



DRUGS & BUGS HOUSEWIDE ANTIBIOGRAM 2016

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GRAM (-) ORGANISMS	No. of Isolates Tested	Aminoglycosides			β-Lactams				Cephalosporins				FQs	Others	
		Amikacin	Gentamicin	Tobramycin	Ampicillin/ Sulbactam	Piperacillin/ Tazobactam	Ertapenem	Imipenem/ Cilastin	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Ciprofloxacin	Nitrofurantoin	TMP/SMX
		% SUSCEPTIBLE													
<i>A. baumannii</i>	84	100	44	62	62	31	26	42		25	4	37	38		40
<i>C. freundii</i>	43	100	100	100	54	88	100	96		66	75	96	95	98	88
<i>C. koseri</i>	43	100	98	98	82	100	100	100	91	100	100	100	96	88	98
<i>E. aerogenes</i>	60	100	100	100		87	100	100		90	92	100	95	15	93
<i>E. cloacae cpx</i>	150	100	98	98		87	100	99		83	86	95	95	41	95
<i>E. coli</i>	1540	100	84	82	45	95	100	100	83	86	86	88	61	95	60
<i>K. oxytoca</i>	87	100	98	94	50	94	100	100	74	100	97	100	95	89	93
<i>K. pneumoniae</i>	551	99	88	85	70	84	100	95	82	86	86	87	85	39	83
<i>M. morgani</i>	58	100	71	69	19	97	100	72		86	93	97	67		50
<i>P. mirabilis</i>	292	100	86	90	86	98	100	96	83	89	88	90	76		79
<i>P. stuartii</i>	31	100	3	6	32	97	100	89		97	91	100	24		84
<i>P. aeruginosa</i>	490	89	82	86		82		67		75		76	66		
<i>S. marcescens</i>	103	99	97	79	7	100	100	100		99	99	99	93		99
GRAM (+) ORGANISMS	No. Isolates Tested	Penicillin	Nafcillin	Ampicillin	Ceftriaxone	Vancomycin	Linezolid	Clindamycin	Erythromycin	Ciprofloxacin	Moxifloxacin	Nitrofurantoin	TMP/SMX	Oxacillin	Daptomycin
<i>S. aureus (MSSA)</i>	626					100	100	75	64	85	98	99	94	99	99.7
<i>S. aureus (MRSA)</i>	493					98	100	51	12		56	99	87		98.4
<i>S. pneumoniae</i>	29	85			97	100		86	76		100		90		
<i>E. faecalis</i>	553			96		99	100		10	70		94	50		100
<i>E. faecium</i>	75			13		31	100			9		31			99

Review of Number of Resistant Pathogens Isolated (included in antibiogram)

A. baumannii: MDR (39) isolates

E. coli: ESBL (89) isolates, MDR (91) isolates

K. pneumoniae: ESBL (15) isolates, MDR (53) isolates

P. aeruginosa: MDR (112) isolates

ESBL: β-lactamases capable of conferring bacterial resistance to the penicillins; 1st, 2nd, and 3rd generation cephalosporins; and aztreonam



