Appendix 2

Tables 8 to 59
Figure 29

Summary statistics of antimicrobial resistance for the main bacterial species (type 2 information)

Table 8 *Staphylococcus aureus:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Penicillin G	5,758	558	2	5,198	9.0	0.0	91.0
Oxacillin	5,821	3,782	0	2,039	65.0	0.0	35.0
Kanamycin	5,820	3,907	52	1,861	67.1	0.9	32.0
Gentamicin	5,821	5,609	16	196	96.3	0.3	3.4
Tobramycin	5,820	3,998	23	1,799	68.7	0.4	30.9
Erythromycin	5,821	3,690	12	2,119	63.4	0.2	36.4
Lincomycin	5,821	4,287	150	1,384	73.6	2.6	23.8
Pristinamycin	4,667	4,481	59	127	96.0	1.3	2.7
Trimethoprim + sulfamethoxazole	5,821	5,672	47	102	97.4	0.8	1.8
Rifampicin	5,821	5,663	61	97	97.3	1.0	1.7
Fusidic acid	5,821	5,500	134	187	94.5	2.3	3.2
Fosfomycin	5,816	5,541	3	272	95.2	0.1	4.7
Fluoroquinolones	5,821	3,565	106	2,150	61.2	1.8	37.0
Teicoplanin	5,755	5,716	22	13	99.4	0.4	0.2
Vancomycin	5,821	5,805	16	0	99.7	0.3	0.0

Table 9 *Staphylococcus aureus:* susceptibility to antibiotics of isolates susceptible to methicillin (MSSA) (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Penicillin G	3,719	558	2	3,159	15.0	0.1	84.9
Oxacillin	3,782	3,782	0	0	100.0	0.0	0.0
Kanamycin	3,781	3,595	44	142	95.0	1.2	3.8
Gentamicin	3,782	3,750	5	27	99.2	0.1	0.7
Tobramycin	3,782	3,674	11	97	97.1	0.3	2.6
Erythromycin	3,782	2,984	7	791	78.9	0.2	20.9
Lincomycin	3,782	3,464	87	231	91.6	2.3	6.1
Trimethoprim + sulfamethoxazole	3,782	3,717	18	47	98.3	0.5	1.2
Rifampicin	3,782	3,440	68	274	91.0	1.8	7.2
Fusidic acid	3,782	3,620	64	98	95.7	1.7	2.6
Fosfomycin	3,777	3,724	0	53	98.6	0.0	1.4
Fluoroquinolones	3,782	3,440	68	274	91.0	1.8	7.2
Vancomycin	3,782	3,782	0	0	100.0	0.0	0.0

Table 10 *Staphylococcus aureus:* susceptibility to antibiotics of isolates resistant to methicillin (MRSA) (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Penicillin G	2,039	0	0	2,039	0.0	0.0	100.0
Oxacillin	2,039	0	0	2,039	0.0	0.0	100.0
Kanamycin	2,039	312	8	1,719	15.3	0.4	84.3
Gentamicin	2,039	1,859	11	169	91.2	0.5	8.3
Tobramycin	2,038	324	12	1,702	15.9	0.6	83.5
Erythromycin	2,039	706	5	1,328	34.7	0.2	65.1
Lincomycin	2,039	823	63	1,153	40.4	3.1	56.5
Trimethoprim + sulfamethoxazole	2,039	1,955	29	55	95.9	1.4	2.7
Rifampicin	2,039	1,921	36	82	94.2	1.8	4.0
Fusidic acid	2,039	1,880	70	89	92.2	3.4	4.4
Fosfomycin	2,093	1,885	3	205	90.1	0.1	9.8
Fluoroquinolones	2,039	125	38	1,876	6.1	1.9	92.0
Vancomycin	2,039	2,023	16	0	99.2	0.8	0.0

Table 11 *Enterococcus faecalis:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Ampicillin	760	760	0	0	100.0	0.0	0.0
Gentamicin 500*	760	575	17	168	75.7	2.2	22.1
Kanamycin 1000*	760	342	4	413	45.0	0.5	54.5
Erythromycin	760	141	91	528	18.5	12.0	69.5
Lincomycin	760	0	0	760	0.0	0.0	100.0
Pristinamycin	760	53	83	624	7.0	10.9	82.1
Trimethoprim + sulfamethoxazole	760	321	1	438	42.2	0.1	57.7
Furans	760	743	8	9	97.8	1.0	1.2
Vancomycin	760	759	1	0	99.9	0.1	0.0
Rifampicin	393	379	11	3	96.4	2.8	0.8
Tetracyclines	394	88	0	306	22.3	0.0	77.7
Teicoplanin	393	392	1	0	99.7	0.3	0.0

* S: low level of resistance (wild type)

Table 12 *Enterococcus faecium:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Ampicillin	43	25	8	10	58.1	18.6	23.3
Gentamicin 500*	43	40	1	2	93.0	2.3	4.7
Kanamycin 1000*	43	19	0	24	44.2	0.0	55.8
Erythromycin	43	3	4	36	7.0	9.3	83.7
Lincomycin	43	5	2	36	11.6	4.7	83.7
Pristinamycin	43	41	1	1	95.4	2.3	2.3
Trimethoprim + sulfamethoxazole	43	21	0	22	48.8	0.0	51.2
Furans	43	10	10	23	23.3	23.3	53.5
Vancomycin	43	43	0	0	100.0	0.0	0.0
Rifampicin	18	15	3	0	83.3	16.7	0.0
Tetracyclines	18	8	0	10	44.4	0.0	55.6
Teicoplanin	18	18	0	0	100.0	0.0	0.0

* S: low level of resistance (wild type)

Table 13 *Escherichia coli:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Ampicilline or amoxicillin	16,212	8,851	266	7,095	54.6	1.6	43.8
Amoxicillin + clavulanate	16,222	10,748	3,422	2,052	66.3	21.1	12.6
Ticarcillin	16,222	9,322	35	6,865	57.5	0.2	42.3
Cephalothin	16,222	10,491	3,928	1,803	64.7	24.2	11.1
Cefotaxime	16,222	16,098	87	37 b	99.2	0.5	0.2
Gentamicin	16,222	15,690	53	479	96.7	0.3	3.0
Tobramycin	16,222	15,785	20	417	97.3	0.1	2.6
Amikacin	16,222	16,154	30	38	99.6	0.2	0.2
Cotrimoxazole	16,222	12,889	206	3,127	79.5	1.3	19.3
Fluoroquinolones	16,108	14,612	282	1,214	90.7	1.8	7.5
Amoxicillin	13,866	7,510	248	6,108	54.2	1.8	44.1
Piperacillin	15,386	8,897	3,400	3,089	57.8	22.1	20.1
Ticarcillin + clavulanate	12,137	9,412	1,817	908	77.5	15.0	7.5
Piperacillin + clavulanate	11,557	11,170	317	70	96.7	2.7	0.6
Cefoxitine	10,120	9,820	137	163	97.0	1.4	1.6
Ceftazidime	14,609	14,463	83	63	99.0	0.6	0.4
Cefepime	11,952	11,894	52	6	99.5	0.4	0.1
Aztreonam	12,147	12,015	94	38	98.9	0.8	0.3
Imipenem	14,007	14,002	2	3	100.0	0.0	0.0
Nalidixic acid	14,000	12,162	64	1,774	86.9	0.5	12.7
Netilmicin	13,582	13,385	18	179	98.5	0.1	1.3
Furans	12,773	12,285	240	248	96.2	1.9	1.9

