Antibiogram (in % nonsusceptible) for six selected bacterial isolates from private hospitals by in- and out-patient setting for year 2014-2020

Antibiogram for in-patient setting

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
Staphylococcus aureus	**No. of isolates**	**2817**	**2992**	**2901**	**3056**	**3602**	**3730**	**2386**
	Clindamycin	31	26	26	27	24	26	26
	Erythromycin	33	31	32	31	29	31	30
	Fusidic acid	3	3	3	5	3	5	6
	Gentamicin	11	12	9	8	8	7	10
	Linezolid	0	0	0	0	0	0	0
	Penicillin	87	84	87	86	84	84	85
	Trimethoprim +sulfamethoxazole	2	2	1	2	2	2	1
	Vancomycin	0	0	0	0	0	0	0
	MRSA	**22**	**20**	**19**	**21**	**19**	**21**	**22**

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
Escherichia coli	**No. of isolates**	**4575**	**4732**	**4409**	**4298**	**5374**	**5090**	**4387**
	Amikacin	3	2	1	1	2	2	1
	Amoxicillin+clavulanic acid	31	33	27	25	28	31	29
	Ampicillin	72	73	74	72	74	74	72
	Cefotaxime	31	30	29	29	29	28	30
	Ceftazidime	30	29	28	27	24	20	20
	Ceftriaxone	30	29	28	27	28	26	28
	Cefuroxime	37	37	36	36	38	37	37
	Ciprofloxacin	38	36	36	35	37	38	49
	Ertapenem	0	0	0	1	1	1	1
	Gentamicin	30	29	28	28	28	26	23
	Imipenem	0	0	0	0	1	0	0
	Levofloxacin	37	35	33	31	33	36	47
	Meropenem	0	0	0	0	1	1	1
	Nitrofurantoin	7	8	6	4	6	4	3
	Piperacillin+tazobactam	6	6	6	5	6	6	7
	Trimethoprim +sulfamethoxazole	46	46	45	45	46	43	43
	ESBL	**28**	**28**	**27**	**26**	**27**	**25**	**26**

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
***Klebsiella* species**	**No. of isolates**	**1772**	**1967**	**1982**	**1890**	**2432**	**2483**	**2176**
	Amikacin	1	1	1	2	2	2	2
	Amoxicillin+clavulanic acid	20	19	16	18	19	24	28
	Ampicillin	99	99	99	99	99	100	100
	Cefotaxime	19	17	16	19	20	19	23
	Ceftazidime	19	16	15	19	16	15	18
	Ceftriaxone	18	16	14	18	17	17	19
	Cefuroxime	30	27	25	27	25	29	29
	Ciprofloxacin	22	20	18	21	22	26	33
	Ertapenem	0	1	1	1	2	1	1
	Gentamicin	9	9	7	9	9	8	9
	Imipenem	0	0	1	1	2	1	1
	Levofloxacin	17	15	12	16	16	18	26
	Meropenem	0	0	1	1	2	1	1
	Nitrofurantoin	61	65	65	63	61	67	66
	Piperacillin+tazobactam	9	9	8	10	11	12	14
	Trimethoprim +sulfamethoxazole	24	25	23	26	24	21	25
	ESBL	**17**	**14**	**13**	**16**	**15**	**14**	**15**

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
Pseudomonas aeruginosa	**No. of isolates**	**1170**	**1082**	**1009**	**1147**	**1229**	**1359**	**1176**
	Amikacin	5	2	1	2	3	2	3
	Cefepime	9	5	3	5	5	11	11
	Cefoperazone+sulbactam	15	14	14	16	16	16	15
	Ceftazidime	7	5	5	6	6	10	8
	Ciprofloxacin	15	14	14	14	14	15	18
	Gentamicin	11	5	3	5	10	8	8
	Imipenem	19	17	15	17	17	19	22
	Levofloxacin	22	17	17	19	19	23	27
	Meropenem	14	15	12	15	14	14	17
	Piperacillin+tazobactam	8	6	6	7	8	11	10
	Ticarcillin+clavulanic acid	63	72	71	74	74	70	75

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
***Acinetobacter* species**	**No. of isolates**	**372**	**443**	**444**	**358**	**332**	**344**	**263**
	Amikacin	13	7	6	6	4	7	8
	Ampicillin+sulbactam	17	9	7	7	8	10	14
	Cefepime	24	13	9	12	12	12	16
	Cefoperazone+sulbactam	15	9	8	10	11	9	16
	Ceftazidime	21	16	12	15	13	14	17
	Ciprofloxacin	25	13	13	13	16	13	13
	Gentamicin	18	8	8	9	8	8	11
	Imipenem	20	12	8	12	12	10	17
	Levofloxacin	21	12	11	12	11	13	17
	Meropenem	19	12	8	10	11	10	18
	Piperacillin+tazobactam	22	17	12	14	14	16	25
	Ticarcillin+clavulanic acid	42	32	26	22	16	32	37

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
Streptococcus pneumoniae	**No. of isolates**	**N/A**	**222**	**242**	**342**	**423**	**365**	**53**
	Cefotaxime	N/A	10	6	3	2	2	7
	Ceftriaxone	N/A	7	4	2	1	2	3
	Clindamycin	N/A	66	70	66	64	60	63
	Erythromycin	N/A	79	77	78	71	72	81
	Levofloxacin	N/A	1	3	0	3	1	0
	Penicillin	N/A	9	3	2	2	3	0
	Trimethoprim +sulfamethoxazole	N/A	59	64	52	48	45	49
	Vancomycin	N/A	0	0	0	0	0	0

