Algeria

Countrywide

2001

	New		Previous	Combined
	N	%		
Total number of strains tested	518	100.0		
SUSCEPTIBLE TO ALL 4 DRUGS	486	93.6		
ANY RESISTANCE	32	6.2		
Isoniazid (INH)	16	3.2		
Rifampicin (RMP)	6	1.2		
Ethambutol (EMB)	0	0.0		
Streptomycin (SM)	27	5.2		
MONORESISTANCE	21	4.1		
Isoniazid (INH)	5	1.0		
Rifampicin (RMP)	0	0.0		
Ethambutol (EMB)	0	0.0		
Streptomycin (SM)	16	3.1		
MULTIDRUG RESISTANCE	6	1.1		
INH+RMP	0	0.0		
INH+RMP+EMB	0	0.0		
INH+RMP+SM	6	1.1		
INH+RMP+EMB+SM	0	0.0		
OTHER PATTERNS	5	1.0		
INH+EMB	0	0.0		
INH+SM	5	5.0		
INH+EMB+SM	0	0.0		
RMP+EMB	0	0.0		
RMP+SM	0	0.0		
RMP+EMB+SM	0	0.0		
EMB+SM	0	0.0		
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs	486	93.6		
resistant to 1 drug	21	4.1		
resistant to 2 drugs	5	1.0		
resistant to 3 drugs	6	1.1		
resistant to 4 drugs	0	0.0		

Andorra

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	3	100.0	0	0.0	3	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	3	100.0	0	0.0	3	100.0
ANY RESISTANCE	0	0.0	0	0.0	0	0.0
Isoniazid (INH)	0	0.0	0	0.0	0	0.0
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	0	0.0	0	0.0	0	0.0
MONORESISTANCE	0	0.0	0	0.0	0	0.0
Isoniazid (INH)	0	0.0	0	0.0	0	0.0
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	0	0.0	0	0.0	0	0.0
MULTIDRUG RESISTANCE	0	0.0	0	0.0	0	0.0
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	0	0.0	0	0.0	0	0.0
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	0	0.0	0	0.0	0	0.0
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	3	100.0	0	0.0	3	100.0
resistant to 1 drug	0	0.0	0	0.0	0	0.0
resistant to 2 drugs	0	0.0	0	0.0	0	0.0
resistant to 3 drugs	0	0.0	0	0.0	0	0.0
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

Argentina

Countrywide

1999

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	679	100.0	149	100.0		100.0
SUSCEPTIBLE TO ALL 4 DRUGS	610	89.8	115	77.2		87.6
ANY RESISTANCE	69	10.2	34	22.8		12.4
Isoniazid (INH)	26	3.8	24	16.1		6.0
Rifampicin (RMP)	13	1.9	15	10.1		3.4
Ethambutol (EMB)	16	2.4	10	6.7		3.1
Streptomycin (SM)	50	7.4	24	16.1		8.9
MONORESISTANCE	51	7.5	15	10.1		8.0
Isoniazid (INH)	9	1.3	6	4.0		1.8
Rifampicin (RMP)	1	0.1	0	0.0		0.1
Ethambutol (EMB)	7	1.0	1	0.7		1.0
Streptomycin (SM)	34	5.0	8	5.4		5.1
MULTIDRUG RESISTANCE	12	1.8	14	9.4		3.1
INH+RMP	2	0.3	1	0.7		0.4
INH+RMP+EMB	0	0.0	2	1.3		0.2
INH+RMP+SM	2	0.3	5	3.4		0.8
INH+RMP+EMB+SM	8	1.2	6	4.0		1.7
OTHER PATTERNS	6	0.9	5	3.4		1.3
INH+EMB	0	0.0	0	0.0		0.0
INH+SM	5	0.7	3	2.0		1.0
INH+EMB+SM	0	0.0	1	0.7		0.1
RMP+EMB	0	0.0	0	0.0		0.0
RMP+SM	0	0.0	1	0.7		0.1
RMP+EMB+SM	0	0.0	0	0.0		0.0
EMB+SM	1	0.1	0	0.0		0.2
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	610	89.8	115	77.2		87.6
resistant to 1 drug	51	7.5	15	10.1		8.0
resistant to 2 drugs	8	1.2	5	3.4		1.6
resistant to 3 drugs	2	0.3	8	5.4		1.1
resistant to 4 drugs	8	1.2	6	4.0		1.7

Australia

Countrywide

2001

	New	Previous	Combined	
			N	%
Total number of strains tested			770	100.0
SUSCEPTIBLE TO ALL 4 DRUGS			694	90.1
ANY RESISTANCE			76	9.9
Isoniazid (INH)			66	8.6
Rifampicin (RMP)			13	1.7
Ethambutol (EMB)			2	0.3
Streptomycin (SM)			21	2.7
MONORESISTANCE			53	6.9
Isoniazid (INH)			43	5.6
Rifampicin (RMP)			1	0.1
Ethambutol (EMB)			1	0.1
Streptomycin (SM)			8	1.0
MULTIDRUG RESISTANCE			12	1.6
INH+RMP			10	1.3
INH+RMP+EMB			0	0.0
INH+RMP+SM			1	0.1
INH+RMP+EMB+SM			1	0.1
OTHER PATTERNS			11	1.4
INH+EMB			0	0.0
INH+SM			11	1.4
INH+EMB+SM			0	0.0
RMP+EMB			0	0.0
RMP+SM			0	0.0
RMP+EMB+SM			0	0.0
EMB+SM			0	0.0
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs			694	90.1
resistant to 1 drug			53	6.9
resistant to 2 drugs			21	2.7
resistant to 3 drugs			1	0.1
resistant to 4 drugs			1	0.1

Austria

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	694	100.0	67	100.0	761	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	663	95.5	61	91.0	724	95.1
ANY RESISTANCE	31	4.5	6	9.0	37	4.9
Isoniazid (INH)	20	2.9	2	3.0	22	2.9
Rifampicin (RMP)	5	0.7	1	1.5	6	0.8
Ethambutol (EMB)	1	0.1	0	0.0	1	0.1
Streptomycin (SM)	18	2.6	5	7.5	23	3.0
MONORESISTANCE	21	3.0	5	7.5	26	3.4
Isoniazid (INH)	10	1.4	1	1.5	11	1.4
Rifampicin (RMP)	2	0.3	0	0.0	2	0.3
Ethambutol (EMB)	1	0.1	0	0.0	1	0.1
Streptomycin (SM)	8	1.2	4	6.0	12	1.6
MULTIDRUG RESISTANCE	3	0.4	1	1.5	4	0.5
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	3	0.4	1	1.5	4	0.5
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	7	1.0	0	0.0	7	0.9
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	7	1.0	0	0.0	7	0.9
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	663	95.5	61	91.0	724	95.1
resistant to 1 drug	21	3.0	5	7.5	26	3.4
resistant to 2 drugs	7	1.0	0	0.0	7	0.9
resistant to 3 drugs	3	0.4	1	1.5	4	0.5
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

Belgium

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	562	100.0	78	100.0	730	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	528	94.0	67	85.9	678	92.9
ANY RESISTANCE	34	6.0	11	14.1	52	7.1
Isoniazid (INH)	30	5.3	10	12.8	47	6.4
Rifampicin (RMP)	9	1.6	5	6.4	14	1.9
Ethambutol (EMB)	6	1.1	4	5.1	12	1.6
Streptomycin (SM)	999	99.0	999	99.0	999	99.0
MONORESISTANCE	25	4.4	6	7.7	36	4.9
Isoniazid (INH)	21	3.7	5	6.4	31	4.2
Rifampicin (RMP)	2	0.4	1	1.3	3	0.4
Ethambutol (EMB)	2	0.4	0	0.0	2	0.3
Streptomycin (SM)	999	99.0	999	99.0	999	99.0
MULTIDRUG RESISTANCE	7	1.2	4	5.1	11	1.5
INH+RMP	5	0.9	1	1.3	6	0.8
INH+RMP+EMB	2	0.4	3	3.8	5	0.7
INH+RMP+SM	999	99.0	999	99.0	999	99.0
INH+RMP+EMB+SM	999	99.0	999	99.0	999	99.0
OTHER PATTERNS	2	0.4	1	1.3	5	0.7
INH+EMB	2	0.4	1	1.3	5	0.7
INH+SM	999	99.0	999	99.0	999	99.0
INH+EMB+SM	999	99.0	999	99.0	999	99.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	999	99.0	999	99.0	999	99.0
RMP+EMB+SM	999	99.0	999	99.0	999	99.0
EMB+SM	999	99.0	999	99.0	999	99.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	528	94.0	67	85.9	678	92.9
resistant to 1 drug	25	4.4	6	7.7	36	4.9
resistant to 2 drugs	7	1.2	2	2.6	11	1.5
resistant to 3 drugs	2	0.4	3	3.8	5	0.7
resistant to 4 drugs	999	99.0	999	99.0	999	99.0

Bosnia Herzegovina

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	993	100.0	153	100.0	1,153	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	969	97.6	133	86.9	1,107	96.0
ANY RESISTANCE	24	2.4	20	13.1	46	4.0
Isoniazid (INH)	5	0.5	5	3.3	11	1.0
Rifampicin (RMP)	7	0.7	9	5.9	17	1.5
Ethambutol (EMB)	11	1.1	10	6.5	21	1.8
Streptomycin (SM)	5	0.5	8	5.2	15	1.3
MONORESISTANCE	20	2.0	13	8.5	34	2.9
Isoniazid (INH)	3	0.3	2	1.3	5	0.4
Rifampicin (RMP)	6	0.6	4	2.6	10	0.9
Ethambutol (EMB)	9	0.9	5	3.3	14	1.2
Streptomycin (SM)	2	0.2	2	1.3	5	0.4
MULTIDRUG RESISTANCE	1	0.1	3	2.0	5	0.4
INH+RMP	1	0.1	0	0.0	1	0.1
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	1	0.7	2	0.2
INH+RMP+EMB+SM	0	0.0	2	1.3	2	0.2
OTHER PATTERNS	3	0.3	4	2.6	7	0.6
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	1	0.1	0	0.0	1	0.1
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	1	0.7	1	0.1
RMP+SM	0	0.0	1	0.7	1	0.1
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	2	0.2	2	1.3	4	0.3
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	969	97.6	133	86.9	1,107	96.0
resistant to 1 drug	20	2.0	13	8.5	34	2.9
resistant to 2 drugs	4	0.4	4	2.6	8	0.7
resistant to 3 drugs	0	0.0	1	0.7	2	0.2
resistant to 4 drugs	0	0.0	2	1.3	2	0.2

Botswana

Countrywide

2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	1,182	100.0	106	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	1,059	89.6	82	77.3	88.5
ANY RESISTANCE	123	10.4	23	21.7	11.4
Isoniazid (INH)	53	4.5	15	14.2	5.3
Rifampicin (RMP)	24	2.0	13	12.3	2.9
Ethambutol (EMB)	15	1.3	9	8.5	1.9
Streptomycin (SM)	82	6.9	17	16.0	7.7
MONORESISTANCE	86	7.3	7	6.6	7.2
Isoniazid (INH)	22	1.9	0	0.0	1.7
Rifampicin (RMP)	10	0.8	0	0.0	0.8
Ethambutol (EMB)	2	0.2	2	1.9	0.3
Streptomycin (SM)	52	4.4	5	4.7	4.4
MULTIDRUG RESISTANCE	10	0.8	11	10.4	1.7
INH+RMP	3	0.3	3	2.8	0.5
INH+RMP+EMB	2	0.2	2	1.9	0.3
INH+RMP+SM	3	0.3	1	0.9	0.3
INH+RMP+EMB+SM	2	0.2	5	4.7	0.6
OTHER PATTERNS	27	2.3	6	5.7	2.6
INH+EMB	2	0.2	0	0.0	0.2
INH+SM	15	1.3	4	3.8	1.5
INH+EMB+SM	4	0.3	0	0.0	0.3
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	3	0.3	2	1.9	0.4
RMP+EMB+SM	1	0.1	0	0.0	0.1
EMB+SM	2	0.2	0	0.0	0.2
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	1,059	89.6	82	77.3	88.5
resistant to 1 drug	86	7.3	7	6.6	7.2
resistant to 2 drugs	25	2.1	9	8.5	2.7
resistant to 3 drugs	10	0.8	3	2.8	1.0
resistant to 4 drugs	2	0.2	5	4.7	0.6

Cambodia

Countrywide

2001

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	638	100.0	96	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	572	89.7	79	82.3	89.3
ANY RESISTANCE	66	10.3	17	17.7	10.7
Isoniazid (INH)	41	6.4	16	16.7	7.0
Rifampicin (RMP)	4	0.6	3	3.1	0.8
Ethambutol (EMB)	1	0.1	0	0.0	0.1
Streptomycin (SM)	32	5.0	7	7.3	5.1
MONORESISTANCE	54	8.4	10	10.4	8.6
Isoniazid (INH)	30	4.7	9	9.3	5.0
Rifampicin (RMP)	3	0.5	0	0.0	0.4
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	21	3.3	1	1.0	3.2
MULTIDRUG RESISTANCE	0	0.0	3	3.1	0.2
INH+RMP	0	0.0	1	1.0	0.3
INH+RMP+EMB	0	0.0	0	0.0	0.0
INH+RMP+SM	0	0.0	2	2.0	0.1
INH+RMP+EMB+SM	0	0.0	0	0.0	0.0
OTHER PATTERNS	12	1.9	4	4.2	2.0
INH+EMB	1	0.1	0	0.0	0.1
INH+SM	10	1.6	4	4.2	1.7
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	1	0.1	0	0.0	0.1
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	572	89.7	79	82.3	89.3
resistant to 1 drug	54	8.4	10	10.4	8.6
resistant to 2 drugs	12	1.9	5	5.2	2.1
resistant to 3 drugs	0	0.0	2	2.0	0.1
resistant to 4 drugs	0	0.0	0	0.0	0.0

Canada

Countrywide
2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	1,244	100.0	119	100.0	1,363	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	1,138	91.5	99	83.2	1,237	90.8
ANY RESISTANCE	106	8.5	20	16.8	126	9.2
Isoniazid (INH)	84	6.8	15	12.6	99	7.3
Rifampicin (RMP)	11	0.9	5	4.2	16	1.2
Ethambutol (EMB)	13	1.0	4	3.4	17	1.2
Streptomycin (SM)	43	3.4	8	6.7	51	3.7
MONORESISTANCE	73	5.8	13	10.9	86	6.3
Isoniazid (INH)	53	4.3	8	6.7	61	4.5
Rifampicin (RMP)	0	0.0	1	0.8	1	0.0
Ethambutol (EMB)	3	0.2	0	0.0	3	0.2
Streptomycin (SM)	17	1.4	4	3.4	21	1.5
MULTIDRUG RESISTANCE	9	0.7	4	3.4	13	0.9
INH+RMP	2	0.1	1	0.8	3	0.2
INH+RMP+EMB	2	0.1	1	0.8	3	0.2
INH+RMP+SM	3	0.2	1	0.8	4	0.3
INH+RMP+EMB+SM	2	0.1	1	0.8	3	0.2
OTHER PATTERNS	24	1.9	3	2.5	27	1.9
INH+EMB	1	0.0	1	0.8	2	0.1
INH+SM	18	1.4	1	0.8	19	1.4
INH+EMB+SM	3	0.2	1	0.8	4	0.2
RMP+EMB	2	0.1	0	0.0	2	0.1
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	1,138	91.5	99	83.2	1,237	90.8
resistant to 1 drug	73	5.8	13	10.9	86	6.3
resistant to 2 drugs	23	1.8	3	2.5	26	1.9
resistant to 3 drugs	8	0.6	3	2.5	11	0.8
resistant to 4 drugs	2	0.1	1	0.8	3	0.2

