

PERCENTAGE OF SUSCEPTIBLE	A		Beta-lactam									BLBI			Q		Mis	
	Gentamicin	Amikacin*	Ampicillin	Cefazolin**	Cefotaxime	Ceftriaxone	Ceftazidime***	Ertapenem***	Imipenem***	Meropenem***	Biapenem***	Amoxi/clave.	Pipera/Tazob.***	Ampicillin/Sulb.***	Norfloxac**	Ciprofloxacin***	Co-trimoxazole	Fosfomycin**
Gram negative Bacilli																		
Enterobacteriaceae																		
January - December 2021																		
Citrobacter sp.	91 (65)	91* (21)	2 (65)	54* (13)	71 (65)	72 (65)	18* (22)	68* (22)	71* (21)	68* (22)		45 (65)	57* (21)	14* (21)	72* (18)	67 (55)	83 (65)	70* (20)
Enterobacter cloacae	78 (151)	100 (59)	6 (152)	4* (23)	64 (151)	65 (152)	28 (65)	78 (58)	78 (59)	76 (58)		11 (151)	62 (63)	13 (60)	64* (25)	69 (134)	69 (146)	97 (60)
Enterobacter aerogenes	85 (89)	100 (32)	1 (89)	31* (13)	72 (89)	72 (88)	33 (33)	90 (31)	91 (32)	94 (31)		6 (89)	59 (32)	19 (32)	92* (13)	77 (81)	79 (82)	100 (32)
Escherichia coli(All)	66 (1332)	99 (617)	18 (1330)	55 (645)	57 (1332)	57 (1327)	45 (634)	98 (619)	99 (619)	98 (620)		82 (1330)	93 (622)	63 (619)	45 (777)	35 (913)	47 (1317)	98 (619)
Escherichia coli(ICU)	71 (78)	100 (38)	18 (79)	71* (28)	55 (78)	54 (79)	45 (40)	100 (38)	100 (38)	100 (40)		82 (78)	95 (38)	73 (37)	62 (34)	46 (59)	46 (76)	92 (38)
Escherichia coli(IPD Non ICU)	66 (1190)	99 (555)	18 (1188)	54 (578)	57 (1190)	57 (1184)	44 (570)	98 (557)	98 (557)	98 (556)		82 (1189)	93 (560)	61 (558)	46 (697)	35 (816)	46 (1176)	98 (556)
Escherichia coli(OPD)	65 (105)	98 (48)	14 (104)	49 (59)	57 (105)	56 (105)	50 (48)	100 (48)	100 (48)	100 (48)		77 (104)	94 (48)	71 (48)	25 (69)	29 (72)	49 (105)	100 (47)
Escherichia coli(H/C)	64 (262)	98 (107)	19 (264)		61 (262)	61 (263)	46 (122)	100 (110)	100 (107)	100 (109)		87 (261)	94 (108)	57 (108)		45 (255)	46 (263)	99 (107)
Escherichia coli(Sputum)	58 (127)	100 (82)	9 (127)		42 (127)	41 (126)	40 (83)	96 (83)	98 (83)	96 (83)		77 (127)	89 (83)	59 (83)		43 (126)	32 (122)	95 (83)
Escherichia coli(Urine)	67 (878)	99 (419)	18 (874)	54 (718)	56 (878)	55 (873)	42 (420)	98 (417)	99 (420)	99 (420)		80 (878)	93 (421)	60 (419)	44 (872)	17 (427)	45 (871)	99 (419)
