

Percentage of susceptible Organisms Isolated From All Specimen, โรงพยาบาลราชบุรี, มกราคม - ธันวาคม 2023

Organism	TOTAL ISOLATES	BETA - LACTAMS													CARBAPENEMS			POLYMYNS	QUINOLONES			AMINOGLYCOSIDES		GLYCOPEPTIDES		MISCELLANEOUS																					
		PENICILLIN	PENICILLIN BY MIC	AMPICILLIN	AMOXICILLIN/ CLAVULANIC ACID	AMPICILLIN / SULBACTAM	PIPERACILLIN / TAZOBACTAM	CEFZOLIN (A)	CEFZOLIN (U)	CEFUROXIME SODIUM (parenteral)	CEFUROXIME SODIUM (Oral)	CEFOPERAZONE / SULBACTAM ^a	CEFOTAXIME	CEFZADIME	CEFTRIAXONE	CEFEPIME	OXACILLIN	CEFOXITIN	ERTAPENEM	IMIPENEM	MEROPENEM	COLISTIN BY MIC	CIPROFLOXACIN	LEVOFLOXACIN	NORFLOXACIN (U)	AMIKACIN	GENTAMICIN	GENTAMICIN 120 µg	VANCOMYCIN	TEICoplanin	FOSFOMYCIN	CLINDAMYCIN	ERYTHROMYCIN	NITROFURANTOIN (U)	CHLORAMPHENICOL	CO-TRIMOXAZOLE	TETRACYCLINE										
<i>Acinetobacter calcoaceticus-baumannii</i> complex	837			R	R	17.4 (835)	16.5 (837)						14.3 (837)	17.4 (837)	16.1 (837)	17.4 (837)				R	16.8 (837)	16.8 (837)	99.5 (837)	17.3 (837)	20.1 (837)									R		30.0 (833)	- u										
(ICU)	186			R	R	6.5 (185)	6.5 (186)						5.4 (186)	7.0 (186)	5.4 (186)	6.5 (186)				R	6.5 (186)	6.5 (186)	99.5 (186)	8.1 (186)	10.8 (186)									R		21.0 (186)	- u										
(inpatient)	524			R	R	16.0 (523)	17.7 (524)						15.3 (524)	18.3 (524)	17.4 (524)	18.3 (524)				R	18.1 (524)	18.1 (524)	99.8 (524)	17.2 (524)	20.4 (524)									R		29.6 (521)	- u										
(outpatient)	45			R	R	33.3 (45)	33.3 (45)						28.9 (45)	33.3 (45)	31.1 (45)	33.3 (45)				R	33.3 (45)	33.3 (45)	97.8 (45)	33.3 (45)	35.6 (45)									R		51.1 (45)	- u										
<i>Acinetobacter</i> spp.	79					80.0 (75)	70.9 (79)						68.4 (79)	74.7 (79)	77.2 (79)	83.5 (79)					69.6 (79)	68.4 (79)		70.9 (79)	74.7 (79)											58.2 (79)	- u										
<i>Aeromonas hydrophila</i>	16								75.0 (16)				81.3 (16)	93.8 (16)	81.3 (16)	100 (16)		20.0 (15)		93.8 (16)	93.8 (16)	100 (16)		100 (16)	100 (16)												100 (16)	-									
<i>Burkholderia cepacia</i> complex	23			R	R	R							95.7 (23)							R		91.3 (23)	R		78.3 * (23)													95.7 (23)	- e								
<i>Burkholderia mallei</i>														- e																								- e									
<i>Burkholderia pseudomallei</i>	14				100 * (14)									100 * (14)								100 * (14)																	100 * (14)	- e							
<i>Citrobacter freundii</i>	42			R	R	R	83.3 (42)		R	R	R	R		71.4 (42)	73.8 (42)	73.8 (42)	81.0 (42)				R	95.2 (42)	95.2 (42)	95.2 (42)	61.9 (42)	69.0 (42)			0.0 (42)	85.7 (42)									78.6 (42)	-							
<i>Enterobacter cloacae</i>	173			R	R	R	79.8 (173)		R	R				64.2 (173)	68.8 (173)	65.9 (173)	75.1 (173)				R	92.5 (173)	96.0 (173)	96.5 (173)	75.1 (173)	67.1 (173)	76.9 (173)			0.0 (173)	81.5 (173)									80.8 (172)	-						
<i>Enterobacter</i> spp.	69			2.9 (69)	7.2 (69)	13.0 (69)	75.4 (69)							59.4 (69)	72.5 (69)	65.2 (69)	75.4 (69)				5.9 (68)	89.9 (69)	95.7 (69)	94.2 (69)		73.9 (69)	88.4 (69)			0.0 (69)	81.2 (69)									78.3 (69)	-						
<i>Escherichia coli</i> (all isolates)	1813			16.3 (1813)	77.1 (1811)	75.8 (1811)	88.7 (1813)							53.3 (1813)	70.0 (1813)	55.0 (1813)	65.9 (1813)				81.5 (1809)	95.5 (1813)	96.1 (1813)	96.2 (1813)	98.2 (1813)	36.5 (1813)	41.6 (1813)			0.0 (1813)	67.3 (1809)									46.3 (1802)	-						
(Urine-inpatient)	576			11.3 (576)	73.3 (574)	71.1 (575)	84.9 (576)							45.0 (576)	62.7 (576)	46.4 (576)	57.3 (576)				78.4 (574)	93.9 (576)	94.3 (576)	94.6 (576)	98.6 (576)	30.2 (576)	34.2 (576)			0.0 (576)	63.1 (575)									40.7 (572)	-						
(Urine-outpatient)	235			18.7 (235)	81.7 (235)	77.9 (235)	91.1 (235)							58.7 (235)	74.9 (235)	61.7 (235)	70.6 (235)				79.9 (234)	96.6 (235)	98.3 (235)	98.3 (235)	100.0 (235)	27.7 (235)	31.5 (235)			0.0 (235)	72.3 (235)									45.3 (232)	-						