Chile

Countrywide
2001

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	867	100.0	291	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	776	89.5	231	74.9	86.3
ANY RESISTANCE	91	11.7	60	25.1	13.7
Isoniazid (INH)	39	5.0	50	21.6	7.5
Rifampicin (RMP)	7	0.9	17	5.8	2.2
Ethambutol (EMB)	2	0.2	10	4.3	0.9
Streptomycin (SM)	78	10.0	52	22.5	11.9
MONORESISTANCE	64	8.2	37	16.0	9.4
Isoniazid (INH)	12	1.5	12	5.2	2.1
Rifampicin (RMP)	1	0.1	6	2.6	0.5
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	51	6.5	19	5.1	6.8
MULTIDRUG RESISTANCE	6	0.7	11	4.8	1.4
INH+RMP	0	0.0	0	0.0	0.0
INH+RMP+EMB	0	0.0	3	1.3	0.2
INH+RMP+SM	4	0.5	1	0.4	0.5
INH+RMP+EMB+SM	2	0.2	7	3.0	0.7
OTHER PATTERNS	21	2.7	10	4.3	2.9
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	21	2.7	10	4.3	2.9
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	776	89.5	231	74.9	86.3
resistant to 1 drug	64	8.2	37	16.0	9.4
resistant to 2 drugs	21	2.7	10	4.3	2.9
resistant to 3 drugs	4	0.5	4	1.7	0.7
resistant to 4 drugs	2	0.3	7	3.0	0.7

China

Henan
2001

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	1,222	100.0	265	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	858	70.2	104	39.2	67.7
ANY RESISTANCE	364	29.8	161	60.8	32.3
Isoniazid (INH)	208	17.0	125	47.2	19.4
Rifampicin (RMP)	117	9.6	113	42.6	12.3
Ethambutol (EMB)	53	4.3	48	18.1	5.4
Streptomycin (SM)	271	22.2	114	43.0	23.8
MONORESISTANCE	190	15.6	38	14.3	15.5
Isoniazid (INH)	40	3.3	11	4.2	3.3
Rifampicin (RMP)	17	1.4	8	3.0	1.6
Ethambutol (EMB)	10	0.8	4	1.5	0.9
Streptomycin (SM)	123	10.1	15	5.7	9.7
MULTIDRUG RESISTANCE	95	7.8	97	36.6	10.1
INH+RMP	18	1.5	20	7.5	5.5
INH+RMP+EMB	5	0.4	2	0.8	0.4
INH+RMP+SM	47	3.9	41	15.5	4.8
INH+RMP+EMB+SM	25	2.0	34	12.8	2.9
OTHER PATTERNS	79	6.5	26	9.8	6.7
INH+EMB	2	0.2	0	0.0	0.2
INH+SM	62	5.1	13	4.9	5.1
INH+EMB+SM	9	0.7	4	1.5	0.8
RMP+EMB	1	0.1	2	0.8	0.1
RMP+SM	4	0.3	5	1.9	0.5
RMP+EMB+SM	0	0.0	1	0.4	0.0
EMB+SM	1	0.1	1	0.4	0.1
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	858	70.2	104	39.2	67.7
resistant to 1 drug	190	15.6	38	14.3	15.5
resistant to 2 drugs	88	7.1	41	15.5	7.9
resistant to 3 drugs	61	5.0	48	18.1	6.0
resistant to 4 drugs	25	2.0	34	12.9	2.9

China

Hubei

1999

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	859	100.0	238	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	709	82.5	132	55.5	75.8
ANY RESISTANCE	150	17.5	106	44.5	24.2
Isoniazid (INH)	83	9.7	79	33.2	15.5
Rifampicin (RMP)	33	3.8	64	26.9	9.6
Ethambutol (EMB)	5	0.6	21	8.8	2.6
Streptomycin (SM)	98	11.4	61	25.6	14.9
MONORESISTANCE	94	10.9	32	13.4	11.6
Isoniazid (INH)	32	3.7	13	5.5	4.2
Rifampicin (RMP)	10	1.2	4	1.7	1.3
Ethambutol (EMB)	1	0.1	0	0.0	0.1
Streptomycin (SM)	51	5.9	15	6.3	6.0
MULTIDRUG RESISTANCE	18	2.1	52	21.8	7.0
INH+RMP	6	0.7	19	8.0	7.5
INH+RMP+EMB	2	0.2	5	2.1	0.7
INH+RMP+SM	9	1.0	18	7.6	2.7
INH+RMP+EMB+SM	1	0.1	10	4.2	1.1
OTHER PATTERNS	38	4.4	22	9.2	5.6
INH+EMB	1	0.1	1	0.4	0.2
INH+SM	32	3.7	11	4.6	3.9
INH+EMB+SM	0	0.0	2	0.8	0.2
RMP+EMB	0	0.0	3	1.3	0.3
RMP+SM	5	0.6	5	2.1	1.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	709	82.5	132	55.5	75.8
resistant to 1 drug	94	10.9	32	13.4	11.6
resistant to 2 drugs	44	5.1	39	16.4	7.9
resistant to 3 drugs	11	1.2	25	10.5	3.6
resistant to 4 drugs	1	0.1	10	4.2	1.1

China

Hong Kong
2001

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	3,470	100.0	169	100.0	3,639	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	3,115	89.8	130	76.9	3,245	89.2
ANY RESISTANCE	355	10.2	39	23.1	394	10.8
Isoniazid (INH)	191	5.5	32	18.9	223	6.1
Rifampicin (RMP)	33	1.0	19	11.2	52	1.4
Ethambutol (EMB)	19	0.5	10	5.9	29	0.8
Streptomycin (SM)	260	7.5	30	17.8	290	8.0
MONORESISTANCE	243	7.1	15	8.8	258	7.1
Isoniazid (INH)	80	2.3	8	4.7	88	2.4
Rifampicin (RMP)	6	0.2	0	0.0	6	0.2
Ethambutol (EMB)	1	0.1	0	0.0	1	0.1
Streptomycin (SM)	156	4.1	7	4.1	163	4.5
MULTIDRUG RESISTANCE	27	0.8	19	11.2	46	1.3
INH+RMP	6	0.2	1	0.6	7	0.2
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	13	0.4	8	4.7	21	0.6
INH+RMP+EMB+SM	8	0.2	10	5.9	18	0.5
OTHER PATTERNS	85	2.5	5	3.0	90	2.4
INH+EMB	2	0.1	0	0.0	2	0.1
INH+SM	75	2.2	5	3.0	80	2.2
INH+EMB+SM	7	0.2	0	0.0	7	0.2
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	1	0.1	0	0.0	1	0.1
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	3,115	89.8	130	76.9	3,245	89.2
resistant to 1 drug	243	7.0	15	8.9	258	7.1
resistant to 2 drugs	84	2.4	6	3.6	90	2.5
resistant to 3 drugs	20	0.6	8	4.7	28	0.8
resistant to 4 drugs	8	0.2	10	5.9	18	0.5

China

Liaoning

1999

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	818	100.0	86	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	474	57.9	38	44.2	55.4
ANY RESISTANCE	344	42.1	48	55.8	44.6
Isoniazid (INH)	207	25.3	36	41.9	28.3
Rifampicin (RMP)	93	11.4	25	29.0	14.6
Ethambutol (EMB)	31	3.8	12	14.0	5.7
Streptomycin (SM)	279	34.1	36	41.9	35.5
MONORESISTANCE	177	21.6	13	15.1	20.4
Isoniazid (INH)	44	5.4	2	2.3	4.8
Rifampicin (RMP)	4	0.5	3	3.5	1.0
Ethambutol (EMB)	2	0.2	0	0.0	0.2
Streptomycin (SM)	127	15.5	8	9.3	14.4
MULTIDRUG RESISTANCE	85	10.4	21	24.4	13.0
INH+RMP	10	1.2	6	7.0	4.7
INH+RMP+EMB	2	0.2	0	0.0	0.2
INH+RMP+SM	54	6.6	6	7.0	6.7
INH+RMP+EMB+SM	19	2.3	9	10.5	3.8
OTHER PATTERNS	82	10.0	14	16.3	11.2
INH+EMB	2	0.2	1	1.2	0.4
INH+SM	71	8.7	11	12.8	9.4
INH+EMB+SM	5	0.6	1	1.2	0.7
RMP+EMB	1	0.1	0	0.0	0.1
RMP+SM	3	0.4	0	0.0	0.3
RMP+EMB+SM	0	0.0	1	1.2	0.2
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	474	57.9	38	44.2	55.4
resistant to 1 drug	177	21.6	13	15.1	20.4
resistant to 2 drugs	87	10.6	18	20.9	12.5
resistant to 3 drugs	61	7.4	8	9.3	7.8
resistant to 4 drugs	19	2.3	9	10.5	3.8

Colombia

Countrywide

1999-2000

	New		Previous	Combined
	N	%		
Total number of strains tested	1,087	100.0		
SUSCEPTIBLE TO ALL 4 DRUGS	918	84.5		
ANY RESISTANCE	169	15.5		
Isoniazid (INH)	103	9.5		
Rifampicin (RMP)	18	1.7		
Ethambutol (EMB)	9	0.8		
Streptomycin (SM)	125	11.5		
MONORESISTANCE	102	9.4		
Isoniazid (INH)	37	3.4		
Rifampicin (RMP)	1	0.1		
Ethambutol (EMB)	3	0.3		
Streptomycin (SM)	61	5.6		
MULTIDRUG RESISTANCE	16	1.5		
INH+RMP	1	0.1		
INH+RMP+EMB	2	0.2		
INH+RMP+SM	11	1.0		
INH+RMP+EMB+SM	2	0.2		
OTHER PATTERNS	51	4.7		
INH+EMB	0	0.0		
INH+SM	48	4.4		
INH+EMB+SM	2	0.2		
RMP+EMB	0	0.0		
RMP+SM	1	0.1		
RMP+EMB+SM	0	0.0		
EMB+SM	0	0.0		
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs	918	84.5		
resistant to 1 drug	102	9.4		
resistant to 2 drugs	50	4.6		
resistant to 3 drugs	15	1.4		
resistant to 4 drugs	2	0.2		

Croatia

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	780	100.0	99	100.0	879	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	766	98.2	93	93.9	859	98.0
ANY RESISTANCE	14	1.8	6	6.1	20	2.0
Isoniazid (INH)	8	1.0	4	4.0	12	1.4
Rifampicin (RMP)	1	0.1	3	3.0	4	0.5
Ethambutol (EMB)	0	0.0	1	1.0	1	0.1
Streptomycin (SM)	7	0.9	1	1.0	8	0.9
MONORESISTANCE	12	1.5	5	5.1	17	1.9
Isoniazid (INH)	6	0.8	3	3.0	9	1.0
Rifampicin (RMP)	0	0.0	2	2.0	2	0.2
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	6	0.8	1	1.0	6	0.7
MULTIDRUG RESISTANCE	1	0.1	1	1.0	2	0.2
INH+RMP	1	0.1	0	0.0	1	0.1
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	1	1.0	1	0.1
OTHER PATTERNS	1	0.1	0	0.0	1	0.1
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	1	0.1	0	0.0	1	0.1
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	766	98.2	93	93.9	859	98.0
resistant to 1 drug	12	1.5	5	5.1	17	1.9
resistant to 2 drugs	2	0.2	0	0.0	2	0.2
resistant to 3 drugs	0	0.0	0	0.0	0	0.0
resistant to 4 drugs	0	0.0	1	1.0	1	0.1

Cuba

Countrywide
2000

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	377	100.0	38	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	358	95.0	32	84.2	93.9
ANY RESISTANCE	19	5.0	6	15.8	6.1
Isoniazid (INH)	4	1.0	3	7.9	1.7
Rifampicin (RMP)	3	0.8	1	2.6	1.0
Ethambutol (EMB)	0	0.0	1	2.6	0.2
Streptomycin (SM)	17	4.5	6	15.8	5.5
MONORESISTANCE	14	3.7	3	7.9	4.1
Isoniazid (INH)	1	0.3	0	0.0	0.2
Rifampicin (RMP)	0	0.0	0	0.0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	13	3.5	3	7.9	3.9
MULTIDRUG RESISTANCE	1	0.3	1	2.6	0.5
INH+RMP	1	0.3	0	0.0	0.2
INH+RMP+EMB	0	0.0	0	0.0	0.0
INH+RMP+SM	0	0.0	0	0.0	0.0
INH+RMP+EMB+SM	0	0.0	1	2.6	0.2
OTHER PATTERNS	4	1.0	2	5.2	1.5
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	2	0.5	2	5.2	1.0
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	2	0.5	0	0.0	0.5
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	358	95.0	32	84.2	93.9
resistant to 1 drug	14	3.7	3	7.9	4.1
resistant to 2 drugs	5	1.3	2	5.2	1.7
resistant to 3 drugs	0	0.0	0	0.0	0.0
resistant to 4 drugs	0	0.0	1	2.6	0.2

Czech Republic

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	616	100.0	22	100.0	638	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	589	95.6	19	86.4	608	95.3
ANY RESISTANCE	27	4.4	3	13.6	30	4.7
Isoniazid (INH)	21	3.4	2	9.1	23	3.6
Rifampicin (RMP)	7	1.1	3	13.6	10	1.6
Ethambutol (EMB)	5	0.8	1	4.5	6	0.9
Streptomycin (SM)	12	1.9	1	4.5	13	2.0
MONORESISTANCE	16	2.6	1	4.5	17	2.7
Isoniazid (INH)	10	1.6	0	0.0	10	1.6
Rifampicin (RMP)	0	0.0	1	4.5	1	0.2
Ethambutol (EMB)	1	0.2	0	0.0	1	0.2
Streptomycin (SM)	5	0.8	0	0.0	5	0.8
MULTIDRUG RESISTANCE	7	1.1	2	9.1	9	1.4
INH+RMP	3	0.5	1	4.5	4	0.6
INH+RMP+EMB	1	0.2	0	0.0	1	0.2
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	3	0.5	1	4.5	4	0.6
OTHER PATTERNS	4	0.6	0	0.0	4	0.6
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	4	0.6	0	0.0	4	0.6
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	589	95.6	19	86.4	608	95.3
resistant to 1 drug	16	2.6	1	4.5	17	2.7
resistant to 2 drugs	7	1.1	1	4.5	8	1.3
resistant to 3 drugs	1	0.2	0	0.0	1	0.1
resistant to 4 drugs	3	0.5	1	4.5	4	0.6

