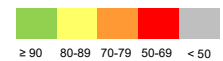


Percentage of susceptible Organisms Isolated From All Specimen, Hua Hin hospitals, Jan - Dec 2021

Organism	TOTAL ISOLATES	ANTIBIOTIC CLASSES													CARBAPENEMS			POLYMYCINS	QUINOLONES			AMINOGLYCOSIDES			MISCELLANEOUS											
		PENICILLIN	AMPICILLIN	AMOXICILIN / CLAVULANIC ACID	AMPICILLIN / SULBACTAM	PIPERACILIN / TAZOBACTAM	CEFAZOLIN (A)	CEFAZOLIN (U)	CEFUROXIME SODIUM (parenteral)	CEFUROXIME SODIUM (oral)	CEFOPERAZONE / SULBACTAM	CEFTOXIME	CEFTAZIDIME	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	COTRIMOXAZOLE	TETRACYCLINE
<i>Acinetobacter calcoaceticus-baumannii</i> complex	315	R	R		14 (315)							15 (315)				R	14 (315)	13 (315)			17 (315)			35 (315)	16 (315)					R				R		
(OPD)	17	R	R													R														R				R		
(IPD)	191	R	R		11 (191)							12 (191)				R	10 (191)	9 (191)			10 (191)			36 (191)	14 (191)					R				R		
(ICU)	107	R	R		13 (107)							14 (107)				R	14 (107)	13 (107)			16 (107)			31 (107)	15 (107)				R				R			
<i>Enterobacter cloacae</i>	42	R	R	R	81 (42)	R	R	R	R		64 (42)	71 (42)	69 (42)		R	100 (42)	100 (42)	100 (42)			69 (42)	76 (42)		100 (42)	88 (42)										83 (42)	
<i>Escherichia coli</i> (all isolates)	404	22 (404)	79 (404)	93 (404)							59 (404)	77 (404)	60 (404)			95 (404)	99 (404)	99 (404)	99 (404)			37 (404)	38 (404)		99 (404)	73 (404)									47 (404)	
(OPD)	169	23 (169)	83 (169)	94 (169)							64 (169)	80 (169)	65 (169)			89 (169)	99 (169)	99 (169)	99 (169)			38 (169)	39 (169)		99 (169)	76 (169)									53 (169)	
(IPD)	188	19 (188)	75 (188)	91 (188)							53 (188)	72 (188)	54 (188)			81 (188)	98 (188)	99 (188)	99 (188)			34 (188)	35 (188)		99 (188)	70 (188)									46 (188)	
(ICU)	47	26 (47)	72 (47)	89 (47)							51 (47)	74 (47)	55 (47)			83 (47)	98 (47)	98 (47)	98 (47)			40 (47)	45 (47)		100 (47)	88 (47)									40 (47)	
in urine OPD	118	20 (118)	80 (118)	92 (118)							61 (118)	76 (118)	61 (118)			86 (118)	99 (118)	99 (118)	99 (118)			31 (118)	32 (118)		99 (118)	74 (118)									49 (118)	
in urine IPD	120	20 (120)	78 (120)	90 (120)							60 (120)	76 (120)	62 (120)			83 (120)	99 (120)	99 (120)	99 (120)			33 (120)	33 (120)		99 (120)	73 (120)									48 (120)	
