Blood Isolates - % Susceptible

≥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
ALL BACTERIA	644	_	18	36				70	78	74		59	69									75					
ALL GRAM-NEGATIVE BACTERIA	262	100	19	64				75	100	92		54	72			78				76		68	89	86	99		
Escherichia coli	153	58	30	_					100			61	79			79				68		65	83	80	99		
Klebsiella pneumoniae	53	20	0	92				92	100	98		86	92			92				89		83	96	94	100		
Pseudomonas aeruginosa	15	6						93	100							100				93			100	100	100		
Enterobacter cloacae	13	5	0	0				0	100			0	0			0				85		85	100	100	100		
Klebsiella oxytoca	11	4	0	100					100	100		20	100			100				100		100	100	100	100		
Proteus mirabilis	5	2	20	60				80	100	100		20	80			80				20		40	80	80	100		
ALL GRAM-POSITIVE BACTERIA	382	100	17	17	14			67	63	63	48	63	67				70	51				80				100	
Coagulase-negative staphylococci	233	61						55	55	55	55	55					71	45	90			80				100	100
Staphyloccocus aureus, all isolates	64	17						89	89	89	89	89					75	70	95			100				100	100
- methicillin-susceptible	57	15						100	100	100	100	100					75	72	96			100				100	100
- methicillin-resistant (MRSA)	7	2						0	0	0	0	0					71	57	86			100				100	100
Viridans group streptococci°	30	8			57								100													97	
Streptococcus pneumoniae	15	4				79	100							100	100		80	60			93					100	
Enterococcus faecalis, all isolates	10	3	100	100				100																		100	
- vancomycin-susceptible	10	3	100	100				100																		100	
- vancomycin-resistant (VRE)	0	0																									
Group B streptococci**	9	2			100												56	56								100	
Group A streptococci**	8	2			100												100	100								100	
Group G streptococci**	5	1			100												100	100								100	1

General Notes:

Statistical validity of estimates of percent susceptibility for organisms for which there are fewer than 30 isolates reported is limited. Please take this into consideration when interpreting the reported results.

Some organisms for which there were only very small numbers have been excluded from this report; however the total number of "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" listed includes these organisms.

Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of susceptibilities for all organisms included on this report as well as those that have been excluded, with assumptions made for those drugs for which susceptibilities were not tested.

> Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Year-Specific Notes:

> 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 Microbiology.

Organism-Specific Notes:

** Beta-hemolytic streptococci: Susceptibility 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.

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Respiratory Isolates - % Susceptible

≥80% Susceptible 70-79% Susceptible ≤69% Susceptible	•		<	Amoxicillin-Clavulanic acid	Penicillin	Penicillin IV (meningitis)	Penicillin IV (non-meningitis)	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	41	_	24	33				83	75	19			59							29					
ALL GRAM-NEGATIVE BACTERIA	25	100	28	44				88	96	4			44	92				86		7	57	79	71		\square
Pseudomonas aeruginosa	13	52						85	92					92				85			54	77	69		
Haemophilus influenzae^^	10	40	70																						
Enterobacter aerogenes	1	4	0	0				0	100	100			0	0				100		100	100	100	100		
Haemophilus parainfluenzae^^	1	4	0																						
ALL GRAM-POSITIVE BACTERIA	16	100	17	17	17			75	42	42	25	42	81		67	40				71				88	
Streptococcus pneumoniae	8	50				33	100								88	62			100					100	
Staphyloccocus aureus, all isolates	5	31						80	80	80	80	80			60	20	80			100				100	100
- methicillin-susceptible	4	25						100	100	100	100	100			50	25	75			100				100	100
- methicillin-resistant (MRSA)	1	6						0	0	0	0	0			100	0	100			100				100	100
Mycobacterium tuberculosis complex	2	13																							
Viridans group streptococci °	1	6			0								100											100	

> Statistical validity of estimates of percent susceptibility for organisms for which there are fewer than 30 isolates reported is limited. Please take this into consideration when interpreting the reported results.

> Some organisms for which there were only very small numbers have been excluded from this report; however the total number of "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" listed includes these organisms.

> Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of susceptibilities for all organisms included on this report as well as those that have been excluded, with assumptions made for those drugs for which susceptibilities were not

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

Year-Specific Notes:

> Susceptibility for cefazolin are not available for Gram-negative isolates from non-sterile site specimens for the current year.

Organism-Specific Notes:

^^ 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.

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.

