

TABLES

Table 1	Sources of TB notifications and inclusion of cases diagnosed in specific populations, 1999	34
Table 2	Tuberculosis surveillance data provided to EuroTB, 1999	35
Table 3	Total number of tuberculosis cases notified and rates per 100 000 population, 1995-1999	36
Table 4	Tuberculosis cases by sex, 1999	37
Table 5	Tuberculosis cases by age group, 1999	38
Table 6	Tuberculosis cases by geographic origin, 1999	40
Table 7	Foreign tuberculosis cases by continent of origin, 1999	41
Table 8	Tuberculosis cases by previous anti-TB treatment status, 1999	42
Table 9	Tuberculosis cases by site of disease, 1999	43
Table 10	Sites of disease among tuberculosis cases, by age group, 1999	44
Table 11	Tuberculosis cases by culture result, 1999	45
Table 12	Tuberculosis cases by culture result and site of disease, 1999	46
Table 13	Tuberculosis cases by <i>M. tuberculosis</i> complex species, 1999	47
Table 14	Pulmonary / respiratory tuberculosis cases by sputum smear result, 1999	48
Table 15	Laboratory practices for drug susceptibility testing (DST), 1999	49
Table 16	Characteristics of drug resistance surveillance, 1999	50
Table 17	Global drug resistance at the start of treatment, tuberculosis cases, 1999	51
Table 18	Drug resistance at the start of treatment, tuberculosis cases never treated with anti-TB drugs, 1999	52
Table 19	Drug resistance at the start of treatment, tuberculosis cases previously treated with anti-TB drugs, 1999	53
Table 20	Drug resistance at the start of treatment, tuberculosis cases born in the country / national citizens, 1999	54
Table 21	Drug resistance at the start of treatment, tuberculosis cases born abroad / foreign citizens, 1999	55

TABLES

Table 1. Sources of TB notifications and inclusion of cases diagnosed in specific populations, 1999

Geographic area Country	Source of TB notifications *	Populations							
		Foreigners			Prisoners	Military personnel	Homeless persons	Persons with HIV/AIDS	Institutionalised persons