<i>Haemophilus influenzae</i> (all isolates)				-	-	-	-							-	-	-	-																														
(age 0-5 years old)				-	-	-	-							-	-	-	-																														
(age > 5 years old)				-	-	-	-							-	-	-	-																														
(CSF)				-	-	-	-							-	-	-	-																														
(Sterile sites) ^b				-	-	-	-							-	-	-	-																														
(Non-sterile sites) ^c				-	-	-	-							-	-	-	-																														
<i>Klebsiella aerogenes</i>	25			R	R	R	76.0 (25)		R	R				56.0 (25)	68.0 (25)	56.0 (25)	84.0 (25)				R	88.0 (25)	100 (25)	100 (25)	96.0 (25)	76.0 (25)	80.0 (25)			0.0 (25)	92.0 (25)											84.0 (25)	-				
<i>Klebsiella oxytoca</i>	18			R	88.9 (18)	83.3 (18)	94.4 (18)							77.8 (18)	83.3 (18)	77.8 (18)	83.3 (18)					94.1 (17)	94.4 (18)	94.4 (18)	94.4 (18)		77.8 (18)	100 (18)			0.0 (18)	94.4 (18)										88.9 (18)	-				
<i>Klebsiella pneumoniae</i> (all isolates)	995			R	67.1 (995)	61.8 (993)	69.0 (995)							54.5 (995)	59.5 (995)	56.1 (995)	62.3 (995)					76.8 (989)	83.0 (995)	88.2 (995)	87.7 (995)	97.3 (995)	47.9 (995)	58.2 (995)			0.0 (995)	81.7 (994)										58.7 (992)	-				
(ICU)	97			R	56.7 (97)	52.6 (97)	57.7 (97)							45.4 (97)	50.5 (97)	46.4 (97)	51.5 (97)					75.3 (97)	72.2 (97)	83.5 (97)	81.4 (97)	97.9 (97)	38.1 (97)	50.5 (97)			0.0 (97)	78.4 (97)										50.5 (97)	-				
(inpatient)	630			R	65.2 (630)	60.6 (630)	67.1 (630)							50.6 (630)	55.7 (630)	52.4 (630)	59.2 (630)					75.4 (625)	81.6 (630)	87.1 (630)	86.3 (630)	97.3 (630)	46.3 (630)	57.0 (630)			0.0 (630)	79.5 (629)										57.0 (628)	-				
(outpatient)	130			R	74.6 (130)	68.2 (129)	79.2 (130)							72.3 (130)	76.2 (130)	73.1 (130)	76.2 (130)					83.1 (130)	92.3 (130)	94.6 (130)	95.4 (130)	96.2 (130)	60.8 (130)	66.2 (130)			0.0 (130)	91.5 (130)										67.4 (129)	-				
<i>Morganella morganii</i>	93			R	R	82.6 (92)	97.8 (93)		R	R	R	R		82.8 (93)	93.5 (93)	90.3 (93)	97.8 (91)					40.9 (93)	100 (91)	94.5 (91)	100 (91)	R	55.9 (93)	57.0 (93)			0.0 (93)	74.2 (93)										68.8 (93)	-				
<i>Neisseria meningitidis</i>				- e	- e									-	-	-	-																														
<i>Proteus mirabilis</i>	250			60.4 (250)	91.2 (249)	96.0 (250)	97.6 (250)							83.2 (250)	97.2 (250)	86.4 (250)	92.7 (245)					96.0 (249)	100 (245)	97.1 (245)	100 (245)	R	64.0 (250)	63.6 (250)			0.0 (250)	75.6 (250)											61.6 (250)	R			
<i>Proteus vulgaris</i>	7			R	100 (7)	100 (7)	100 (7)		R	R	R	R		100 (7)	100 (7)	100 (7)	100 (7)					100 (7)	100 (7)	100 (7)	100 (7)	R	85.7 (7)	85.7 (7)			0.0 (7)	100 (7)											71.4 (7)	R			
<i>Providencia rettgeri</i>	10			R	70.0 (10)	80.0 (10)		R	R					70.0 (10)	70.0 (10)	70.0 (10)	80.0 (10)					80.0 (10)	80.0 (10)	80.0 (10)	80.0 (10)	R	70.0 (10)	30.0 (10)			0.0 (10)	70.0 (10)											40.0 (10)	R			
<i>Providencia stuartii</i>	34			R	85.3 (34)	94.1 (34)		R	R					79.4 (34)	85.3 (34)	94.1 (34)	97.0 (33)					91.2 (34)	100 (33)	97.0 (33)	100 (33)	R	67.6 (34)	64.7 (34)			0.0 (34)	38.2 (34)											70.6 (34)	R			
<i>Providencia</i> spp.				-	-	-	-							-	-	-	-																														
<i>Pseudomonas aeruginosa</i> (all isolates)	948			R	R	R	81.0 (948)							R	85.3 (948)	R	86.9 (948)					R	76.6 (948)	82.6 (948)	100 (948)	81.3 (948)	82.4 (948)			92.2 * (944)																	
(ICU)	106			R	R	R	82.1 (106)							R	88.7 (106)	R	88.7 (106)					R	67.0 (106)	76.4 (106)	100 (106)	80.2 (106)	81.1 (106)			60.0 * (10)																	
(inpatient)	601			R	R	R	77.5 (601)							R	82.7																																