Table 14 *Citrobacter freundii:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Amoxicillin + clavulanate	187	0	1	186	0.0	0.5	99.5
Ticarcillin	187	119	0	68	63.6	0.0	36.4
Piperacillin	187	119	8	60	63.6	4.3	32.1
Cephalothin	187	0	1	186	0.0	0.5	99.5
Cefotaxime	187	138	35	14	73.8	18.7	7.5
Ceftazidime	187	138	17	32	73.8	9.1	17.1
Imipenem	187	187	0	0	100.0	0.0	0.0
Gentamicin	187	169	1	17	90.4	0.5	9.1
Tobramycin	186	162	0	24	87.1	0.0	12.9
Amikacin	187	177	0	10	94.7	0.0	5.3
Cotrimoxazole	187	166	1	20	88.8	0.5	10.7
Nalidixic acid	187	130	6	51	69.5	3.2	27.3
Ciprofloxacin	187	144	2	41	77.0	1.1	21.9
Fluoroquinolones							
Pefloxacin	126	90	2	34	71.4	1.6	27.0
Ofloxacin	61	48	1	12	78.7	1.6	19.7

Table 15 *Enterobacter aerogenes:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Amoxicillin + clavulanate	364	0	6	358	0.0	1.6	98.4
Ticarcillin	364	137	2	225	37.6	0.5	61.8
Piperacillin	362	135	19	208	37.3	5.2	57.5
Cephalothin	364	0	2	362	0.0	0.5	99.5
Cefotaxime	364	174	136	54	47.8	37.4	14.8
Ceftazidime	363	172	22	169	47.4	6.1	46.6
Imipenem	364	361	2	1	99.2	0.5	0.3
Gentamicin	364	355	1	8	97.5	0.3	2.2
Tobramycin	364	219	2	143	60.2	0.5	39.3
Amikacin	364	223	56	85	61.3	15.4	23.4
Trimethoprim + sulfamethoxazole	364	198	3	163	54.4	0.8	44.8
Nalidixic acid	364	144	6	214	39.6	1.6	58.8
Ciprofloxacin	364	162	4	198	44.5	1.1	54.4
Fluoroquinolones							
Pefloxacin	246	95	2	149	38.6	0.8	60.6
Ofloxacin	116	60	1	55	51.7	0.9	47.4

Table 16 *Enterobacter cloacae:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Amoxicillin + clavulanate	581	0	2	579	0.0	0.3	99.7
Ticarcillin	581	389	1	191	67.0	0.2	32.9
Piperacillin	580	387	24	169	66.7	4.1	29.1
Cephalothin	581	0	1	580	0.0	0.2	99.8
Cefotaxime	581	424	34	123	73.0	5.9	21.2
Ceftazidime	578	422	35	121	73.0	6.1	20.9
Imipenem	581	580	1	0	99.8	0.2	0.0
Gentamicin	581	497	1	83	85.5	0.2	14.3
Tobramycin	581	492	0	89	84.7	0.0	15.3
Amikacin	581	567	3	11	97.6	0.5	1.9
Trimethoprim + sulfamethoxazole	581	548	3	30	94.3	0.5	5.2
Nalidixic acid	581	440	8	133	75.7	1.4	22.9
Ciprofloxacin	581	467	16	98	80.4	2.8	16.9
Fluoroquinolones							
Pefloxacin	379	286	14	79	75.5	3.7	20.8
Ofloxacin	201	170	1	30	84.6	0.5	14.9

Table 17 *Klebsiella oxytoca:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates S	I	R	Percentage of isolates S	I	R
Amoxicillin + clavulanate	442	357	42	43	80.8	9.5	9.7
Ticarcillin	442	0	1	441	0.0	0.2	99.8
Piperacillin	442	5	361	76	1.1	81.7	17.2
Cephalothin	442	329	57	56	74.4	12.9	12.7
Cefotaxime	442	430	9	3	97.3	2.0	0.7
Ceftazidime	442	436	4	2	98.6	0.9	0.5
Imipenem	442	441	0	1	99.8	0.0	0.2
Gentamicin	442	428	4	10	96.8	0.9	2.3
Tobramycin	442	427	1	14	96.6	0.2	3.2
Amikacin	442	437	3	2	98.9	0.7	0.5
Trimethoprim + sulfamethoxazole	442	414	2	26	93.7	0.5	5.9
Nalidixic acid	442	396	3	43	89.6	0.7	9.7
Ciprofloxacin	442	416	3	23	94.1	0.7	5.2
Fluoroquinolones							
Pefloxacin	303	269	7	27	88.8	2.3	8.9
Ofloxacin	139	134	2	3	96.4	1.4	2.2

Table 18 *Klebsiella pneumoniae:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates S	I	R	Percentage of isolates S	I	R
Amoxicillin + clavulanate	954	811	103	40	85.0	10.8	4.2
Ticarcillin	954	0	1	953	0.0	0.1	99.9
Piperacillin	951	5	834	112	0.5	87.7	11.8
Cephalothin	954	779	122	53	81.7	12.8	5.6
Cefotaxime	954	921	16	17	96.5	1.7	1.8
Ceftazidime	949	917	6	26	96.6	0.6	2.7
Imipenem	954	954	0	0	100.0	0.0	0.0
Gentamicin	954	925	2	27	97.0	0.2	2.8
Tobramycin	953	911	2	40	95.6	0.2	4.2
Amikacin	954	927	14	13	97.2	1.5	1.4
Trimethoprim + sulfamethoxazole	954	860	6	88	90.1	0.6	9.2
Nalidixic acid	954	793	19	142	83.1	2.0	14.9
Ciprofloxacin	954	893	14	47	93.6	1.5	4.9
Fluoroquinolones							
Pefloxacin	656	557	39	60	84.9	5.9	9.1
Ofloxacin	296	274	8	14	92.6	2.7	4.7

Table 19 *Proteus mirabilis:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates S	I	R	Percentage of isolates S	I	R
Amoxicillin + clavulanate	1,385	1,105	221	59	79.8	16.0	4.3
Ticarcillin	1,384	860	10	514	62.1	0.7	37.1
Piperacillin	1,385	873	327	185	63.0	23.6	13.4
Cephalothin	1,385	1,043	229	113	75.3	16.5	8.2
Cefotaxime	1,385	1,370	6	9	98.9	0.4	0.6
Ceftazidime	1,374	1,358	11	5	98.8	0.8	0.4
Imipenem	1,385	1,384	1	0	99.9	0.1	0.0
Gentamicin	1,385	1,289	1	95	93.1	0.1	6.9
Tobramycin	1,384	1,305	1	78	94.3	0.1	5.6
Amikacin	1,385	1,368	6	11	98.8	0.4	0.8
Trimethoprim + sulfamethoxazole	1,385	1,083	29	273	78.2	2.1	19.7
Nalidixic acid	1,385	1,038	12	335	74.9	0.9	24.2
Ciprofloxacin	1,385	1,198	65	122	86.5	4.7	8.8
Fluoroquinolones							
Pefloxacin	1,002	796	20	186	79.4	2.0	18.6
Ofloxacin	383	298	35	50	77.8	9.1	13.1