		Legal residents	Asylum seekers	Illegal residents					
West									
Austria	clin. + labs	□	□	□	□	□	□	□	□
Belgium	clin. + labs	□	□	□	□	□	□	□	□
Denmark	clin. + labs	□	□	□	□	□	□	□	□
Finland	clin. + labs	□	□	□	□	□	□	□	□
France	clin.	□	□	□	□	□	□	□	□
Germany	clin. + labs	□	□	□	□	□	□	□	□
Greece	clin. + labs	□	□	□		□	□	□	□
Ireland	clin.	□	□	□	□	□	□	□	□
Italy	clin.	□	□	□	□	□	□	□	□
Luxembourg	clin.	□	□	□	□	□	□	□	□
Netherlands	clin.	□	□	□	□	□	□	□	□
Portugal	clin.	□	□	□	□	□	□	□	□
Spain	clin.	□	□	□	□	□	□	□	□
Sweden	clin. + labs	□	□	□	□	□	□	□	□
United Kingdom	clin.	□	□	□	□	□	□	□	□
Subtotal EU		15	15	15	14	15	15	15	15
Andorra	clin.	□							
Iceland	clin. + labs	□	□	□	□	□	□	□	□
Israel	clin. + labs	□	□	□	□	□	□	□	□
Malta	clin.	□	□	□	□	□	□	□	□
Monaco	clin.	□	□	□	□	□	□	□	□
Norway	clin. + labs	□	□	□	□	□	□	□	□
San Marino	clin. + labs	□			□	□			□
Switzerland	clin. + labs	□	□	□	□	□	□	□	□
Total West		23	21	21	21	22	21	21	22
Centre									
Albania	clin.	□				□	□	□	□
Bosnia-Herzegovina †	clin.	□	□	□	□	□	□	□	□
Bulgaria	clin.	□	□	□	□	□	□	□	□
Croatia	clin. + labs	□	□	□	□	□	□	□	□
Czech Republic	clin. + labs	□	□	□	□	□	□	□	□
Hungary	clin. + labs	□	□	□	□	□	□	□	□
Macedonia, FYR	clin.				□	□	■	□	■
Poland	clin.				□	□		□	□
Romania	clin. + labs	□	■	■	■	□	□	□	□
Slovakia	clin. + labs	□	□		■	□	■	□	□
Slovenia	clin. + labs	□	□	□	□	□	□	□	□
Turkey	clin.	■	■	■	■	■	■	■	■
Yugoslavia	clin.	□	□	■	□		□		□
Total Centre		11	10	9	12	12	12	12	13
East									
Armenia	clin. + labs	□			□	□	□	□	□
Azerbaijan	clin.				□	□	■	□	□
Belarus	clin.				■	■			□
Estonia	clin. + labs	□	□	□	□	□	□	□	□
Georgia	clin. + labs	□			■	■	□	□	□
Kazakhstan	clin.	□			□	□	□	□	
Kyrgyzstan	clin. + labs				■	■			
Latvia	clin.	□	□	■	□	□	□	□	□
Lithuania	clin. + labs	□	□	□	□	□	□	□	□
Moldova, Republic of	clin.	□			■	□	□	□	□
Russian Federation	clin.	□	□	□	□	□	□	□	□
Tajikistan	clin.	□	□	■	■	■	■		■
Turkmenistan	clin. + labs					□	□		□
Ukraine	clin. + labs				□	□	□	□	□
Uzbekistan	clin. + labs								
Total East		9	5	5	13	14	12	10	12
Total WHO European Region		43	36	35	46	48	45	43	47

