



## SINDH INFECTIOUS DISEASES HOSPITAL & RESEARCH CENTER Antibiotic Susceptibility Report January 2024-December 2025



### Gram Negative Bacteria (Source: Blood) [%susceptible(total number of isolates tested)]

Organisms	AMP	AMC	CXM	CFM	CRO	ERT	IPM	MEM	TZP	AK	CN	CIP	SXT	CZA	AZM	C		
<i>E.coli</i> (113)	0 (96)	24 (109)	3 (113)	6 (108)	8 (113)	83 (40)	86 (113)	87 (113)	32 (97)	38 (48)	31 (111)	5 (109)	24 (113)	43 (21)	..	..		
<i>Klebsiella</i> spp. (142)	..	13 (139)	6 (115)	12 (57)	9 (139)	27 (100)	28 (124)	24 (140)	12 (76)	25 (52)	29 (141)	11 (140)	27 (139)	17 (115)	..	..		
<i>Enterobacter</i> , <i>Citrobacter</i> , <i>Serratia</i>	..	..	..	17 (29)	40 (35)	..	50 (32)	54 (35)	20 (35)	..	35 (17)	48 (33)	59 (34)	..	..	..		
<i>Salmonella</i> enterica ser.Typhi(318)	17 (313)	..	..	..	25 (316)	100 (93)	100 (112)	100 (268)	..	..	..	4 (316)	24 (315)	..	100 (269)	30 (205)		
<i>Salmonella</i> enterica ser.Para Typhi A (41)	98 (41)	..	..	..	100 (41)	..	..	..	..	..	..	2 (41)	100 (41)	..	..	100 (24)		
Organisms	CAZ	FEP	MEM	IMP	TZP	AK	CN	TOB	CIP	LEV	SXT	MH						
<i>P.aeruginosa</i> (40)	90 (39)	89 (37)	85 (40)	88 (19)	90 (40)	..	..	90 (30)	88 (40)	79 (29)	..	..						
<i>Acinetobacter</i> spp.(133)	21 (24)	19 (21)	21 (24)	21 (24)	25 (24)	38 (24)	29 (24)	42 (12)	30 (20)	25 (8)	25 (24)	48 (21)						

There is no "susceptible" category for colistin according to the current guidelines. Isolates are either intermediate or resistant.

Percent resistance rates for colistin and number of isolates tested for colistin are: *E.coli*: 0%(15), *Klebsiella* spp.:32%(90), *Enterobacter* spp.: 0%(3), *Pseudomonas aeruginosa* 0%(4), *Acinetobacter* spp.:11%(18).Note: Less than 30 isolates in any category may show less statistical significance.

### Gram Positive Bacteria (Source: Blood) [%susceptible(total number of isolates tested)]

Organisms	P	FOX	AMP	AMC	CRO	DA	E	VAN	LZD	TE	CN	SXT	CIP	LEV	C		
<i>S.aureus</i> (90)	..	13 (89)	..	..	..	52 (89)	33 (90)	100 (86)	100 (45)	62 (86)	74 (90)	67 (90)	25 (81)	..	..		
<i>Enterococcus</i> spp. (67)	..	..	28 (64)	..	..	..	..	43 (63)	92 (51)	..	..	..	14 (51)	..	..		
<i>S.pneumoniae</i> (46)	59 (37)	..	92 (26)	96 (23)	97 (37)	33 (45)	20 (45)	100 (45)	..	23 (40)	..	5 (41)	..	88 (43)	100 (4)		
<i>Streptococcus</i> spp. (47)	..	..	35 (23)	..	59 (46)	64 (47)	17 (46)	98 (47)	..	48 (23)	..	..	..	68 (40)	..		

Gram Negative Bacteria (Source: Urine) [%susceptible(total number of isolates tested)]																		
Organisms	AMP	AMC	CXM	CFM	CRO	ERT	IPM	MEM	TZP	AK	CN	CIP	LEV	SXT	F	FOT	CZA	MH
<i>E.coli</i> (930)	5 (905)	30 (923)	10 (926)	11 (883)	15 (929)	81 (294)	81 (916)	81 (929)	49 (846)	34 (895)	46 (926)	12 (920)	..	23 (929)	86 (922)	96 (901)	25 (187)	44 (179)
<i>Klebsiella</i> spp. (268)	..	35 (268)	19 (191)	30 (133)	30 (267)	57 (179)	56 (195)	51 (256)	47 (135)	41 (258)	52 (268)	30 (268)	37 (125)	43 (267)	36 (168)	89 (141)	25 (167)	37 (52)
<i>Proteus mirabilis</i> (23)	22 (18)	70 (23)	36 (22)	38 (21)	48 (23)	100 (9)	..	100 (23)	96 (23)	43 (21)	45 (22)	30 (23)	..	32 (22)	..	..		
Organisms	CAZ	FEP	MEM	IMP	TZP	AK	TOB	CIP	LEV									
<i>P.aeruginosa</i> (91)	74 (91)	74 (90)	70 (91)	69 (36)	69 (91)	74 (81)	72 (79)	68 (90)	62 (78)									

There is no "susceptible" category for colistin according to the current guidelines. Isolates are either intermediate or resistant. Percent resistance rates for colistin and number of isolates tested for colistin are: *E.coli*: 2%(165), *Klebsiella* spp.:18%(167), *Pseudomonas aeruginosa* 0%(25). Note: Less than 30 isolates in any category may show less statistical significance.