APPENDIX 2

Table 20 *Proteus vulgaris:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Amoxicillin + clavulanate	192	154	25	13	80.2	13.0	6.8
Ticarcillin	192	161	0	31	83.9	0.0	16.1
Piperacillin	192	161	21	10	83.9	10.9	5.2
Cephalothin	192	0	2	190	0.0	1.0	99.0
Cefotaxime	192	188	4	0	97.9	2.1	0.0
Ceftazidime	192	188	3	1	97.9	1.6	0.5
Imipenem	192	190	2	0	99.0	1.0	0.0
Gentamicin	192	191	0	1	99.5	0.0	0.5
Tobramycin	192	191	0	1	99.5	0.0	0.5
Amikacin	192	190	1	1	99.0	0.5	0.5
Trimethoprim + sulfamethoxazole	192	177	1	14	92.2	0.5	7.3
Nalidixic acid	192	186	0	6	96.9	0.0	3.1
Ciprofloxacin	192	191	1	0	99.5	0.5	0.0
Fluoroquinolones							
Pefloxacin	132	129	2	1	97.7	1.5	0.8
Ofloxacin	60	59	1	0	98.3	1.7	0.0

Table 21 *Serratia marcescens:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Amoxicillin + clavulanate	208	0	1	207	0.0	0.5	99.5
Ticarcillin	207	154	1	52	74.4	0.5	25.1
Ticarcillin + clavulanate	204	162	14	28	79.4	6.9	13.7
Piperacillin	207	154	11	42	74.4	5.3	20.3
Cephalothin	208	0	0	208	0.0	0.0	100.0
Cefotaxime	208	178	28	2	85.6	13.5	1.0
Ceftazidime	206	180	23	3	87.4	11.2	1.5
Cefepime	202	199	2	1	98.5	1.0	0.5
Imipenem	208	207	1	0	99.5	0.5	0.0
Gentamicin	208	192	0	16	92.3	0.0	7.7
Tobramycin	208	174	6	28	83.7	2.9	13.5
Amikacin	208	186	13	9	89.4	6.3	4.3
Trimethoprim + sulfamethoxazole	208	174	4	30	83.7	1.9	14.4
Nalidixic acid	208	146	1	61	70.2	0.5	29.3
Ciprofloxacin	208	173	22	13	83.2	10.6	6.3
Fluoroquinolones							
Pefloxacin	115	83	9	23	72.2	7.8	20.0
Ofloxacin	93	70	6	17	75.3	6.5	18.3

Table 22 *Pseudomonas aeruginosa:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Ticarcillin	2,361	1,532	130	699	64.9	5.5	29.6
Piperacillin	2,361	1,873	105	383	79.3	4.4	16.2
Aztreonam	2,361	1,522	665	174	64.5	28.2	7.4
Ceftazidime	2,361	2,041	207	113	86.4	8.8	4.8
Imipenem	2,361	1,966	134	261	83.3	5.7	11.1
Gentamicin	2,361	1,183	188	990	50.1	8.0	41.9
Tobramycin	2,361	1,823	31	507	77.2	1.3	21.5
Amikacin	2,361	1,981	190	190	83.9	8.0	8.0
Colistin	2,361	2,359	0	2	99.9	0.0	0.1
Ciprofloxacin	2,361	1,636	74	651	69.3	3.1	27.6
Ticarcillin + clavulanate	2,321	1,495	364	462	64.4	15.7	19.9
Piperacillin + tazobactam	2,345	1,919	250	176	81.8	10.7	7.5
Cefepime	1,877	1,336	426	115	71.2	22.7	6.1
Fosfomycin	1,969	1,016	8	945	51.6	0.4	48.0

Table 23 *Acinetobacter baumannii:* susceptibility to antibiotics (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Ticarcillin	290	174	23	93	60.0	7.9	32.1
Piperacillin	290	116	46	128	40.0	15.9	44.1
Ceftazidime	290	93	122	75	32.1	42.1	25.9
Imipenem	290	290	0	0	100.0	0.0	0.0
Gentamicin	290	151	14	125	52.1	4.8	43.1
Tobramycin	290	197	9	84	67.9	3.1	29.0
Amikacin	290	215		75	74.1	0.0	25.9
Trimethoprim + sulfamethoxazole	290	165	12	113	56.9	4.1	39.0
Ciprofloxacin	290	99	6	185	34.1	2.1	63.8
Ticarcillin + clavulanate	255	161	51	43	63.1	20.0	16.9
Piperacillin + tazobactam	264	182	71	11	68.9	26.9	4.2
Cefepime	266	76	106	84	28.6	39.8	31.6

Table 24 *Staphylococcus aureus:* susceptibility to antibiotics of strains isolated from urines (REUSSIR Network, 2002).

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Oxacillin	702	285	0	417	40.6	0.0	59.4
Tobramycin	702	339	6	357	48.3	0.9	50.8
Gentamicin	702	665	5	32	94.7	0.7	4.6
Erythromycin	702	377	1	324	53.6	0.1	46.3
Lincomycin	701	434	18	249	61.9	2.6	35.5
Rifampicin	702	685	8	9	97.6	1.1	1.3
Fusidic acid	702	674	10	18	96.0	1.4	2.6
Trimethoprim + sulfamethoxazole	702	683	3	16	97.3	0.4	2.3
Fluoroquinolones	702	233	13	456	33.1	1.9	65.0
Vancomycin	702	702	0	0	100.0	0.0	0.0
Penicillin G	698	52	0	646	7.5	0.0	92.5
Kanamycin	666	318	4	344	47.8	0.6	51.6
Fosfomycin	693	639	1	53	92.3	0.1	7.6
Teicoplanin	664	653	4	7	98.3	0.6	1.1

Table 25 ***Escherichia coli:*** **susceptibility to antibiotics of strains isolated from urines (REUSSIR Network, 2002).**

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Amoxicillin or ampicilline	12,492	6,823	221	5,448	54.6	1.8	43.6
Ticarcillin	12,492	7,198	26	5,268	57.5	0.2	42.3
Amoxicillin + clavulanate	12,492	8,346	2,496	1,650	66.8	20.0	13.2
Cephalothin	12,492	8,130	2,933	1,429	65.1	23.5	11.4
Cefotaxime	12,492	12,407	58	27	99.3	0.5	0.2
Gentamicin	12,492	12,089	35	368	96.8	0.3	2.9
Tobramycin	12,492	12,163	16	313	97.4	0.1	2.5
Amikacin	12,492	12,442	20	30	99.6	0.2	0.2
Trimethoprim + sulfamethoxazole	12,492	9,935	136	2,421	79.5	1.1	19.4
Fluoroquinolones	12,492	11,278	210	1,004	90.3	1.7	8.0
Piperacillin	11,691	6,784	2,551	2,356	58.0	21.8	20.2
Ceftazidim	10,886	10,784	57	45	99.1	0.5	0.4
Imipenem	10,856	10,853	1	2	99.9	0.0	0.1
Netilmicin	10,457	10,309	16	132	98.6	0.2	1.2
Nalidixic acid	11,331	9,782	47	1,502	86.3	0.4	13.3
Furans	11,854	11,395	227	232	96.1	1.9	2.0

Table 26 ***Pseudomonas aeruginosa:*** **susceptibility to antibiotics of strains isolated from urines (REUSSIR Network, 2002).**