DRUGS & BUGS ED & ED-Holding ANTIBIOGRAM 2016

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		% SUSCEPTIBLE													
<i>A. baumannii</i>	25	100	60	76	76	44		68		24	8	56	60		61
<i>C. freundii</i>	14	100	100	100	7	92	100	93		73	81	93	100	93	100
<i>C. koseri</i>	18	100	100	100	88	100	100	100	94	100	100	100	95	80	100
<i>E. aerogenes</i>	13	100	67	100	33	85	100	94		92	93	100	92	20	92
<i>E. cloacae cpx</i>	32	100	100	97	20	84	100	91		78	85	90	88	55	81
<i>E. coli</i>	844	98	87	83	50	94	100	100	83	88	88	88	69	96	64
<i>K. oxytoca</i>	27	100	100	100	44	96	100	100	67	100	100	100	100	93	96
<i>K. pneumoniae</i>	200	100	90	88	75	89	99	98	88	89	89	89	89	47	93
<i>M. morgani</i>	4	100	75	50	25	100	100	100		100	100	100	50		75
<i>P. mirabilis</i>	118	100	92	94	91	99	100	100	88	93	95	94	79		83
<i>P. stuartii</i>	15	100	6	12	40	100	100	100		93	88	100	25		80
<i>P. aeruginosa</i>	102	99	92	97		89		84		85		89	79		
<i>S. marcescens</i>	7	99	86	86		100	100	100		100	90	100	100		86
GRAM (+) ORGANISIMS	No. Isolates Tested	Penicillin	Nafcillin	Ampicillin	Ceftriaxone	Vancomycin	Linezolid	Clindamycin	Erythromycin	Ciprofloxacin	Moxifloxacin	Nitrofurantoin	TMP/SMX	Oxacillin	Daptomycin
<i>S. aureus (MSSA)</i>	138					100	100	71	56	73	97	100	92	98	99
<i>S. aureus (MRSA)</i>	115					100	100	49	11	19	58	100	88		100
<i>S. pneumoniae</i>	13	87			93	100		77	77		100		85		
<i>E. faecalis</i>	164	100		97		99	100	100	10	69		96			100
<i>E. faecium</i>	9			33		22	100			19		25			100



THE GEORGE WASHINGTON
UNIVERSITY HOSPITAL

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		Amikacin	Gentamicin	Tobramycin	Ampicillin/ Sulbactam	Piperacillin/ Tazobactam	Ertapenem	Imipenem/ Cilastin	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Ciprofloxacin	Nitrofurantoin	TMP/SMX
		% SUSCEPTIBLE													
<i>A. baumannii</i>	16	100	31	25	56	25		31		25		31	25		25
<i>C. freundii</i>	4	100	100	100	50	75	100	100		75	75	100	100	100	100
<i>C. koseri</i>	6	100	100	100	70	100	100	100	100	100	100	100	100	100	100
<i>E. aerogenes</i>	14	100	100	100	20	86	100	100		93	87	100	100	21	100
<i>E. cloacae cpx</i>	30	100	100	100		86	100	93		83	83	97	96	22	93
<i>E. coli</i>	95	100	82	84	54	98	100	100	83	88	88	91	60	95	65
<i>K. oxytoca</i>	13	100	100	100	43	92	100	100	77	100	93	100	100	100	100
<i>K. pneumoniae</i>	92	100	80	86	66	81	93	93	77	83	83	83	85	46	86
<i>M. morgani</i>	2	100	100	100	50	100	100	100		100	100	100	100		100
<i>P. mirabilis</i>	28	100	79	82	93	100	100	93	86	93	90	93	57		74
<i>P. aeruginosa</i>	84	99	90	93		92		76		82		85	76		
<i>S. marcescens</i>	31	100	100	77	7	100	100	100		97	97	97	88		100
GRAM (+) ORGANISIMS	No. Isolates Tested	Penicillin	Nafcillin	Ampicillin	Ceftriaxone	Vancomycin	Linezolid	Clindamycin	Erythromycin	Ciprofloxacin	Moxifloxacin	Nitrofurantoin	TMP/SMX	Oxacillin	Daptomycin
<i>S. aureus (MSSA)</i>	126					100	100	77	69	91	97	99	97	100	100
<i>S. aureus (MRSA)</i>	100					100	100	61	14	18	58	100	89		99
<i>S. pneumoniae</i>	9	82			100	100		89	67		100				
<i>E. faecalis</i>	44			97		100	100			52		100			100
<i>E. faecium</i>	15			7		20	100			7		67			50

