



Percentage of susceptible bacteria
Department of Microbiology
Faculty of Medicine
Chulalongkorn University
Jan - Dec 2019

		Ampicillin	Amoxicillin/clavulanic acid	Piperacillin/tazobactam	Cefotazone/tazobactam	Cefazolin	Cefoxitin	Cefuroxime	Cefotaxime	Ceftriaxone	Ceftazidime	Cefepime	Ertapenem	Imipenem	Meropenem	Doripenem	Erythromycin	Clarithromycin	Azithromycin	Gentamicin	Amikacin	Ciprofloxacin	Levofloxacin	Tetracycline	Trimethoprim/sulfamethoxazole
<i>Acinetobacter baumannii</i>	% Susceptible			13.34%						1.62%	13.42%			14.25%	14.24%	14.22%				19.61%	22.83%	13.59%	13.79%		34.86%
	No.of isolates			2,594						2,589	2,586			2,597	2,598	2,595				2,596	2,589	2,598	2,588		2,590
<i>Acinetobacter</i> spp.	% Susceptible			60.87%						18.48%	42.39%			63.04%	56.52%	54.35%				61.96%	71.74%	69.57%	80.43%		48.35%
	No.of isolates			92						92	92			92	92	92				92	92	92	92		91
<i>Aeromonas hydrophila</i>	% Susceptible		3.77%	81.48%			16.67%		78.43%	70.37%	85.19%	83.33%	48.15%	50.00%	81.48%					98.15%	98.15%	87.04%	94.44%	81.48%	75.93%
	No.of isolates		53	54			54		51	54	54	54	54	54	54					54	54	54	54	54	54
<i>Aeromonas</i> spp.	% Susceptible			89.91%			75.00%		80.73%	79.82%	81.65%	93.58%	69.72%	53.21%	86.24%					90.83%	99.08%	87.16%	94.50%	47.66%	68.81%
	No.of isolates			109			108		109	109	109	109	109	109	109					109	109	109	109	107	109
<i>Burkholderia cepacia</i> complex	% Susceptible										95.71%				66.46%										96.34%
	No.of isolates										163				164										164
<i>Citrobacter freundii</i> complex	% Susceptible			80.00%					71.11%			88.89%	100.00%	80.00%	95.56%	95.56%				82.22%	100.00%	77.78%		71.11%	71.11%
	No.of isolates			45					45			45	43	45	45	45				45	45	45		45	45
<i>Citrobacter koseri</i>	% Susceptible		92.45%	94.44%		90.20%		46.84%		87.04%		91.19%	100.00%	99.38%	100.00%	99.38%				93.83%	99.38%	91.98%		93.08%	96.91%
	No.of isolates		159	162		51		158		162		159	158	162	162	162				162	162	162		159	162
<i>Citrobacter</i> spp.	% Susceptible		10.53%	76.32%				2.86%		65.79%		92.11%	100.00%	86.84%	97.37%	97.37%				89.47%	100.00%	92.11%		94.74%	92.11%
	No.of isolates		38	38				35		38		38	37	38	38	38				38	38	38		38	38
<i>Enterobacter cloacae</i> complex	% Susceptible			77.75%						60.44%		79.68%	97.30%	86.47%	97.12%	95.79%				82.26%	98.89%	75.17%		72.91%	76.00%
	No.of isolates			445						450		443	407	451	451	451				451	451	451		443	450
<i>Escherichia coli</i>	% Susceptible	12.08%	67.86%	85.67%		38.96%		38.95%		44.68%		70.68%	96.05%	97.67%	97.66%	97.31%				59.05%	98.99%	27.68%		29.55%	42.85%
	No.of isolates	5,241	5,245	5,220		1,622		5,201		5,248		5,243	5,247	5,247	5,249	5,248				5,250	5,249	5,250		5,245	5,246
<i>Haemophilus influenzae</i>	% Susceptible	60.56%	80.28%							99.28%			100.00%		99.28%			85.11%	97.16%					98.56%	43.97%
	No.of isolates	142	142							139			142		138			141	141					139	141
<i>Klebsiella oxytoca</i>	% Susceptible		97.14%	98.57%		70.00%		89.86%		92.86%		100.00%	98.57%	100.00%	100.00%	100.00%				97.14%	100.00%	92.86%		91.43%	95.71%
	No.of isolates		70	70		30		69		70		70	70	70	70	70				70	70	70		70	70
<i>Klebsiella pneumoniae</i>	% Susceptible		57.31%	61.57%		47.73%		46.57%		51.66%		66.66%	79.77%	81.36%	82.34%	81.33%				75.74%	93.46%	46.26%		49.87%	56.66%
	No.of isolates		3,373	3,372		1,035		3,348		3,380		3,374	3,379	3,379	3,380	3,380				3,380	3,381	3,379		3,373	3,380
<i>Klebsiella(Enterobacter) aerogenes</i>	% Susceptible			69.72%						65.96%		92.14%	99.26%	60.56%	96.48%	94.37%				90.14%	98.59%	80.28%		79.86%	90.07%
	No.of isolates			142						141		140	136	142	142	142				142	142	142		139	141
<i>Moraxella catarrhalis</i>	% Susceptible		100.00%														100.00%	100.00%	100.00%					76.09%	90.22%
	No.of isolates		92														92	92	92					92	92
<i>Morganella morganii</i>	% Susceptible			97.05%						82.29%		93.33%	100.00%	35.66%	98.53%					85.66%	99.63%	65.81%		1.12%	67.16%
	No.of isolates			271						271		270	264	272	272					272	272	272		269	271
<i>Plesiomonas shigelloides</i>	% Susceptible		88.89%	100.00%			100.00%		96.30%	96.15%	100.00%	100.00%	100.00%	100.00%	100.00%					96.15%	92.59%	62.96%	81.48%	48.00%	81.48%
	No.of isolates		27	27			25		27	26	27	27	26	26	27					26	27	27	27	25	27
<i>Proteus mirabilis</i>	% Susceptible	44.54%	80.20%	96.59%		53.43%		69.18%		72.16%		77.99%	83.87%	6.45%	99.32%					71.99%	99.66%	53.14%		0.34%	50.93%
	No.of isolates	586	586	586		204		584		589		586	589	589	589					589	589	589		586	589
<i>Proteus</i> spp.	% Susceptible		98.15%	100.00%				0		91.94%		91.94%	96.77%	19.67%	100.00%					95.16%	100.00%	69.35%		1.61%	67.21%
	No.of isolates		62	54	59			62		62		62	62	61	62					62	62	62		62	61