Organism	TOTAL ISOLATES	BETA - LACTAMS													CARBAPENEMS			POLY MYXINS			QUINOLONES			AMINOGLYCOSIDES		GLYCOPEPTIDES		MISCELLANEOUS												
		PENICILLIN	PENICILLIN BY MIC	AMPICILLIN	AMOXICILLIN/ CLAVULANIC ACID	AMPICILLIN / SULBACTAM	PIPERACILLIN / TAZOBACTAM	CEFAZOLIN (A)	CEFAZOLIN (U)	CEFUROXIME SODIUM (parenteral)	CEFUROXIME SODIUM (Oral)	CEFOPERAZONE / SULBACTAM ^a	CEFOTAXIME	CEFTAZIDIME	CEFTRIAZONE	CEFEPIME	OXACILLIN	CEFOXITIN	ERTAPENEM	IMPENEM	MEROPENEM	COLISTIN BY MIC	CIPROFLOXACIN	LEVOFLOXACIN	NORFLOXACIN (U)	AMIKACIN	GENTAMICIN	GENTAMICIN 120 µg	VANCOMYCIN	TEICoplanin	FOSFOMYCIN	CLINDAMYCIN	ERYTHROMYCIN	NITROFURANTOIN (U)	CHLORAMPHENICOL	CO-TRIMOXAZOLE	TETRACYCLINE			
Gram negat	(O1)	1			100 (1)																															100 (1)				
	(non O1, non O139)				-																																			
	<i>Vibrio parahaemolyticus</i>	12			0.0 (12)	100 (12)	100 (12)	100 (12)	- e		50.0 (12)		100 (12)	100 (12)		100 (12)	100 (12)		100 (12)	100 (12)					100 (12)	100 (12)											100 (12)			
	<i>Vibrio</i> spp.	5			60.0 (5)	80.0 (5)	60.0 (5)	100 (5)	- e		80.0 (5)		100 (5)	100 (5)		100 (5)		40.0 (5)		100 (5)	80.0 (5)				60.0 (5)	60.0 (5)		100 (5)	80.0 (5)								60.0 (5)			
Gram positive	<i>Enterococcus faecalis</i>	578	-	88.9 ^a (296)	100 (578)			R	R	R	R	R	R	R	R								53.9 ^u (349)	59.4 ^u (170)		R	R	- h	100 (578)	98.8 (578)	- u	R	15.4 (578)			R	9.5 ^u (349)			
	<i>Enterococcus faecium</i>	394	-	4.5 ^a (222)	2.3 (394)			R	R	R	R	R	R	R	R											R	R	- h	80.2 (394)	88.3 (394)		R	1.0 (394)			R	27.2 ^u (276)			
	<i>Enterococcus</i> spp.	62	-	88.6 ^a (35)	91.9 (62)																							- h	75.4 (61)	98.4 (62)				51.6 (62)			80.0 ^u (5)			
	<i>Staphylococcus aureus</i> (all isolates)	740	-	13.5 ^a (740)												90.5 ^f (740)								92.8 (740)	94.8 (386)		94.2 (739)		100 ^a (740)	100 ^a (740)		90.9 (735)	88.1 (740)		93.8 (386)	96.1 (738)	53.5 (740)			
	(MRSA)	72	-	0.0 ^a (72)												0.0 ^f (72)								48.6 (72)	55.3 (38)		76.4 (72)		100 ^a (72)	100 ^a (72)		38.9 (72)	43.1 (72)		76.3 (38)	77.8 (72)	50.0 (72)			
	(MSSA)	674	-	14.8 ^a (674)												100 ^f (674)								97.6 (674)	98.9 (354)		96.1 (673)		100 ^a (674)	100 ^a (674)		96.4 (669)	92.7 (674)		95.8 (354)	98.1 (672)	53.7 (674)			
	(ICU)	75	-	18.7 ^a (75)												88.0 ^f (75)								92.0 (75)	95.0 (40)		92.0 (75)		100 ^a (75)	- e	86.7 (75)	85.3 (75)		92.5 (40)	94.7 (75)	57.3 (75)				
	(inpatient)	427	-	12.4 ^a (427)												90.4 ^f (427)								94.1 (427)	96.3 (214)		95.5 (426)		100 ^a (427)	100 ^a (427)		90.8 (423)	87.8 (427)		94.4 (214)	97.2 (425)	53.2 (427)			
