

**MOUNT SINAI HOSPITAL
2020 ADULT CUMULATIVE INPATIENT GRAM-NEGATIVE ISOLATES (PERCENT SUSCEPTIBLE OF INITIAL ISOLATES)**

ADULT INPATIENT GRAM-NEGATIVE <i>n</i>		Aminoglycosides		Cephalosporins							Other Beta-Lactams					Other Mech. Of Action				
		Gentamicin	Amikacin ^a	Cefazolin (non-Urine)	Cefazolin (Urine) ^f	Ceftriaxone	Ceftazidime ^a	Cefepime ^a	Ceftazidime Avibactam ⁱ	Ceftolozane Tazobactam ⁱ	Ampicillin	Ampicillin- sulbactam	Piperacillin- tazobactam ^{a,d}	Ertapenem ^a	Meropenem ^a	Imipenem ^a	Levofloxacin ^j	Ciprofloxacin ^j	Nitrofurantoin ^b	Trimethoprim- sulfamethoxazole
<i>Escherichia coli</i>	664	86	100	58	67	71	83	91	99	97	33	44	88	99		99	<u>45</u>	52	94	60
<i>Klebsiella pneumoniae</i>	439	81	98	<u>58</u>	<u>65</u>	<u>64</u>	68	85	97	88		<u>53</u>	81	95		93	<u>58</u>	<u>59</u>	26	64
<i>Pseudomonas aeruginosa</i>	392	89	97				79	83	93	94			80		84	81	65	73		
<i>Proteus mirabilis</i>	164	85	98	63	78	77	85	87	100	100	66	80	89	99		18 ^g	<u>64</u>	64		72
<i>Enterobacter cloacae</i>	130	97	100			62	65	90					67	91		95	<u>83</u>	84	28	84
<i>Serratia marcescens</i>	79	99	97			81	<u>82</u>	94						100			87	88		97
<i>Acinetobacter baumannii</i> ^{d,e}	69	<u>57</u>					38					<u>52</u> ^c				45	32	30		42
<i>Stenotrophomonas maltophilia</i>	67																85			93
<i>Citrobacter koseri</i> ^h	63	100	100			98	98	98					98	100		100	93	97		98
<i>Klebsiella oxytoca</i>	54	93	100	<u>22</u>		74	85	94				46	81	98		93	86	88		85
<i>Klebsiella (Enterobacter) aerogenes</i>	48	98	98			65	67	93					69	96		85	84	88		92
<i>Morganella morganii</i>	45	82	100			87	80	93					91	98		<u>29</u> ^g	<u>63</u>	<u>63</u>		58
<i>Citrobacter freundii</i>	37	95	100			76	76	94					81	100		95	<u>84</u>	<u>82</u>		<u>81</u>
<i>Haemophilus influenzae</i> ^h	34					97					59							97		62

Underlined values represent a 10% or greater decrease in susceptibility compared with 2019

a Use only when organism is resistant to narrower spectrum agents

b Urinary tract isolates only

c Reflects activity for sulbactam only

d *Acinetobacter baumannii*- 87% of 39 isolates were susceptible to polymyxin B

e *Acinetobacter baumannii*- 82% of 17 isolates over 3 years were susceptible to minocycline

f CLSI breakpoints for Cefazolin and *Enterobacteriaceae* in uncomplicated UTIs are higher than the breakpoints for other types of infections

g Unclear if clinically significant – may have higher MIC to imipenem; could consider ertapenem or meropenem instead

h Percent susceptible based on two years of data combined (2019 and 2020)

i Percent susceptible based on six months of data (July-Dec 2020)

j Revised 2019 breakpoints for *Enterobacteriaceae* used, resulting in expected decrease in susceptibility compared to 2019