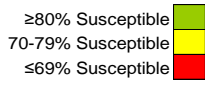


Princess Margaret Hospital ANTIBIOGRAM
All Inpatients and Outpatients
January 1, 2020 - December 31, 2020

Blood Isolates – % 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	649	—	4	20		45	55	48		33	50							49					
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ALL GRAM-NEGATIVE BACTERIA	242	100	4	48		67	97	79		38	58	70				80		69	96	94	99		
<i>Escherichia coli</i>	81	33	7	63		70	98	98		56	81	81				67		64	91	89	100		
<i>Klebsiella pneumoniae</i>	60	25	0	85		85	100	100		73	92	92				90		87	98	95	98		
<i>Pseudomonas aeruginosa</i>	36	15				92	83					97				89			97	97	100		
<i>Enterobacter cloacae</i>	26	11	0	0		0	100	88		0	0	0				96		96	100	100	100		
<i>Klebsiella oxytoca</i>	13	5	0	77		77	100	100		15	77	77				100		92	100	100	100		
<i>Stenotrophomonas maltophilia</i> *	11	5														82		100					

ALL GRAM-POSITIVE BACTERIA	407	100	4	4	1	33	31	31	30	31	45		39	27				35				94	
Coagulase-negative staphylococci	245	60				33	33	33	33	33			42	25	100			33				100	100
Viridans group streptococci ^o	59	14									97											100	
<i>Enterococcus faecium</i> , all isolates	44	11	0	0		0																52	
- vancomycin-susceptible	24	6	0	0		0																96	
- vancomycin-resistant (VRE)	20	5	0	0		0																0	100
<i>Staphylococcus aureus</i>	38	9				100	100	100	100	100			79	71	95			100				100	100
<i>Enterococcus faecalis</i>	11	3	100	100		100																100	

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

Organism-Specific Notes:

- ^o 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.

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Respiratory Isolates – % Susceptible

	#	%	Antibiotics																								
			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	72	—	7	14			79	83	49		39	65									68						
ALL GRAM-NEGATIVE BACTERIA	36	100	14	28			73	90	19		34			58					70		47	91	91	87			
<i>Pseudomonas aeruginosa</i>	13	36					85	85						85					92		43	100	92	100	92		
<i>Stenotrophomonas maltophilia</i> [†]	7	19																									
<i>Haemophilus influenzae</i> ^{^^}	6	17	83																								
<i>Klebsiella pneumoniae</i>	5	14	0	60			60	100	100		0	60		60					100		60	100	100	100			
<i>Enterobacter cloacae</i>	2	6	0	0			0	100	50		0	0		0					100		100	100	100	100			
<i>Escherichia coli</i>	2	6	0	50			50	50	0		0	50		50					50		50	50	0	0			
ALL GRAM-POSITIVE BACTERIA	36	100		6			83	78	78	78	78	89			51	59					88					89	
<i>Staphylococcus aureus</i>	26	72					100	100	100	100	100				65	65	100				100					100	100
<i>Mycobacterium tuberculosis complex</i>	4	11																									
Coagulase-negative staphylococci	2	6					100	100	100	100	100				100	100	100				100					100	100
<i>Streptococcus pneumoniae</i>	2	6					100	100						100	100						100					100	
Viridans group streptococci [°]	2	6										100														100	

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

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.
- [†] *S. maltophilia*: Susceptibility to moxifloxacin was predicted based on levofloxacin susceptibility testing results.

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Skin, Wound and Abscess Isolates – % Susceptible

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Ceftriaxone	Ceftazidime	Clindamycin	Erythromycin	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid

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

ALL BACTERIA	236	—	3	10	78	87	67		53	59						68						
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ALL GRAM-NEGATIVE BACTERIA	95	100	2	18	65	94	43		8	21	67				78	37	94	88	94			
<i>Pseudomonas aeruginosa</i>	49	52			86	90					88				86		96	98	96			
<i>Escherichia coli</i>	13	14	0	46	62	100	100		0	62	62				38	38	77	43	86			
<i>Enterobacter cloacae</i>	6	6	0	0	0	83	83		0	0	0				67	83	83	83	100			
<i>Klebsiella oxytoca</i>	5	5	0	100	100	100	100		100	100	100				100	100	100	100	100			
<i>Klebsiella pneumoniae</i>	5	5	0	80	80	100	100		50	80	80				80	80	100	100	100			

ALL GRAM-POSITIVE BACTERIA	141	100	4	4	87	83	83	83	83	84		70	65			89					97	
<i>Staphylococcus aureus</i> , all isolates	124	88			94	94	94	94	94			79	73	94		100					100	100
- methicillin-susceptible	116	82			100	100	100	100	100			80	76	94		100					100	100
- methicillin-resistant (MRSA)	8	6			0	0	0	0	0			62	25	100		100					100	100
<i>Enterococcus faecium</i> , all isolates	6	4	0	0	0																50	
- vancomycin-susceptible	3	2	0	0	0																100	
- vancomycin-resistant (VRE)	3	2	0	0	0																0	100
<i>Enterococcus faecalis</i> , all isolates	6	4	83	83	83																100	
Viridans group streptococci ^o	2	1								100											100	
Coagulase-negative staphylococci	2	1			50	50	50	50	50				0	0	100		0				100	100

General Notes:

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

Organism-Specific Notes:

- ^o 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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All Urine Isolates – % Susceptible