Democratic Republic of Congo

Kinshasa

1999

	New	Previous	Combined	
			N	%
Total number of strains tested			710	100.0
SUSCEPTIBLE TO ALL 4 DRUGS			433	61.0
ANY RESISTANCE			277	39.0
Isoniazid (INH)			163	23.0
Rifampicin (RMP)			44	6.2
Ethambutol (EMB)			109	15.4
Streptomycin (SM)			200	28.2
MONORESISTANCE			131	18.4
Isoniazid (INH)			31	4.4
Rifampicin (RMP)			1	0.1
Ethambutol (EMB)			36	5.1
Streptomycin (SM)			63	8.9
MULTIDRUG RESISTANCE			41	5.8
INH+RMP			2	0.3
INH+RMP+EMB			4	0.6
INH+RMP+SM			5	0.7
INH+RMP+EMB+SM			30	4.2
OTHER PATTERNS			105	14.8
INH+EMB			3	0.4
INH+SM			66	9.3
INH+EMB+SM			22	3.1
RMP+EMB			0	0.0
RMP+SM			0	0.0
RMP+EMB+SM			2	0.3
EMB+SM			12	1.7
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs			433	61.0
resistant to 1 drug			131	18.4
resistant to 2 drugs			83	11.7
resistant to 3 drugs			33	4.6
resistant to 4 drugs			30	4.2

Denmark

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	392	100.0	33	100.0	425	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	345	88.0	24	72.7	369	86.8
ANY RESISTANCE	47	12.0	9	27.2	56	13.2
Isoniazid (INH)	29	7.4	8	24.2	37	8.7
Rifampicin (RMP)	2	0.5	1	3.0	3	0.7
Ethambutol (EMB)	3	0.8	1	3.0	4	0.0
Streptomycin (SM)	34	8.7	8	24.2	42	9.9
MONORESISTANCE	28	7.1	1	3.0	29	6.8
Isoniazid (INH)	11	2.8	0	0.0	11	2.6
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	17	4.3	1	3.0	18	4.2
MULTIDRUG RESISTANCE	1	0.3	1	3.0	2	0.4
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	1	3.0	1	0.2
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	1	0.3	0	0.0	1	0.2
OTHER PATTERNS	18	4.6	7	21.2	25	5.9
INH+EMB	1	0.3	0	0.0	1	0.2
INH+SM	16	4.1	7	21.2	23	5.4
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	1	0.3	0	0.0	1	0.2
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	345	88.0	24	72.7	369	86.8
resistant to 1 drug	28	7.1	1	3.0	29	6.8
resistant to 2 drugs	18	4.6	7	21.2	25	5.9
resistant to 3 drugs	0	0.0	1	3.0	1	0.2
resistant to 4 drugs	1	0.3	0	0.0	1	0.2

Ecuador

Countrywide

2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	812	100.0	185	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	649	80.0	104	56.2	77.1
ANY RESISTANCE	163	20.0	81	43.8	22.9
Isoniazid (INH)	89	11.0	56	30.3	13.2
Rifampicin (RMP)	59	7.3	62	33.5	10.3
Ethambutol (EMB)	10	1.2	10	5.4	1.7
Streptomycin (SM)	92	11.3	38	20.5	12.4
MONORESISTANCE	99	12.2	24	13.0	12.3
Isoniazid (INH)	29	3.6	5	2.7	3.5
Rifampicin (RMP)	15	1.8	11	5.9	2.3
Ethambutol (EMB)	2	0.2	0	0.0	0.2
Streptomycin (SM)	53	6.5	8	4.3	6.3
MULTIDRUG RESISTANCE	40	4.9	45	24.3	7.2
INH+RMP	20	2.5	23	12.4	3.6
INH+RMP+EMB	4	0.5	3	1.6	0.6
INH+RMP+SM	14	1.7	16	8.6	2.5
INH+RMP+EMB+SM	2	0.2	3	1.6	0.4
OTHER PATTERNS	24	3.0	12	6.5	3.4
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	20	2.5	3	1.6	2.4
INH+EMB+SM	0	0.0	3	1.6	0.2
RMP+EMB	1	0.1	1	0.5	0.2
RMP+SM	2	0.2	5	2.7	0.5
RMP+EMB+SM	1	0.1	0	0.0	0.1
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	649	80.0	104	56.2	77.1
resistant to 1 drug	99	12.2	24	12.9	12.3
resistant to 2 drugs	43	5.3	32	17.3	6.7
resistant to 3 drugs	19	2.3	22	11.9	3.5
resistant to 4 drugs	2	0.2	3	1.6	0.4

Egypt

Countrywide

2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	632	100.0	217	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	439	69.5	69	31.8	63.9
ANY RESISTANCE	193	30.5	148	68.2	36.1
Isoniazid (INH)	62	9.8	101	46.5	15.2
Rifampicin (RMP)	44	7.0	110	50.7	13.4
Ethambutol (EMB)	18	2.8	67	30.9	7.0
Streptomycin (SM)	149	23.6	117	53.9	28.1
MONORESISTANCE	137	21.7	40	18.4	21.2
Isoniazid (INH)	17	2.7	6	2.8	2.7
Rifampicin (RMP)	22	3.5	15	6.9	4.0
Ethambutol (EMB)	3	0.5	2	0.9	0.5
Streptomycin (SM)	95	15.0	17	7.8	14.0
MULTIDRUG RESISTANCE	14	2.2	83	38.4	7.5
INH+RMP	0	0.0	5	2.3	0.5
INH+RMP+EMB	0	0.0	2	0.9	0.1
INH+RMP+SM	5	0.8	21	9.7	2.1
INH+RMP+EMB+SM	9	1.4	55	25.3	5.0
OTHER PATTERNS	42	6.7	25	11.5	7.4
INH+EMB	2	0.3	1	0.5	0.3
INH+SM	28	4.4	7	3.2	4.3
INH+EMB+SM	1	0.2	4	1.8	0.4
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	8	1.3	10	4.6	1.8
RMP+EMB+SM	0	0.0	2	0.9	0.1
EMB+SM	3	0.5	1	0.5	0.5
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	439	69.5	69	31.8	63.9
resistant to 1 drug	137	21.7	40	18.4	21.2
resistant to 2 drugs	41	6.5	24	11.0	7.2
resistant to 3 drugs	6	0.9	29	13.4	2.8
resistant to 4 drugs	9	1.4	55	25.3	5.0

El Salvador

Countrywide

2001

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	611	100.0	100	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	576	94.3	78	78.0	93.0
ANY RESISTANCE	35	5.7	22	22.0	7.0
Isoniazid (INH)	8	1.3	12	12.0	2.1
Rifampicin (RMP)	7	1.1	13	13.0	2.1
Ethambutol (EMB)	2	0.3	3	3.0	0.5
Streptomycin (SM)	23	3.8	9	9.0	4.2
MONORESISTANCE	30	4.9	12	12.0	5.5
Isoniazid (INH)	3	0.5	3	3.0	0.7
Rifampicin (RMP)	5	0.8	5	5.0	1.1
Ethambutol (EMB)	2	0.3	1	1.0	0.4
Streptomycin (SM)	20	3.3	3	3.0	3.3
MULTIDRUG RESISTANCE	2	0.3	7	7.0	0.8
INH+RMP	2	0.3	3	3.0	6.3
INH+RMP+EMB	0	0.0	1	1.0	0.1
INH+RMP+SM	0	0.0	2	2.0	0.2
INH+RMP+EMB+SM	0	0.0	1	1.0	0.1
OTHER PATTERNS	3	0.5	3	3.0	0.7
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	3	0.5	2	2.0	0.6
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	1	1.0	0.1
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	576	94.3	78	78.0	93.0
resistant to 1 drug	30	4.9	12	12.0	5.5
resistant to 2 drugs	5	0.8	6	6.0	1.2
resistant to 3 drugs	0	0.0	3	3.0	0.2
resistant to 4 drugs	0	0.0	1	1.0	0.1

Estonia

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	410	100.0	117	100.0	527	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	293	71.5	49	41.9	342	64.9
ANY RESISTANCE	117	28.5	68	58.1	185	35.1
Isoniazid (INH)	94	22.9	64	54.7	158	30.0
Rifampicin (RMP)	50	12.2	53	45.3	103	19.5
Ethambutol (EMB)	54	13.2	49	41.9	103	19.5
Streptomycin (SM)	92	22.4	57	48.7	149	28.3
MONORESISTANCE	44	10.7	12	10.3	56	10.6
Isoniazid (INH)	21	5.1	8	6.8	29	5.5
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	23	5.6	4	3.4	27	5.1
MULTIDRUG RESISTANCE	50	12.2	53	45.3	103	19.5
INH+RMP	0	0.0	2	1.7	2	0.4
INH+RMP+EMB	3	0.7	1	0.9	4	0.8
INH+RMP+SM	2	0.5	2	1.7	4	0.8
INH+RMP+EMB+SM	45	11.0	48	41.0	93	17.6
OTHER PATTERNS	23	5.6	3	2.6	26	4.9
INH+EMB	1	0.2	0	0.0	1	0.2
INH+SM	17	4.1	3	2.6	20	3.8
INH+EMB+SM	5	1.2	0	0.0	5	0.9
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	293	71.5	49	41.9	342	64.9
resistant to 1 drug	44	10.7	12	10.3	56	10.6
resistant to 2 drugs	18	4.4	5	4.3	23	4.4
resistant to 3 drugs	10	2.4	3	2.6	13	2.5
resistant to 4 drugs	45	11.0	48	41.0	93	17.6

Finland

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	374	100.0	29	100.0	437	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	357	95.5	25	86.2	415	95.0
ANY RESISTANCE	17	4.5	4	13.8	22	5.0
Isoniazid (INH)	10	2.7	4	13.8	15	3.4
Rifampicin (RMP)	3	0.8	1	3.4	4	0.9
Ethambutol (EMB)	1	0.3	0	0.0	1	0.2
Streptomycin (SM)	9	2.4	0	0.0	9	2.1
MONORESISTANCE	12	3.2	3	10.3	16	3.7
Isoniazid (INH)	5	1.3	3	10.3	9	2.1
Rifampicin (RMP)	2	0.5	0	0.0	2	0.5
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	5	1.3	0	0.0	5	1.1
MULTIDRUG RESISTANCE	1	0.3	1	3.4	2	0.4
INH+RMP	0	0.0	1	3.4	1	0.2
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	1	0.3	0	0.0	1	0.2
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	4	1.1	0	0.0	4	0.9
INH+EMB	1	0.3	0	0.0	1	0.2
INH+SM	3	0.8	0	0.0	3	0.7
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0		0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	357	95.5	25	86.2	415	95.0
resistant to 1 drug	12	3.2	3	10.3	16	3.7
resistant to 2 drugs	4	1.1	1	3.4	5	1.1
resistant to 3 drugs	1	0.3	0	0.0	1	0.2
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

France

15 regions

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	947	100.0	82	100.0	1,191	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	859	90.7	59	72.0	1,061	89.1
ANY RESISTANCE	88	9.3	23	28.0	130	10.9
Isoniazid (INH)	24	2.5	15	18.3	45	3.8
Rifampicin (RMP)	8	0.8	9	11.0	18	1.5
Ethambutol (EMB)	20	2.1	2	2.4	23	1.9
Streptomycin (SM)	61	6.4	13	15.9	88	7.4
MONORESISTANCE	69	7.3	11	13.4	96	8.1
Isoniazid (INH)	5	0.5	4	4.9	12	1.0
Rifampicin (RMP)	0	0.0	1	1.2	2	0.2
Ethambutol (EMB)	8	0.8	1	1.2	10	0.8
Streptomycin (SM)	56	5.9	5	6.1	72	6.0
MULTIDRUG RESISTANCE	8	0.8	7	8.5	15	1.3
INH+RMP	4	0.4	3	3.7	7	0.6
INH+RMP+EMB	2	0.2	1	1.2	3	0.3
INH+RMP+SM	1	0.1	3	3.7	4	0.3
INH+RMP+EMB+SM	1	0.1	0	0.0	1	0.1
OTHER PATTERNS	11	1.2	5	6.1	19	1.6
INH+EMB	8	0.8	0	0.0	8	0.7
INH+SM	2	0.2	4	4.9	9	0.8
INH+EMB+SM	1	0.1	0	0.0	1	0.1
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	1	1.2	1	0.1
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	859	90.7	59	72.0	1,061	89.1
resistant to 1 drug	69	7.3	11	13.4	96	8.1
resistant to 2 drugs	14	1.5	8	9.8	25	2.1
resistant to 3 drugs	4	0.4	4	4.9	8	0.7
resistant to 4 drugs	1	0.1	0	0.0	1	0.1

The Gambia

Countrywide

1999-2000

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	210	100.0	15	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	201	95.7	15	100.0	95.9
ANY RESISTANCE	9	4.3	0	0.0	4.1
Isoniazid (INH)	5	2.4	0	0.0	2.3
Rifampicin (RMP)	2	0.9	0	0.0	0.9
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	3	1.4	0	0.0	1.4
MONORESISTANCE	8	3.8	0	0.0	3.7
Isoniazid (INH)	4	1.9	0	0.0	1.8
Rifampicin (RMP)	1	0.5	0	0.0	0.5
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	3	1.4	0	0.0	1.4
MULTIDRUG RESISTANCE	1	0.5	0	0.0	0.5
INH+RMP	1	0.5	0	0.0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0.0
INH+RMP+SM	0	0.0	0	0.0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0.0
OTHER PATTERNS	0	0.0	0	0.0	0.0
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	0	0.0	0	0.0	0.0
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	201	95.7	15	100.0	95.9
resistant to 1 drug	8	3.8	0	0.0	3.7
resistant to 2 drugs	1	0.5	0	0.0	0.5
resistant to 3 drugs	0	0.0	0	0.0	0.0
resistant to 4 drugs	0	0.0	0	0.0	0.0

Germany

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	1,743	100.0	257	100.0	2,780	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	1,628	93.4	206	80.2	2,540	91.4
ANY RESISTANCE	115	6.6	51	19.8	240	8.6
Isoniazid (INH)	67	3.8	44	17.1	166	6.0
Rifampicin (RMP)	17	1.0	21	8.2	54	1.9
Ethambutol (EMB)	17	1.0	14	5.4	43	1.5
Streptomycin (SM)	72	4.1	35	13.6	151	5.4
MONORESISTANCE	76	4.4	17	6.6	134	4.8
Isoniazid (INH)	29	1.7	11	4.3	62	2.2
Rifampicin (RMP)	3	0.2	1	0.4	6	0.2
Ethambutol (EMB)	5	0.3	0	0.0	6	0.2
Streptomycin (SM)	39	2.2	5	1.9	60	2.2
MULTIDRUG RESISTANCE	14	0.8	19	7.4	47	1.7
INH+RMP	4	0.2	3	1.2	11	0.4
INH+RMP+EMB	2	0.1	1	0.4	4	0.1
INH+RMP+SM	4	0.2	5	1.9	14	0.5
INH+RMP+EMB+SM	4	0.2	10	3.9	18	0.6
OTHER PATTERNS	25	1.4	15	5.8	59	2.1
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	19	1.1	11	4.3	43	1.5
INH+EMB+SM	5	0.3	3	1.2	14	0.5
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	1	0.4	1	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	1	0.1	0	0.0	1	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	1,628	93.4	206	80.2	2,540	91.4
resistant to 1 drug	76	4.4	17	6.6	134	4.8
resistant to 2 drugs	24	1.4	15	5.8	56	2.0
resistant to 3 drugs	11	0.6	9	3.1	32	1.2
resistant to 4 drugs	4	0.2	10	3.9	18	0.6

