Princess Margaret Hospital ANTIBIOGRAM
All Inpatients and Outpatients
January 1, 2024 - December 31, 2024

Blood Isolates — % Susceptible

≥80% Susceptible
70-79% Susceptible
≤69% Susceptible

	#	%	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	**619**	—	14	23		44	52	47		35	45							54					
ALL GRAM-NEGATIVE BACTERIA	**195**	**100**	18	47		67	98	79		41	60	72				58		62	88	88	97		
Escherichia coli	**98**	**50**	34	59		66	98	98		53	75	75				41		63	80	80	94		
Klebsiella pneumoniae	**36**	**18**	0	75		78	97	94		67	86	86				67		83	97	97	100		
Pseudomonas aeruginosa	**28**	**14**				89	96					89				93			96	100	100		
Enterobacter cloacae	**14**	**7**	0	0		0	100	100		0	0	0				93		86	100	93	100		
Stenotrophomonas maltophilia‘	**9**	**5**															100	100					
Klebsiella oxytoca	**5**	**3**	0	75		75	100	100		25	75	75				100		75	100	100	100		
ALL GRAM-POSITIVE BACTERIA	**424**	**100**	12	12	8	34	32	32	23	32	39		48	24				50				98	
Coagulase-negative staphylococci	**277**	**65**				26	26	26	26	26			53	21	91			53				100	100
Viridans group streptococci°	**60**	**14**			48						98											100	
Enterococcus faecium, all isolates	**38**	**9**	3	3		3																74	
- vancomycin-susceptible	**28**	**7**	4	4		4																100	
- vancomycin-resistant (VRE)	**10**	**2**	0	0		0																0	100
Staphylococcus aureus, all isolates	**29**	**7**				90	90	90	90	90			86	82	100			100				100	100
- methicillin-susceptible	**26**	**6**				100	100	100	100	100			92	92	100			100				100	100
- methicillin-resistant (MRSA)	**3**	**1**				0	0	0	0	0			33	0	100			100				100	100
Enterococcus faecalis	**11**	**3**	100	100		100																100	

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
- 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:

° 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.

Princess Margaret Hospital ANTIBIOGRAM
All Inpatients and Outpatients
January 1, 2024 - December 31, 2024

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	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	**85**	—	22	34			86	89	30		23	58							51					
ALL GRAM-NEGATIVE BACTERIA	**63**	**100**	27	44			93	98	13		3	57	87				67		41	85	82	88		
Pseudomonas aeruginosa	**22**	**35**					95	95					95				77			91	95	95		
Haemophilus influenzae^^	**21**	**33**	71																					
Moraxella catarrhalis^	**5**	**8**																						
*Stenotrophomonas maltophilia*ʻ	**4**	**6**																100	100					
Klebsiella oxytoca	**3**	**5**	0	100			100	100	100			100	100				67		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	**22**	**100**	11	11			70	70	70	59	70	59		67	55				67				78	
Staphylococcus aureus, all isolates	**16**	**73**					94	94	94	94	94			81	75	93			94				100	100
- methicillin-susceptible	**15**	**68**					100	100	100	100	100			80	73	93			100				100	100
- methicillin-resistant (MRSA)	**1**	**5**					0	0	0	0	0			100	100	100			0				100	100
Mycobacterium avium	**5**	**23**																						
Streptococcus pneumoniae	**3**	**14**			100	100								100	100			100					100	
Coagulase-negative staphylococci	**2**	**9**					50	50	50	50	50			100	0	100			50				100	100
Mycobacterium tuberculosis complex	**1**	**5**																						

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- 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.

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

Princess Margaret Hospital ANTIBIOGRAM
All Inpatients and Outpatients
January 1, 2024 - December 31, 2024