	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid

ALL BACTERIA	624	—	22	61	73	74	66		5	48	52			73	54	68					
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ALL GRAM-NEGATIVE BACTERIA	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
<i>Escherichia coli</i>	243	55	2	71	79	100	100		0	78	83	83	100	70	70	97	91	38	95		
<i>Klebsiella pneumoniae</i>	70	16	0	87	87	99	100		12	87	90	90		89	83	23	94	25	100		
<i>Pseudomonas aeruginosa</i>	34	8			97	94						97		97		97	100	100			
<i>Proteus mirabilis</i>	20	5	100	100	100	100	100		0	100	100	100		95	85	0	90	100	100		
<i>Enterobacter cloacae</i>	19	4	0	0	0	100	95		0	0	0	0		95	74	42	95	95	100		
<i>Klebsiella oxytoca</i>	18	4	0	94	94	100				61	100	100		100	94	83	100				
<i>Citrobacter koseri</i>	9	2	0	0	0	100	100		0	0	0	0		100	100	89	100	100	100		
<i>Morganella morganii</i>	8	2	0	0	0	100	100		0	0	0	0		88	88	0	88	88	100		
<i>Klebsiella aerogenes</i>	7	2	0	0	0	100	100		0	0	0	0		100	100	0	100	100	100		
<i>Serratia marcescens</i>	5	1	0	0	0	100	100		0	0	0	0		100	100	0	100	100	100		

ALL GRAM-POSITIVE BACTERIA	#	%	Ampicillin	Amoxicillin-Clavulanic acid	Piperacillin-Tazobactam	Meropenem	Ertapenem	Cloxacillin	Cefazolin	Cephalexin	Ceftriaxone	Ceftazidime	Doxycycline	Ciprofloxacin	Trimethoprim-Sulfamethoxazole	Nitrofurantoin	Gentamicin	Tobramycin	Amikacin	Vancomycin	Linezolid
<i>Enterococcus faecalis</i> , all isolates	111	62	99	99	99									23	86		98			99	100
<i>Enterococcus faecium</i> , all isolates	45	25	5	5	5									24	5		11			76	100
- vancomycin-susceptible	34	19	6	6	6									26	6		9			100	100
- vancomycin-resistant (VRE)	11	6	0	0	0									18	0		18			0	100
<i>Staphylococcus aureus</i> , all isolates	20	11			95	95	95	95	95	95	95			100		100	100			100	100
- methicillin-susceptible	19	11			100	100	100	100	100	100	100			100		100	100			100	100
- methicillin-resistant (MRSA)	1	1			0	0	0	0	0	0	0			100		100	100			100	100
Coagulase-negative staphylococci	2	1			50	50	50	50	50	50				100		50	100			100	100
<i>Enterococcus gallinarum</i>	1	1	100	100	100									0	100		100			100	
<i>Staphylococcus saprophyticus</i>	1	1																			

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

Organism-Specific Notes:

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

Princess Margaret Hospital ANTIBIOGRAM

All Inpatients and Outpatients

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All Non-Urine Isolates – % 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

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

ALL BACTERIA	673	—	19	72		82	86	74		7	68							68						
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ALL GRAM-NEGATIVE BACTERIA	#	%	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 GRAM-NEGATIVE BACTERIA	557	100	7	71		80	100	86		5	78	82				75		78	92	61	90		
<i>Escherichia coli</i>	369	66	0	76		83	100	100		7	86	86				59		78	90	56	100		
<i>Pseudomonas aeruginosa</i>	25	4				96	92					96				87			92	92	92		
<i>Klebsiella pneumoniae</i>	69	12	0	94		94	100	100		0	94	94				90		94	97	100	100		
<i>Enterobacter cloacae</i>	6	1	0	0		0	100	100		0	0	0				100		83	100	100	100		
<i>Stenotrophomonas maltophilia</i> [†]	20	4															70	100					
<i>Klebsiella oxytoca</i>	14	3	0	93		93	100			0	93	93				100		93	100				
<i>Klebsiella aerogenes</i>	8	1	0	0		0	100	100		0	0	0				90		100	100	100	100		
<i>Citrobacter koseri</i>	5	1	0	0		0	100	100		0	0	0				100		100	100	100	100		
<i>Serratia marcescens</i>	6	1	0	0		0	100	100		0	0	0				67		100	100	83	100		
<i>Haemophilus influenzae</i> ^{^^}	8	1	75																				
<i>Proteus mirabilis</i>	39	7	97	95		97	100				97	97				80		87	95				

ALL GRAM-POSITIVE BACTERIA	#	%	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 GRAM-POSITIVE BACTERIA	116	100	75	75	5	94	19	19	19	19	19		63	53				17					98	
Coagulase-negative staphylococci	1	1				100	100	100	100	100			75	50	62			100					100	100
<i>Staphylococcus aureus</i> , all isolates	17	15				82	82	82	82	82			75	61	89			100					100	100
- methicillin-susceptible	14	12				100	100	100	100	100			75	73	92			100					100	100
- methicillin-resistant (MRSA)	3	3				0	0	0	0	0			77	8	77			100					100	100
Viridans group streptococci [°]	65	56									97												100	
<i>Enterococcus faecium</i> , all isolates	4	3	50	50		50																	50	
- vancomycin-susceptible	2	2	100	100		100																	100	
- vancomycin-resistant (VRE)	2	2	0	0		0																	0	100
<i>Enterococcus faecalis</i>	85	73	100	100		100																	100	
<i>Streptococcus anginosus</i> group ^{°°}	16	14			0					100													100	
<i>Mycobacterium tuberculosis</i> complex	6	5																						

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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.

[†] 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.