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Skin, Wound and Abscess Isolates - % Susceptible

≥80% Susceptible 70-79% Susceptible ≤69% Susceptible	ŧ	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	8	_		12		62	100	100			62							63					
ALL GRAM-NEGATIVE BACTERIA	4	100		25		25	100	100			25	25				25		25	50	50	100		\square
Escherichia coli	3	75	0	33		33	100	100			33	33				0		0	33	33	100		
Enterobacter cloacae	1	25	0	0		0	100	100			0	0				100		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	4	100				100	100	100	100	100	100		25	25				100				100	
Staphyloccocus aureus, all isolates	4	100				100	100	100	100	100			25	25	0			100				100	100
- methicillin-susceptible	4	100				100	100	100	100	100			25	25	0			100				100	100
- methicillin-resistant (MRSA)	0	0																					

General Notes:

Statistical validity of estimates of percent susceptibility for organisms for which there are fewer than 30 isolates reported is limited. Please take this into consideration when interpreting the reported results.

Some organisms for which there were only very small numbers have been excluded from this report; however the total number of "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" listed includes these organisms.

Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of susceptibilities for all organisms included on this report as well as those that have been excluded, with assumptions made for those drugs for which susceptibilities were not tested.

> Susceptibility to doxycycline was predicted based on tetracycline susceptibility testing results.

Year-Specific Notes:

> Susceptibility for cefazolin are not available for Gram-negative isolates from non-sterile site specimens for the current year.

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All Urine Isolates — % Susceptible																						
≥80% Susceptible 70-79% Susceptible ≤69% Susceptible	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Penicillin	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	751	-	35	65		78	81	74			33	57		8	73	55	77					
ALL GRAM-NEGATIVE BACTERIA	581	100	22	61		74	100	92			39	70	77		76	67	71	88	87	100		
Escherichia coli	380	65	29	69		78	100	99			37	82	82		71	69	96	85	84	100		
Klebsiella pneumoniae	77	13	0	77		79	100	97			75	83	83		83	69	26	91	90	100		
Pseudomonas aeruginosa	37	6				97	100						100		92			95	100	100		
Proteus mirabilis	22	4	68	86		86	100	100			82	86	86		64	86	0	82	86	100		
Enterobacter cloacae	19	3	0	0		0	100	95			0	0	0		95	84	37	95	95	100		
Klebsiella oxytoca	13	2	0	92		92	100	100			77	92	92		100	100	77	100	100	100		
Citrobacter freundii	8	1	0	0		0	100	100			0	0	0		88	62	100	88	100	100		
Morganella morganii	6	1	0	0		0	100	100			0	0	0		83	100	0	100	100	100		
Enterobacter aerogenes	6	1	0	0		0	100	100			0	0	0		100	83	0	100	100	100		
Citrobacter koseri	6	1	0	0		0	100	100			0	0	0		100	100	67	100	100	100		
ALL GRAM-POSITIVE BACTERIA	170	100	79	79	1	93	14	14	13	14	14	14		36	63	14	94				98	100
Enterococcus faecalis, all isolates	131	77	100	100		100								24	79		99				100	100
- vancomycin-susceptible	131	77	100	100		100								24	79		99				100	100
- vancomycin-resistant (VRE)	0	0																				
Staphyloccocus aureus, all isolates	23	14				96	96	96	96	96	96			100		100	100				100	100
- methicillin-susceptible	22	13				100	100	100	100	100	100			100		100	100				100	100
- methicillin-resistant (MRSA)	1	1				0	0	0	0	0	0			100		100	100				100	100
Enterococcus faecium, all isolates	11	6	9	9		9								45	0		27				91	100
- vancomycin-susceptible	10	6	10	10		10								50	0		30				100	100
- vancomycin-resistant (VRE)	1	1	0	0		0								0	0		0				0	100
- vancomycin-susceptible (vanA+)	0	0																				
Enterococcus gallinarum	3	2	67	67		67								33	67		100				67	100
Group B streptococci**	1	1			100																	
Staphylococcus saprophyticus "	1	1																				
General Notes:																						

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Reported susceptibilities for "ALL BACTERIA", "ALL GRAM-NEGATIVE BACTERIA", and "ALL GRAM-POSITIVE BACTERIA" reflect estimates only based on the weighted average of susceptibilities for all organisms included on this report as well as those that have been excluded, with assumptions made for those drugs for which susceptibilities were not tested.

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

Year-Specific Notes:

> Susceptibility for cefazolin are not available for Gram-negative isolates from non-sterile site specimens for the current year.

Organism-Specific Notes:

** Beta-hemolytic streptococci: Susceptibility testing to penicillin is not routinely performed since resistant strains have not been recognized. All isolates are considered susceptible to penicillin.

" S. saprophyticus: Susceptibility testing is not routinely perfomed. Most urinary tract infections due to this organism respond to nitrofurantoin, trimethoprim/sulfamethoxazole or fluoroquinolones.

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