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	**689**	—	20	61		71	73	63		9	3	50		20	67	53	66					
ALL GRAM-NEGATIVE BACTERIA	**486**	**100**	2	60		71	100	85		9		67	74	14	71	72	63	92	49	93		
Escherichia coli	**264**	**54**	3	71		79	100	96		14		83	83	0	60	73	94	90	33	100		
Klebsiella pneumoniae	**89**	**18**	0	85		83	99	88		8		87	87	33	74	79	26	91	38	75		
Pseudomonas aeruginosa	**36**	**7**				92	97						94		89			94	97	97		
Enterobacter cloacae	**26**	**5**	0	0		4	100	96		0	0	0	0	100	92	79	38	96	92	100		
Proteus mirabilis	**19**	**4**	0	95		100	100	100		0		100	100		95	89	0	95	100	100		
Citrobacter koseri	**12**	**2**	0	0		8	100	100		0	0	0	0	100	92	91	67	100	91	100		
Klebsiella oxytoca	**12**	**2**	0	92		83	100			0		92	92		100	92	75	100				
Klebsiella aerogenes	**10**	**2**	0	0		0	100	100		0	0	0	0		100	90	10	100	100	100		
Morganella morganii	**7**	**1**	0	0		0	100	100		0	0	0	0		86	86	0	86	86	100		
Citrobacter freundii	**5**	**1**	0	0		0	100	100		0	0	0	0		100	100	80	100	100	100		
ALL GRAM-POSITIVE BACTERIA	**203**	**100**	63	63	1	71	10	10	8	10	9	10		35	57	7	74				92	
Enterococcus faecalis, all isolates	**122**	**60**	100	100		100								34	89		100				100	
- vancomycin-susceptible	**122**	**60**	100	100		100								34	89		100				100	
Enterococcus faecium, all isolates	**56**	**28**	7	7		7								18	7		10				77	98
- vancomycin-susceptible	**43**	**21**	7	7		7								21	9		9				100	97
- vancomycin-resistant (VRE)	**13**	**6**	8	8		8								8	0		15				0	100
Staphylococcus aureus, all isolates	**14**	**7**				93	93	93	93	93	93			93	0	93	100				100	100
- methicillin-susceptible	**13**	**6**				100	100	100	100	100	100			92	0	92	100				100	100
- methicillin-resistant (MRSA)	**1**	**0**				0	0	0	0	0	0			100		100	100				100	100
Coagulase-negative staphylococci	**5**	**2**				40	40	40	40	40				100		40	100				100	100
Group B streptococci**	**3**	**1**			100																100	
Staphylococcus lugdunensis	**3**	**1**				67	67	67	67	67	67			100		100	100				100	100

General Notes:

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

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.

Princess Margaret Hospital ANTIBIOGRAM
All Inpatients and Outpatients
January 1, 2024 - December 31, 2024

All Specimens — % 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	Cephalexin	Ceftriaxone	Ceftriaxone (meningitis)	Ceftriaxone (non-meningitis)	Ceftazidime	Clindamycin	Erythromycin	Doxycyline	Ciprofloxacin	Moxifloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
ALL BACTERIA	**1448**	—	20	42				69	73	60		33	16	54						33	68		56	64					
ALL GRAM-NEGATIVE BACTERIA	**823**	**100**	12	51				73	98	75		27		60			76			13	73		64	53	92	83	97		
Escherichia coli	**360**	**44**	23	68				76	99	97		39		82			82			0	56		71	94	88	70	95		
Pseudomonas aeruginosa	**140**	**17**						93	95								93				92				96	99	99		
Klebsiella pneumoniae	**133**	**16**	0	82				82	98	94		53		87			87			33	74		82	25	92	85	96		
Enterobacter cloacae	**46**	**6**	0	0				2	100	98		0	0	0			0			100	96		86	33	98	95	100		
Haemophilus influenzae^^	**26**	**3**	73																										
Proteus mirabilis	**23**	**3**	0	96				100	100	100		33		100			100				96		91	4	96	100	100		
Klebsiella oxytoca	**20**	**2**	0	94				89	100	100		25		94			94				94		89	78	100	100	100		
Klebsiella aerogenes	**16**	**2**	0	0				0	100	94		0	0	0			0				94		94	6	100	100	100		
Citrobacter koseri	**14**	**2**	0	0				7	100	100		0	0	0			0			100	93		92	64	100	92	100		
Stenotrophomonas maltophilia'	**14**	**2**																				93	93	0					
Morganella morganii	**9**	**1**	0	0				0	100	100		0	0	0			0				89		89	0	89	89	100		
Serratia marcescens	**8**	**1**	0	0				0	100	100		0	0	0			0				88		100	0	100	100	100		
Citrobacter freundii	**6**	**1**	0	0				0	100	100		0	0	0			0				100		100	83	100	100	100		
Moraxella catarrhalis^	**6**	**1**																											
ALL GRAM-POSITIVE BACTERIA	**625**	**100**	30	30	8			63	41	41	33	41	37	46				38	31	61	62		45	80				92	
Coagulase-negative staphylococci	**368**	**59**						31	31	31	31	31						57	23	92	100		53	100				100	100
Staphylococcus aureus, all isolates	**210**	**34**						89	89	89	89	89	89					75	71	95	60		99	100				100	100
- methicillin-susceptible	**187**	**30**						100	100	100	100	100	100					76	75	97	67		99	100				100	100
- methicillin-resistant (MRSA)	**23**	**4**						0	0	0	0	0	0					65	35	78			96	96				100	100
Enterococcus faecalis, all isolates	**140**	**22**	100	100				100												34	89			100				100	
- vancomycin-susceptible	**140**	**22**	100	100				100												34	89			100				100	
Enterococcus faecium, all isolates	**93**	**15**	6	6				6												17	8			9				77	98
- vancomycin-susceptible	**72**	**12**	6	6				6												19	10			7				100	97
- vancomycin-resistant (VRE)	**21**	**3**	5	5				5												8	0			15				0	100
Viridans group streptococci°	**65**	**10**			47									98														100	
Staphylococcus lugdunensis	**26**	**4**						65	65	65	65	65	65					88	85	100			100	100				100	100
Streptococcus anginosus group°°	**10**	**2**			100									100														100	
Streptococcus pneumoniae	**6**	**1**				100	100								100	100		100	100			100						100	
Mycobacterium avium	**5**	**1**																											