Honduras

Countrywide

2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	169	100.0	29	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	140	82.8	17	58.6	82.0
ANY RESISTANCE	29	17.2	12	41.4	18.0
Isoniazid (INH)	11	6.5	5	17.2	6.9
Rifampicin (RMP)	4	2.4	5	17.2	2.9
Ethambutol (EMB)	2	1.2	1	3.4	1.3
Streptomycin (SM)	25	14.8	8	27.6	15.2
MONORESISTANCE	19	11.2	8	27.6	11.8
Isoniazid (INH)	2	1.2	2	6.9	1.4
Rifampicin (RMP)	0	0.0	2	6.9	0.2
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	17	10.1	4	13.8	10.2
MULTIDRUG RESISTANCE	3	1.8	2	6.9	2.0
INH+RMP	1	0.6	0	0.0	3.3
INH+RMP+EMB	0	0.0	0	0.0	0.0
INH+RMP+SM	1	0.6	1	3.4	0.7
INH+RMP+EMB+SM	1	0.6	1	3.4	0.7
OTHER PATTERNS	7	4.1	2	6.9	4.2
INH+EMB	1	0.6	0	0.0	0.6
INH+SM	5	3.0	1	3.4	3.0
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	1	0.6	1	3.4	0.7
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	140	82.8	17	58.6	82.0
resistant to 1 drug	19	11.2	8	27.6	11.8
resistant to 2 drugs	8	4.7	2	6.9	4.8
resistant to 3 drugs	1	0.6	1	3.4	0.7
resistant to 4 drugs	1	0.6	1	3.4	0.7

Iceland

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	8	100.0	1	100.0	9	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	8	100.0	1	100.0	9	100.0
ANY RESISTANCE	0	0.0	0	0.0	0	0.0
Isoniazid (INH)	0	0.0	0	0.0	0	0.0
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	0	0.0	0	0.0	0	0.0
MONORESISTANCE	0	0.0	0	0.0	0	0.0
Isoniazid (INH)	0	0.0	0	0.0	0	0.0
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	0	0.0	0	0.0	0	0.0
MULTIDRUG RESISTANCE	0	0.0	0	0.0	0	0.0
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	0	0.0	0	0.0	0	0.0
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	0	0.0	0	0.0	0	0.0
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	8	100.0	1	100.0	9	100.0
resistant to 1 drug	0	0.0	0	0.0	0	0.0
resistant to 2 drugs	0	0.0	0	0.0	0	0.0
resistant to 3 drugs	0	0.0	0	0.0	0	0.0
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

India

Wardha District, Maharashtra State

2000-2001

	New		Previous	Combined
	N	%		
Total number of strains tested	197	100.0		
SUSCEPTIBLE TO ALL 4 DRUGS	158	80.2		
ANY RESISTANCE	39	19.8		
Isoniazid (INH)	30	15.2		
Rifampicin (RMP)	1	0.5		
Ethambutol (EMB)	2	1.0		
Streptomycin (SM)	15	7.6		
MONORESISTANCE	30	15.3		
Isoniazid (INH)	21	10.7		
Rifampicin (RMP)	0	0.0		
Ethambutol (EMB)	0	0.0		
Streptomycin (SM)	9	4.6		
MULTIDRUG RESISTANCE	1	0.5		
INH+RMP	1	0.5		
INH+RMP+EMB	0	0.0		
INH+RMP+SM	0	0.0		
INH+RMP+EMB+SM	0	0.0		
OTHER PATTERNS	8	4.0		
INH+EMB	2	1.0		
INH+SM	6	3.0		
INH+EMB+SM	0	0.0		
RMP+EMB	0	0.0		
RMP+SM	0	0.0		
RMP+EMB+SM	0	0.0		
EMB+SM	0	0.0		
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs	158	80.2		
resistant to 1 drug	30	15.3		
resistant to 2 drugs	9	4.5		
resistant to 3 drugs	0	0.0		
resistant to 4 drugs	0	0.0		

India

Raichur District, Karnataka State

1999

	New		Previous	Combined
	N	%		
Total number of strains tested	278	100.0		
SUSCEPTIBLE TO ALL 4 DRUGS	217	78.1		
ANY RESISTANCE	61	21.9		
Isoniazid (INH)	52	18.7		
Rifampicin (RMP)	7	2.5		
Ethambutol (EMB)	9	3.2		
Streptomycin (SM)	20	7.2		
MONORESISTANCE	43	15.5		
Isoniazid (INH)	34	12.3		
Rifampicin (RMP)	0	0.0		
Ethambutol (EMB)	0	0.0		
Streptomycin (SM)	9	3.2		
MULTIDRUG RESISTANCE	7	2.5		
INH+RMP	2	0.7		
INH+RMP+EMB	2	0.7		
INH+RMP+SM	1	0.4		
INH+RMP+EMB+SM	2	0.7		
OTHER PATTERNS	11	4.0		
INH+EMB	3	1.1		
INH+SM	6	2.2		
INH+EMB+SM	2	0.7		
RMP+EMB	0	0.0		
RMP+SM	0	0.0		
RMP+EMB+SM	0	0.0		
EMB+SM	0	0.0		
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs	217	78.1		
resistant to 1 drug	43	15.5		
resistant to 2 drugs	11	4.0		
resistant to 3 drugs	5	1.8		
resistant to 4 drugs	2	0.7		

India

North Arcot District, Tamil Nadu State

1999

	New		Previous	Combined
	N	%		
Total number of strains tested	282	100.0		
SUSCEPTIBLE TO ALL 4 DRUGS	204	72.3		
ANY RESISTANCE	78	27.7		
Isoniazid (INH)	66	23.4		
Rifampicin (RMP)	8	2.8		
Ethambutol (EMB)	13	4.6		
Streptomycin (SM)	35	12.4		
MONORESISTANCE	47	16.7		
Isoniazid (INH)	36	12.8		
Rifampicin (RMP)	0	0.0		
Ethambutol (EMB)	1	0.4		
Streptomycin (SM)	10	3.5		
MULTIDRUG RESISTANCE	8	2.8		
INH+RMP	0	0.0		
INH+RMP+EMB	2	0.7		
INH+RMP+SM	4	1.4		
INH+RMP+EMB+SM	2	0.7		
OTHER PATTERNS	23	7.8		
INH+EMB	4	1.4		
INH+SM	15	5.3		
INH+EMB+SM	3	1.1		
RMP+EMB	0	0.0		
RMP+SM	0	0.0		
RMP+EMB+SM	0	0.0		
EMB+SM	1	0.4		
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs	204	72.3		
resistant to 1 drug	47	16.7		
resistant to 2 drugs	20	6.7		
resistant to 3 drugs	9	2.1		
resistant to 4 drugs	2	0.7		

Ireland

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	138	100.0	26	100.0	225	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	134	97.1	24	92.3	218	96.8
ANY RESISTANCE	4	2.9	2	7.7	7	3.1
Isoniazid (INH)	4	2.9	1	3.8	6	2.7
Rifampicin (RMP)	1	0.7	1	3.8	3	1.3
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	0	0.0	1	3.8	1	0.4
MONORESISTANCE	3	2.2	1	3.8	4	1.7
Isoniazid (INH)	3	2.2	0	0.0	3	1.3
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	0	0.0	1	3.8	1	0.4
MULTIDRUG RESISTANCE	1	0.7	1	3.8	3	1.3
INH+RMP	1	0.7	1	3.8	3	1.3
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	0	0.0	0	0.0	0	0.0
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	0	0.0	0	0.0	0	0.0
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	134	97.1	24	92.3	218	96.8
resistant to 1 drug	3	2.2	1	3.8	4	1.7
resistant to 2 drugs	1	0.7	1	3.8	3	1.3
resistant to 3 drugs	0	0.0	0	0.0	0	0.0
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

Israel

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	253	100.0	24	100.0	281	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	174	68.8	14	58.3	191	68.0
ANY RESISTANCE	79	31.2	10	41.7	90	32.0
Isoniazid (INH)	65	25.7	9	37.5	74	26.3
Rifampicin (RMP)	37	14.6	5	20.8	42	14.9
Ethambutol (EMB)	25	9.9	2	8.3	28	10.0
Streptomycin (SM)	56	22.1	7	8.3	63	22.4
MONORESISTANCE	30	11.9	4	16.7	35	12.5
Isoniazid (INH)	16	6.3	3	12.5	19	6.8
Rifampicin (RMP)	1	0.4	0	0.0	1	0.4
Ethambutol (EMB)	3	1.2	0	0.0	4	1.4
Streptomycin (SM)	10	4.0	1	4.2	11	3.9
MULTIDRUG RESISTANCE	36	14.2	5	20.8	41	14.6
INH+RMP	3	1.2	0	0.0	3	1.1
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	15	5.9	3	12.5	18	6.4
INH+RMP+EMB+SM	18	7.1	2	8.3	20	7.1
OTHER PATTERNS	13	5.1	1	4.2	14	5.0
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	9	3.6	1	4.2	10	3.6
INH+EMB+SM	4	1.6	0	0.0	4	1.4
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	174	68.8	14	58.3	191	68.0
resistant to 1 drug	30	11.9	4	16.7	35	12.5
resistant to 2 drugs	12	4.7	1	4.2	13	4.6
resistant to 3 drugs	19	7.5	3	12.5	22	7.8
resistant to 4 drugs	18	7.1	2	8.3	20	7.1

Italy

10 regions

2000

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	688	100.0	108	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	610	88.7	57	52.8	85.3
ANY RESISTANCE	78	11.3	51	47.2	14.7
Isoniazid (INH)	44	6.4	39	36.1	9.2
Rifampicin (RMP)	11	1.6	32	29.6	4.3
Ethambutol (EMB)	10	1.5	12	11.1	2.4
Streptomycin (SM)	54	7.8	25	23.1	9.3
MONORESISTANCE	48	7.0	18	16.7	7.9
Isoniazid (INH)	14	2.0	6	5.6	2.4
Rifampicin (RMP)	3	0.4	6	5.6	0.9
Ethambutol (EMB)	4	0.6	1	0.9	0.6
Streptomycin (SM)	27	3.9	5	4.6	4.0
MULTIDRUG RESISTANCE	8	1.2	26	24.1	3.3
INH+RMP	2	0.3	9	8.3	4.0
INH+RMP+EMB	0	0.0	3	2.8	0.3
INH+RMP+SM	2	0.3	7	6.5	0.9
INH+RMP+EMB+SM	4	0.6	7	6.5	1.1
OTHER PATTERNS	22	3.2	7	6.5	3.5
INH+EMB	1	0.1	1	0.9	0.2
INH+SM	20	2.9	6	5.6	3.2
INH+EMB+SM	1	0.1	0	0.0	0.1
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	610	88.7	57	52.8	85.3
resistant to 1 drug	48	7.0	18	16.7	7.9
resistant to 2 drugs	23	3.3	16	14.8	4.4
resistant to 3 drugs	3	0.4	10	9.3	1.3
resistant to 4 drugs	4	0.6	7	6.5	1.1

Japan

Countrywide

1997

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	1,374	100.0	264	100.0	1,638	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	1,233	89.7	152	57.6	1,385	84.6
ANY RESISTANCE	141	10.3	112	42.4	253	15.4
Isoniazid (INH)	61	4.4	87	33.0	148	9.0
Rifampicin (RMP)	19	1.4	57	21.6	76	4.6
Ethambutol (EMB)	6	0.4	40	15.2	46	2.8
Streptomycin (SM)	103	7.5	64	24.2	167	10.2
MONORESISTANCE	104	7.6	40	15.2	144	8.8
Isoniazid (INH)	28	2.0	18	6.8	46	2.8
Rifampicin (RMP)	3	0.2	2	0.8	5	0.3
Ethambutol (EMB)	1	0.1	0	0.0	1	0.1
Streptomycin (SM)	72	5.2	20	7.6	92	5.6
MULTIDRUG RESISTANCE	12	0.9	52	19.7	64	3.9
INH+RMP	5	0.4	13	4.9	18	1.1
INH+RMP+EMB	0	0.0	13	4.9	13	0.8
INH+RMP+SM	4	0.3	7	2.7	11	0.7
INH+RMP+EMB+SM	3	0.2	19	7.2	22	1.3
OTHER PATTERNS	25	1.8	20	7.6	45	2.7
INH+EMB	1	0.1	1	0.4	2	0.1
INH+SM	20	1.5	11	4.2	31	1.9
INH+EMB+SM	0	0.0	5	1.9	5	0.3
RMP+EMB	0	0.0	1	0.4	1	0.1
RMP+SM	3	0.2	1	0.4	4	0.2
RMP+EMB+SM	1	0.1	1	0.4	2	0.1
EMB+SM	0	0.1	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	1,233	89.7	152	57.6	1,385	84.6
resistant to 1 drug	104	7.6	40	15.2	144	8.8
resistant to 2 drugs	29	2.1	27	10.2	56	3.4
resistant to 3 drugs	5	0.4	26	9.8	31	1.9
resistant to 4 drugs	3	0.2	19	7.2	22	1.3

Kazakhstan

Countrywide

2001

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	359	100.0	319	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	154	42.9	57	17.9	36.7
ANY RESISTANCE	205	57.1	262	82.1	63.3
Isoniazid (INH)	153	42.6	216	67.7	48.8
Rifampicin (RMP)	56	15.6	196	61.4	27.0
Ethambutol (EMB)	89	24.8	173	54.2	32.1
Streptomycin (SM)	185	51.5	246	77.1	57.9
MONORESISTANCE	50	13.9	26	8.2	12.5
Isoniazid (INH)	11	3.1	3	0.9	2.5
Rifampicin (RMP)	1	0.3	1	0.3	0.3
Ethambutol (EMB)	3	0.8	4	1.3	0.9
Streptomycin (SM)	35	9.7	18	5.6	8.7
MULTIDRUG RESISTANCE	51	14.2	180	56.4	24.7
INH+RMP	2	0.6	6	1.9	1.3
INH+RMP+EMB	0	0.0	1	0.3	0.1
INH+RMP+SM	17	4.7	39	12.2	6.6
INH+RMP+EMB+SM	32	8.9	134	42.0	17.1
OTHER PATTERNS	104	29.0	56	17.6	26.1
INH+EMB	2	0.6	0	0.0	0.4
INH+SM	50	13.9	18	5.6	11.9
INH+EMB+SM	39	10.9	15	4.7	9.3
RMP+EMB	1	0.3	1	0.3	0.3
RMP+SM	0	0.0	4	1.3	0.3
RMP+EMB+SM	3	0.8	10	3.1	1.4
EMB+SM	9	2.5	8	2.5	2.5
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	154	42.9	57	17.9	36.7
resistant to 1 drug	50	13.9	26	8.2	12.5
resistant to 2 drugs	64	17.8	37	11.6	16.3
resistant to 3 drugs	59	16.4	65	20.4	17.4
resistant to 4 drugs	32	8.9	134	42.0	17.1