Antibiotic	Total number of isolates	Number of isolates			Percentage of isolates		
		S	I	R	S	I	R
Ticarcillin	873	541	51	281	62.0	5.8	32.2
Ceftazidime	873	754	84	35	86.4	9.6	4.0
Imipenem	873	721	58	94	82.6	6.6	10.8
Tobramycin	873	611	8	254	70.0	0.9	29.1
Amikacin	873	711	75	87	81.4	8.6	10.0
Ciprofloxacin	873	523	25	325	59.9	2.9	37.2
Piperacillin	832	654	37	141	78.6	4.4	16.9
Piperacillin + tazobactam	856	692	97	67	80.8	11.3	7.8
Aztreonam	870	532	279	59	61.1	32.1	6.8
Gentamicin	797	349	67	381	43.8	8.4	47.8
Fosfomycin	707	427	1	279	60.4	0.1	39.5
Colistin	809	809	0	0	100.0	0.0	0.0

Table 27 *Enterococcus faecalis:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Ampicillin	622	99.2	744	99.3	760	100
Gentamicin 500*	622	80.9	744	78.1	760	75.7
Kanamycin 1000*	622	48.7	744	47.3	760	45
Erythromycin	622	21.1	744	17.7	760	18.5
Lincomycin	622	0.0	744	0.0	760	0
Pristinamycin	622	6.0	744	4.5	760	7
Trimethoprim + sulfamethoxazole	622	45.7	744	44.5	760	42.2
Furans	622	99.5	744	96.7	760	97.8
Vancomycin	622	100.0	744	100.0	760	99.9
Rifampicin	353	95.7	409	94.9	393	96.4
Tetracyclines	353	24.4	408	20.6	394	22.3
Teicoplanin	353	100.0	415	100.0	393	99.7

* S: low level of resistance (wild type)

Table 28 *Enterococcus faecium:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Ampicillin	29	20.7	34	41.2	43	58.1
Gentamicin 500*	29	86.2	34	47.1	43	93.0
Kanamycin 1000*	29	31.0	34	29.4	43	44.2
Erythromycin	29	3.4	34	8.8	43	7.0
Lincomycin	29	3.4	34	14.7	43	11.6
Pristinamycin	29	86.2	34	97.1	43	95.4
Trimethoprim + sulfamethoxazole	29	62.1	34	58.8	43	48.8
Furans	29	65.5	34	38.2	43	23.3
Vancomycin	29	100.0	34	100.0	43	100.0
Rifampicin	16	87.5	22	54.5	18	83.3
Tetracyclines	16	18.8	22	54.5	18	44.4
Teicoplanin	16	100.0	34	100.0	18	100.0

* S: low level of resistance (wild type)

Table 29 *Staphylococcus aureus:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Penicillin G	6,344	9.0	5,862	9.0	5,758	9.0
Oxacillin	6,398	64.3	5,906	64.5	5,821	65.0
Kanamycin	6,396	65.2	5,904	66.3	5,820	67.1
Gentamicin	6,398	94.7	5,906	95.5	5,821	96.3
Tobramycin	6,368	66.4	5,905	67.4	5,820	68.7
Erythromycin	6,398	61.9	5,906	62.9	5,821	63.4
Lincomycin	6,398	71.3	5,906	72.2	5,821	73.6
Pristinamycin	5,141	95.3	5,813	98.5	4,667	96.0
Trimethoprim + sulfamethoxazole	6,398	98.9	6,398	98.9	5,821	97.4
Rifampicin	6,398	95.9	5,906	96.7	5,821	97.3
Fusidic acid	6,398	94.1	5,906	93.9	5,821	94.5
Fosfomycin	6,393	95.2	5,904	95.7	5,816	95.2
Fluoroquinolones	6,398	62.1	5,906	61.8	5,821	61.2
Teicoplanin	6,031	99.4	5,813	98.5	5,755	99.4
Vancomycin	6,398	99.9	5,906	99.8	5,821	99.7

Table 30 *Staphylococcus aureus:* susceptibility to antibiotics of isolates susceptible to methicillin (MSSA) [REUSSIR Network, 2000-2002].

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Penicillin G	4,060	13.9	3,769	14.3	3,719	15.0
Oxacillin	4,112	100.0	3,811	100.0	3,782	100.0
Kanamycin	4,110	95.8	3,809	95.4	3,781	95.0
Gentamicin	4,112	99.3	3,811	99.2	3,782	99.2
Tobramycin	4,088	97.3	3,811	96.8	3,782	97.1
Erythromycin	4,112	80.3	3,811	80.2	3,782	78.9
Lincomycin	4,112	92.8	3,811	91.8	3,782	91.6
Trimethoprim + sulfamethoxazole	4,112	99.6	3,811	99.0	3,782	98.3
Rifampicin	4,112	98.8	3,811	98.8	3,782	91.0
Fusidic acid	4,112	96.1	3,811	95.7	3,782	95.7
Fosfomycin	4,108	99.1	3,811	98.9	3,777	98.6
Fluoroquinolones	4,112	93.3	3,811	92.7	3,782	91.0
Vancomycin	4,112	100.0	3,811	100.0	3,782	100.0

Table 31 *Staphylococcus aureus:* susceptibility to antibiotics of isolates resistant to methicillin (MRSA) [REUSSIR Network, 2000-2002].

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Penicillin G	2,284	0	2,093	0.0	2,039	0.0
Oxacillin	2,286	0	2,095	0.0	2,039	0.0
Kanamycin	2,286	10.2	2,095	13.3	2,039	15.3
Gentamicin	2,286	86.4	2,095	88.8	2,039	91.2
Tobramycin	2,280	10.8	2,094	13.9	2,038	15.9
Erythromycin	2,286	28.9	2,095	31.4	2,039	34.7
Lincomycin	2,286	32.5	2,095	36.6	2,039	40.4
Trimethoprim + sulfamethoxazole	2,286	97.5	2,095	97.5	2,039	95.9
Rifampicin	2,286	90.6	2,095	92.8	2,039	94.2
Fusidic acid	2,286	90.3	2,095	90.7	2,039	92.2
Fosfomycin	2,285	88.1	2,093	90.1	2,093	90.1
Fluoroquinolones	2,286	5.9	2,095	5.4	2,039	6.1
Vancomycin	2,286	99.7	2,095	99.5	2,039	99.2

Table 32 *Streptococcus pyogenes:* susceptibility (%) to penicillin A and erythromycin (REUSSIR Network, 1996-2002).

Year	Total number of isolates	Percentage susceptible to Amoxicillin	Erythromycin
1996	208	100	91
1997	343	100	89
1998	360	100	83
1999	1,237	100	82
2000	410	100	76
2001	428	100	78
2002	445	100	74

Table 33 *Streptococcus agalactiae:* susceptibility (%) to penicillin A and erythromycin (REUSSIR Network, 2000-2002).

Year	Total number of isolates	Percentage susceptible to Peni A	Erythromycin
2000	2,420	100.0	81.0
2001	2,493	100.0	78.0
2002	2,572	100.0	75.0

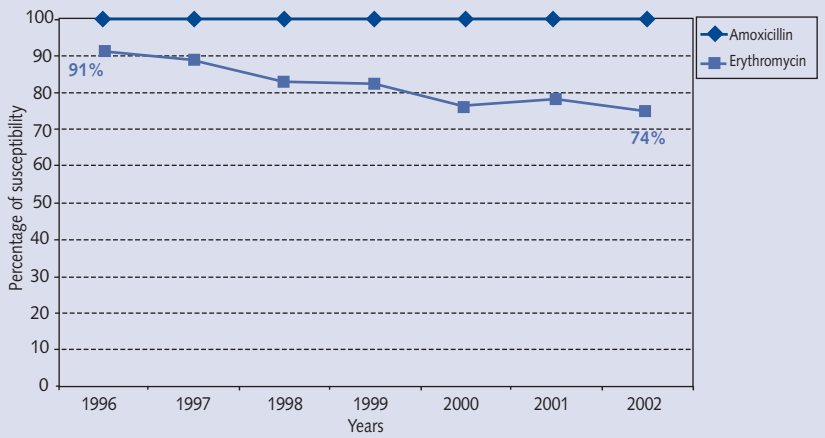

Figure 29

Evolution of the susceptibility (%) of *Streptococcus pyogenes* to penicillin A and erythromycin (REUSSIR Network, 1996-2002).

