

S6 Table. Incidence of BSI per microorganism and antimicrobial resistance (2008-2016).

	2008 R (%)	2009 R (%)	2010 R (%)	2011 R (%)	2012 R (%)	2013 R (%)	2014 R (%)	2015 R (%)	2016 R (%)	Change %	Regression per 100 000 hospital admissions		
											Average annual increase %	95% CI	p-value
Gram-negative													
Other than Enterobacteriaceae													
<i>Acinetobacter baumannii</i>	0	1	4	2	1	5	9	0	3	-	0.5	-0.70-1.67	0.36
Tobramycin	0	0	0	100	100	20	66.7	0	33.3		4	-14.08-22.42	0.61
Meropenem	0	0	0	0	0	20	55.6	0	33.3		6	-1.11-12.98	0.09
Imipenem	0	0	0	0	0	20	44.4	0	33.3		5	-0.39-11.28	0.06
Ciprofloxacin	0	0	0	0	0	20	88.9	0	33.3		7	-3.74-18.56	0.16
Amikacin	0	0	0	0	0	20	88.9	0	0		4	-7.79-16.52	0.42
<i>Pseudomonas aeruginosa</i>	20	27	20	22	28	25	19	37	26	24%	1	-1.18-3.36	0.30
Ceftazidime	0	3.7	0	13.6	14.3	16	0	5.4	7.7		1	-1.86-3.58	0.48
Imipenem	0	3.7	5	13.6	17.9	16	15.8	5.4	7.7		1	-1.18-3.84	0.25
Ciprofloxacin	5	14.8	5	18.2	14.3	16	5.3	8.1	3.8		-1	-3.07-1.76	0.54
Tobramycin	0	0	0	9.1	0	0	0	0	0		0	-1.53-1.12	0.73
Meropenem	5	7.4	0	9.1	7.1	12	5.3	0	11.5		0.4	-1.53-2.24	0.67
Piperacillin-Tazobactam	0	7.4	0	13.6	14.3	16	15.8	13.5	19.2		3	1.25-4.56	<0.01
<i>Haemophilus influenzae</i>	5	4	3	8	13	4	7	6	4	-24%	0	-1.22-1.41	0.87
Penicillin G	0	0	0	0	21.4	14.3	14.3	50	25		7	2.12-11.15	0.01
Tetracycline	0	0	0	0	0	0	0	0	0				
Trimethoprimsulfa	0	0	0	12.5	21.4	71.4	28.6	33.3	25		7	-0.50-14.72	0.06
Enterobacteriaceae													
<i>Escherichia coli</i>	192	255	322	301	355	395	434	499	390	93%	40	22.63-57.13	<0.01
Cefotaxime	4.7	5.1	2.2	2.7	3.9	5.8	5.3	6.2	3.8		0	-0.42-0.75	0.52
Tobramycin	1	2	1.6	1.7	6.8	2.5	3.9	6.2	4.9		1	0.11-1.39	0.03
Trimethoprimsulfa	17.7	24.7	18.3	18.3	23.7	20.8	17.5	20.4	16.2		-1	-1.72-0.60	0.29
Ceftazidime	4.2	4.3	0.9	2.3	2.8	5.3	4.6	6.4	4.1		0	-0.33-1.00	0.27
Piperacillin-Tazobactam	4.2	2.4	0.9	1	3.1	2.3	0.2	4.4	2.8		0	-0.68-0.65	0.95