<i>Klebsiella pneumoniae</i> (all isolates)	278	R	70 (278)	78 (278)							64 (278)	66 (278)	65 (278)			77 (278)	92 (278)	92 (278)	92 (278)			57 (278)	63 (278)		100 (278)	87 (278)									67 (278)	
(OPD)	73	R	85 (73)	90 (73)							78 (73)	82 (73)	81 (73)			83 (73)	99 (73)	99 (73)	99 (73)			71 (73)	77 (73)		100 (73)	95 (73)									84 (73)	
(IPD)	133	R	61 (133)	71 (133)							50 (133)	52 (133)	52 (133)			74 (133)	89 (133)	89 (133)	89 (133)			46 (133)	52 (133)		99 (133)	85 (133)									57 (133)	
(ICU)	69	R	68 (69)	77 (69)							70 (69)	72 (69)	70 (69)			80 (69)	87 (69)	87 (69)	87 (69)			59 (69)	65 (69)		100 (69)	82 (69)									64 (69)	
<i>Proteus mirabilis</i>	51	51 (51)	92 (51)	94 (50)							76 (51)	92 (51)	84 (51)			98 (51)	100 (51)	94 (51)	98 (51)	R		61 (51)	59 (51)		100 (51)	76 (51)						R			63 (51)	
<i>Pseudomonas aeruginosa</i>	217	R	R	R	78 (217)						R	81 (217)	R			R	42 (217)	71 (217)				78 (217)	77 (217)		93 (217)	87 (217)							R	R	R	
(IPD)	129	R	R	R	80 (129)						R	81 (129)	R			R	43 (129)	70 (129)				79 (129)	78 (129)		92 (129)	89 (129)									R	
(OPD)	40	R	R	R	85 (40)							95 (40)					50 (40)	85 (40)				80 (40)	80 (40)		100 (40)	95 (40)									R	
(ICU)	44	R	R	R	73 (44)							88 (44)					27 (44)	61 (44)				80 (44)	75 (44)		91 (44)	73 (44)									R	
<i>Stenomonas maltophilia</i>	32																																		100 (32)	
<i>Enterococcus faecalis</i>	58	96 (58)	91 (57)			R	R	R	R	R	R	R	R	R								42 (57)	53 (55)		R	R	42 (57)	98 (58)		R	16 (58)				R	
<i>Enterococcus faecium</i>	26					R	R	R	R	R	R	R	R	R											R	R									R	
<i>Staphylococcus aureus</i> (all isolates)	141	11 (141)														96 (141)								94 (141)	100 (141)		94 (141)	88 (141)							95 (141)	
(MRSA)	7																																			
(MSSA)	134	11 (134)														100 (134)								94 (134)	100 (134)		95 (134)	91 (134)								96 (134)
(OPD)	34	12 (34)														94 (34)								91 (34)	100 (34)		97 (34)	88 (34)							91 (34)	
(IPD)	95	13 (95)														96 (95)								94 (95)	100 (95)		93 (95)	87 (95)							96 (95)	
<i>Staphylococcus, coagulase negative</i>	77	12 (77)														34 (77)								82 (77)	100 (77)		44 (77)	31 (77)							74 (77)	
<i>Staphylococcus, coagulase negative (blood)</i>	58	12 (58)														34 (58)								57 (58)	100 (58)		41 (58)	29 (58)							74 (58)	



