

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Organism-Specific Notes:

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- ' S. maltophilia: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.



≥80% Susceptible 70-79% Susceptible ≤69% Susceptible	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim- Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid	Daptomycin
ALL BACTERIA	1281		23	57	68	72	64	1	7	2	43			68	47	67		<u> </u>				
ALL BACTERIA	1201			37	00	12	04		/		43			00	47	07						
ALL GRAM-NEGATIVE BACTERIA	902	100	4	52	66	99	88				59	69		71	64	63	92	57	92			
Escherichia coli	442	49	7	62	70	100	100				74	74		58	64	97	89	41	90			
Klebsiella pneumoniae	170	19	0	79	78	100	95				83	83		75	70	28	91	48	95			
Pseudomonas aeruginosa	89	10			94	94						97		84			92	99	93			
Enterobacter cloacae	44	5	0	0	0	100	93			0	0	0		98	86	52	100	100	98			
Klebsiella oxytoca	39	4	0	78	79	100	100				78	78		92	86	95	97	50	100			
Proteus mirabilis	35	4	20	94	97	100	100				97	97		86	86	3	91	50	75		П	
Klebsiella aerogenes	16	2	0	0	0	100	100			0	0	0		94	94	6	100	100	100			
Morganella morganii	16	2	0	0	6	93	93			0	0	0		100	100	6	100	100	100			
Citrobacter freundii complex	13	1	0	0	0	100	92			0	0	0		100	92	100	100	100	100			
Citrobacter koseri	13	1	0	0	0	100	100			0	0	0		100	100	92	100	100	100			
Serratia marcescens	13	1	0	0	0	100	100			0	0	0		77	92	0	100	92	100			
																					_	
ALL GRAM-POSITIVE BACTERIA	379	100	68	68	74	6	6	6	6	6	6		34	59	7	76				92	98	
Enterococcus faecalis	248	65	100		100								32	87		100				100	100	
Enterococcus faecium, all isolates	100	26	7	7	7								21	6		11				72	95	
- vancomycin-susceptible	72	19	10	10	10								26	8		8	_			100	96	
- vancomycin-resistant (VRE)	28	7	0	0	0								7	0		18				0	93	96
Staphylococcus aureus, all isolates	28	7			82	82	82	82	82	82			93	0	93	100				100	100	
- methicillin-susceptible	23	6			100	100	100	100	100	100			100	0	96	100				100	100	
- methicillin-resistant (MRSA)	5	1			0	0	0	0	0	0			60		80	100				100	100	
Enterococcus gallinarum	2	1	100	100	100					_			100	100	_	100				100		
Staphylococcus lugdunensis	2	1			100	100	100	100	100	100			100		50	100				100	100	1

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All Non-Urine Isolates - % Susceptible Penicillin IV (non-meningitis) Ceftriaxone (non-meningitis) Amoxicillin-Clavulanic acid (meningitis) enicillin IV (meningitis) Piperacillin-Tazobactam ≥80% Susceptible 70-79% Susceptible ≤69% Susceptible Erythromycin Ciprofloxacin Clindamycin Moxifloxacin Ceftriaxone Ceftriaxone Ceftazidime Doxycycline Sentamicin Cloxacillin mpicillin Amikacin Penicillin inezolid. Cefazolin ALL BACTERIA 2679 ALL GRAM-NEGATIVE BACTERIA Pseudomonas aeruginosa 279 26 81 94 87 Escherichia coli 269 25 100 87 87 96 137 13 83 83 99 73 86 81 82 95 93 100 Klebsiella pneumoniae 86 89 99 99 100 Enterobacter cloacae 101 95 9 100 Stenotrophomonas maltophilia 56 5 93 Haemophilus influenzae^/ 45 4 Serratia marcescens 42 4 34 3 94 97 100 100 Klebsiella oxytoca Proteus mirabilis 26 2 Klebsiella aerogenes 100 100 100 100 24 2 Citrobacter freundii 19 2 Morganella morganii 73 82 91 100 11 1 82 Moraxella catarrhalis 9 1 Achromobacter xylosoxidans subsp. xylosoxidans 8 1 100 100 100 100 100 100 Citrobacter koseri 8 1 86 86 100 100 100 Citrobacter braakii 7 00 1 Acinetobacter baumannii complex 6 1 100 100 100 100 100 100 Haemophilus parainfluenzae' 6 1 ALL GRAM-POSITIVE BACTERIA 1592 100 Coagulase-negative staphylococci 721 45 85 85 85 85 85 Staphylococcus aureus, all isolates 430 27 - methicillin-susceptible 371 23 - methicillin-resistant (MRSA) 59 4 9 Enterococcus faecium, all isolates 139 81 7 112 - vancomycin-susceptible - vancomycin-resistant (VRE) 2 27 Enterococcus faecalis 99 99 109 7 Viridans group streptococci° 59 4 93 Streptococcus anginosus group° 55 3 Streptococcus pneumoniae 36 2 Staphylococcus lugdunensis 25 2 Group A streptococci** 20 1 80 100 Group B streptococci** 17 1 100 Mycobacterium tuberculosis complex 8 1

General Notes:

Group G streptococci**

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** 5. anginosus group: Please note that only a small proportion of these isolates were tested for susceptibilities. Please take this into consideration when interpreting the reported results.