Antibiogram for out-patient setting

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
Staphylococcus aureus	**No. of isolates**	**1233**	**1309**	**1297**	**1568**	**1864**	**2062**	**1374**
	Clindamycin	27	26	25	28	24	25	24
	Erythromycin	32	32	29	33	28	29	26
	Fusidic acid	4	4	5	5	4	5	6
	Gentamicin	8	8	5	8	6	6	8
	Linezolid	0	0	0	0	0	0	0
	Penicillin	91	86	88	89	90	88	85
	Trimethoprim +sulfamethoxazole	2	3	2	1	1	2	1
	Vancomycin	0	0	0	0	0	0	0
	MRSA	**18**	**20**	**16**	**18**	**19**	**16**	**19**

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
Escherichia coli	**No. of isolates**	**3803**	**3756**	**3801**	**3580**	**4312**	**4124**	**4137**
	Amikacin	3	1	1	1	1	1	1
	Amoxicillin+clavulanic acid	24	28	26	23	24	26	23
	Ampicillin	68	72	74	72	73	71	68
	Cefotaxime	21	21	19	21	25	24	22
	Ceftazidime	21	20	19	19	21	18	17
	Ceftriaxone	20	21	20	20	22	21	20
	Cefuroxime	24	25	25	24	28	27	26
	Ciprofloxacin	30	29	30	29	34	33	43
	Ertapenem	0	0	0	1	0	0	0
	Gentamicin	28	26	25	24	24	23	22
	Imipenem	0	0	0	1	0	0	0
	Levofloxacin	28	27	26	26	29	32	46
	Meropenem	0	0	0	1	0	0	0
	Nitrofurantoin	8	6	6	4	4	3	3
	Piperacillin+tazobactam	4	3	4	4	4	5	4
	Trimethoprim +sulfamethoxazole	42	40	41	40	40	35	33
	ESBL	**20**	**20**	**18**	**18**	**21**	**20**	**19**

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
***Klebsiella* species**	**No. of isolates**	**662**	**728**	**675**	**714**	**789**	**911**	**1007**
	Amikacin	1	0	1	3	0	0	1
	Amoxicillin+clavulanic acid	21	21	23	21	20	25	25
	Ampicillin	99	100	100	100	100	100	100
	Cefotaxime	21	20	20	23	14	21	16
	Ceftazidime	20	17	19	22	14	15	13
	Ceftriaxone	19	18	16	21	15	17	15
	Cefuroxime	23	25	26	28	24	28	27
	Ciprofloxacin	22	18	21	22	20	23	25
	Ertapenem	1	1	1	1	1	0	1
	Gentamicin	11	12	10	11	9	6	8
	Imipenem	0	0	0	0	1	1	1
	Levofloxacin	17	15	16	17	15	16	22
	Meropenem	0	0	0	0	0	0	1
	Nitrofurantoin	65	73	70	71	72	73	63
	Piperacillin+tazobactam	12	9	12	12	8	10	12
	Trimethoprim +sulfamethoxazole	26	23	25	23	22	22	18
	ESBL	**14**	**15**	**16**	**18**	**13**	**13**	**12**

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
Pseudomonas aeruginosa	**No. of isolates**	**301**	**263**	**276**	**326**	**335**	**393**	**425**
	Amikacin	4	0	1	2	3	5	3
	Cefepime	5	2	3	3	1	2	2
	Cefoperazone+sulbactam	9	11	14	7	6	12	11
	Ceftazidime	2	2	2	6	3	3	4
	Ciprofloxacin	15	8	10	12	10	10	13
	Gentamicin	10	2	2	8	10	8	5
	Imipenem	10	8	12	11	10	9	13
	Levofloxacin	21	9	16	16	12	17	18
	Meropenem	5	7	14	7	6	6	6
	Piperacillin+tazobactam	5	2	4	4	2	4	4
	Ticarcillin+clavulanic acid	59	70	49	74	66	60	65

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
***Acinetobacter* species**	**No. of isolates**	**44**	**63**	**50**	**89**	**56**	**70**	**65**
	Amikacin	15	5	4	1	2	4	11
	Ampicillin+sulbactam	10	2	5	3	0	11	15
	Cefepime	13	4	8	4	3	6	29
	Cefoperazone+sulbactam	10	2	5	3	0	12	18
	Ceftazidime	13	11	10	7	9	10	23
	Ciprofloxacin	12	14	19	11	16	8	26
	Gentamicin	15	8	4	1	4	4	11
	Imipenem	11	11	5	3	8	6	22
	Levofloxacin	12	4	13	9	10	10	29
	Meropenem	14	9	4	4	2	7	22
	Piperacillin+tazobactam	16	13	15	8	5	16	33
	Ticarcillin+clavulanic acid	25	4	19	11	0	17	33

Organism	Drug	2014	2015	2016	2017	2018	2019	2020
Streptococcus pneumoniae	**No. of isolates**	**N/A**	**46**	**93**	**128**	**142**	**90**	**18**
	Cefotaxime	N/A	3	4	1	0	2	0
	Ceftriaxone	N/A	2	3	1	0	0	0
	Clindamycin	N/A	54	47	68	51	52	47
	Erythromycin	N/A	58	60	71	63	67	67
	Levofloxacin	N/A	3	1	4	0	0	14
	Penicillin	N/A	3	4	0	0	0	0
	Trimethoprim +sulfamethoxazole	N/A	36	44	50	27	34	10
	Vancomycin	N/A	0	0	0	0	0	0

Key:

1. Non-duplicated in all kind of specimens.
2. Interpreted according to CLSI definition.
3. Nonsusceptible include both intermediate and resistant
4. ESBL, extended spectrum beta-lactamase.
5. MRSA, Methicillin-resistant *Staphylococcus aureus.*
6. N/A: not available