Percentage of susceptible Organisms Isolated From Blood, Hua Hin Hospitals, Jan - Dec 2021

Organism	TOTAL ISOLATES	BETA-LACTAMS											CARBAPENEMS			POLY MYXINS	QUINOLONES		AMINOGLYCOSIDES			OTHERS										
		PENICILLIN	AMPCILLIN	AMOXICILLIN/CLAVULANIC ACID	AMPCILLIN/ SULBACTAM	PIPERACILLIN/ TAZOBACTAM	CEFZOLIN (A)	CEFUROXIME SODIUM (parenteral)	CEFOPERAZONE / SULBACTAM ^a	CEFOTAXIME	CEFTAZIDIME	CEFTRIAXONE	CEFEPIME	OXACILLIN	CEFOXITIN	ERTAPENEM	IMIPENEM	MEROPENEM	COLISTIN BY MIC	CIPROFLOXACIN	LEVOFLOXACIN	AMIKACIN	GENTAMICIN	GENTAMICIN 120 µg	VANCOMYCIN	TEICoplanin	CLINDAMYCIN	ERYTHROMYCIN	CHLORAMPHENICOL	CO-TRIMOXAZOLE	TETRACYCLINE	
Gram negative	<i>Acinetobacter calcoaceticus-baumannii</i> complex	40	R	R	20 (40)					23 (40)					R	23 (40)	20 (40)		25 (40)		35 (40)	23 (40)										
	<i>Escherichia coli</i>	86	31 (86)	84 (86)	98 (86)				65 (86)	84 (86)	65 (86)			92 (86)	100 (86)	100 (86)	100 (86)		WT 51 (86)	52 (86)	100 (86)	79 (86)								55 (86)		
	<i>Klebsiella pneumoniae</i>	68	R	79 (68)	85 (68)				71 (68)	76 (68)	74 (68)				78 (68)	94 (68)	94 (68)	94 (68)		WT 66 (68)	74 (68)	100 (68)	82 (68)								75 (68)	
Gram positive	<i>Staphylococcus aureus</i> (all isolates)	32	9 (32)										94 (32)									84 (32)	100 (32)			e 97 (32)	84 (32)		88 (32)			
	(MRSA)	2																														
	(MSSA)	30	10 (30)										100 (30)									87 (30)				e 97 (30)	87 (30)		93 (30)			
	<i>Staphylococcus</i> , coagulase negative	58	12 (58)										34 (58)										57 (58)	100 (58)		e 41 (58)	29 (58)		74 (58)			
	(MRCNS)	38	0 (38)										0 (38)										34 (38)	100 (38)		e 13 (38)	8 (38)		61 (38)			
(MSCNS)	20																															

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

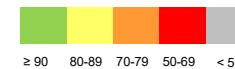
^b: Blood, Pleural Fluid

^c: Sputum, Ear, Sinus

^d: Interpret according to oxacillin susceptibility test

^e: MIC Interpretive Criteria

^f: MIC Interpretive Criteria, For the 20% nonsusceptible, 15% were intermediate (MIC 0.25 to 2µg/mL) and 5% were resistant (MIC ≥ 4 µg/mL) to penicillin.



Percentage of susceptible Organisms Isolated From Sputum, Hua Hin Hospitals, Jan - Dec 2021

Organism	TOTAL ISOLATES	ANTIBIOTIC CLASSES														POLY MYXINS	QUINOLONES		AMINOGLYCOSIDES		OTHERS											
		PENICILIN	AMPICILLIN	AMOXICILLIN / CLAVULANIC ACID	AMPICILLIN / SULBACTAM	PIPERACILLIN / TAZOBACTAM	CEFAZOLIN (A)	CEFUROXIME SODIUM (Oral)	CEFOPERAZONE/ SULBACTAM ^a	CEFOTAXIME	CEFTAZIDIME	CEFTRIAXONE	CEFEPIME	OXACILLIN	CEFOXITIN		ERTAPENEM	IMPENEM	MEROPENEM	COLISTIN BY MIC	CIPROFLOXACIN	LEVOFLOXACIN	AMIKACIN	GENTAMICIN	VANCOMYCIN	CLINDAMYCIN	ERYTHROMYCIN	CHLORAMPHENICOL	CO-TRIMOXAZOLE	TETRACYCLINE		
Gram negative	<i>Acinetobacter calcoaceticus-baumanni</i> complex	235		R	R		11 (235)				11 (235)					R	11 (235)	10 (235)		9 (235)		31 (235)	12 (235)						R			
	ICU	89		R	R		12 (89)				12 (89)									12 (89)		27 (89)	12 (89)						R			
	<i>Escherichia coli</i>	38		8 (38)	68 (38)		89 (38)															39 (38)	100 (38)	61 (38)							39 (38)	
	ICU	11																														
	<i>Klebsiella pneumoniae</i>	136		R	72 (136)		80 (136)			66 (136)	67 (136)	66 (136)				85 (136)	93 (136)	93 (136)	93 (136)		63 (136)	68 (136)	99 (136)	88 (136)							68 (136)	
	ICU	46		R	78 (46)		83 (46)			76 (46)	80 (46)	76 (46)				91 (46)	93 (46)	93 (46)	79 (46)		70 (46)	76 (46)	100 (46)	84 (45)							72 (46)	
<i>Pseudomonas aeruginosa</i>		116		R	R	R				79 (116)		R				R	35 (116)	65 (116)		78 (116)		94 (116)	86 (116)							R	R	R
	ICU	32		R	R	R				75 (32)		R				R	19 (32)	56 (32)		68 (32)		91 (32)	72 (32)							R	R	R
Gram positive	<i>Staphylococcus aureus</i>	55	5 (55)											98 ^f (55)								95 (55)	100 (55)	98 (54)	93 (55)					100 (55)		
	(MRSA)	1																														
	(MSSA)	54	6 (54)												100 ^f (54)								94 (54)	100 (54)	98 (53)	93 (54)					100 (54)	