Latvia

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	897	100.0	247	100.0	1,144	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	613	68.3	153	61.9	766	67.0
ANY RESISTANCE	284	31.7	94	38.1	378	33.0
Isoniazid (INH)	260	29.0	87	35.2	347	30.3
Rifampicin (RMP)	83	9.3	67	27.1	150	13.1
Ethambutol (EMB)	56	6.2	37	15.0	93	8.1
Streptomycin (SM)	219	24.4	81	32.8	300	26.2
MONORESISTANCE	83	9.3	16	6.5	99	8.7
Isoniazid (INH)	59	6.6	9	3.6	68	5.9
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	2	0.2	0	0.0	2	0.2
Streptomycin (SM)	22	2.5	7	2.8	29	2.5
MULTIDRUG RESISTANCE	83	9.3	67	27.1	150	13.1
INH+RMP	3	0.3	3	1.2	6	0.5
INH+RMP+EMB	1	0.1	0	0.0	1	0.1
INH+RMP+SM	38	4.2	28	11.3	66	5.8
INH+RMP+EMB+SM	41	4.6	36	14.6	77	6.7
OTHER PATTERNS	118	13.2	11	4.5	129	11.3
INH+EMB	0	0.0	1	0.4	1	0.1
INH+SM	106	11.8	10	4.0	116	10.1
INH+EMB+SM	12	1.3	0	0.0	12	1.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	613	68.3	153	61.9	766	67.0
resistant to 1 drug	83	9.3	16	6.5	99	8.7
resistant to 2 drugs	109	12.2	14	5.7	123	10.8
resistant to 3 drugs	51	5.7	28	11.3	79	7.8
resistant to 4 drugs	41	4.6	36	14.6	77	6.7

Lithuania

Countrywide

2002

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	819	100.0	321	100.0	1,140	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	580	70.8	103	32.1	683	59.9
ANY RESISTANCE	239	29.2	218	67.9	457	40.1
Isoniazid (INH)	208	25.4	210	65.4	418	36.7
Rifampicin (RMP)	80	9.8	171	53.3	251	22.0
Ethambutol (EMB)	60	7.3	122	38.0	182	16.0
Streptomycin (SM)	178	21.7	188	58.6	366	32.1
MONORESISTANCE	85	10.4	28	8.7	113	9.9
Isoniazid (INH)	54	6.6	20	6.2	74	6.5
Rifampicin (RMP)	3	0.4	0	0.0	3	0.3
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	28	3.4	8	2.5	36	3.1
MULTIDRUG RESISTANCE	77	9.4	171	53.3	248	21.8
INH+RMP	2	0.2	7	2.2	9	0.8
INH+RMP+EMB	1	0.1	2	0.6	3	0.3
INH+RMP+SM	28	3.4	47	14.6	75	6.6
INH+RMP+EMB+SM	46	5.6	115	35.8	161	14.1
OTHER PATTERNS	77	9.4	19	2.3	96	8.4
INH+EMB	1	0.1	1	0.3	2	0.2
INH+SM	64	7.8	14	4.4	78	6.8
INH+EMB+SM	12	1.5	4	1.2	16	1.4
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	580	70.8	103	32.1	683	59.9
resistant to 1 drug	85	10.4	28	8.7	113	9.9
resistant to 2 drugs	67	8.2	22	6.9	89	7.8
resistant to 3 drugs	41	5.0	53	16.5	94	8.2
resistant to 4 drugs	46	5.6	115	35.8	161	14.1

Luxembourg

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	39	100.0	5	100.0	44	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	36	92.3	5	100.0	41	93.2
ANY RESISTANCE	3	7.7	0	0.0	3	6.8
Isoniazid (INH)	2	5.1	0	0.0	2	4.5
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	1	2.6	0	0.0	1	2.3
MONORESISTANCE	3	7.7	0	0.0	3	6.8
Isoniazid (INH)	2	5.1	0	0.0	2	4.5
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	1	2.6	0	0.0	1	2.3
MULTIDRUG RESISTANCE	0	0.0	0	0.0	0	0.0
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	0	0.0	0	0.0	0	0.0
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	0	0.0	0	0.0	0	0.0
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	36	92.3	5	100.0	41	93.2
resistant to 1 drug	3	7.7	0	0.0	3	6.8
resistant to 2 drugs	0	0.0	0	0.0	0	0.0
resistant to 3 drugs	0	0.0	0	0.0	0	0.0
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

Malta

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	9	100.0	1	100.0	10	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	9	100.0	1	100.0	10	100.0
ANY RESISTANCE	0	0.0	0	0.0	0	0.0
Isoniazid (INH)	0	0.0	0	0.0	0	0.0
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	0	0.0	0	0.0	0	0.0
MONORESISTANCE	0	0.0	0	0.0	0	0.0
Isoniazid (INH)	0	0.0	0	0.0	0	0.0
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	0	0.0	0	0.0	0	0.0
MULTIDRUG RESISTANCE	0	0.0	0	0.0	0	0.0
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	0	0.0	0	0.0	0	0.0
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	0	0.0	0	0.0	0	0.0
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	9	100.0	1	100.0	10	100.0
resistant to 1 drug	0	0.0	0	0.0	0	0.0
resistant to 2 drugs	0	0.0	0	0.0	0	0.0
resistant to 3 drugs	0	0.0	0	0.0	0	0.0
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

Mongolia

Countrywide

1999

	New		Previous	Combined
	N	%		
Total number of strains tested	405	100.0		
SUSCEPTIBLE TO ALL 4 DRUGS	286	70.6		
ANY RESISTANCE	119	29.4		
Isoniazid (INH)	62	15.3		
Rifampicin (RMP)	5	1.2		
Ethambutol (EMB)	7	1.7		
Streptomycin (SM)	98	24.2		
MONORESISTANCE	74	18.3		
Isoniazid (INH)	18	4.4		
Rifampicin (RMP)	1	0.2		
Ethambutol (EMB)	0	0.0		
Streptomycin (SM)	55	13.6		
MULTIDRUG RESISTANCE	4	1.0		
INH+RMP	1	0.2		
INH+RMP+EMB	0	0.0		
INH+RMP+SM	1	0.2		
INH+RMP+EMB+SM	2	0.5		
OTHER PATTERNS	41	10.1		
INH+EMB	1	0.2		
INH+SM	36	8.9		
INH+EMB+SM	3	0.7		
RMP+EMB	0	0.0		
RMP+SM	0	0.0		
RMP+EMB+SM	0	0.0		
EMB+SM	1	0.2		
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs	286	70.6		
resistant to 1 drug	74	18.3		
resistant to 2 drugs	39	9.6		
resistant to 3 drugs	4	1.0		
resistant to 4 drugs	2	0.5		

Nepal

Countrywide

2001

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	755	100.0	171	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	672	89.0	101	59.1	84.3
ANY RESISTANCE	83	11.0	70	40.9	15.7
Isoniazid (INH)	41	5.4	57	33.3	9.8
Rifampicin (RMP)	13	1.7	35	20.5	4.7
Ethambutol (EMB)	7	0.9	17	9.9	2.3
Streptomycin (SM)	67	8.9	53	31.0	12.4
MONORESISTANCE	53	7.0	22	13.0	7.9
Isoniazid (INH)	12	1.6	9	5.0	2.2
Rifampicin (RMP)	2	0.3	0	0.0	0.2
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	39	5.2	13	8.0	5.5
MULTIDRUG RESISTANCE	10	1.3	35	20.5	4.3
INH+RMP	1	0.1	7	4.1	2.6
INH+RMP+EMB	0	0.0	1	0.6	0.1
INH+RMP+SM	3	0.4	11	6.4	1.3
INH+RMP+EMB+SM	6	0.8	16	9.4	2.1
OTHER PATTERNS	20	2.6	13	7.6	3.4
INH+EMB	1	0.1	0	0.0	0.1
INH+SM	18	2.4	13	7.6	3.2
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	1	0.1	0	0.0	0.1
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	672	89.0	101	59.1	84.3
resistant to 1 drug	53	7.0	22	12.9	7.9
resistant to 2 drugs	21	2.8	20	11.7	4.2
resistant to 3 drugs	3	0.4	12	7.0	1.4
resistant to 4 drugs	6	0.8	16	9.4	2.1

Netherlands

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	768	100.0	95	100.0	863	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	686	89.3	87	91.6	773	89.6
ANY RESISTANCE	82	10.7	8	8.4	90	10.4
Isoniazid (INH)	43	5.6	8	8.4	51	5.9
Rifampicin (RMP)	7	0.9	1	1.1	8	0.9
Ethambutol (EMB)	5	0.7	2	2.1	7	0.8
Streptomycin (SM)	53	6.9	4	4.2	57	6.6
MONORESISTANCE	60	7.8	4	4.2	64	7.4
Isoniazid (INH)	21	2.7	4	4.2	25	2.9
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	1	0.1	0	0.0	1	0.1
Streptomycin (SM)	38	4.9	0	0.0	38	4.4
MULTIDRUG RESISTANCE	7	0.9	1	1.1	8	0.9
INH+RMP	5	0.7	0	0.0	5	0.6
INH+RMP+EMB	1	0.1	0	0.0	1	0.1
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	1	0.1	1	1.1	2	0.2
OTHER PATTERNS	15	2.0	3	3.2	18	2.1
INH+EMB	1	0.1	0	0.0	1	0.1
INH+SM	13	1.7	2	2.1	15	1.7
INH+EMB+SM	1	0.1	1	1.1	2	0.2
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	686	89.3	87	91.6	773	89.6
resistant to 1 drug	60	7.8	4	4.2	64	7.4
resistant to 2 drugs	19	2.5	2	2.1	21	2.4
resistant to 3 drugs	2	0.2	1	1.0	3	0.3
resistant to 4 drugs	1	0.1	1	1.0	2	0.2

New Zealand

Countrywide

2001

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	272	100.0	22	100.0	294	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	241	88.6	20	90.9	261	88.8
ANY RESISTANCE	31	11.4	2	9.1	33	11.2
Isoniazid (INH)	17	6.3	1	4.6	18	6.1
Rifampicin (RMP)	1	0.4	0	0.0	1	0.3
Ethambutol (EMB)	2	0.7	0	0.0	2	0.7
Streptomycin (SM)	17	6.3	2	9.1	19	6.5
MONORESISTANCE	25	9.2	1	4.6	26	8.8
Isoniazid (INH)	12	4.4	0	0.0	12	4.1
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	1	0.4	0	0.0	1	0.3
Streptomycin (SM)	12	4.4	1	4.6	13	4.4
MULTIDRUG RESISTANCE	0	0.0	0	0.0	0	0.0
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	6	2.2	1	4.6	7	2.4
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	5	1.8	1	4.6	6	2.0
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	1	0.4	0	0.0	1	0.3
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	241	88.6	20	90.9	261	88.8
resistant to 1 drug	25	9.2	1	4.6	26	8.8
resistant to 2 drugs	6	2.2	1	4.6	7	2.4
resistant to 3 drugs	0	0.0	0	0.0	0	0.0
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

Norway

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	160	100.0	10	100.0	170	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	122	76.2	9	90.0	131	77.0
ANY RESISTANCE	38	23.8	1	10.0	39	23.0
Isoniazid (INH)	21	13.1	0	0.0	21	12.4
Rifampicin (RMP)	4	2.5	0	0.0	4	2.4
Ethambutol (EMB)	11	6.9	0	0.0	11	6.5
Streptomycin (SM)	18	11.3	1	10.0	19	11.2
MONORESISTANCE	24	15.0	1	10.0	25	14.7
Isoniazid (INH)	7	4.4	0	0.0	7	4.1
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	8	5.0	0	0.0	8	4.7
Streptomycin (SM)	9	5.6	1	10.0	10	5.9
MULTIDRUG RESISTANCE	3	1.9	0	0.0	3	1.8
INH+RMP	3	1.9	0	0.0	3	1.8
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	11	6.8	0	0.0	11	6.5
INH+EMB	3	1.9	0	0.0	3	1.8
INH+SM	8	5.0	0	0.0	8	4.7
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	122	76.2	9	90.0	131	77.0
resistant to 1 drug	24	15.0	1	10.0	25	14.7
resistant to 2 drugs	14	9.3	0	0.0	14	8.8
resistant to 3 drugs	0	0.0	0	0.0	0	0.0
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

Oman

Countrywide

2001

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	171	100.0	12	100.0	183	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	162	94.7	5	41.7	167	91.3
ANY RESISTANCE	9	5.3	7	58.3	16	8.7
Isoniazid (INH)	7	4.1	7	58.3	14	8.0
Rifampicin (RMP)	1	0.6	7	58.3	8	4.4
Ethambutol (EMB)	0	0.0	3	25.0	3	1.6
Streptomycin (SM)	2	1.2	7	58.3	9	4.9
MONORESISTANCE	8	4.7	0	0.0	8	4.4
Isoniazid (INH)	6	3.5	0	0.0	6	3.3
Rifampicin (RMP)	1	0.6	0	0.0	1	0.5
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	1	0.6	0	0.0	1	0.5
MULTIDRUG RESISTANCE	0	0.0	7	58.3	7	4.0
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	4	33.0	4	2.2
INH+RMP+EMB+SM	0	0.0	3	25.0	3	2.0
OTHER PATTERNS	1	0.6	0	0.0	1	0.5
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	1	0.6	0	0.0	1	0.5
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	162	94.7	5	41.7	167	91.3
resistant to 1 drug	8	4.7	0	0.0	8	4.4
resistant to 2 drugs	1	0.6	0	0.0	1	0.5
resistant to 3 drugs	0	0.0	4	33.3	4	2.2
resistant to 4 drugs	0	0.0	3	25.0	3	1.6

Poland

Countrywide

2001

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	3,037	100.0	668	100.0	3,705	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	2,851	93.9	557	83.4	3,408	92.0
ANY RESISTANCE	186	6.1	111	16.6	297	8.0
Isoniazid (INH)	125	4.1	96	14.4	221	6.0
Rifampicin (RMP)	44	1.4	60	9.0	104	2.8
Ethambutol (EMB)	19	0.6	22	3.3	41	1.1
Streptomycin (SM)	103	3.4	67	10.0	170	4.6
MONORESISTANCE	121	4.0	38	5.7	159	4.3
Isoniazid (INH)	62	2.0	23	3.4	85	2.3
Rifampicin (RMP)	8	0.3	3	0.4	11	0.3
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	51	1.7	12	1.8	63	1.7
MULTIDRUG RESISTANCE	35	1.2	57	8.5	92	2.5
INH+RMP	11	0.4	11	1.6	22	0.6
INH+RMP+EMB	2	0.1	7	1.0	9	0.2
INH+RMP+SM	7	0.2	25	3.7	32	0.9
INH+RMP+EMB+SM	15	0.5	14	2.1	29	0.8
OTHER PATTERNS	30	1.0	16	2.4	46	1.2
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	27	0.9	15	2.2	42	1.1
INH+EMB+SM	1	0.1	1	0.1	2	0.1
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	1	0.1	0	0.0	1	0.1
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	1	0.1	0	0.0	1	0.1
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	2,851	93.9	557	83.4	3,408	92.0
resistant to 1 drug	121	4.0	38	5.7	159	4.3
resistant to 2 drugs	40	0.1	26	0.4	66	1.8
resistant to 3 drugs	10	0.1	33	0.5	43	1.7
resistant to 4 drugs	15	0.1	14	0.2	29	0.7

Puerto Rico

Countrywide

2001

	New		Previous	Combined
	N	%		
Total number of strains tested	100	100.0		
SUSCEPTIBLE TO ALL 4 DRUGS	88	88.0		
ANY RESISTANCE	12	12.0		
Isoniazid (INH)	8	8.0		
Rifampicin (RMP)	3	3.0		
Ethambutol (EMB)	1	1.0		
Streptomycin (SM)	8	8.0		
MONORESISTANCE	6	6.0		
Isoniazid (INH)	3	3.0		
Rifampicin (RMP)	0	0.0		
Ethambutol (EMB)	0	0.0		
Streptomycin (SM)	3	3.0		
MULTIDRUG RESISTANCE	2	2.0		
INH+RMP	1	1.0		
INH+RMP+EMB	0	0.0		
INH+RMP+SM	0	0.0		
INH+RMP+EMB+SM	1	1.0		
OTHER PATTERNS	4	4.0		
INH+EMB	0	0.0		
INH+SM	3	3.0		
INH+EMB+SM	0	0.0		
RMP+EMB	0	0.0		
RMP+SM	1	1.0		
RMP+EMB+SM	0	0.0		
EMB+SM	0	0.0		
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs	88	88.0		
resistant to 1 drug	6	6.0		
resistant to 2 drugs	5	5.0		
resistant to 3 drugs	0	0.0		
resistant to 4 drugs	1	1.0		