Meropenem	0	0	0	0	0	0	0	0	0				
Imipenem	0	0	0	0	0	0	0	0	0				
Ciprofloxacin	6.7	8.2	9.8	9.7	12.2	8.6	12	14.5	11	1	0.16-1.51	0.02	
Amikacin	0	6.3	0	0	0	0	0	0	0.5	0	-1.26-0.48	0.33	
<i>Klebsiella pneumoniae</i>	48	38	85	74	92	69	70	92	89	76%	6	0.01-12.41	0.05
Cefotaxime	0	7.9	3.5	5.4	7.6	4.3	5.7	0	2.2	0	-1.54-0.98	0.62	
Tobramycin	0	5.3	3.5	4.1	7.6	2.9	8.6	2.2	7.9	1	-0.31-1.34	0.18	
Trimethoprimsulfa	8.3	8.1	12.9	5.4	13	5.8	15.7	10.9	11.2	1	-0.91-1.94	0.42	
Ceftazidime	0	7.9	3.5	2.7	8.7	4.3	7.1	0	5.6	0	-1.24-1.55	0.80	
Piperacillin-Tazobactam	0	0	2.4	0	5.4	4.3	7.1	1.1	3.4	1	-0.26-1.63	0.13	
Meropenem	0	0	0	0	0	0	0	0	0				
Imipenem	0	0	0	0	1.1	0	0	0	0	-	-0.16-0.16	0.99	
Ciprofloxacin	0	2.9	4.8	4.1	6.6	2.9	12.9	2.2	1.1	0	-1.24-1.98	0.60	
Amikacin	0	0	0	0	0	0	1.4	0	0	0	-0.13-0.26	0.74	
<i>Klebsiella oxytoca</i>	23	17	27	33	33	33	32	36	23	-5%	1	-1.03-3.69	0.23
Cefotaxime	0	0	0	0	0	0	3.1	0	8.7	1	-0.09-1.95	0.07	
Tobramycin	0	0	0	0	0	0	0	0	0				
Trimethoprimsulfa	0	5.9	0	0	3	3	6.3	0	0	0	-1.22-1.10	0.90	
Ceftazidime	0	0	0	0	0	0	0	0	0				
Piperacillin-Tazobactam	0	0	0	3	0	3	6.3	11.1	13	2	1.18-3.26	<0.01	
Meropenem	0	0	0	0	0	0	0	0	0				
Imipenem	0	0	0	0	0	0	0	0	0				
Ciprofloxacin	0	0	0	0	3	0	3.1	0	4.3	1	-0.09-1.15	0.08	
Amikacin	0	0	0	0	0	0	0	0	0				
<i>Enterobacter cloacae</i>	29	23	28	25	38	22	46	33	35	15%	2	-1.17-4.64	0.20
Cefotaxime	0	17.4	14.3	24	13.2	18.2	8.7	15.2	20	1	-1.64-4.14	0.34	
Tobramycin	0	0	0	0	0	0	0	0	0				
Trimethoprimsulfa	0	0	0	0	5.3	0	0	9.1	0	1	-0.74-1.98	0.32	
Ceftazidime	0	8.7	14.3	24	10.5	18.2	4.3	15.2	22.9	2	-1.22-5.07	0.19	
Piperacillin-Tazobactam	0	0	7.1	16	10.5	13.6	4.3	15.2	17.1	2	0.32-4.48	0.03	
Meropenem	0	0	0	4	0	0	0	0	0	0	-0.67-0.49	0.73	
Imipenem	0	0	0	0	0	0	0	0	0				
Ciprofloxacin	0	0	0	4	0	0	0	0	0	0	-0.67-0.49	0.73	
Amikacin	0	0	0	0	0	0	0	0	0				

<i>Proteus Mirabilis</i>	9	11	14	16	20	15	25	38	26	174%	4	1.64-5.90	<0.01
Cefotaxime	0	0	0	0	0	0	0	10.5	0		1	-0.70-2.12	0.27
Tobramycin	0	0	0	0	0	0	4	13.2	3.8		1	-0.07-2.91	0.06
Trimethoprim-sulfa	11.1	0	7.1	0	0	6.7	24	31.6	26.9		4	0.60-8.24	0.03
Ceftazidime	0	0	0	0	0	0	0	10.5	0		1	-0.70-2.13	0.27
Piperacillin-Tazobactam	0	0	0	0	0	0	0	0	0				
Meropenem	0	0	0	0	0	0	0	0	0				
Imipenem	0	0	0	0	0	0	0	0	0				
Ciprofloxacin	0	0	0	0	0	0	0	2.7	3.8		1	0.08-0.98	0.03
Amikacin	0	0	0	0	0	0	0	5.3	0		0	-0.36-1.08	0.27

Gram-positive

Enterococci

<i>Enterococcus faecalis</i>	35	57	50	40	58	62	84	53	52	41%	3	-2.16-8.04	0.21
Ampicillin	0	0	0	0	0	0	0	0	0				
Imipenem	0	0	0	0	0	1.6	0	0	0		0	-0.19-0.26	0.73
Linezolid	8.6	3.6	0	0	0	1.6	0	1.9	0		-1	-1.98-0.16	0.08
Vancomycin	0	0	0	0	1.7	0	0	1.9	0		0	-0.20-0.46	0.38
<i>Enterococcus faecium</i>	16	33	14	20	26	33	25	32	23	36%	1	-1.69-4.09	0.36
Ampicillin	68.8	78.8	78.6	95	73.1	97	68	84.4	87		1	-3.34-5.42	0.59
Imipenem	58.3	92	100	100	80.8	97	68	84.4	87		0	-6.19-6.27	0.84
Linezolid	0	3	0	0	0	0	0	3.1	4.3		0	-0.31-1.10	0.23
Vancomycin	0	0	0	0	0	0	0	0	0				