General Notes:

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- 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.
- All specimens exclude surveillance samples.

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.

° 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.

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All Inpatients and Outpatients
January 1, 2024 - December 31, 2024

All Non-Urine 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	**1017**	—	12	20				58	64	50		39	50									57					
ALL GRAM-NEGATIVE BACTERIA	**367**	**100**	16	38				73	97	56		26	48			77				69		52	91	92	98		
Pseudomonas aeruginosa	**110**	**30**						93	94							94				92			97	99	99		
Escherichia coli	**108**	**29**	35	58				66	97	97		52	75			75				42		63	79	79	94		
Klebsiella pneumoniae	**48**	**13**	0	77				81	98	95		68	88			88				71		85	96	95	100		
Haemophilus influenzae^^	**26**	**7**	69																								
Enterobacter cloacae	**23**	**6**	0	0				0	100	100		0	0			0				96		91	100	96	100		
Stenotrophomonas maltophilia'	**14**	**4**																			93	93					
Klebsiella oxytoca	**8**	**2**	0	100				100	100	100		33	100			100				83		83	100	100	100		
Klebsiella aerogenes	**6**	**2**	0	0				0	100	83		0	0			0				83		100	100	100	100		
Moraxella catarrhalis^	**6**	**2**																									
Proteus mirabilis	**6**	**2**	50	100				100	100	100		75	100			100				100		100	100	100	100		
Serratia marcescens	**6**	**2**	0	0				0	100	100		0	0			0				100		100	100	100	100		
ALL GRAM-POSITIVE BACTERIA	**650**	**100**	10	10	7			50	47	47	40	47	51				55	36				60				94	
Coagulase-negative staphylococci	**302**	**46**						30	30	30	30	30					57	22	92			53				100	100
Staphylococcus aureus, all isolates	**198**	**30**						89	89	89	89	89					75	71	95			99				100	100
- methicillin-susceptible	**176**	**27**						100	100	100	100	100					76	75	97			100				100	100
- methicillin-resistant (MRSA)	**22**	**3**						0	0	0	0	0					64	36	77			95				100	100
Viridans group streptococci°	**65**	**10**			47								98													100	
Enterococcus faecium, all isolates	**42**	**6**	2	2				2																		74	
- vancomycin-susceptible	**31**	**5**	3	3				3																		100	
- vancomycin-resistant (VRE)	**11**	**2**	0	0				0																		0	100
Staphylococcus lugdunensis	**23**	**4**						65	65	65	65	65					87	87	100			100				100	100
Enterococcus faecalis, all isolates	**22**	**3**	100	100				100																		100	
- vancomycin-susceptible	**22**	**3**	100	100				100																		100	
Streptococcus anginosus group°°	**10**	**2**			100								100													100	
Streptococcus pneumoniae	**6**	**1**				100	100							100	100		100	100			100					100	
Mycobacterium tuberculosis complex	**5**	**1**																									

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Year-Specific Notes:

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