Qatar

Countrywide

2001

	New		Previous	Combined
	N	%		
Total number of strains tested	284	100.0		
SUSCEPTIBLE TO ALL 4 DRUGS	256	90.0		
ANY RESISTANCE	28	9.9		
Isoniazid (INH)	19	6.7		
Rifampicin (RMP)	3	1.1		
Ethambutol (EMB)	5	1.8		
Streptomycin (SM)	9	3.2		
MONORESISTANCE	20	7.0		
Isoniazid (INH)	12	4.2		
Rifampicin (RMP)	1	0.4		
Ethambutol (EMB)	2	0.7		
Streptomycin (SM)	5	1.8		
MULTIDRUG RESISTANCE	1	0.4		
INH+RMP	1	0.4		
INH+RMP+EMB	0	0.0		
INH+RMP+SM	0	0.0		
INH+RMP+EMB+SM	0	0.0		
OTHER PATTERNS	7	2.5		
INH+EMB	2	0.7		
INH+SM	4	1.4		
INH+EMB+SM	0	0.0		
RMP+EMB	1	0.4		
RMP+SM	0	0.0		
RMP+EMB+SM	0	0.0		
EMB+SM	0	0.0		
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs	256	90.0		
resistant to 1 drug	20	7.0		
resistant to 2 drugs	8	2.8		
resistant to 3 drugs	0	0.0		
resistant to 4 drugs	0	0.0		

Russia

Tomsk Oblast

2002

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	533	100.0	117	100.0	650	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	334	62.7	46	39.3	380	58.5
ANY RESISTANCE	199	37.3	71	60.7	270	41.5
Isoniazid (INH)	155	29.1	60	51.3	215	33.0
Rifampicin (RMP)	76	14.3	56	47.9	132	20.3
Ethambutol (EMB)	23	4.3	16	13.7	39	6.0
Streptomycin (SM)	182	34.1	67	57.3	249	38.3
MONORESISTANCE	56	10.5	8	6.8	64	98.4
Isoniazid (INH)	13	2.4	0	0.0	13	2.0
Rifampicin (RMP)	2	0.4	2	1.7	4	0.6
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	41	7.7	6	5.1	47	7.2
MULTIDRUG RESISTANCE	73	13.7	51	43.6	124	19.0
INH+RMP	2	0.4	2	1.7	4	0.6
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	49	9.2	33	28.2	82	12.6
INH+RMP+EMB+SM	22	4.1	16	13.7	38	5.8
OTHER PATTERNS	70	13.1	12	10.3	82	12.6
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	68	12.8	9	7.7	77	11.8
INH+EMB+SM	1	0.2	0	0.0	1	0.1
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	1	0.2	3	2.6	4	0.6
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	334	62.7	46	39.3	380	58.5
resistant to 1 drug	56	10.5	8	6.8	64	9.8
resistant to 2 drugs	71	13.3	14	12.0	85	13.0
resistant to 3 drugs	50	9.3	33	28.2	83	12.8
resistant to 4 drugs	22	4.1	16	13.7	38	5.8

Russia

Orel Oblast

2002

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	379	100.0	210	100.0	589	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	299	78.9	56	26.7	355	60.3
ANY RESISTANCE	80	21.1	154	73.3	234	39.7
Isoniazid (INH)	68	17.9	149	71.0	217	36.8
Rifampicin (RMP)	10	2.6	89	42.4	99	16.8
Ethambutol (EMB)	18	4.7	92	43.8	110	18.7
Streptomycin (SM)	72	19.0	139	66.2	211	35.8
MONORESISTANCE	20	5.3	15	7.1	35	5.9
Isoniazid (INH)	8	2.1	10	4.8	18	3.1
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	1	0.5	1	0.2
Streptomycin (SM)	12	3.2	4	1.9	16	2.7
MULTIDRUG RESISTANCE	10	2.6	89	42.4	99	16.8
INH+RMP	0	0.0	1	0.5	1	0.2
INH+RMP+EMB	0	0.0	2	1.0	2	0.3
INH+RMP+SM	5	1.3	21	10.0	26	4.4
INH+RMP+EMB+SM	5	1.3	65	31.0	70	11.9
OTHER PATTERNS	50	13.2	50	23.8	100	17.0
INH+EMB	0	0.0	1	0.5	1	0.2
INH+SM	37	9.8	26	12.4	63	10.7
INH+EMB+SM	13	3.4	23	11.0	36	6.1
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	299	78.9	56	26.7	355	60.3
resistant to 1 drug	20	5.3	15	7.1	35	5.9
resistant to 2 drugs	37	9.8	28	13.3	65	11.0
resistant to 3 drugs	18	4.7	46	21.9	64	10.9
resistant to 4 drugs	5	1.3	65	31.0	70	11.9

Serbia and Montenegro

Belgrade

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	249	100.0	30	100.0	279	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	235	94.4	25	83.4	260	93.2
ANY RESISTANCE	14	5.6	5	16.7	19	6.8
Isoniazid (INH)	4	1.6	3	10.0	7	2.5
Rifampicin (RMP)	5	2.0	0	0.0	5	1.8
Ethambutol (EMB)	2	0.8	2	6.7	4	1.4
Streptomycin (SM)	6	2.4	1	3.3	7	2.5
MONORESISTANCE	12	4.8	4	13.3	16	5.7
Isoniazid (INH)	3	1.2	2	6.7	5	1.8
Rifampicin (RMP)	4	1.6	0	0.0	4	1.4
Ethambutol (EMB)	1	0.4	2	6.7	3	1.1
Streptomycin (SM)	4	1.6	0	0.0	4	1.4
MULTIDRUG RESISTANCE	1	0.4	0	0.0	1	0.4
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	1	0.4	0	0.0	1	0.4
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	1	0.4	1	3.3	2	0.7
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	0	0.0	1	3.3	1	0.4
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	1	0.4	0	0.0	1	0.4
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	235	94.4	25	83.4	260	93.2
resistant to 1 drug	12	4.8	4	13.3	16	5.7
resistant to 2 drugs	1	0.4	1	3.3	2	0.7
resistant to 3 drugs	1	0.4	0	0.0	1	0.4
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

Singapore

Countrywide

2001

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	823	100.0	126	100.0	949	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	782	95.0	111	88.1	893	94.1
ANY RESISTANCE	41	5.0	15	11.9	56	5.9
Isoniazid (INH)	27	3.5	8	6.3	35	3.9
Rifampicin (RMP)	5	0.5	3	2.4	8	0.7
Ethambutol (EMB)	6	0.7	1	0.8	7	0.7
Streptomycin (SM)	25	3.0	7	5.6	32	3.4
MONORESISTANCE	26	3.1	12	9.5	38	4.0
Isoniazid (INH)	13	1.6	5	4.0	18	1.9
Rifampicin (RMP)	0	0.0	2	1.6	2	0.2
Ethambutol (EMB)	1	0.1	0	0.0	1	0.1
Streptomycin (SM)	12	1.5	5	4.0	17	1.8
MULTIDRUG RESISTANCE	4	0.9	1	0.8	5	0.5
INH+RMP	1	0.1	0	0.0	1	0.1
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	1	0.1	1	0.8	2	0.2
INH+RMP+EMB+SM	2	0.2	0	0.0	2	0.2
OTHER PATTERNS	11	1.3	2	1.6	13	1.4
INH+EMB	1	0.1	1	0.8	2	0.2
INH+SM	7	0.9	1	0.8	8	0.8
INH+EMB+SM	2	0.2	0	0.0	2	0.2
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	1	0.1	0	0.0	1	0.1
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	782	95.0	111	88.1	893	94.1
resistant to 1 drug	26	3.1	12	9.5	38	4.0
resistant to 2 drugs	10	1.2	2	1.6	12	1.3
resistant to 3 drugs	3	0.4	1	0.8	4	0.4
resistant to 4 drugs	2	0.2	0	0.0	2	0.2

Slovakia

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	465	100.0	110	100.0	575	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	446	95.9	95	86.4	541	94.1
ANY RESISTANCE	19	4.1	15	13.6	34	5.9
Isoniazid (INH)	15	3.2	12	10.9	27	4.7
Rifampicin (RMP)	7	1.5	2	1.8	9	1.6
Ethambutol (EMB)	1	0.2	1	0.9	2	0.3
Streptomycin (SM)	6	1.3	6	5.5	12	2.1
MONORESISTANCE	11	2.4	11	10.0	22	3.8
Isoniazid (INH)	8	1.7	8	7.3	16	2.8
Rifampicin (RMP)	1	0.2	0	0.0	1	0.2
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	2	0.4	3	2.7	5	0.9
MULTIDRUG RESISTANCE	5	1.1	2	1.8	7	1.2
INH+RMP	3	0.6	1	0.9	4	0.7
INH+RMP+EMB	1	0.2	0	0.0	1	0.2
INH+RMP+SM	1	0.2	0	0.0	1	0.2
INH+RMP+EMB+SM	0	0.0	1	0.9	1	0.2
OTHER PATTERNS	3	0.6	2	1.8	5	0.9
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	2	0.4	2	1.8	4	0.7
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	1	0.2	0	0.0	1	0.2
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	446	95.9	95	86.4	541	94.1
resistant to 1 drug	11	2.4	11	10.0	22	3.8
resistant to 2 drugs	6	1.3	3	2.7	9	1.6
resistant to 3 drugs	2	0.4	0	0.0	2	0.3
resistant to 4 drugs	0	0.0	1	0.9	1	0.2

Slovenia

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	282	100.0	38	100.0	320	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	275	97.5	34	89.5	309	96.6
ANY RESISTANCE	7	2.5	4	10.5	11	3.4
Isoniazid (INH)	6	2.1	3	7.9	9	2.8
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	1	2.6	1	0.3
Streptomycin (SM)	3	1.1	2	5.3	5	1.6
MONORESISTANCE	5	1.8	3	7.9	8	2.5
Isoniazid (INH)	4	1.4	2	5.3	6	1.9
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	1	0.4	1	2.6	2	0.6
MULTIDRUG RESISTANCE	0	0.0	0	0.0	0	0.0
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	2	0.7	1	2.6	3	0.9
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	2	0.7	0	0.0	2	0.6
INH+EMB+SM	0	0.0	1	2.6	1	0.3
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	275	97.5	34	89.5	309	96.6
resistant to 1 drug	5	1.8	3	7.9	8	2.5
resistant to 2 drugs	2	0.7	0	0.0	2	0.6
resistant to 3 drugs	0	0.0	1	2.6	1	0.3
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

South Africa

Kwazulu-Natal Province

2001-2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	595	100.0	207	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	556	93.4	169	81.6	91.3
ANY RESISTANCE	39	6.6	38	18.4	8.7
Isoniazid (INH)	32	5.4	30	14.5	7.0
Rifampicin (RMP)	11	1.8	18	8.7	3.1
Ethambutol (EMB)	5	5.0	5	2.4	1.1
Streptomycin (SM)	23	3.9	22	10.6	5.1
MONORESISTANCE	22	3.7	17	8.2	4.5
Isoniazid (INH)	15	2.5	9	4.3	2.9
Rifampicin (RMP)	1	0.2	2	1.0	0.3
Ethambutol (EMB)	0	0.0	1	0.5	0.1
Streptomycin (SM)	6	1.0	5	2.4	1.3
MULTIDRUG RESISTANCE	10	1.7	16	7.7	2.8
INH+RMP	0	0.0	4	1.9	0.3
INH+RMP+EMB	0	0.0	0	0.0	0.0
INH+RMP+SM	6	1.0	8	3.9	1.5
INH+RMP+EMB+SM	4	0.7	4	1.9	0.9
OTHER PATTERNS	7	1.2	5	2.4	1.4
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	6	1.0	5	2.4	1.3
INH+EMB+SM	1	0.2	0	0.0	0.1
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	556	93.4	169	81.6	91.3
resistant to 1 drug	22	3.7	17	8.2	4.5
resistant to 2 drugs	6	1.0	9	4.3	1.6
resistant to 3 drugs	7	1.2	8	3.9	1.7
resistant to 4 drugs	4	0.7	4	1.9	0.9

South Africa

Eastern Cape Province

2001-2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	506	100.0	283	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	449	88.7	233	82.3	86.6
ANY RESISTANCE	57	11.3	50	17.7	13.4
Isoniazid (INH)	36	7.1	38	13.4	9.2
Rifampicin (RMP)	6	1.2	22	7.8	3.4
Ethambutol (EMB)	3	0.6	4	1.4	0.9
Streptomycin (SM)	34	6.7	25	8.8	7.4
MONORESISTANCE	40	7.9	21	7.4	7.7
Isoniazid (INH)	19	3.8	9	3.2	3.6
Rifampicin (RMP)	1	0.2	1	0.3	0.2
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	20	4.0	11	3.9	3.9
MULTIDRUG RESISTANCE	5	1.0	21	7.8	3.1
INH+RMP	3	0.6	13	4.6	1.9
INH+RMP+EMB	0	0.0	1	0.4	0.1
INH+RMP+SM	0	0.0	5	0.0	0.6
INH+RMP+EMB+SM	2	0.4	2	0.7	0.5
OTHER PATTERNS	12	2.3	8	2.8	2.5
INH+EMB	0	0.0	1	0.4	0.1
INH+SM	11	2.1	7	2.5	2.3
INH+EMB+SM	1	0.2	0	0.0	0.1
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	449	88.7	233	82.3	86.6
resistant to 1 drug	40	7.9	21	7.4	7.7
resistant to 2 drugs	14	2.8	21	7.4	4.3
resistant to 3 drugs	1	0.2	6	2.1	0.8
resistant to 4 drugs	2	0.4	2	0.7	0.5

South Africa

Mpumalanga

2001-2002

	New		Previous		Combined
	N	%	N	%	
Total number of strains tested	702	100.0	175	100.0	
SUSCEPTIBLE TO ALL 4 DRUGS	636	90.9	134	76.6	
ANY RESISTANCE	66	9.1	41	23.4	
Isoniazid (INH)	49	7.0	33	18.9	
Rifampicin (RMP)	22	3.1	28	16.0	
Ethambutol (EMB)	7	1.0	16	9.1	
Streptomycin (SM)	29	4.1	25	14.3	
MONORESISTANCE	39	5.5	12	6.9	
Isoniazid (INH)	22	3.1	4	2.3	
Rifampicin (RMP)	4	0.6	4	2.3	
Ethambutol (EMB)	0	0.0	0	0.0	
Streptomycin (SM)	13	1.9	4	2.3	
MULTIDRUG RESISTANCE	18	2.6	24	13.7	
INH+RMP	6	0.9	6	3.4	
INH+RMP+EMB	4	0.6	2	1.1	
INH+RMP+SM	6	0.9	4	2.3	
INH+RMP+EMB+SM	2	0.3	12	6.9	
OTHER PATTERNS	9	1.2	5	2.9	
INH+EMB	1	0.1	0	0.0	
INH+SM	8	1.1	3	1.7	
INH+EMB+SM	0	0.0	2	1.1	
RMP+EMB	0	0.0	0	0.0	
RMP+SM	0	0.0	0	0.0	
RMP+EMB+SM	0	0.0	0	0.0	
EMB+SM	0	0.0	0	0.0	
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	636	90.9	134	76.6	
resistant to 1 drug	39	5.5	12	6.9	
resistant to 2 drugs	15	2.1	9	5.2	
resistant to 3 drugs	10	1.4	8	4.6	
resistant to 4 drugs	2	0.3	12	6.9	