Klebsiella pneumoniae(All)	86 (1067)	77 (492)		58 (183)	56 (1067)	56 (1066)	15 (510)	56 (497)	59 (500)	57 (501)		62 (1067)	47 (505)	19 (500)	62 (213)	52 (937)	58 (1050)	91 (495)
Klebsiella pneumoniae(ICU)	91 (165)	82 (78)		62 (13)	55 (165)	55 (165)	20 (86)	51 (81)	54 (81)	52 (83)		56 (165)	35 (82)	12 (81)	67 (15)	52 (153)	56 (160)	90 (80)
Klebsiella pneumoniae(IPD Non ICU)	85 (902)	76 (425)		58 (165)	55 (902)	55 (901)	14 (436)	56 (428)	59 (431)	57 (430)		61 (902)	48 (435)	20 (431)	65 (189)	51 (788)	57 (890)	91 (427)
Klebsiella pneumoniae(OPD)	82 (33)	55* (11)		60* (10)	67 (33)	69 (32)	9* (11)	36* (11)	36* (11)	36* (11)		67 (33)	27* (11)	18* (11)	19* (16)	50* (24)	55 (33)	91* (11)
Klebsiella pneumoniae(H/C)	85 (153)	76 (78)			50 (153)	51 (154)	15 (87)	57 (81)	59 (82)	55 (83)		59 (153)	44 (82)	22 (82)		48 (145)	52 (151)	87 (78)
Klebsiella pneumoniae(Sputum)	85 (619)	78 (322)			49 (619)	50 (618)	14 (331)	53 (324)	57 (327)	55 (328)		56 (619)	44 (332)	16 (327)		53 (612)	54 (605)	92 (325)
Klebsiella pneumoniae(Urine)	85 (259)	70 (126)		54 (218)	54 (259)	54 (258)	9 (127)	45 (126)	48 (127)	48 (124)		58 (259)	39 (127)	18 (127)	58 (257)	14 (129)	52 (258)	84 (127)
Morganella morganii ss. morganii	92 (51)	100* (2)	0 (51)	0* (13)	96 (51)	98 (51)	50* (2)	100* (2)	100* (2)	100* (2)		2 (51)	100* (3)	0* (2)	94* (16)	89 (36)	77 (51)	0* (2)
Proteus mirabilis	86 (184)	100* (24)	54 (184)	88 (66)	89 (184)	90 (182)	80* (25)	100* (24)	100* (24)	100* (25)		94 (184)	96* (24)	58* (24)	83 (77)	76 (113)	65 (183)	74* (23)
Proteus sp.	88 (213)	100* (27)	48 (213)	80 (73)	90 (213)	91 (211)	82* (28)	100* (27)	100* (27)	100* (29)		91 (213)	96* (28)	63* (27)	85 (85)	79 (135)	68 (211)	76* (25)
Salmonella sp.			78 (55)		95 (55)	95 (55)	75* (8)	100* (6)	100* (6)	100* (6)		100 (55)	100* (6)	83* (6)	100* (3)	78 (51)	96 (56)	100* (6)
Serratia marcescens	100 (19)	100 (3)	0 (19)	0 (2)	100 (19)	100 (19)	100 (4)	100 (2)	100 (3)	100 (3)		0 (19)	100 (3)	0 (2)	100 (2)	100 (18)	100 (18)	100 (2)