Table 34 *Escherichia coli:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	16,423	55	16,011	54	16,222	54
Ticarcillin	16,423	58	16,011	58	16,222	57
Amoxicillin + clavulanate	16,423	65	16,011	65	16,222	66
Cephalothin	16,423	66	16,011	64	16,222	65
Cefotaxime	16,423	100	16,011	99	16,222	99
Ceftazidime	16,423	99	16,011	99	16,222	99
Imipenem	16,423	100	16,011	100	16,222	100
Gentamicin	16,423	97	16,011	97	16,222	97
Tobramycin	16,423	98	16,011	98	16,222	97
Amikacin	16,423	100	16,011	100	16,222	100
Nalidixic acid	16,423	88	16,011	88	16,222	87
Ciprofloxacin	16,423	95	16,011	94	16,222	93
Trimethoprim + sulfamethoxazole	16,423	79	16,011	79	16,222	79
Ticarcillin + clavulanate	12,523	82	11,977	78	12,137	78
Piperacillin	15,586	58	15,133	58	15,386	58
Piperacillin + tazobactam	11,719	98	11,484	97	11,557	97
Aztreonam	12,670	99	12,325	99	12,147	99
Cefoxitin	9,867	98	9,777	97	10,120	97
Cefepime	11,897	100	11,773	100	11,952	100
Cefpirom	3,890	100	6,138	100	6,102	100
Mecillinam	4,113	74	4,005	73	4,087	71
Netilmicin	13,888	99	13,524	99	13,582	99
Pefloxacin	12,532	91	11,105	91	11,126	90
Fosfomycin	8,659	99	8,737	99	8,876	99
Colistin	8,852	100	8,381	100	8,537	100
Tetracyclines	4,925	59	6,475	63	6,835	64
Chloramphenicol	3,641	84	3,654	86	3,812	85

Table 35 *Citrobacter freundii:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	237	0	229	0	187	0
Ticarcillin	237	68	229	59	187	64
Piperacillin	237	69	228	59	187	64
Amoxicillin + clavulanate	237	0	229	0	187	0
Cephalothin	237	1	229	0	187	0
Cefotaxime	237	73	229	71	187	74
Ceftazidime	233	72	227	69	187	74
Imipenem	237	99	229	100	187	100
Gentamicin	237	94	229	90	187	90
Tobramycin	237	87	229	84	186	87
Amikacin	237	94	229	90	187	95
Nalidixic acid	237	87	229	66	187	66
Ciprofloxacin	237	78	229	75	187	77
Trimethoprim + sulfamethoxazole	237	86	229	81	187	89
Ticarcillin + clavulanate	209	70	191	67	160	69
Piperacillin + tazobactam	197	82	186	70	156	72
Aztreonam	205	71	197	67	166	70
Cefoxitin	167	2	174	0	133	0
Cefepime	205	99	202	93	167	97
Cefpirom	127	95	110	90	92	96
Mecillinam	66	70	78	60	59	63
Netilmicin	205	91	195	88	163	88
Pefloxacin	183	70	166	64	126	71
Fosfomycin	153	99	150	98	121	100
Colistin	133	98	141	98	106	100

Table 36 *Enterobacter aerogenes:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	424	0	433	0	364	0
Ticarcillin	424	30	433	29	364	38
Piperacillin	424	30	429	30	362	37
Amoxicillin + clavulanate	424	0	433	0	364	0
Cephalothin	424	0	433	0	364	0
Cefotaxime	424	35	433	36	364	48
Ceftazidime	424	35	428	34	363	47
Imipenem	424	100	433	99	364	99
Gentamicin	424	95	433	97	364	98
Tobramycin	422	48	430	47	364	60
Amikacin	424	55	433	49	364	61
Nalidixic acid	424	32	433	30	364	40
Ciprofloxacin	424	36	433	31	364	45
Trimethoprim + sulfamethoxazole	424	44	433	43	364	54
Ticarcillin + clavulanate	360	34	372	32	296	46
Piperacillin + tazobactam	365	37	374	33	295	48
Aztreonam	380	35	380	36	325	48
Cefoxitin	356	2	370	0	307	0
Cefepime	387	44	412	46	343	60
Cefpirom	227	48	191	40	136	67
Mecillinam	157	13	131	26	123	24
Netilmicin	303	56	292	53	258	68
Pefloxacin	306	40	276	28	246	39
Fosfomycin	326	86	327	81	274	91
Colistin	324	98	305	98	264	99

Table 37 *Enterobacter cloacae:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	537	0	595	0	581	0
Ticarcillin	537	72	595	71	581	67
Piperacillin	536	72	593	71	580	67
Amoxicillin + clavulanate	537	0	595	0	581	0
Cephalothin	537	0	595	0	581	0
Cefotaxime	537	78	595	75	581	73
Ceftazidime	536	78	591	75	578	73
Imipenem	537	100	595	100	581	100
Gentamicin	537	88	595	87	581	86
Tobramycin	531	88	594	87	581	85
Amikacin	537	98	595	97	581	98
Nalidixic acid	537	81	595	79	581	76
Ciprofloxacin	537	87	595	84	581	80
Trimethoprim + sulfamethoxazole	537	93	595	96	581	95
Ticarcillin + clavulanate	485	76	528	73	528	70
Piperacillin + tazobactam	489	81	528	73	517	71
Aztreonam	458	77	512	73	498	71
Cefoxitin	391	2	443	0	429	0
Cefepime	497	97	547	96	542	91
Cefpirom	292	90	316	93	300	84
Mecillinam	99	69	151	62	159	63
Netilmicin	452	90	516	86	493	85
Pefloxacin	372	82	398	79	379	75
Fosfomycin	337	77	380	78	365	85
Colistin	340	99	352	100	358	99

Table 38 ***Klebsiella oxytoca:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).**

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	439	0	440	0	442	0
Ticarcillin	439	0	440	0	442	0
Piperacillin	438	1	440	2	442	1
Amoxicillin + clavulanate	439	82	440	78	442	81
Cephalothin	439	73	440	71	442	74
Cefotaxime	439	97	440	98	442	97
Ceftazidime	437	97	437	99	442	99
Imipenem	439	100	440	100	442	100
Gentamicin	439	97	440	98	442	97
Tobramycin	439	97	440	96	442	97
Amikacin	439	99	440	99	442	99
Nalidixic acid	439	90	440	87	442	90
Ciprofloxacin	439	95	440	95	442	94
Trimethoprim + sulfamethoxazole	439	95	440	95	442	94
Ticarcillin + clavulanate	384	91	388	84	398	86
Piperacillin + tazobactam	361	91	379	87	391	88
Aztreonam	375	91	367	88	395	89
Cefoxitin	286	98	305	98	305	98
Cefepime	379	98	389	98	398	97
Cefpirom	222	96	253	97	250	94
Mecillinam	98	43	117	47	104	40
Netilmicin	375	98	391	97	388	98
Pefloxacin	342	93	318	90	303	89
Fosfomycin	278	87	282	85	304	88
Colistin	263	100	251	100	263	100