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

^b : Blood, Pleural Fluid

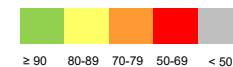
^c : Sputum, Ear, Sinus

^d : Interpretate according to oxacillin susceptibility test

^e : MIC Interpretive Criteria

^f : Interpretate according to cefoxitin susceptibility test

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



Percentage of susceptible Organisms Isolated From Urine, Hua Hin Hospitals, Jan - Dec 2021

Organism		TOTAL ISOLATES	BETA - LACTAMS														CARBAPENEMS			POLY MYXINS	QUINOLONES			AMINOGLYCOSIDES			MISCELLANEOUS										
			PENICILLIN	AMPICILLIN	AMOXICILLIN/CLAVULANIC ACID	AMPICILLIN/SULBACTAM	PIPERACILLIN/TAZOBACTAM	CEFAZOLIN (U)	CEFUROXIME SODIUM (Oral)	CEFOPERAZONE/SULBACTAM ^a	CEFOTAXIME	CEFTAZIDIME	CEFTRAXONE	CEFEPIME	OXACILLIN	CEFOXITIN	ERTAPENEM	IMPENEM	MEROPENEM	COLISTIN BY MIC	CIPROFLOXACIN	LEVOFLOXACIN	NORFLOXACIN	AMIKACIN	GENTAMICIN	GENTAMICIN 120 µg	VANCOMYCIN	TECOPOLAMIN	FOSFOMYCIN	CLINDAMYCIN	ERYTHROMYCIN	NITROFURANTOIN	CHLORAMPHENICOL	CO-TRIMOXAZOLE	TETRACYCLINE		
Gram negative	<i>Escherichia coli</i>	254		22 (254)	78 (254)		91 (254)			62 (254)	77 (254)	83 (254)			85 (254)	99 (254)	99 (254)	99 (254)	WT	33 (254)	34 (254)		99 (254)	74 (254)													48 (254)
	<i>Klebsiella pneumoniae</i>	79		R	61 (79)		72 (79)			54 (79)	57 (79)	58 (79)			65 (79)	84 (79)	84 (79)	84 (79)	WT	36 (79)	43 (79)		100 (79)	87 (79)												58 (79)	
	<i>Proteus mirabilis</i>	32			47 (32)	88 (32)		94 (32)			63 (32)	88 (32)	75 (32)			97 (31)	100 (32)	91 (32)	97 (32)		53 (32)	50 (32)		100 (32)	72 (32)										53 (32)		
	<i>Pseudomonas aeruginosa</i>	52		R	R	R	71 (52)				R	75 (52)	R			R	38 (52)	71 (52)			73 (52)			94 (52)	75 (52)								R	R	R		
Gram pos ^d	<i>Enterococcus faecalis</i>	45	58 (45)	89 (45)				R	R	R	R	R	R							31 (45)			R	R	31 ^h (45)	98 (45)		R					R				

^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