ANTIBIOTIC COST BY CLASS PER DAY

DRUG	USUAL DOSE	COST/DAY
CEPHALOSPORINS		
Cefazolin	1gm q 8h	\$10.08
Cefepime	1gm q 12h	\$19.02
	2gm q 12h	\$28.70
Cefotaxime (NICU ONLY)	500mg q 8h	\$3.51
Cefoxitin	1gm q 6h	\$35.48
	2gm q 6h	\$65.12
Ceftazidime	1gm q 8h	\$25.53
	2gm q 8h	\$36.75
Ceftriaxone	1gm q 24h	\$9.96
	2gm q 24h	\$14.92
Cefuroxime	750mg q 8h	\$4.74
	1.5gm q 8h	\$11.40
PENICILLINS		
Ampicillin	1gm q 6h	\$6.40
Ampicillin/ Sulbactam	1.5gm q 6h	\$6.92
	3gm q 6h	\$13.88
Nafcillin	1gm q 6h	\$21.04
	2gm q 6h	\$29.68
Penicillin G Potassium	5MMU q 6h	\$21.76
Penicillin G Sodium	5MMU q 6h	\$139.72
Piperacillin/ Tazobactam	2.25gm q 6h	\$14.68
	3.375gm q 6h	\$20.04
MONOBACTAM		
Aztreonam	1gm q 8h	\$74.82
CARBAPENEMS		
Ertapenem	1gm q 24h	\$100.09
Meropenem	500mg q 8h	\$30.72
	1gm q 8h	\$41.49

DRUG	USUAL DOSE	COST/DAY
AMINOGLYCOSIDES		
Amikacin	500 mg q 8h	\$27.21
Gentamicin	80 mg q 8h	\$8.97
Tobramycin	80 mg q 8h	\$3.87
MACROLIDES		
Azithromycin (IV)	500mg q 24h	\$2.24
Azithromycin (PO)	250mg q 24h	\$3.92
Clarithromycin(PO)	500mg q 12h	\$7.46
Erythromycin (IV)	500mg q 6h	\$239.88
QUINOLONES		
Ciprofloxacin (IV)	400mg q 12h	\$3.80
Ciprofloxacin (PO)	500mg q 12h	\$0.30
Levofloxacin (IV)	750mg q 24h	\$2.16
Levofloxacin (PO)	750mg q 24h	\$0.36
Moxifloxacin (IV)	400mg q 24h	\$33.72
Moxifloxacin (PO)	400mg q 24h	\$7.22
OTHER AGENTS		
Doxycycline (IV)	100mg q 12h	\$34.12
Doxycycline (PO)	100mg q 12h	\$3.28
TMP/SMX (IV)	5-20mg/kg q 6h (70kg patient)	\$35.60
TMP/SMX DS (PO)	160 mg TMP q12h	\$0.28
Clindamycin (IV)	600mg q 8h	\$17.70
	900mg q 8h	\$21.63
Metronidazole (IV)	500mg q 6h	\$3.20
	500mg q 8h	\$2.40

DRUG	USUAL DOSE	COST/DAY
GRAM POSITIVE ANTIBIOTICS		
Vancomycin	500mg q 12h	\$3.46
	1gm q 12h	\$6.08
Linezolid (IV)	600mg q 12h	\$71.02
Ceftaroline (IV)	600 mg q12h	\$258.66
Linezolid (PO)	600mg q 12h	\$7.10
Daptomycin (500 mg/1 vial)	4mg/kg q 24h (70 kg patient)	\$258.30
ANTI-FUNGALS		
Amphotericin B Liposomal	5mg/kg q 24h (70 kg patient)	\$449.14
Fluconazole (IV)	200mg q 24h	\$3.50
	400mg q 24h	\$3.31
Fluconazole (PO)	100mg q 24h	\$1.18
	200mg q 24h	\$1.64
Posaconazole (PO)	DR-300 q12h	\$115.78
	Oral Susp. 5mL q8h	\$182.31
Posaconazole (IV)	300 mg q12h	\$782.96
Micafungin	50mg q 24h	\$34.07
	100mg q 24h	\$68.15
Voriconazole (IV)	200mg q 12h	\$83.92
Voriconazole (PO)	200mg q 12h	\$21.80

This handout is intended for use as a guide to assist the clinician in antibiotic selection. It is to be used in conjunction with pertinent clinical data. For more specific assistance, please contact the Division of Infectious Disease, Clinical Microbiology, or the:

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