



The Kidney Centre Post Graduate Training Institute

Antibiotic susceptibility report January 2023-December 2023

Department of Pathology (Microbiology)

In patients(%susceptible) GRAM NEGATIVE BACTERIA (Source: Blood)

Organisms	No.	AMC	CXM	CFM	CRO	ERT	IPM	MEM	TZP	SCF	AK	CN	TOB	CIP	SXT			
<i>E.coli</i>	69	36	8	14	22	75	80	84	57	32	46	50	59	7	19			
<i>Klebsiella spp.</i>	39	10	6	5	14	36	56	46	21	18	39	34	33	11	38			
<i>Enterobacter spp.</i>	25	..	16	48	48	68	67	80	48	32	42	67	64	48	95			
Organisms	No.	CAZ	MEM	IMP	TZP	MH	AK	CN	TOB	CIP	SXT	LEV	FEP	CRO	CXM			
<i>Stenotrophomonas maltophilia</i>	74	NT	..	..	..	100	..	..	..	..	100	99	..	..	..
<i>Pseudomonas aeruginosa</i>	34	70	61	68	79	..	..	..	67	71	..	68	60	..	..	
<i>Aeromonas spp.</i>	22	90	80	52	81	..	85	94	..	95	80	95	82	85	67			
<i>Acinetobacter spp.</i>	19	67	56	58	58	100	71	74	81	68	75	72	50	..	..	

There is no "susceptible" category for colistin according to the current guidelines. Isolates are either intermediate or resistant. Percent resistance rates and number of isolates tested for colistin are: *E.coli* : 0%(12), *Klebsiella spp.*:23%(22), *Enterobacter spp.*: 60% (5) , *Pseudomonas aeruginosa* :0%(8), *Acinetobacter spp.*:0%(7).

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

Out patients(%susceptible GRAM NEGATIVE BACTERIA)(Source: Blood)

Organisms	No.	AMC	CXM	CFM	CRO	ERT	IPM	MEM	TZP	SCF	AK	CN	TOB	CIP	SXT			
<i>Klebsiella spp.</i>	61	13	0	0	0	18	20	28	11	7	23	30	15	2	12			
<i>E.coli</i>	41	35	0	0	6	45	56	59	16	13	41	54	27	6	14			
<i>Enterobacter spp.</i>	18	..	0	13	20	47	50	53	18	12	67	47	18	25	33			
Organisms	No.	CAZ	MEM	IMP	TZP	MH	AK	CN	TOB	CIP	SXT	LEV	FEP					
<i>Acinetobacter spp.</i>	26	17	23	23	31	96	42	31	38	31	24	36	15					
<i>Pseudomonas aeruginosa</i>	10	80	90	90	90	..	..	..	50	50	..	50	70					

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* : 7%(14), *Klebsiella spp.*:11%(28), *Enterobacter spp.*: 0%(4), *Pseudomonas aeruginosa* 0%(3), *Acinetobacter spp.*:0%(12).

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

All patients(%susceptible) GRAM NEGATIVE BACTERIA)(Source: Blood)

Organisms	No.	AMC	CXM	CFM	CRO	ERT	IPM	MEM	TZP	SCF	AK	CN	TOB	CIP	SXT	LEV			
<i>Serratia spp.</i>	20	..	..	0	11	35	30	53	15	15	0	16	17	15	53	14			
Organisms	No.	AMP	CFM	CRO	AZM	ERT	MEM	IPM	CIP	SXT	C								
<i>Salmonella enterica ser.Typhi</i>	20	32	35	35	100	100	100	100	0	26	24								
Organisms	No.	CAZ	MEM	MH	SXT	LEV													
<i>Burkholderia cepacia</i>	17	69	50	93	79	NT													

In patients(%susceptible) GRAM POSITIVE BACTERIA)(Source: Blood)

Organisms	No.	FOX	AMP	CN	CIP	DA	E	VAN	FD	SXT	LZD	TE	C					
<i>Staphylococcus aureus</i>	110	33	..	65	20	68	36	100	73	78	..	63	..					