	(outpatient)	94	-	7.4 ^a (94)												90.4 ^f (94)								88.3 (94)	92.7 (55)		97.9 (94)		100 ^a (94)	100 ^a (94)		92.6 (94)	90.4 (94)		94.5 (55)	94.7 (94)	52.1 (94)			
	<i>Staphylococcus</i> , coagulase negative	751	-	13.5 ^a (746)													- f							56.6 (749)	57.4 (340)		73.1 (750)		99.9 ^a (747)	96.0 ^a (747)		50.0 (746)	38.0 (748)		87.6 (340)	71.2 (743)	60.0 (748)			
	<i>Staphylococcus</i> , coagulase negative (blood)	693	-	13.7 ^a (688)													- f							55.4 (691)	55.5 (308)		73.0 (692)		99.9 ^a (689)	96.1 ^a (689)		49.4 (688)	37.0 (691)		88.0 (308)	70.8 (686)	58.8 (690)			
	<i>Streptococcus agalactiae</i>	96	-	99.0 ^a (96)	100 (38)								100 (95)		99.0 (96)	96.6 (58)																						93.8 (96)	27.1 (96)	
	<i>Streptococcus</i> , β-hemolytic not Group A,B,D	59	-	96.6 ^a (59)	100 (26)								100 (59)		98.3 (59)	96.9 (32)																							100 (59)	30.5 (59)
	<i>Streptococcus pyogenes</i>	217	-	100 ^a (217)	100 (80)								99.5 (217)		100 (217)	89.0 (136)																							99.1 (217)	7.8 (217)
	<i>Streptococcus suis</i>			- e	- e																																			
	<i>Streptococcus</i> spp. Viridans Group			- e	- e																																			
<i>Streptococcus pneumoniae</i> (all isolates)	98	- d	28.6 ^a (98)		92.6 ^a (54)																																		100 (98)	18.4 (98)
(age 0-5 years old)	6	- d	0.0 ^a (6)		66.7 ^a (6)																																		100 (6)	33.3 (6)
(age > 5 years old)	92	- d	30.4 ^a (92)		95.8 ^a (48)																																		100 (92)	17.4 (92)
(Sterile sites) ^b	21	- d	- e																																				100 (21)	19.0 (21)
(Non-sterile sites) ^c	82	- d	24.4 ^a (82)		91.5 ^a (47)																																		100 (82)	18.3 (82)
(Meningitis: by E-test)	1		0.0 ^a (1)									100 ^a (1)		100 ^a (1)																										
(Nonmeningitis: by E-test)	98		91.8 ^a (98)		92.6 ^a (54)																																			

^a: No CLSI Interpretive Criteria. Interpret according to cefoperazone/sulbactam in *Enterobacteriaceae*

^b: Blood, Pleural Fluid

^c: Sputum, Ear, Sinus

^d: Interpret according to oxacillin susceptibility test

^e: MIC Interpretive Criteria

^f: Interpret according to ceftazidime susceptibility test

^h: High-Level Aminoglycoside

^u: Urine, Urine Catheter, Urine Clean- Voided

R: Intrinsic resistance

*N <30 isolates tested. The result is not significant as per CLSI guidelines สำหรับ template โรงพยาบาลเท่านั้น

* ข้อมูลการวัดโดยวิธี disk diffusion และ MIC ระบุกัน

* COLISTIN ค่าพบผล Intermediate