Table 39 ***Klebsiella pneumoniae:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).**

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	1,018	0	932	0	954	0
Ticarcillin	1,018	0	932	0	954	0
Piperacillin	1,018	0	930	0	951	0
Amoxicillin + clavulanate	1,018	85	932	87	954	85
Cephalothin	1,018	79	932	80	954	82
Cefotaxime	1,018	99	932	98	954	97
Ceftazidime	1,013	99	921	98	949	97
Imipenem	1,018	100	932	100	954	100
Gentamicin	1,018	98	932	99	954	97
Tobramycin	1,013	97	930	97	953	96
Amikacin	1,018	98	932	98	954	97
Nalidixic acid	1,018	86	932	86	954	83
Ciprofloxacin	1,018	95	932	95	954	93
Trimethoprim + sulfamethoxazole	1,018	93	932	91	954	90
Ticarcillin + clavulanate	848	89	820	90	817	88
Piperacillin + tazobactam	784	95	758	96	762	93
Aztreonam	956	98	864	98	877	96
Cefoxitin	570	96	567	96	575	94
Cefepime	831	98	813	97	820	96
Cefpirom	442	98	446	98	460	97
Mecillinam	267	44	210	50	229	48
Netilmicin	896	98	817	98	840	97
Pefloxacin	793	89	626	89	656	85
Fosfomycin	681	82	615	80	636	82
Colistin	640	100	546	99	545	99

Table 40 *Proteus mirabilis:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	1,461	59	1,392	60	1,150	60
Ticarcillin	1,461	60	1,392	61	1,384	62
Piperacillin	1,461	61	1,392	63	1,385	63
Amoxicillin + clavulanate	1,461	75	1,392	77	1,385	80
Cephalothin	1,461	74	1,392	73	1,385	75
Cefotaxime	1,461	99	1,392	99	1,385	99
Ceftazidime	1,449	99	1,377	99	1,374	99
Imipenem	1,461	96	1,392	100	1,385	100
Gentamicin	1,461	91	1,392	91	1,385	93
Tobramycin	1,454	93	1,392	94	1,384	94
Amikacin	1,461	98	1,392	99	1,385	99
Nalidixic acid	1,461	73	1,392	71	1,385	75
Ciprofloxacin	1,461	87	1,392	87	1,385	86
Trimethoprim + sulfamethoxazole	1,461	81	1,392	81	1,385	78
Ticarcillin + clavulanate	1,253	92	1,235	90	1,155	91
Piperacillin + tazobactam	1,169	98	1,155	99	1,083	99
Aztreonam	1,256	98	1,209	99	1,222	99
Cefoxitin	947	100	975	100	896	99
Cefepime	1,234	98	1,225	99	1,146	99
Cefpirom	704	99	753	99	688	100
Mecillinam	358	18	321	19	376	23
Netilmicin	1,232	94	1,184	95	1,189	95
Pefloxacin	1,142	80	1,004	78	1,002	79
Fosfomycin	956	89	958	88	964	87
Colistin	855	0	759	0	797	0

Table 41 *Proteus vulgaris:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	224	0	165	0	192	0
Ticarcillin	224	85	165	81	192	84
Piperacillin	224	85	165	81	192	84
Amoxcillin + clavulanate	224	81	165	79	192	80
Cephalothin	224	0	165	0	192	0
Cefotaxime	224	100	165	99	192	98
Ceftazidime	224	100	165	100	192	98
Imipenem	224	100	165	100	192	99
Gentamicin	224	98	165	98	192	99
Tobramycin	223	98	165	99	192	99
Amikacin	224	100	165	100	192	99
Nalidixic acid	224	96	165	98	192	97
Ciprofloxacin	224	98	165	99	192	99
Trimethoprim + sulfamethoxazole	224	92	165	88	192	92
Ticarcillin + clavulanate	208	99	157	99	179	98
Piperacillin + tazobactam	202	100	158	100	177	99
Aztreonam	178	98	137	100	155	97
Cefoxitin	151	99	129	98	137	98
Cefepime	207	100	158	99	180	100
Cefpirom	114	96	108	97	116	98
Mecillinam	33	27	26	15	35	31
Netilmicin	186	99	145	99	171	99
Pefloxacin	163	99	116	99	132	98
Fosfomycin	126	90	111	94	118	94
Colistin	119	0	75	0	97	0

Table 42 *Serratia marcescens:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	221	0	190	0	208	0
Ticarcillin	221	67	189	66	207	74
Piperacillin	221	67	190	65	207	74
Amoxicillin + clavulanate	221	0	190	0	208	0
Cephalothin	221	0	190	0	208	0
Cefotaxime	221	82	190	80	208	86
Ceftazidime	219	86	189	87	206	87
Imipenem	221	100	190	100	208	100
Gentamicin	221	91	190	88	208	92
Tobramycin	220	70	189	76	208	84
Amikacin	221	81	190	87	208	89
Nalidixic acid	221	59	190	65	208	70
Ciprofloxacin	221	75	190	72	208	83
Trimethoprim + sulfamethoxazole	221	79	190	78	208	84
Ticarcillin + clavulanate	209	70	173	69	204	79
Piperacillin + tazobactam	210	79	168	69	197	83
Aztreonam	179	83	158	84	183	87
Cefoxitin	160	24	132	23	136	26
Cefepime	212	98	174	98	202	99
Cefpirom	124	95	101	97	101	95
Mecillinam	22	0	34	0	24	0
Netilmicin	186	76	161	81	175	87
Pefloxacin	154	58	124	63	115	72
Fosfomycin	137	90	124	91	124	90
Colistin	143	0	129	0	151	0

Table 43 *Pseudomonas aeruginosa:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Ticarcillin	1,917	63.0	1,989	60.6	2,361	64.9
Piperacillin	1,917	77.8	1,989	76.2	2,361	79.3
Aztreonam	1,917	65.8	1,988	63.7	2,361	64.5
Ceftazidime	1,917	84.5	1,989	84.7	2,361	86.4
Imipenem	1,917	84.6	1,989	85.2	2,361	83.3
Gentamicin	1,917	44.9	1,989	47.0	2,361	50.1
Tobramycin	1,917	74.1	1,989	73.9	2,361	77.2
Amikacin	1,917	79.2	1,989	78.7	2,361	83.9
Colistin	1,917	100.0	1,989	100.0	2,361	99.9
Ciprofloxacin	1,917	69.8	1,989	67.2	2,361	69.3
Ticarcillin + clavulanate	1,813	62.1	1,904	61.0	2,321	64.4
Piperacillin + tazobactam	1,890	82.3	1,980	81.3	2,345	81.8
Cefepime	1,509	63.0	1,616	64.0	1,877	71.2
Fosfomycin	1,576	41.0	1,609	39.2	1,969	51.6

Table 44 *Acinetobacter baumannii:* susceptibility to antibiotics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Ticarcillin	253	71.0	312	62.0	290	60.0
Piperacillin	253	40.0	312	38.0	290	40.0
Ceftazidime	253	50.0	312	33.0	290	32.0
Imipenem	253	99.0	312	99.0	290	100.0
Gentamicin	253	56.0	312	52.0	290	52.0
Tobramycin	253	67.0	312	69.0	290	68.0
Amikacin	253	74.0	312	73.0	290	74.0
Trimethoprim + sulfamethoxazole	253	61.0	312	57.0	290	57.0
Ciprofloxacin	253	47.0	312	43.0	290	34.0
Ticarcillin + clavulanate	253	75.0	277	65.0	255	63.0
Piperacillin + tazobactam	229	78.0	292	72.0	264	69.0
Cefepime	231	39.0	279	27.0	266	29.0