<i>Staphylococcus</i> <i>spp.</i>	115	11	..	52	28	48	18	..	29	32	..	64	..					
<i>Enterococcus</i> <i>spp.</i>	28	..	14	..	..	..	..	46	..	..	100	..	96					
Organisms	No.	P	AMP	CXM	CRO	DA	E	VAN	DO	LEV	SXT	TE	C					
<i>Streptococcus</i> <i>pneumoniae</i>	12	30	100	100	100	82	64	100	67	100	27	50	100					
	Susceptibility data includes non-meningitis isolates.																	
<i>Streptococcus</i> <i>spp.</i>	13	..	67	..	100	82	45	100	..	69	..	40	93					
<i>Beta hemolytic</i> <i>Streptococci</i>	7	100	..	..	100	43	43	100	..	83	..	29	60					
Out patients(%susceptible GRAM POSITIVE BACTERIA)(Source: Blood)																		
Organisms	No.	FOX	AMP	CN	CIP	DA	E	VAN	FD	SXT	LZD	TE	C					
<i>Staphylococcus</i> <i>aureus</i>	19	16	..	74	22	63	21	100	53	63	..	71	..					
<i>Staphylococcus</i> <i>spp.</i>	191	5	..	43	16	46	5	..	18	22	..	45	..					
<i>Enterococcus</i> <i>spp.</i>	8	..	25	..	..	..	..	75	..	..	100	..	88					
All patients(%susceptible) <i>Candida</i> spp.(Source: Blood)																		
		FLU	VOR															
<i>Candida</i> <i>spp.(C.albicans,</i> <i>C.tropicalis,</i> <i>C.parapsilosis)</i>	19	100	100															
In patients(%susceptible GRAM NEGATIVE BACTERIA) (Source: Urine)																		
Organisms	No.	AMC	CXM	CFM	CRO	ERT	IPM	MEM	TZP	SCF	AK	CN	TOB	CIP	NA	SXT	F	FOT
<i>E.coli</i>	586	39	12	16	24	83	80	79	52	32	56	66	64	14	6	29	88	95
<i>Klebsiella</i> spp.	142	41	22	34	34	67	51	49	51	36	55	58	48	32	30	34	41	87
<i>Enterobacter</i> <i>spp.</i>	20	..	17	18	39	47	68	71	44	32	53	50	..	47	27	57	21	85
<i>Proteus</i> <i>mirabilis</i>	18	62	40	38	64	100	..	100	100	94	69	31	17	22	17	29	..	83
<i>Serratia</i> spp.	10	..	..	13	56	80	78	88	78	50	56	43	..	50	50	57	..	60
Organisms	No.	CAZ	MEM	IMP	TZP	MH	AK	CN	TOB	CIP	SXT	LEV	FEP					
<i>Pseudomonas</i> <i>aeruginosa</i>	142	45	40	43	48	..	47	..	46	29	..	28	46					
<i>Acinetobacter</i> <i>spp.</i>	30	70	72	67	67	92	48	64	77	50	58	61	74					
<i>Burkholderia</i> <i>cepacia</i>	21	81	57	..	..	60	..	..	..	..	59	..	..			
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> : 2%(56), <i>Klebsiella</i> spp.:19%(32), <i>Enterobacter</i> spp.: 0%(6), <i>Pseudomonas aeruginosa</i> 4%(69), <i>Acinetobacter</i> spp.:40%(5). Note: Less than 30 isolates in any category may show less statistical significance.																		
Out patients(%susceptible GRAM NEGATIVE BACTERIA)(Source: Urine)																		
Organisms	No.	AMC	CXM	CFM	CRO	ERT	IPM	MEM	TZP	SCF	AK	CN	TOB	CIP	NA	SXT	F	FOT
<i>E.coli</i>	1004	38	13	19	27	86	82	82	49	28	54	59	60	4	5	31	88	93
<i>Klebsiella</i> spp.	210	43	30	36	46	72	63	61	60	47	59	62	64	32	24	42	48	84
<i>Serratia</i> spp.	27	..	..	12	35	61	47	53	50	39	46	41	NT	39	33	48	..	89
<i>Proteus</i> <i>mirabilis</i>	27	71	54	NT	65	100	..	100	100	96	74	43	NT	23	7	22	..	89
<i>Enterobacter</i> <i>spp.</i>	22	..	15	25	44	82	81	81	67	50	68	80	NT	55	44	59	25	82