South Africa

Gauteng Province

2001-2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	592	100.0	165	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	553	93.4	144	87.3	92.4
ANY RESISTANCE	39	6.6	21	12.7	7.6
Isoniazid (INH)	26	4.4	16	9.7	5.3
Rifampicin (RMP)	10	1.7	10	6.1	2.4
Ethambutol (EMB)	2	0.3	8	4.8	1.1
Streptomycin (SM)	23	3.9	13	7.9	4.5
MONORESISTANCE	24	4.1	5	3.1	3.9
Isoniazid (INH)	11	1.9	1	0.6	1.7
Rifampicin (RMP)	2	0.3	0	0.0	0.3
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	11	1.9	4	2.4	2.0
MULTIDRUG RESISTANCE	8	1.4	9	5.5	2.0
INH+RMP	3	0.5	2	1.2	0.6
INH+RMP+EMB	0	0.0	2	1.2	0.2
INH+RMP+SM	4	0.7	2	1.2	0.8
INH+RMP+EMB+SM	1	0.2	3	1.8	0.4
OTHER PATTERNS	7	1.2	7	4.2	1.7
INH+EMB	0	0.0	2	1.2	0.2
INH+SM	6	1.0	4	2.4	1.2
INH+EMB+SM	1	0.2	0	0.0	0.1
RMP+EMB	0	0.0	1	0.6	0.1
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	553	93.4	144	87.3	92.4
resistant to 1 drug	24	4.1	5	3.1	3.9
resistant to 2 drugs	9	1.5	9	5.5	2.2
resistant to 3 drugs	5	0.8	4	2.5	1.1
resistant to 4 drugs	1	0.2	3	1.8	0.4

South Africa

Free State Province

2001-2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	454	100.0	174	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	415	91.4	158	90.8	91.3
ANY RESISTANCE	39	8.6	16	9.2	8.7
Isoniazid (INH)	29	6.4	12	6.9	6.5
Rifampicin (RMP)	11	2.4	5	2.9	2.5
Ethambutol (EMB)	3	0.7	1	0.6	0.6
Streptomycin (SM)	18	4.0	5	2.9	3.7
MONORESISTANCE	25	5.5	11	6.3	5.7
Isoniazid (INH)	15	3.3	7	4.0	3.5
Rifampicin (RMP)	3	0.7	2	1.1	0.8
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	7	1.5	2	1.1	1.5
MULTIDRUG RESISTANCE	8	1.8	3	1.8	1.8
INH+RMP	1	0.2	2	1.1	0.4
INH+RMP+EMB	2	0.4	0	0.0	0.3
INH+RMP+SM	4	0.9	0	0.0	0.7
INH+RMP+EMB+SM	1	0.2	1	0.6	0.3
OTHER PATTERNS	6	1.3	2	1.1	1.3
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	6	1.3	2	1.1	1.3
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	415	91.4	158	90.8	91.3
resistant to 1 drug	25	5.5	11	6.3	5.7
resistant to 2 drugs	7	1.5	4	2.3	1.7
resistant to 3 drugs	6	1.3	0	0.0	1.0
resistant to 4 drugs	1	2.2	1	0.5	0.3

South Africa

Western Cape Province

2001-2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	427	100.0	228	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	403	94.4	210	92.1	93.6
ANY RESISTANCE	24	5.6	18	7.9	6.4
Isoniazid (INH)	22	5.2	15	6.6	5.6
Rifampicin (RMP)	4	0.9	9	3.9	1.9
Ethambutol (EMB)	0	0.0	3	1.3	0.4
Streptomycin (SM)	10	2.3	8	3.5	2.7
MONORESISTANCE	13	3.0	8	3.5	3.2
Isoniazid (INH)	11	2.6	5	2.2	2.4
Rifampicin (RMP)	0	0.0	0	0.0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	2	0.5	3	1.3	0.7
MULTIDRUG RESISTANCE	4	0.9	9	3.9	1.9
INH+RMP	3	0.7	4	1.8	1.1
INH+RMP+EMB	0	0.0	1	0.4	0.1
INH+RMP+SM	1	0.2	2	0.9	0.4
INH+RMP+EMB+SM	0	0.0	2	0.9	0.3
OTHER PATTERNS	7	1.6	1	0.4	1.2
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	7	1.6	1	0.4	1.2
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	403	94.4	210	92.1	93.6
resistant to 1 drug	13	3.0	8	3.5	3.2
resistant to 2 drugs	10	2.3	5	2.1	2.3
resistant to 3 drugs	1	0.2	3	1.3	0.6
resistant to 4 drugs	0	0.0	2	0.8	0.3

South Africa

Limpopo Province

2001-2001

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	451	100.0	88	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	419	92.9	73	83.0	91.0
ANY RESISTANCE	32	7.1	15	17.0	9.0
Isoniazid (INH)	25	5.6	11	12.5	6.9
Rifampicin (RMP)	11	2.4	9	10.2	3.9
Ethambutol (EMB)	10	2.2	2	2.3	2.2
Streptomycin (SM)	18	4.0	3	3.4	3.9
MONORESISTANCE	13	2.9	8	9.0	4.1
Isoniazid (INH)	6	1.3	4	4.5	1.9
Rifampicin (RMP)	0	0.0	3	3.4	0.6
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	7	1.6	1	1.1	1.5
MULTIDRUG RESISTANCE	11	2.4	6	7.0	3.3
INH+RMP	3	0.7	3	3.4	1.2
INH+RMP+EMB	1	0.2	2	2.3	0.6
INH+RMP+SM	2	0.4	1	1.1	0.6
INH+RMP+EMB+SM	5	1.1	0	0.0	0.9
OTHER PATTERNS	8	1.8	1	1.1	1.7
INH+EMB	4	0.9	0	0.0	0.7
INH+SM	4	0.9	1	1.1	0.9
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	419	92.9	73	83.0	91.0
resistant to 1 drug	13	2.9	8	9.0	4.1
resistant to 2 drugs	11	2.4	4	4.5	2.8
resistant to 3 drugs	3	0.6	3	3.4	1.2
resistant to 4 drugs	5	1.1	0	0.0	0.9

South Africa

North West Province

2001-2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	631	100.0	188	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	580	91.9	152	80.9	90.1
ANY RESISTANCE	51	8.1	36	19.1	9.9
Isoniazid (INH)	37	5.9	21	11.2	6.8
Rifampicin (RMP)	17	2.7	18	9.6	3.8
Ethambutol (EMB)	8	1.3	2	1.1	1.2
Streptomycin (SM)	28	4.4	23	12.2	5.7
MONORESISTANCE	28	4.4	16	8.5	5.1
Isoniazid (INH)	14	2.2	1	0.5	1.9
Rifampicin (RMP)	3	0.5	5	2.7	0.8
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	11	1.7	10	5.3	2.3
MULTIDRUG RESISTANCE	14	2.2	13	6.9	3.0
INH+RMP	3	0.5	6	3.2	0.9
INH+RMP+EMB	3	0.5	1	0.5	0.5
INH+RMP+SM	3	0.5	5	2.7	0.8
INH+RMP+EMB+SM	5	0.8	1	0.5	0.7
OTHER PATTERNS	9	1.4	7	3.7	1.8
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	9	1.4	7	3.7	1.8
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	580	91.9	152	80.9	90.1
resistant to 1 drug	28	4.4	16	8.5	5.1
resistant to 2 drugs	12	1.9	13	6.9	2.7
resistant to 3 drugs	6	0.9	6	3.2	1.3
resistant to 4 drugs	5	0.8	1	0.5	0.7

Spain

Galicia

2001-2002

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	360	100.0	40	100.0	400	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	318	88.3	31	77.5	349	87.3
ANY RESISTANCE	42	11.7	9	22.5	51	12.7
Isoniazid (INH)	16	4.4	7	17.5	23	5.8
Rifampicin (RMP)	5	1.4	3	7.5	8	2.0
Ethambutol (EMB)	8	2.2	3	7.5	11	2.8
Streptomycin (SM)	26	7.2	7	17.5	33	8.3
MONORESISTANCE	35	9.7	4	10.0	39	9.8
Isoniazid (INH)	9	2.5	2	5.0	11	2.8
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	2	0.6	0	0.0	2	0.5
Streptomycin (SM)	24	6.7	2	5.0	26	6.5
MULTIDRUG RESISTANCE	5	1.4	3	7.5	8	2.0
INH+RMP	0	0.0	0	0.0	0	0.0
INH+RMP+EMB	4	1.1	0	0.0	4	1.0
INH+RMP+SM	0	0.0	1	2.5	1	0.3
INH+RMP+EMB+SM	1	0.3	2	5.0	3	0.8
OTHER PATTERNS	2	0.6	2	5.0	4	1.0
INH+EMB	1	0.3	0	0.0	1	0.3
INH+SM	1	0.3	1	2.5	2	0.5
INH+EMB+SM	0	0.0	1	2.5	1	0.3
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	318	88.3	31	77.5	349	87.3
resistant to 1 drug	35	9.7	4	10.0	39	11.3
resistant to 2 drugs	2	0.6	1	2.5	3	0.8
resistant to 3 drugs	4	1.1	2	5.0	6	1.6
resistant to 4 drugs	1	0.3	2	5.0	3	0.8

Spain

Barcelona

2001

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	133	100.0	32	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	119	89.5	22	68.8	87.1
ANY RESISTANCE	14	10.5	10	31.3	12.9
Isoniazid (INH)	8	6.0	9	28.1	8.5
Rifampicin (RMP)	2	1.5	4	12.5	2.8
Ethambutol (EMB)	0	0.0	3	9.4	1.1
Streptomycin (SM)	9	6.8	6	18.8	8.1
MONORESISTANCE	10	7.5	4	12.5	8.1
Isoniazid (INH)	5	3.8	3	9.4	4.4
Rifampicin (RMP)	0	0.0	0	0.0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	5	3.8	1	3.1	3.7
MULTIDRUG RESISTANCE	1	0.8	4	12.5	2.1
INH+RMP	0	0.0	1	3.1	1.1
INH+RMP+EMB	0	0.0	0	0.0	0.0
INH+RMP+SM	1	0.8	0	0.0	0.7
INH+RMP+EMB+SM	0	0.0	3	9.4	1.1
OTHER PATTERNS	3	2.3	2	6.3	2.7
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	2	1.5	2	6.3	2.0
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	1	0.8	0	0.0	0.7
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	119	89.5	22	68.8	87.1
resistant to 1 drug	10	7.5	4	12.5	8.1
resistant to 2 drugs	3	2.3	3	9.4	3.1
resistant to 3 drugs	1	0.8	0	0.0	0.7
resistant to 4 drugs	0	0.0	3	9.4	1.1

Sweden

Countrywide
2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	344	100.0	22	100.0	366	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	308	89.5	19	86.4	327	89.3
ANY RESISTANCE	36	10.5	3	13.6	39	10.7
Isoniazid (INH)	35	10.2	2	9.1	37	10.1
Rifampicin (RMP)	4	1.2	1	4.5	5	1.4
Ethambutol (EMB)	2	0.6	0	0.0	2	0.6
Streptomycin (SM)	8	0.3	1	4.5	9	2.5
MONORESISTANCE	25	7.3	2	9.1	27	7.4
Isoniazid (INH)	24	7.0	1	4.5	25	6.8
Rifampicin (RMP)	0	0.0	0	0.0	0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	1	0.3	1	4.5	2	0.6
MULTIDRUG RESISTANCE	4	1.2	1	2.4	5	1.4
INH+RMP	2	0.6	1	2.4	3	0.8
INH+RMP+EMB	2	0.6	0	0.0	2	0.6
INH+RMP+SM	0	0.0	0	0.0	0	0.0
INH+RMP+EMB+SM	0	0.0	0	0.0	0	0.0
OTHER PATTERNS	7	2.0	0	0.0	7	1.9
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	7	2.0	0	0.0	7	1.9
INH+EMB+SM	0	0.0	0	0.0	0	0.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	308	89.5	19	86.4	327	89.3
resistant to 1 drug	25	7.3	2	9.1	27	7.4
resistant to 2 drugs	9	2.6	1	4.5	10	2.7
resistant to 3 drugs	2	0.6	0	0.0	2	0.5
resistant to 4 drugs	0	0.0	0	0.0	0	0.0

Switzerland

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	330	100.0	57	100.0	492	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	312	94.5	54	94.7	467	94.9
ANY RESISTANCE	18	5.5	3	5.3	25	5.1
Isoniazid (INH)	18	5.5	2	3.5	24	4.9
Rifampicin (RMP)	0	0.0	2	3.5	3	0.6
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	999	99.0	999	99.0	999	99.0
MONORESISTANCE	18	5.5	2	3.5	23	4.7
Isoniazid (INH)	18	5.5	1	1.8	22	4.5
Rifampicin (RMP)	0	0.0	1	1.8	1	0.2
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	999	99.0	999	99.0	999	99.0
MULTIDRUG RESISTANCE	0	0.0	1	1.8	2	0.4
INH+RMP	0	0.0	1	1.8	2	0.4
INH+RMP+EMB	0	0.0	0	0.0	0	0.0
INH+RMP+SM	999	99.0	999	99.0	999	99.0
INH+RMP+EMB+SM	999	99.0	999	99.0	999	99.0
OTHER PATTERNS	0	0.0	0	0.0	0	0.0
INH+EMB	0	0.0	0	0.0	0	0.0
INH+SM	999	99.0	999	99.0	999	99.0
INH+EMB+SM	999	99.0	999	99.0	999	99.0
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	999	99.0	999	99.0	999	99.0
RMP+EMB+SM	999	99.0	999	99.0	999	99.0
EMB+SM	999	99.0	999	99.0	999	99.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	312	94.5	54	94.7	467	94.9
resistant to 1 drug	18	5.5	2	3.5	23	4.7
resistant to 2 drugs	0	0.0	1	1.8	2	0.4
resistant to 3 drugs	0	0.0	0	0.0	0	0.0
resistant to 4 drugs	999	99.0	999	99.0	999	99.0