Table 45 *Staphylococcus aureus:* antibiotic susceptibility of strains isolated from urines (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Oxacillin	749	37.2	681	35.8	702	40.6
Tobramycin	749	41.6	707	41.2	702	48.3
Gentamicin	749	93.2	707	92.2	702	94.7
Rifampicin	749	96.4	706	96.5	702	97.6
Fusidic acid	749	93.8	706	93.9	702	96.0
Trimethoprim + sulfamethoxazole	749	98.3	700	98.1	702	97.3
Fluoroquinolones	749	30.8	707	29.1	702	33.1
Vancomycin	749	99.9	706	99.4	702	100.0
Penicillin G	747	7.1	700	6.6	698	7.5
Kanamycin	735	41.2	691	41.1	666	47.8
Erythromycin	732	43.0	690	47.2	702	53.6
Lincomycin	727	52.8	693	54.8	701	61.9
Fosfomycin	750	90.8	705	92.3	693	92.2
Teicoplanin	665	98.7	687	97.8	664	98.4

Table 46 *Escherichia coli:* antibiotic susceptibility of strains isolated from urines (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	12,640	54.7	12,430	54.7	12,492	54.6
Ticarcillin	12,640	57.9	12,430	57.9	12,492	57.6
Amoxicillin + clavulanate	12,640	66.2	12,430	66.3	12,492	66.8
Cephalothin	12,640	66.9	12,430	64.6	12,492	65.0
Cefotaxime	12,640	99.6	12,430	99.5	12,492	99.3
Gentamicin	12,640	96.8	12,430	97.5	12,492	96.7
Tobramycin	12,640	97.5	12,430	97.8	12,492	97.3
Amikacin	12,640	99.7	12,430	99.6	12,492	99.6
Trimethoprim + sulfamethoxazole	12,640	78.6	12,430	79.3	12,492	79.5
Fluoroquinolones	12,640	91.2	12,430	91.5	12,492	90.2
Piperacillin	11,833	58.1	11,593	58.1	11,691	58.0
Ceftazidime	10,813	99.4	10,744	99.3	10,886	99.0
Imipenem	10,982	100.0	10,753	100.0	10,856	100.0
Netilmicin	10,714	98.6	10,509	98.8	10,457	98.6
Nalidixic acid	11,561	87.4	11,330	87.9	11,331	86.3
Furans	12,194	96.7	11,795	95.4	11,854	96.1

APPENDIX 2

Table 47 *Pseudomonas aeruginosa:* susceptibility to antibiotics of strains isolated from urines (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Ticarcillin	892	60.6	926	54.3	873	61.9
Ceftazidime	892	85.4	926	85.5	873	86.3
Imipenem	892	86.1	926	85.5	873	82.5
Tobramycin	892	64.8	926	63.7	873	70.0
Amikacin	892	79.6	926	77.6	873	81.4
Ciprofloxacin	892	58.6	926	56.5	873	59.9
Piperacillin	822	73.5	855	73.9	832	78.6
Piperacillin + tazobactam	799	80.6	879	79.1	856	80.8
Aztreonam	890	64.6	922	57.7	870	61.1
Gentamicin	734	41.8	759	39.7	797	43.7
Fosfomycin	738	51.6	776	47.7	707	60.4
Colistin	760	100.0	829	100.0	809	100.0

Table 48 *Staphylococcus aureus:* susceptibility to antibiotics of strains isolated in outpatient clinics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Oxacillin	823	84.5	820	80.8	848	82.0
Kanamycin	823	81.6	820	79.2	848	80.3
Tobramycin	823	83.2	820	80.5	848	82.1
Gentamicin	823	97.8	820	98.3	848	97.1
Erythromycin	823	71.1	820	70.3	848	69.7
Rifampicin	823	96.5	820	97.6	848	97.3
Fusidic acid	823	93.8	820	93.8	848	94.7
Fosfomycin	823	97.9	820	97.4	848	97.8
Trimethoprim + sulfamethoxazole	823	99.4	820	98.8	848	98.1
Fluoroquinolones	823	84.2	820	79.5	848	79.1
Vancomycin	823	99.9	820	100.0	848	100.0
Penicillin G	802	9.9	804	11.2	838	9.4
Lincomycin	792	86.1	795	83.9	849	84.3
Teicoplanin	791	99.5	812	99.1	805	100.0

Table 49 *Escherichia coli:* susceptibility to antibiotics of strains isolated in outpatient clinics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	2,150	57.4	2,272	57.8	2,188	58.4
Ticarcillin	2,150	59.9	2,275	59.8	2,188	60.3
Amoxicillin + clavulanate	2,150	68.7	2,273	68.3	2,188	69.5
Cephalothin	2,150	72.5	2,265	66.4	2,188	66.7
Cefotaxime	2,150	100.0	2,262	99.8	2,188	99.3
Gentamicin	2,150	97.5	2,268	98.8	2,188	97.6
Tobramycin	2,150	98.3	2,264	98.9	2,188	97.9
Amikacin	2,150	99.8	2,275	99.8	2,188	99.5
Trimethoprim + sulfamethoxazole	2,150	80.1	2,275	82.1	2,188	81.1
Fluoroquinolones	2,150	93.8	2,274	94.1	2,188	93.0
Piperacillin	2,050	59.9	2,190	60.3	2,125	60.9
Ceftazidime	1,966	99.9	2,142	99.7	2,053	99.2
Aztreonam	1,881	99.5	2,044	99.2	1,886	99.1
Imipenem	1,958	99.9	2,115	100.0	2,050	99.9
Netilmicin	1,888	98.8	1,825	99.5	1,703	98.9
Nalidixic acid	1,997	90.5	2,151	91.3	2,077	90.4
Furans	1,927	97.6	2,047	96.8	1,953	96.5

Table 50 *Pseudomonas aeruginosa:* antibiotic susceptibility of strains isolated in outpatient clinics (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Ticarcillin	290	68.3	281	68.4	279	68.4
Piperacillin	290	84.1	281	81.0	279	81.0
Piperacillin + tazobactam	290	88.6	281	87.4	279	87.4
Ceftazidime	290	88.3	281	90.7	279	90.7
Aztreonam	290	70.2	281	71.9	279	71.9
Imipenem	290	90.7	281	86.8	279	86.8
Tobramycin	290	85.2	281	85.8	279	85.8
Amikacin	290	78.6	281	82.6	279	82.6
Ciprofloxacin	290	74.8	281	77.6	279	77.6
Cefepime	227	71.4	207	75.4	202	75.4
Gentamicin	267	49.1	254	57.1	270	57.1
Netilmicin	256	53.9	225	63.6	204	63.6
Fosfomycin	248	48.4	243	30.5	240	30.5
Colistin	244	100.0	220	100.0	240	100.0

Table 51 *Staphylococcus aureus :* antibiotic susceptibility of strains isolated from patients in emergency rooms (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Oxacillin	495	73.2	479	75.1	496	73.2
Kanamycin	495	73.1	479	75.4	496	73.4
Tobramycin	495	73.6	479	76.8	496	75.3
Gentamicin	495	96.2	479	96.2	496	97.8
Erythromycin	495	68.5	479	65.8	496	69.2
Rifampicin	495	96.8	479	97.9	496	98.6
Fusidic acid	495	96.2	479	91.4	496	93.2
Fosfomycin	495	95.4	479	96.0	496	95.1
Trimethoprim + sulfamethoxazole	495	99.0	479	97.9	496	98.2
Fluoroquinolones	495	70.3	479	73.7	496	71.3
Vancomycin	495	100.0	479	100.0	496	100.0
Penicillin G	492	9.6	477	9.2	495	11.1
Lincomycin	470	78.5	462	81.0	497	78.9
Teicoplanin	477	99.6	471	98.5	465	99.4

Table 52 *Escherichia coli:* antibiotic susceptibility of strains isolated from patients in emergency rooms (REUSSIR Network, 2000-2002).