Staphylococci

<i>Staphylococcus aureus</i>	145	167	211	157	256	258	237	218	236	55%	14	1.72-26.05	0.03
Cefoxitin	0	0	0	0	0	0	0.4	0	1.3		0	-0.02-0.29	0.07
Fusidic acid	2.8	1.2	1.9	3.8	3.1	4.7	6.3	1.8	3		0	-0.38-0.89	0.38
Erythromycin	4.8	2.4	4.7	3.2	4.3	3.5	3	4.6	4.7		0	-0.38-0.46	0.84
Clindamycin	4.1	2.4	4.3	3.2	3.1	2.3	3	3.7	4.2		0	-0.37-0.35	0.95
Tobramycin	0	1.8	0.9	0.6	1.2	3.5	2.5	1.8	1.3		0	-0.14-0.64	0.18
Linezolid	0.7	0	0	0	0	0.4	0	0	0		0	-0.16-0.05	0.23
Rifampicin	0	0	0	0	0	0	0.4	0	1.7		0	-0.03-0.37	0.08
Vancomycin		0											

Streptococci

<i>Streptococcus pneumoniae</i>	59	72	53	65	52	50	57	48	51	-18%	-3	-5.67--0.32	0.03
Oxacillin	0	0	0	7.7	9.8	8	0	6.3	3.9		1	-0.84-2.42	0.29
Erythromycin	5.1	2.8	0	7.7	3.8	4	1.7	8.3	2		0	-1.17-1.28	0.92
Clindamycin	0	0	1.9	6.2	1.9	6	0	6.3	2		1	-0.59-1.63	0.31
Tetracycline	3.4	1.4	0	7.7	3.8	4	0	6.3	3.9		0	-0.85-1.41	0.58
Trimethoprimsulfa	5.1	5.6	1.9	7.7	9.6	14	5.2	6.3	9.8		1	-0.64-2.09	0.25
Penicillin G	0	0	0	3.2	2.2	4.3	0	0	2.1		0	-0.49-0.92	0.50
Norfloxacin	0	0	0	0	2	0	8.8	2.1	5.9		1	0.04-2.08	0.04
<i>Streptococcus pyogenes (A)</i>	10	20	10	20	23	23	11	28	17	62%	1	-1.39-3.80	0.31
Penicillin G	0	0	0	0	0	0	0	0	0				
Erythromycin	20	5	0	0	0	0	0	0	0		-2	-4.66-0.12	0.06
Clindamycin	10	5	0	0	4.3	0	0	0	0		-1	-2.49-(-0.13)	0.03
Penicillin G													
<i>Streptococcus agalactiae (B)</i>	21	12	18	18	19	22	20	25	27	22%	1	0.01-2.91	0.05
Penicillin G	0	0	0	0	0	0	0	0	0				
Erythromycin	4.8	8.3	5.6	11.1	0	4.5	10	0	22.2		1	-1.85-3.90	0.43
Clindamycin	4.8	8.3	5.6	5	0	0	5	0	14.8		0	-1.96-2.30	0.86
Penicillin G													
<i>Streptococcus spp. (C, G)</i>	23	25	30	24	38	34	23	25	14	-42%	1	-3.89-1.68	0.38
Penicillin G	0	0	0	0	0	0	0	0	0				
Erythromycin	4.3	0	0	0	0	0	0	0	14.3		1	-1.11-2.89	0.33
Clindamycin	0	4	0	0	0	0	0	0	14.3		1	-0.90-2.96	0.25

Yeast

<i>Candida albicans</i>	11	11	22	27	17	17	34	56	43		6	2.24-10.12	0.01
Fluconazole	0	0	0	0	0	0	0	0	0				
Flucytosin	0	0	0	0	0	0	0	3.6	4.7		1	0.11-1.24	0.03
Amphotericin	0	0	0	0	0	0	0	0	0				
Anidulafungin	0	0	0	0	0	0	0	0	0				
Voriconazole	0	0	0	0	0	0	0	0	0				
<i>Candida spp (non albicans)</i>	5	9	11	17	22	11	21	9	10		1	1.68-3.10	0.51
Fluconazole	0	0	0	5.9	13.6	9.1	9.5	33.3	20		5	1.88-7.28	0.01
Flucytosin	0	0	0	0	0	0	9.5	22.2	10		3%	0.48-5.21	0.02

Amphotericin	0	0	0	0	0	0	0	0	10	1%	-0.33-2.16	0.13
Anidulafungin	0	0	0	0	0	0	0	0	0			
Voriconazole	0	0	9.1	0	0	0	0	0	10	0%	-1.34-2.33	0.54