* = n<30

()= Number tested

**= Only urinary tract infection

A=Aminoglycoside Q=Quinolone

Mis=Miscellaneous

R=Intrinsic Resistance

***=Test after organism non-susceptible to Cefotaxime

PERCENTAGE OF SUSCEPTIBLE Gram negative Bacilli Non-Ferment January - December 2021	A		Beta-lactam									Quinolone			Mis		
	Gentamicin	Amikacin*	Ampicillin	Cefotaxime	Ceftriaxone	Ceftazidime***	Imipenem***	Meropenem***	Amoxi/clave.	Pipera/Tazob.***	Ampicillin/Sulb.***	Ceftolozane/Tazob.***	Norfloxacin**	Ciprofloxacin***	Levofloxacin	Co-trimoxazole	Colistin
Acinetobacter baumannii(All)	34 (849)	42 (843)		4 (849)	0* (22)	23 (849)	20 (849)	20 (849)		20 (849)	25 (848)			20 (848)		22 (834)	100 (822)
Acinetobacter baumannii(ICU)	25 (180)	33 (178)		3 (180)	0* (3)	16 (180)	13 (180)	13 (180)		14 (180)	18 (180)			14 (180)		16 (178)	100 (176)
Acinetobacter baumannii(non ICU)	35 (722)	43 (718)		4 (722)	0* (19)	24 (722)	21 (722)	21 (722)		21 (722)	26 (721)			20 (721)		23 (708)	100 (698)
Acinetobacter baumannii(Sputum)	31 (641)	39 (636)		3 (641)		19 (641)	16 (641)	16 (641)		16 (641)	22 (641)			16 (641)		19 (629)	100 (620)
Acinetobacter baumannii(H/C)	30 (137)	40 (136)		4 (137)	0* (14)	23 (137)	22 (137)	23 (137)		23 (137)	25 (136)			20 (136)		27 (136)	100 (131)
Acinetobacter baumannii(Urine)	26 (110)	28 (110)		0 (110)	0* (14)	14 (111)	12 (111)	12 (111)		12 (111)	15 (110)			12 (111)		13 (110)	100 (106)
Burkholderia pseudomallei						100* (10)	100* (1)	100* (1)	100* (11)								100* (5)
Pseudomonas aeruginosa(All)	94 (510)	96 (511)				91 (513)	87 (513)	88 (513)		91 (513)				91 (512)			
Pseudomonas aeruginosa(ICU)	98 (64)	100 (63)				97 (64)	91 (64)	91 (64)		95 (64)				97 (63)			
Pseudomonas aeruginosa(non ICU)	93 (457)	96 (459)				90 (460)	85 (460)	87 (460)		90 (460)				90 (460)			
Pseudomonas aeruginosa(Sputum)	96 (305)	99 (305)				95 (306)	86 (306)	89 (306)		94 (306)				94 (305)			
Pseudomonas aeruginosa(H/C)	95 (39)	97 (37)				92 (39)	85 (39)	85 (39)		95 (39)				92 (39)			
Pseudomonas aeruginosa(Urine)	84 (92)	85 (92)				76 (92)	77 (92)	78 (92)		76 (92)				78 (92)			
Stenotrophomonas maltophilia						0 (35)										97 (108)	95 (108)

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A=Aminoglycoside Mis=Miscellar R=Intrinsic Resistance