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<i>Providencia rettgeri</i>	% Susceptible	4.17%		82.61%				75.00%		83.33%		83.33%	58.33%	62.50%	83.33%					95.83%	100.00%	75.00%		4.17%	83.33%
	No.of isolates	24		23				24		24		24	24	24	24					24	24	24		24	24
<i>Providencia stuartii</i>	% Susceptible	4.05%		94.59%				78.08%		90.67%		95.95%	93.24%	12.00%	97.33%					9.33%	98.67%	65.33%		1.35%	90.67%
	No.of isolates	74		74				73		75		74	74	75	75					75	75	75		74	75
<i>Pseudomonas aeruginosa</i>	% Susceptible			77.53%	88.72%						79.48%			72.67%	73.01%	75.69%				86.39%	94.71%	77.22%	68.55%		
	No.of isolates			3,423	1,587						3,421			3,425	3,424	3,422				3,424	3,423	3,424	3,418		
<i>Salmonella</i> group B	% Susceptible	34.97%						79.23%	79.78%	81.42%												49.18%			72.13%
	No.of isolates	183						183	183	183												183			183
<i>Salmonella</i> group C	% Susceptible	46.67%						87.39%	86.67%	89.92%												60.50%			64.17%
	No.of isolates	120						119	120	119												119			120
<i>Salmonella</i> group D	% Susceptible	45.65%						100.00%	100.00%	100.00%												36.96%			95.65%
	No.of isolates	46						45	46	45												46			46
<i>Salmonella</i> group E	% Susceptible	51.11%						74.44%	74.44%	76.67%												67.78%			78.89%
	No.of isolates	90						90	90	90												90			90
<i>Serratia marcescens</i>	% Susceptible							87.44%		97.93%	100.00%			99.50%	98.99%					97.49%	98.99%	96.48%		29.53%	97.99%
	No.of isolates							199		193	188			199	199					199	199	199		193	199
<i>Stenotrophomonas maltophilia</i>	% Susceptible																						90.84%		92.75%
	No.of isolates																						1,103		1,104
<i>Vibrio</i> spp.	% Susceptible	12.50%	88.24%	100.00%			88.24%	100.00%		100.00%	97.06%			97.06%	100.00%					100.00%	100.00%	100.00%	100.00%	97.06%	96.97%
	No.of isolates	32	34	34			34	34		34	34			34	34					34	34	34	34	34	33