■ = inclusion since 1999; □ = included before 1999

* clin.=clinicians; clin. + labs=clinicians and laboratories; † Asylum seekers and illegal immigrants not included in Republic Srpska

TABLES

Table 2. Tuberculosis surveillance data provided to EuroTB, 1999

Geographic area Country	Type of data	Data provided							
		Sex and age	Geographic origin	History of TB and TB treatments	Site of disease	Culture	M. tuberculosis species	Sputum smear	Drug resistance
West									
Austria	individual	☐	☐	☐	☐	☐	☐	☐	☐
Belgium	individual	☐	☐	☐	☐	☐	☐	☐	
Denmark	individual *	☐	☐	☐	☐	☐	☐	☐	☐
Finland	individual	☐	☐	☐	☐	☐	☐	☐	☐
France	individual *	☐	☐	☐	☐	☐		☐	☐
Germany	aggregate	☐	☐		☐	☐	☐	☐	☐
Greece	aggregate	☐	☐	☐	☐	☐	☐	☐	☐
Ireland	individual	☐	☐	☐	☐	☐	☐	☐	☐
Italy	individual †	☐	☐	☐	☐	☐	☐	☐	
Luxembourg	individual	☐	☐	☐	☐	☐	☐	☐	
Netherlands	individual	☐	☐	☐	☐	☐	☐	☐	☐
Portugal	aggregate	☐	☐	☐	☐	☐		☐	
Spain	aggregate	☐	☐	☐	☐	☐		☐	☒
Sweden	individual	☐	☐	☐	☐	☐	☐	☐	☐
United Kingdom	individual	☐	☐	☐	☐	☐	☐	☐	☐
Subtotal EU		15	15	14	15	15	12	15	11
Andorra	aggregate	☐	☐	☐	☐	☐	☐	☐	☐
Iceland	individual	☐	☐	☐	☐	☐	☐	☐	☐
Israel	aggregate	☐	☐	☐	☐	☐		☐	☐
Malta	individual	☐	☐	☐	☐	☐		☐	☐
Monaco	aggregate	☐	☐	☐	☐	☐		☐	
Norway	individual	☐	☐	☐	☐	☐	☐	☐	☐
San Marino	no cases in 1999								
Switzerland	individual	☐	☐	☐	☐	☐	☐	☐	☐
Total West		22	22	21	22	22	16	22	17
Centre									
Albania	aggregate	☐		☐	☐	☐		☐	☐
Bosnia - Herzegovina	aggregate	☐	☐	☐	☐	☐	☐	☐	☐
Bulgaria	aggregate	☒ §		☐	☐	☐		☐	
Croatia	individual	☐	☐	☐	☐	☐		☐	☐
Czech Republic	individual *	☐	☐	☐	☐	☐	☐	☐	☐
Hungary	individual	☐	☐	☐	☐	☐	☐	☐	☐
Macedonia, FYR	aggregate	☐		☐	☐		☐		
Poland	aggregate	☐		☐	☐	☐		☐	
Romania	individual	☐	☐	☐	☐	☐	☐	☐	☐
Slovakia	individual	☐	☐	☐	☐	☐	☐	☐	☐
Slovenia	individual	☐	☐	☐	☐	☐	☐	☐	☐
Turkey	aggregate			☐	☒			☒	
Yugoslavia	aggregate	☐		☐				☐	☐
Total Centre		12	7	13	12	10	7	12	9
East									
Armenia	aggregate	☒		☐	☐	☐		☐	☐
Azerbaijan	aggregate	☒ §		☐	☐	☐		☐	
Belarus	aggregate	☒ §		☐	☐				
Estonia	individual	☐	☐	☐	☐	☐		☐	☐
Georgia	aggregate	☐		☐	☐	☐		☐	
Kazakhstan	aggregate	☐		☐	☐			☐	☐
Kyrgyzstan	aggregate	☒		☐	☒			☒	☐
Latvia	aggregate	☒	☐	☐	☐	☐	☐	☐	☐
Lithuania	aggregate	☐	☐	☐	☐	☐		☐	☐
Moldova, Republic of	aggregate	☒	☐	☐	☐	☐		☐	
Russian Federation	aggregate	☒	☒	☐	☐				☒
Tajikistan	aggregate	☐		☐					
Turkmenistan	aggregate	☒			☐			☒	
Ukraine	aggregate	☒		☐	☐				☐
Uzbekistan	aggregate	☒		☒	☐			☐	
Total East		15	5	14	14	7	1	11	7
Total WHO European Region		49	34	48	48	39	24	45	34

☐ = Information provided on all cases ☒ = Information provided on new cases only

* Except species and drug resistance; † Except species; § Age groups different from those requested; not shown; || Sex provided for new cases only

TABLES

Table 3. Total number of tuberculosis cases notified and rates per 100 000 population, 1995-1999