Thailand

Countrywide

2001

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	1,505	100.0	172	100.0	1,677	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	1,282	85.2	105	61.0	1,387	82.7
ANY RESISTANCE	223	14.8	67	39.0	290	17.3
Isoniazid (INH)	143	9.5	53	30.8	196	11.7
Rifampicin (RMP)	21	1.4	39	22.7	60	3.6
Ethambutol (EMB)	17	1.1	26	15.1	43	2.6
Streptomycin (SM)	124	8.2	42	24.4	166	9.9
MONORESISTANCE	158	10.5	20	11.6	178	10.6
Isoniazid (INH)	80	5.3	7	4.1	87	5.2
Rifampicin (RMP)	5	0.3	3	1.7	8	0.5
Ethambutol (EMB)	1	0.1	1	0.6	2	0.1
Streptomycin (SM)	72	4.8	9	5.2	81	4.8
MULTIDRUG RESISTANCE	14	0.9	35	20.3	49	2.9
INH+RMP	5	0.3	7	4.1	12	0.7
INH+RMP+EMB	1	0.1	4	2.3	5	0.3
INH+RMP+SM	4	0.3	8	4.7	12	0.7
INH+RMP+EMB+SM	4	0.3	16	9.3	20	1.2
OTHER PATTERNS	51	3.4	12	7.0	63	3.8
INH+EMB	5	0.3	2	1.2	7	0.4
INH+SM	40	2.7	7	4.1	47	2.8
INH+EMB+SM	4	0.3	2	1.2	6	0.4
RMP+EMB	2	0.1	1	0.6	3	0.2
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	1,282	85.2	105	61.0	1,387	82.7
resistant to 1 drug	158	10.7	20	11.6	178	10.6
resistant to 2 drugs	52	3.4	17	9.9	69	4.1
resistant to 3 drugs	9	0.4	14	8.1	23	1.4
resistant to 4 drugs	4	0.3	16	9.3	20	1.2

Turkmenistan

Dashoguz Velayat (Aral Sea Region)

2001-2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	105	100.0	98	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	73	69.5	37	37.8	52.5
ANY RESISTANCE	32	30.5	61	62.2	47.5
Isoniazid (INH)	16	15.2	47	47.9	32.8
Rifampicin (RMP)	4	3.8	19	19.4	12.2
Ethambutol (EMB)	2	1.9	15	15.3	9.1
Streptomycin (SM)	26	24.8	50	51.0	38.9
MONORESISTANCE	22	20.9	23	23.5	22.3
Isoniazid (INH)	6	5.7	9	9.2	7.6
Rifampicin (RMP)	0	0.0	1	1.0	0.5
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	16	15.2	13	13.3	14.2
MULTIDRUG RESISTANCE	4	3.8	18	18.4	11.6
INH+RMP	0	0.0	0	0.0	0.0
INH+RMP+EMB	0	0.0	0	0.0	0.0
INH+RMP+SM	3	2.9	10	10.2	6.8
INH+RMP+EMB+SM	1	1.0	8	8.2	4.8
OTHER PATTERNS	6	5.7	20	20.4	13.6
INH+EMB	0	0.0	1	1.0	0.5
INH+SM	5	4.8	13	13.3	9.3
INH+EMB+SM	1	0.9	6	6.1	3.7
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	73	69.5	37	37.8	52.5
resistant to 1 drug	22	20.9	23	23.5	22.3
resistant to 2 drugs	5	4.8	14	14.3	9.9
resistant to 3 drugs	4	3.8	16	16.3	10.5
resistant to 4 drugs	1	0.9	8	8.2	4.8

United Kingdom (without Scotland)

Countrywide

2000

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	2,312	100.0	237	100.0	3,004	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	2,117	91.6	201	84.8	2,735	91.0
ANY RESISTANCE	195	8.4	36	15.2	269	9.0
Isoniazid (INH)	139	6.0	25	10.5	192	6.4
Rifampicin (RMP)	28	1.2	13	5.5	48	1.6
Ethambutol (EMB)	11	0.5	5	2.1	19	0.6
Streptomycin (SM)	84	3.6	19	8.0	120	4.0
MONORESISTANCE	148	6.4	20	8.4	196	6.5
Isoniazid (INH)	92	4.0	9	3.8	119	4.0
Rifampicin (RMP)	7	0.3	3	1.3	11	0.4
Ethambutol (EMB)	0	0.0	0	0.0	0	0.0
Streptomycin (SM)	49	2.1	8	3.4	66	2.2
MULTIDRUG RESISTANCE	21	0.9	10	4.2	37	1.2
INH+RMP	5	0.2	2	0.8	8	0.3
INH+RMP+EMB	6	0.3	2	0.8	9	0.3
INH+RMP+SM	7	0.3	4	1.7	13	0.4
INH+RMP+EMB+SM	3	0.1	2	0.8	7	0.2
OTHER PATTERNS	26	1.1	6	2.5	36	1.2
INH+EMB	1	0.1	1	0.4	2	0.1
INH+SM	24	1.0	5	2.1	33	1.1
INH+EMB+SM	1	0.1	0	0.0	1	0.1
RMP+EMB	0	0.0	0	0.0	0	0.0
RMP+SM	0	0.0	0	0.0	0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0	0.0
EMB+SM	0	0.0	0	0.0	0	0.0
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	2,117	91.6	201	84.8	2,735	91.0
resistant to 1 drug	148	8.4	20	8.4	196	6.5
resistant to 2 drugs	30	1.3	8	3.4	43	1.4
resistant to 3 drugs	14	0.6	6	2.5	23	0.8
resistant to 4 drugs	3	0.1	2	0.8	7	0.2

United Kingdom

Scotland

2000

	New	Previous	Combined N	Combined %
Total number of strains tested			302	100.0
SUSCEPTIBLE TO ALL 4 DRUGS			290	96.0
ANY RESISTANCE			12	4.0
Isoniazid (INH)			11	3.6
Rifampicin (RMP)			0	0.0
Ethambutol (EMB)			0	0.0
Streptomycin (SM)			1	0.3
MONORESISTANCE			12	4.0
Isoniazid (INH)			11	3.6
Rifampicin (RMP)			0	0.0
Ethambutol (EMB)			0	0.0
Streptomycin (SM)			1	0.3
MULTIDRUG RESISTANCE			0	0.0
INH+RMP			0	0.0
INH+RMP+EMB			0	0.0
INH+RMP+SM			0	0.0
INH+RMP+EMB+SM			0	0.0
OTHER PATTERNS			0	0.0
INH+EMB			0	0.0
INH+SM			0	0.0
INH+EMB+SM			0	0.0
RMP+EMB			0	0.0
RMP+SM			0	0.0
RMP+EMB+SM			0	0.0
EMB+SM			0	0.0
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs			290	96.0
resistant to 1 drug			12	4.0
resistant to 2 drugs			0	0.0
resistant to 3 drugs			0	0.0
resistant to 4 drugs			0	0.0

United States

Countrywide

2001

	New		Previous		Combined	
	N	%	N	%	N	%
Total number of strains tested	9,751	100.0	537	100.0	10,288	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	8,516	87.3	436	81.2	8,952	87.0
ANY RESISTANCE	1,235	12.7	101	18.8	1,336	13.0
Isoniazid (INH)	753	7.7	75	14.0	828	8.0
Rifampicin (RMP)	142	1.5	35	6.5	177	1.7
Ethambutol (EMB)	154	1.6	19	3.5	173	1.7
Streptomycin (SM)	718	7.4	46	8.6	764	7.4
MONORESISTANCE	859	8.8	59	11.0	918	8.9
Isoniazid (INH)	391	4.0	35	6.5	426	4.1
Rifampicin (RMP)	23	0.2	6	1.1	29	0.3
Ethambutol (EMB)	43	0.4	1	0.2	44	0.4
Streptomycin (SM)	402	4.1	17	3.2	419	4.0
MULTIDRUG RESISTANCE	112	1.1	28	5.2	140	1.4
INH+RMP	31	0.3	9	1.7	40	0.4
INH+RMP+EMB	9	0.1	3	0.6	12	0.1
INH+RMP+SM	20	0.2	5	0.9	25	0.2
INH+RMP+EMB+SM	52	0.5	11	2.1	63	0.6
OTHER PATTERNS	264	2.7	14	2.6	278	2.7
INH+EMB	16	0.2	1	0.2	17	0.2
INH+SM	212	2.2	9	1.7	221	2.1
INH+EMB+SM	22	0.2	2	0.4	24	0.2
RMP+EMB	4	0.1	0	0.0	4	0.1
RMP+SM	2	0.1	1	0.2	3	0.1
RMP+EMB+SM	1	0.1	0	0.0	1	0.1
EMB+SM	7	0.1	1	0.2	8	0.1
NUMBER OF DRUGS RESISTANT TO						
susceptible to 4 drugs	8,516	87.3	436	81.2	8,952	87.0
resistant to 1 drug	859	8.8	59	11.0	918	8.9
resistant to 2 drugs	272	2.8	21	3.9	293	2.8
resistant to 3 drugs	52	0.5	10	1.9	62	0.6
resistant to 4 drugs	52	0.5	11	2.0	63	0.6

Uruguay

Countrywide

1999

	New		Previous	Combined
	N	%		
Total number of strains tested	315	100.0		
SUSCEPTIBLE TO ALL 4 DRUGS	305	96.8		
ANY RESISTANCE	10	3.2		
Isoniazid (INH)	5	1.6		
Rifampicin (RMP)	1	0.3		
Ethambutol (EMB)	0	0.0		
Streptomycin (SM)	5	1.6		
MONORESISTANCE	9	2.8		
Isoniazid (INH)	4	1.3		
Rifampicin (RMP)	0	0.0		
Ethambutol (EMB)	0	0.0		
Streptomycin (SM)	5	1.6		
MULTIDRUG RESISTANCE	1	0.3		
INH+RMP	1	0.3		
INH+RMP+EMB	0	0.0		
INH+RMP+SM	0	0.0		
INH+RMP+EMB+SM	0	0.0		
OTHER PATTERNS	0	0.0		
INH+EMB	0	0.0		
INH+SM	0	0.0		
INH+EMB+SM	0	0.0		
RMP+EMB	0	0.0		
RMP+SM	0	0.0		
RMP+EMB+SM	0	0.0		
EMB+SM	0	0.0		
NUMBER OF DRUGS RESISTANT TO				
susceptible to 4 drugs	305	96.8		
resistant to 1 drug	9	2.8		
resistant to 2 drugs	1	0.3		
resistant to 3 drugs	0	0.0		
resistant to 4 drugs	0	0.0		

Uzbekistan

Karakalpakstan (Aral Sea Region)

2001-2002

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	106	100.0	107	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	55	51.9	22	20.6	36.1
ANY RESISTANCE	51	48.1	85	79.4	63.9
Isoniazid (INH)	39	36.8	74	69.2	53.1
Rifampicin (RMP)	14	13.2	43	40.2	26.8
Ethambutol (EMB)	16	15.1	37	34.6	24.9
Streptomycin (SM)	47	44.3	76	71.0	57.8
MONORESISTANCE	16	15.1	19	17.8	16.4
Isoniazid (INH)	4	3.8	8	7.5	5.6
Rifampicin (RMP)	0	0.0	0	0.0	0.0
Ethambutol (EMB)	0	0.0	0	0.0	0.0
Streptomycin (SM)	12	11.3	11	10.3	10.8
MULTIDRUG RESISTANCE	14	13.2	43	40.2	26.8
INH+RMP	0	0.0	1	0.9	0.5
INH+RMP+EMB	0	0.0	0	0.0	0.0
INH+RMP+SM	5	4.7	10	9.3	7.0
INH+RMP+EMB+SM	9	8.5	32	29.9	19.3
OTHER PATTERNS	21	19.8	23	21.5	20.7
INH+EMB	0	0.0	0	0.0	0.0
INH+SM	14	13.2	18	16.8	15.0
INH+EMB+SM	7	6.6	5	4.7	5.6
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	55	51.9	22	20.6	36.1
resistant to 1 drug	16	15.1	19	17.8	16.4
resistant to 2 drugs	14	13.2	19	17.8	15.5
resistant to 3 drugs	12	11.3	15	14.0	12.7
resistant to 4 drugs	9	8.5	32	29.9	19.3

Venezuela

Countrywide

1998-1999

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	769	100.0	104	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	711	92.5	72	69.2	90.4
ANY RESISTANCE	58	7.5	32	30.8	9.6
Isoniazid (INH)	30	3.9	24	23.1	5.6
Rifampicin (RMP)	8	1.0	19	18.3	2.6
Ethambutol (EMB)	8	0.9	8	7.7	1.6
Streptomycin (SM)	36	0.7	16	15.4	5.6
MONORESISTANCE	38	4.9	12	11.5	5.5
Isoniazid (INH)	13	1.7	6	5.8	2.1
Rifampicin (RMP)	3	0.4	3	2.9	0.6
Ethambutol (EMB)	1	0.1	0	0.0	0.1
Streptomycin (SM)	21	2.7	3	2.9	2.7
MULTIDRUG RESISTANCE	4	0.5	14	13.5	1.7
INH+RMP	2	0.3	4	3.8	4.3
INH+RMP+EMB	0	0.0	2	1.9	0.2
INH+RMP+SM	1	0.1	5	4.8	0.5
INH+RMP+EMB+SM	1	0.1	3	2.9	0.4
OTHER PATTERNS	16	2.1	6	5.8	2.4
INH+EMB	2	0.3	1	1.0	0.3
INH+SM	10	1.3	3	2.9	1.4
INH+EMB+SM	1	0.1	0	0.0	0.1
RMP+EMB	1	0.1	0	0.0	0.1
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	2	1.9	0.2
EMB+SM	2	0.3	0	0.0	0.2
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	711	92.5	72	69.2	90.4
resistant to 1 drug	38	4.9	12	11.5	5.5
resistant to 2 drugs	17	2.2	8	7.7	2.7
resistant to 3 drugs	2	0.3	9	8.7	1.0
resistant to 4 drugs	1	0.1	3	2.9	0.4

Zambia

Countrywide

2000

	New		Previous		Combined
	N	%	N	%	%
Total number of strains tested	445	100.0	44	100.0	100.0
SUSCEPTIBLE TO ALL 4 DRUGS	394	88.5	37	84.0	88.1
ANY RESISTANCE	51	11.5	7	15.9	11.9
Isoniazid (INH)	28	6.3	3	6.8	6.3
Rifampicin (RMP)	8	1.8	1	2.3	1.8
Ethambutol (EMB)	9	2.0	1	2.3	2.0
Streptomycin (SM)	24	5.4	2	4.5	5.3
MONORESISTANCE	38	8.5	5	11.4	8.8
Isoniazid (INH)	15	3.4	2	4.5	3.5
Rifampicin (RMP)	0	0.0	0	0.0	0.0
Ethambutol (EMB)	3	0.7	1	2.3	0.8
Streptomycin (SM)	20	4.5	2	4.5	4.5
MULTIDRUG RESISTANCE	8	1.8	1	2.3	1.8
INH+RMP	4	0.9	1	2.3	8.5
INH+RMP+EMB	3	0.7	0	0.0	0.6
INH+RMP+SM	0	0.0	0	0.0	0.0
INH+RMP+EMB+SM	1	0.2	0	0.0	0.2
OTHER PATTERNS	5	1.1	0	0.0	1.0
INH+EMB	2	0.4	0	0.0	0.4
INH+SM	3	0.7	0	0.0	0.6
INH+EMB+SM	0	0.0	0	0.0	0.0
RMP+EMB	0	0.0	0	0.0	0.0
RMP+SM	0	0.0	0	0.0	0.0
RMP+EMB+SM	0	0.0	0	0.0	0.0
EMB+SM	0	0.0	0	0.0	0.0
NUMBER OF DRUGS RESISTANT TO					
susceptible to 4 drugs	394	88.5	37	84.0	88.1
resistant to 1 drug	38	8.5	6	13.6	9.1
resistant to 2 drugs	9	2.0	1	2.3	2.0
resistant to 3 drugs	3	0.7	0	0.0	0.6
resistant to 4 drugs	1	0.2	0	0.0	0.2