

UCDH ANTIBIOGRAM

01/01/2019 - 12/31/2019

PERCENT OF ISOLATES SUSCEPTIBLE

Anna Maria Romanelli, Ph.D.

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Inpatient ICU - Gram Negative Organisms

Category		Beta-lactams									Fluoro quino lones		Amino glycosides			Other	
Organism	n	Ampicillin	Ampicillin/ Sulbactam	Piperacillin/ Tazobactam	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Aztreonam	Meropenem	Ciprofloxacin	Levofloxacin	Amikacin	Gentamicin	Tobramycin	Trimethoprim/ Sulfamethoxazole	Nitrofurantoin
breakpoints (mcg/mL)		8	8/4	16/4	2	4	1	2	4	1	1	2	16	4	4	2/38	32
Enterobacter cloacae complex	25 ^A	0	5	76	0	56	56	84	60	100	92	96	100	100	96	92	50
Escherichia coli	109	42	40	89	53	72	70	73	74	100	63	66	99	82	80	65	100
Klebsiella aerogenes	18 ^A	0	0	66	0	72	72	94	76	100	100	100	100	100	100	100	50
Klebsiella pneumoniae	59	0	73	83	72	84	86	86	86	98	86	93	100	93	88	84	39
Proteus mirabilis	23 ^A	65	100	100	0	91	82	86	91	100	73	78	91	78	78	78	0
Serratia marcescens	15 ^A	0	0	93	0	93	73	86	93	100	86	100	100	85	80	100	0
breakpoints (mcg/mL)				16/4		8		8	8	2	1	2	16	4	4		
Pseudomonas aeruginosa	75	-	-	81	-	81	-	85	66	90	86	86	98	96	98	-	0
breakpoints (mcg/mL)						8						2				2/38	
Stenotrophomonas maltophilia	23 ^A	-	-	-	-	50	-	0	-	0	-	69	-	-	-	100	0

Inpatient Non-ICU - Gram Negative Organisms

Category		Beta-lactams									Fluoro quino lones		Amino glycosides			Other	
Organism	n	Ampicillin	Ampicillin/ Sulbactam	Piperacillin/ Tazobactam	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Aztreonam	Meropenem	Ciprofloxacin	Levofloxacin	Amikacin	Gentamicin	Tobramycin	Trimethoprim/ Sulfamethoxazole	Nitrofurantoin
breakpoints (mcg/mL)		8	8/4	16/4	2	4	1	2	4	1	1	2	16	4	4	2/38	32
Citrobacter freundii complex	13 ^A	0	0	92	0	84	84	92	84	100	92	92	100	80	84	76	100
Enterobacter cloacae complex	27 ^A	0	0	62	0	62	59	81	62	96	96	100	100	92	92	81	42
Escherichia coli	306	45	48	94	60	77	77	80	78	100	63	68	99	86	83	65	98
Klebsiella aerogenes	13 ^A	0	0	76	0	84	76	84	84	100	100	100	100	100	100	92	44
Klebsiella oxytoca	13 ^A	0	22	92	15	100	92	100	100	100	100	100	100	100	100	84	90
Klebsiella pneumoniae	114	0	59	86	73	81	81	81	81	98	83	88	98	88	85	84	43
Proteus mirabilis	40	85	100	100	2	97	90	100	100	100	70	70	97	86	87	80	0
Serratia marcescens	12 ^A	0	0	100	0	100	91	91	100	100	91	91	100	100	100	-	0
breakpoints (mcg/mL)				16/4		8		8	8	2	1	2	16	4	4		
Pseudomonas aeruginosa	91	-	-	83	-	82	-	85	73	88	81	82	98	93	98	-	-
breakpoints (mcg/mL)						8						2				2/38	
Stenotrophomonas maltophilia	14 ^A	-	-	-	-	42	-	0	-	0	-	57	-	-	-	100	-

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PERCENT OF ISOLATES SUSCEPTIBLE

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Outpatient / ED - Gram Negative Organisms

Category		Beta-lactams										Fluoro quinolones		Amino glycosides			Other	
Organism	n	Ampicillin	Ampicillin/Sulbactam	Piperacillin/Tazobactam	Cefazolin	Ceftazidime	Ceftriaxone	Cefepime	Aztreonam	Meropenem	Ciprofloxacin	Levofloxacin	Amikacin	Gentamicin	Tobramycin	Trimethoprim/Sulfamethoxazole	Nitrofurantoin	
breakpoints (mcg/mL)			8/4	16/4		8	8	8		2	1	2	16	4	4	2/38		
Acinetobacter baumannii complex	11 ^A	-	85	66	-	72	-	81	-	90	72	72	90	77	81	72	-	
breakpoints (mcg/mL)		8	8/4	16/4	2	4	1	2	4	1	1	2	16	4	4	2/38	32	
Citrobacter freundii complex	87	1	6	79	0	74	73	97	75	100	93	96	100	93	96	87	90	
Citrobacter koseri	74	0	100	95	89	98	98	100	98	100	100	100	100	100	100	98	53	
Enterobacter cloacae complex	135	0	0	84	0	82	81	89	81	99	91	94	100	95	94	84	31	
Escherichia coli	3645	61	57	98	75	91	91	92	91	100	80	82	99	92	92	77	98	
Klebsiella aerogenes	91	0	0	83	0	81	81	95	84	100	96	100	100	100	100	96	39	
Klebsiella oxytoca	130	0	33	93	23	96	93	96	92	100	93	96	100	95	93	86	91	
Klebsiella pneumoniae	733	0	71	94	84	91	91	91	91	99	91	96	100	95	94	87	51	
Morganella morganii	33	0	18	100	0	87	84	100	93	100	72	78	100	87	93	69	0	
Proteus mirabilis	263	80	84	99	2	97	94	96	97	100	74	76	98	87	86	78	0	
Serratia marcescens	51	0	0	98	0	100	92	98	100	100	92	96	100	100	86	100	0	
breakpoints (mcg/mL)				16/4		8		8	8	2	1	2	16	4	4			
Pseudomonas aeruginosa	319	-	-	90	-	92	-	88	82	91	78	78	99	95	98	-	-	
breakpoints (mcg/mL)						8						2				2/38		
Stenotrophomonas maltophilia	34	-	-	-	-	20	0	-	0	-	-	76	-	-	-	97	-	

Data source: UCDH Laboratory Information Service, excluding duplicate, CF and surveillance isolates.

Breakpoints for susceptibility defined by Clinical Laboratory Standards Institute (CLSI M100 28th Edition, Jan 2018) .

Breakpoint values in red are values that are different from the 2018 AntibioGram which was based on CLSI M100 20th Ed, Jan 2010.

Organisms with a total number of less than 10 isolates recovered for the year are not included in this report.

≥10% increase in % of susceptible isolates compared to 2018

≥10% decrease in % susceptible isolates compared to 2018

Footnote

^A Calculated from fewer than the standard recommendation of 30 isolates. Interpret with caution.