Gram Positive Bacteria (Source: Urine) [%susceptible(total number of isolates tested)]																		
Organisms	FOX	AMP	CN	CIP	VAN	SXT	LZD	TE	FOT	F								
<i>Enterococcus</i> spp. (290)	..	41 (261)	..	9 (288)	64 (284)	..	88 (165)	15 (276)	79 (282)	51 (288)								
<i>S.aureus</i> (26)	15 (26)	..	68 (25)	12 (25)	100 (16)	92 (26)	..	65 (26)	..	100 (26)	..							

Gram Negative Bacteria (Source: Stool) [%susceptible(total number of isolates tested)]																		
Organisms	AMP	CRO	TE	CIP	LEV	SXT	AZM	ERT	MEM	IPM								
<i>Vibrio cholerae</i> (59)	5 (59)	..	98 (56)	98 (58)	100 (28)	27 (59)	96 (27)	..	..	..								
<i>Aeromonas</i> spp. (34)	..	73 (33)	92 (24)	47 (34)	45 (31)	76 (33)	..	..	78 (23)	53 (19)								
<i>Salmonella enterica</i> ser. Typhi (13)	36 (11)	38 (13)	..	0 (13)	..	31 (13)	100 (8)	100 (9)	100 (9)	100 (9)								
<i>Shigella</i> spp. (14)	43 (14)	43 (14)	..	21 (14)	50 (14)	82 (11)	90 (10)	100 (10)	100 (10)	100 (8)								

Note: Less than 30 isolates in any category may show less statistical significance.

Gram Negative Bacteria (Source: Other samples) [%susceptible(total number of isolates tested)]																		
Organisms	AMP	AMC	CXM	CFM	CRO	ERT	IPM	MEM	TZP	AK	CN	TOB	CIP	LEV	SXT	CZA	TE	E
<i>E.coli</i> (85)	0 (14)	15 (84)	7 (83)	9 (81)	8 (85)	57 (44)	71 (83)	84 (73)	27 (81)	26 (38)	50 (84)	47 (83)	3 (36)	12 (76)	15 (85)	38 (32)	..	..
<i>Klebsiella</i> spp. (615)	..	31 (609)	18 (445)	35 (262)	33 (448)	46 (407)	47 (486)	46 (597)	40 (560)	40 (156)	45 (608)	55 (262)	29 (417)	56 (264)	41 (602)	25 (422)	..	..
<i>Enterobacter</i> , <i>Citrobacter</i> , <i>Serratia</i> spp.(30)	..	..	..	38 (26)	43 (30)	..	59 (29)	63 (30)	43 (28)	..	48 (21)	..	38 (16)	..	45 (29)	..	..	..
<i>Proteus mirabilis</i> (17)	..	59 (17)	13 (16)	25 (16)	31 (16)	100 (6)	..	100 (17)	94 (17)	0 (4)	6 (17)	18 (17)	27 (11)	31 (16)	6 (16)	..	..	..
<i>H.influenzae</i> (139)	50 (139)	..	53 (135)	78 (83)	99 (139)	..	..	..	..	..	..	..	55 (138)	69 (64)	20 (134)	..	56 (61)	..
<i>H.parainfluenzae</i> (112)	50 (111)	..	73 (40)	93 (54)	92 (111)	..	..	..	..	..	..	..	32 (41)	51 (41)	14 (111)	..	40 (40)	..
<i>Moraxella cataractalis</i> (56)	100 (53)	..	0 (22)	91 (32)	91 (56)	..	..	..	..	..	..	..	37 (54)	31 (52)	24 (55)	..	80 (44)	63 (52)
Organisms	CAZ	FEP	MEM	IMP	TZP	AK	CN	TOB	CIP	LEV	MH	SXT						
<i>P.aeruginosa</i> (705)	90 (705)	87 (696)	86 (703)	90 (238)	90 (700)	..	..	89 (695)	79 (679)	70 (688)	..	..	..	..	..	..	..	..
<i>Acinetobacter</i> spp. (469)	4 (459)	4 (165)	3 (468)	3 (462)	3 (465)	5 (101)	9 (462)	14 (446)	1 (199)	3 (434)	67 (460)	4 (467)	..	..	..	..	..	..
<i>S.maltophilia</i> (66)	..	..	..	..	..	..	..	..	..	94 (66)	92 (66)	94 (66)	..	..	..	..	..	..
<p>There is no "susceptible" category for colistin according to the current guidelines. Isolates are either intermediate or resistant.  Percent resistance rates for colistin and number of isolates tested for colistin are: <i>E.coli</i>: 0%(20), <i>Klebsiella</i> spp.:16%(281), <i>Enterobacter</i> spp.: 0%(3), <i>Acinetobacter</i> spp.:6%(407), <i>Pseudomonas aeruginosa</i>: 16%(70). Note: Less than 30 isolates in any category may show less statistical significance.</p>																		
Gram Positive Bacteria (Source: Other samples) [%susceptible(total number of isolates tested)]																		
Organisms	P	FOX	AMP	AMC	CRO	DA	E	VAN	LZD	TE	CN	SXT	CIP	LEV	FD			
<i>Staphylococcus aureus</i>	..	24 (555)	..	..	..	49 (561)	23 (558)	100 (322)	100 (177)	61 (535)	80 (557)	83 (558)	22 (508)	..	81 (94)	..	..	..
<i>S. pneumoniae</i> (82)	48 (66)	..	94 (47)	95 (44)	97 (69)	52 (82)	26 (81)	100 (82)	..	25 (76)	..	15 (75)	..	85 (79)	..	..	..	..
<i>Beta hemolytic Streptococci</i> (32)	100 (32)	..	..	..	100 (16)	61 (28)	54 (13)	100 (32)	..	23 (32)	..	..	..	80 (15)	..	..	..	..