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<i>Enterococcus</i> spp.	% Susceptible	46.05%	51.98%								42.33%	65.24%			99.72%	100.00%		33.24%	
	No.of isolates	354	354								352	351			354	354		352	
<i>Enterococcus faecalis</i>	% Susceptible	79.09%	99.07%								29.74%	61.13%			99.41%	99.92%		16.96%	
	No.of isolates	1,186	1,185								1,187	1,186			1,189	1,187		1,179	
<i>Enterococcus faecium</i>	% Susceptible	5.76%	10.15%								7.05%	12.56%			93.61%	94.47%		16.52%	
	No.of isolates	451	453								454	454			454	452		448	
<i>Staphylococcus coagulase negative</i>	% Susceptible	24.44%		63.16%			52.63%	54.39%	94.74%	97.78%	80.70%		73.68%		100.00%	100.00%	100.00%	82.22%	85.96%
	No.of isolates	45		57			57	57	57	45	57		57		45	45	45	45	57
<i>Staphylococcus aureus</i>	% Susceptible	12.42%		79.75%			75.21%	75.99%	92.41%	99.14%	80.92%		81.77%		99.73%	99.67%	100.00%	67.07%	93.71%
	No.of isolates	1,506		1,541			1,541	1,541	1,541	1,505	1,541		1,541		1,505	1,505	1,504	1,506	1,541
<i>Staphylococcus capitis</i>	% Susceptible	8.23%		17.80%			19.49%	20.34%	50.00%	88.31%	26.27%		26.27%		100.00%	97.40%	100.00%	73.59%	97.03%
	No.of isolates	231		236			236	236	236	231	236		236		231	231	231	231	236
<i>Staphylococcus epidermidis</i>	% Susceptible	4.83%		29.07%			30.73%	39.53%	67.09%	88.31%	53.09%		53.64%		99.63%	81.26%	100.00%	57.14%	60.18%
	No.of isolates	538		547			550	549	550	539	550		550		539	539	539	539	550
<i>Staphylococcus haemolyticus</i>	% Susceptible	5.03%		9.73%			13.90%	24.55%	45.32%	65.94%	22.36%		25.98%		99.38%	98.75%	100.00%	51.56%	54.38%
	No.of isolates	318		329			331	330	331	320	331		331		320	320	317	320	331
<i>Staphylococcus hominis</i>	% Susceptible	14.95%		41.88%			27.00%	46.41%	97.89%	91.59%	59.07%		59.92%		100.00%	95.33%	100.00%	58.14%	74.15%
	No.of isolates	214		234			237	237	237	214	237		237		214	214	214	215	236
<i>Staphylococcus warneri</i>	% Susceptible	16.67%		60.42%			56.25%	66.67%	97.92%	100.00%	93.75%		93.75%		100.00%	100.00%	100.00%	70.83%	100.00%
	No.of isolates	48		48			48	48	48	48	48		48		48	48	48	48	48
<i>Streptococcus agalactiae</i>	% Susceptible	100.00%			100.00%	100.00%	75.27%	73.87%				97.74%		96.44%	100.00%				
	No.of isolates	344			339	310	275	310				310		309	309				
<i>Streptococcus anginosus</i>	% Susceptible	100.00%			100.00%	98.21%	76.36%	80.36%				87.72%		85.71%	100.00%				
	No.of isolates	66			66	56	55	56				57		56	57				
<i>Streptococcus constellatus</i>	% Susceptible	94.12%			100.00%	100.00%	75.86%	73.33%				96.67%		96.55%	100.00%				
	No.of isolates	34			34	30	29	30				30		29	30				
<i>Streptococcus dysgalactiae</i>	% Susceptible	100.00%			100.00%	100.00%	66.67%	88.89%				100.00%		100.00%	100.00%				
	No.of isolates	34			34	18	18	18				18		18	18				
<i>Streptococcus gallolyticus</i>	% Susceptible	96.30%			100.00%	100.00%	25.00%	27.27%				82.35%		38.24%	100.00%				
	No.of isolates	54			54	34	32	33				34		34	35				



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<i>Streptococcus mitis/oralis</i>	% Susceptible	41.18%			87.21%	95.38%	41.67%	61.54%				92.31%		80.00%	100.00%				
	No.of isolates	85			86	65	60	65				65		65	65				
<i>Streptococcus pneumoniae</i>	% Susceptible	meningitis			93.75%		40.00%	49.50%				94.06%		91.00%	100.00%				
		nonmeningitis	29.11%																
	No.of isolates	79			80		100	101				101		100	101				
<i>Streptococcus pyogenes</i> (group A)	% Susceptible	100.00%			100.00%	100.00%	94.00%	96.08%				100.00%		100.00%	100.00%				
	No.of isolates	62			62	51	50	51				51		51	51				