***=Test after organism non-susceptible to Cefotaxime

PERCENTAGE OF SUSCEPTIBLE Gram negative cocci & Miscellaneous January - December 2021	A		Beta-Lactam				G	Miscellaneous							
	Gentamicin	Genta.High.Level	Amoxi/clav.	Ampicillin	Cefotaxime	Cefoxitin	Penicillin	Vancomycin	Chloramphenicol	Clindamycin	Co-trimoxazole	Erythromycin	Fosfomycin	Fusidic acid	Tetracycline
Enterococcus sp.		83 (747)		67 (758)			63 (761)	99 (760)				16 (317)	97 (241)		
Enterococcus faecium(3%VRE)		90 (256)		5 (262)			4 (263)	97 (263)				9 (78)	80 (10)		
E.faecium(H/C)		90 (238)		6 (245)			4 (245)	97 (245)				12 (59)	80 (10)		
E.faecium(Urine)		92 (86)		14 (85)			12 (86)	97 (86)				8.8 (80)			
Enterococcus faecalis		80 (481)		99 (486)			95 (488)	100 (488)				17 (231)	97 (231)		
E.faecalis(H/C)		80 (461)		99 (467)			94 (468)	100 (468)				18 (208)	97.5 (236)		
E.faecalis(Urine)		88 (257)		100 (256)			98 (258)	100 (258)				16.9 (237)			
Streptococcus pneumoniae					91* (11)		91* (11)	100* (12)	88* (8)	75* (12)	55* (11)	50* (12)			50* (8)
Staphylococcus aureus (All)	95 (614)		93 (613)			91 (613)		100* (5)		85 (587)	99 (606)	83 (553)	100 (614)	99 (614)	
S.aureus (MRSA)	56 (64)		28 (64)			0 (64)		100 (5)		15 (62)	94 (62)	10 (60)	97 (64)	97 (64)	
S.aureus(MRSA ICU)	29* (7)		29* (7)			0* (7)		100* (1)		0* (7)	100* (7)	0* (7)	100* (7)	86* (7)	
S.aureus(MRSA IPD Non ICU)	60 (55)		29 (55)			0 (55)		100* (3)		15 (54)	93 (53)	12 (52)	96 (55)	98 (55)	
S.aureus(MRSA OPD)	67* (3)		33* (3)			0* (3)		100* (1)		50* (2)	100* (3)	0* (2)	100* (3)	100* (3)	
S.aureus (MSSA)	99 (559)		100 (558)			100 (558)				92 (534)	100 (553)	91 (501)	100 (559)	99 (559)	
S.aureus(MSSA ICU)	100 (44)		100 (44)			100 (44)				98 (42)	100 (44)	95 (40)	100 (44)	98 (44)	
S.aureus(MSSA IPD Non ICU)	98 (485)		100 (484)			100 (484)				92 (463)	99 (480)	91 (432)	100 (485)	99 (485)	
S.aureus(MSSA OPD)	100 (33)		100 (33)			100 (33)				88 (32)	100 (32)	84 (31)	100 (33)	100 (33)	
Staphylococcus coagulase negative	67 (197)		73 (197)			39 (196)		100* (3)		37 (137)	66 (194)	31 (131)	73 (195)	65 (198)	
Staphylococcus saprophyticus	100* (17)		94* (17)			71* (17)				43* (7)	88* (17)	71* (7)	59* (17)	24* (17)	
Staphylococcus lugdunensis	75* (4)		75* (4)			75* (4)				25* (4)	75* (4)	25* (4)	75* (4)	75* (4)	
Alpha-hemolytic Streptococcus***				80* (5)			68* (19)	95* (20)		86* (21)		70* (20)			

*** = Alpha-hemolytic Streptococcus Penicillin Intermediated = 32%

** = Sterile site only

A=Aminoglycoside

G=Glycopeptide

R=Intrinsic Resistance

PERCENTAGE OF SUSCEPTIBLE Gram negative cocci & Miscellaneous January - December 2021	Penicillin	Cefotaxime	Ceftazidime	Ceftriaxone	Ofloxacin	Ciprofloxacin	Tetracycline	Ampicillin	Amoxi/clave	Chloramphenicol	Co-trimoxazole
	Neisseria gonorrhoeae	100* (1)	100* (1)	100* (1)	100* (1)	0* (1)	0* (1)				
Haemophilus influenzae		100* (2)					100* (2)	0* (2)	50* (2)	100* (2)	50* (2)

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PERCENTAGE OF SUSCEPTIBLE Gram negative Bacilli Gastrointestinal Tract January - December 2021	Ampicillin	Co-trimoxazole	Norfloracin	Ciprofloxacin
Aeromonas sp.	0* (7)	86* (7)	86* (7)	57* (7)
Salmonella sp.	63 (76)	95 (76)	100 (76)	79 (76)
Vibrio parahaemolyticus	11* (9)	100* (9)	100* (9)	89* (9)
Vibrio cholerae non O1, non O139	50* (2)	100* (2)	100* (2)	100* (2)

PERCENTAGE OF SUSCEPTIBLE Mycobacterium tuberculosis January - December 2021	Streptomycin	Isoniazid	Rifampin	Ethambutol
Mycobacterium tuberculosis (MDR-TB 1.9%)	94 (101)	88 (105)	97 (105)	100 (101)

* = n<30

MDR-TB = ตี้อต่อ INH+RF , RR-TB = ตี้อต่อ RF , XDR-TB = ตี้อต่อ INH&RF&AG&Q

() = Number tested

SECTION OF MICROBIOLOGY DEPARTMENT OF PATHOLOGY
PRAPOKKLAO HOSPITAL



ANTIMICROBIAL SUSCEPTIBILITY - JANUARY - DECEMBER 2021