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Amoxicillin or ampicillin	2,126	58.6	1,983	57.4	2,175	57.5
Ticarcillin	2,126	61.4	1,983	61.0	2,175	60.3
Amoxicillin + clavulanate	2,126	67.1	1,983	65.0	2,175	66.2
Cephalothin	2,126	66.5	1,983	63.3	2,175	64.3
Cefotaxime	2,126	99.7	1,983	99.7	2,175	99.7
Gentamicin	2,126	97.6	1,983	98.2	2,175	97.4
Tobramycin	2,126	98.2	1,983	98.4	2,175	98.1
Amikacin	2,126	100.0	1,983	99.7	2,175	99.6
Trimethoprim + sulfamethoxazole	2,126	80.9	1,983	81.7	2,175	82.2
Fluoroquinolones	2,126	92.6	1,983	92.7	2,175	91.8
Piperacillin	2,025	61.7	1,895	60.8	2,099	60.4
Ceftazidime	1,884	99.6	1,723	99.4	1,946	99.2
Aztreonam	1,642	99.6	1,400	99.4	1,534	99.3
Imipenem	1,834	99.9	1,647	100.0	1,827	99.9
Netilmicin	1,697	99.4	1,806	98.7	1,997	98.8
Nalidixic acid	1,844	90.1	1,629	90.4	1,777	89.7
Furans	1,832	97.5	1,692	95.3	1,848	96.8

Table 53 ***Pseudomonas aeruginosa:*** **antibiotic susceptibility of strains isolated from patients in emergency rooms (REUSSIR Network, 2000-2002).**

Antibiotic	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Ticarcillin	125	55.8	154	63.1	161	60.2
Piperacillin	125	72.3	154	83.2	161	83.2
Piperacillin + tazobactam	125	82.1	154	84.9	161	83.5
Ceftazidime	125	84.0	154	89.6	161	91.9
Aztreonam	125	65.6	154	60.5	161	56.5
Imipenem	125	84.0	154	90.2	161	86.3
Tobramycin	125	76.8	154	71.4	161	72.0
Amikacin	125	84.0	154	83.1	161	80.7
Ciprofloxacin	125	70.2	154	64.7	161	64.5
Cefepime	90	63.3	136	67.6	140	66.4
Gentamicin	111	52.3	132	50.0	149	49.0
Netilmicin	94	60.6	107	51.4	99	47.4
Fosfomycin	120	52.5	146	41.1	151	49.0
Colistin	103	100.0	138	100.0	141	100.0

Table 54 ***Staphylococcus aureus:*** **susceptibility to methicillin of strains isolated from patients in outpatient clinics and in emergency rooms (REUSSIR Network, 2000-2002).**

	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Outpatient clinics	823	84.5	820	80.8	848	82.0
Emergency rooms	495	73.2	479	75.1	496	73.2

Table 55 ***Escherichia coli:*** **susceptibility to fluoroquinolones of strains isolated from patients in outpatient clinics and in emergency rooms (REUSSIR Network, 2000-2002).**

	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Outpatient clinics	2,150	93.8	2,274	94.1	2,188	93.0
Emergency rooms	2,126	92.6	1,983	92.7	2,175	91.8

Table 56 ***Pseudomonas aeruginosa :*** **susceptibility to ciprofloxacine of strains isolated from patients in outpatient clinics and in emergency rooms (REUSSIR Network, 2000-2002).**

	2000		2001		2002	
	n	S (%)	n	S (%)	n	S (%)
Outpatient clinics	290	74.8	281	77.6	279	77.6
Emergency rooms	125	70.2	154	64.7	161	64.5

Table 57 *Streptococcus pneumoniae:* susceptibility to antibiotics (CNRP, 2002).

Antibiotic	Total number of strains	Number of strains			Percentage of strains		
		S	I	R	S	I	R
Penicillin	1,492	702	647	143	47.0	43.4	9.6
Amoxicillin	1,492	1,035	439	18	69.4	29.4	1.2
Cefotaxime	1,492	1,258	234	0	84.3	15.7	–
Erythromycin	1,477	614	13	850	41.5	1.0	57.5
Lincomycin	1,477	677	139	661	45.8	9.4	44.8
Pristinamycin	1,477	1,475	0	2	99.9	–	0.1
Levofloxacin	1,492	1,489	0	3	99.8	–	0.2
Moxifloxacin	1,492	1,489	1	2	99.8	0.1	0.1
Trimethoprim + sulfamethoxazole	1,477	868	201	408	58.8	13.6	27.6
Rifampicin	1,477	1,472	3	2	99.7	0.2	0.1
Chloramphenicol	1,477	1,288	28	161	87.2	1.9	10.9
Tetracyclines	1,477	966	112	399	65.4	7.6	27.0
Fosfomycin	1,477	1,463	0	14	99.1	–	0.9
Kanamycin	1,477	831	1	645	56.2	0.1	43.7
Gentamicin	1,477	1,477	0	0	100.0	–	–
Vancomycin	1,477	1,477	0	0	100.0	–	–
Telithromycin	704	695	9	0	98.7	1.3	–

Table 58 *Streptococcus pyogenes:* susceptibility to antibiotics in 2002 according to the Network.

Antibiotic	AFORCOPI-BIO		EPIVILLE		Réseau des Armées		Réseau Ile-de-France*	
	n	S (%)	n	S (%)	n	S (%)	n	S (%)
Ampicillin	43	100.0	178	100.0	60	100.0	25	100.0
Erythromycin	43	65.1	178	62.9	60	61.7	25	80.0
Lincomycin	43	69.8	–	–	60	70.0	–	–
Pristinamycin	43	100.0	70	100.0	–	–	–	–
Tetracyclines	43	79.1	140	74.3	60	73.3	–	–

* Only bacteraemia

Table 59 *Escherichia coli:* susceptibility to antibiotics of strains isolated from poultry and swine (RESAPATH, 2002).

Antibiotic	Poultry		Swine	
	n	S (%)	n	S (%)
Amoxicillin	2,212	45.6	1,356	46.8
Amoxicillin + clavulanate	307	71.3	863	81.6
Ceftiofur	1,923	99.4	1,440	99.2
Neomycin	1,594	89.7	1,241	88.2
Gentamicin	1,926	93.5	1,262	93.7
Apramycin	–	–	1,144	95.5
Florfenicol	574	99.7	966	96.3
Tetracyclines	2,149	16.1	1,432	12.1
Trimethoprim + sulfamethoxazole	2,225	55.9	1,442	33.5
Flumequin	2,216	70.9	1,351	74.8
Oxolinix acid	1,927	76.0	1,346	80.5
Enrofloxacin	1,273	87.1	1,341	92.2
Marbofloxacin	–	–	1,341	94.7

Notes