<i>Pseudomonas aeruginosa</i>	77	72	79	78	76	72	68	55	52									
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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), *Pseudomonas aeruginosa* 0%(14). Note: Less than 30 isolates in any category may show less statistical significance.

All patients(%susceptibleGRAM NEGATIVE BACTERIA) (Source: Other samples)

Organisms	No.	AMC	CXM	CFM	CRO	ERT	IPM	MEM	TZP	SCF	AK	CN	TOB	CIP	SXT			
<i>Klebsiella spp.</i>	37	31	0	5	9	65	62	61	38	18	50	58	44	6	22			
<i>Proteus mirabilis</i>	20	59	32	33	47	82	..	94	94	67	38	11	14	25	16			
Organisms	No.	CAZ	MEM	IMP	TZP	FEP	AK	CN	TOB	CIP	SXT	LEV	DO	MH				
<i>Acinetobacter spp.</i>	21	5	11	10	10	6	17	40	60	10	45	5	93	95				

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: *Klebsiella spp.*:20%(10),*Acinetobacter spp.*:8%(12). Note: Less than 30 isolates in any category may show less statistical significance.

In patients(%susceptible GRAM POSITIVE BACTERIA) (Source: Other samples)

Organisms	No.	FOX	AMP	CN	CIP	DA	E	VAN	FD	SXT	LZD	TE					
<i>Staphylococcus aureus</i>	16	0	..	44	20	71	50	100	36	71	..	50					
<i>Enterococcus spp.</i>	11	..	55	..	75	..	..	89	..	..	100	63					

Out patients(%susceptible GRAM POSITIVE BACTERIA) (Source: Other samples)

Organisms	No.	FOX	AMP	CN	CIP	DA	E	VAN	FD	SXT	LZD	TE					
<i>Staphylococcus aureus</i>	105	22	..	73	26	70	33	100	59	83	..	47					
<i>Enterococcus spp.</i>	37	..	46	..	..	..	6	85	..	..	100	..					

All patients(%susceptible GRAM POSITIVE BACTERIA) (Source: Other samples)

Organisms	No.	P	AMP	CRO	DA	E	VAN	LEV	TE	C							
<i>Beta hemolytic Streptococci</i>	18	100	..	100	14	15	100	100	17	50							
<i>Streptococcus spp.</i>	18	..	95	95	75	41	100	65	35	95							

Abbreviations

AK	Amikacin
AMC	Amoxicillin-clavulanate
AMP	Ampicillin
AZM	Azithromycin
C	Chloramphenicol
CAZ	Ceftazidime
CFM	Cefixime
CIP	Ciprofloxacin
CN	Gentamicin
CRO	Ceftriaxone
CXM	Cefuroxime
DA	Clindamycin
DO	Doxycycline
E	Erthromycin
ERT	Ertapenem
F	Nitrofurantoin
FD	Fusidic Acid
FOT	Fosfomycin
FOX	Cefoxitin(Methicillin)
IPM	Imipenem
LEV	Levofloxacin

LZD	Linezolid
MEM	Meropenem
NA	Nalidixic acid
SCF	Cefoperazone-sulbactam
SXT	Trimethoprim-sulfamethoxazole
TOB	Tobramycin
TZP	Piperacillin-tazobactam
VA	Vancomycin
NT	Not tested
Note: Less than 30 isolates in any category may show less statistical significance.	