Geographic area	1995		1996		1997		1998		1999	
Country	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate
West										
Austria	1 383	17.4	1 445	18.0	1 369	17.0	1 311	16.1	1 201	14.7
Belgium	1 380	13.6	1 352	13.3	1 263	12.4	1 203	11.9	1 270	12.5
Denmark	448	8.6	484	9.3	554	10.7	529	10.0	536	10.1
Finland	662	13.0	644	12.6	573	11.1	629	12.2	566	11.0
France	8 723	14.7	7 656	12.8	6 832	11.4	6 651	11.0	6 674	11.0
Germany	12 198	15.0	11 814	14.4	11 163	13.6	10 440	12.7	9 974	12.1
Greece	939 *	9.0	945 *	9.0	767 *	7.3	1 152	10.9	952	9.0
Ireland	458	12.9	434	12.2	416	11.6	424	11.5	469	12.7
Italy	5 225	9.1	5 152	9.0	5 176	9.0	4 795	8.4	4 429	7.7
Luxembourg	32	7.9	36	8.8	38	9.2	44	10.4	42	9.9
Netherlands	1 619	10.4	1 678	10.8	1 486	9.5	1 341	8.6	1 535	9.8
Portugal	5 577	56.8	5 248	53.5	5 112	52.1	5 260	53.3	5 160	52.3
Spain †	8 764	22.1	8 331	21.0	9 347	23.5	9 111	23.0	8 393	21.2
Sweden	564	6.4	493	5.6	456	5.1	446	5.0	493	5.5
United Kingdom	6 161	10.6	6 240	10.7	6 355	10.8	6 176	10.5	6 287	10.7
Subtotal EU	54 133	14.5	51 952	13.9	50 907	13.6	49 512	13.2	47 981	12.7
Andorra	–	–	17	25.4	19	27.1	8	11.1	9	12.0
Iceland	12	4.5	11	4.1	10	3.6	17	6.2	12	4.3
Israel	398	7.1	415	7.2	422	7.2	656	11.0	520	8.5
Malta	10	2.7	29	7.9	11	3.0	16	4.2	22	5.7
Monaco	1	3.1	0	0.0	0	0.0	0	0.0	3	8.8
Norway	236	5.4	217	5.0	205	4.7	244	5.5	273	6.1
San Marino	2	8.0	0	0.0	1	3.8	0	0.0	0	0.0
Switzerland	830	11.5	764	10.5	747	10.2	749	10.3	772	10.5
Total West	55 622	14.2	53 405	13.6	52 322	13.3	51 202	13.0	49 592	12.6
Centre										
Albania	664	19.3	707	20.4	655	18.7	694	22.3	765	24.6
Bosnia-Herzegovina	2 132	61.6	2 220	63.0	2 869	77.5	3 071	83.5	3 075	80.1
Bulgaria	3 245	37.0	3 109	35.6	3 437 ‡	39.6	4 117	49.4	3 530	42.6
Croatia	2 114 ‡	47.0	2 174	48.5	2 054	46.0	2 118	47.3	1 770	39.5
Czech Republic	1 851	18.0	1 936	18.8	1 834	17.8	1 805	17.6	1 631	15.9
Hungary	4 339	42.9	4 278	42.5	4 240	42.2	3 999	39.5	3 914	38.8
Macedonia, FYR	786	36.3	724	33.2	693	31.5	620	31.0	576	28.6
Poland	15 959	41.6	15 358	39.9	13 967	36.3	13 302	34.4	12 179	31.4
Romania	23 271	101.9	24 113	105.9	23 903	105.2	25 758	114.6	26 870	119.9
Slovakia	1 537	28.7	1 499	27.9	1 298	24.1	1 282	23.8	1 218	22.6
Slovenia	525	27.0	563	28.9	481	24.7	449	22.5	438	22.0
Turkey	23 035	37.2	23 533	37.3	25 685	39.9	25 501	39.5	22 088	33.7
Yugoslavia	4 169	38.4	4 541	41.8	4 062	37.5	3 028 §	35.9 §	2 646 §	28.4 §
Total Centre	83 627	45.4	84 755	45.7	85 178	45.6	85 744	46.7	80 700	43.7
East										
Armenia	836	23.2	935	25.6	1 026	27.8	1 455	41.1	1 499	42.5
Azerbaijan	3 306	43.7	5 006	65.5	4 635 ‡	60.0	4 350	56.7	4 629	61.0
Belarus	5 092	50.2	5 619	55.5	5 985	59.2	5 595	54.2	7 339	71.4
Estonia	608	39.7	683	44.9	744	49.1	818	57.2	754	53.4
Georgia	–	–	10 641	194.7	8 446	154.1	6 302	124.6	6 546	130.8
Kazakhstan	11 095 *	64.8	13 559 *	78.8	16 109	93.0	20 623	126.4	25 060	154.0
Kyrgyzstan	3 380	71.2	4 086	84.7	5 189	105.8	5 935	127.8	6 501	139.2
Latvia	1 541	60.3	1 761	69.4	2 003	79.6	2 182	90.0	1 968	82.4
Lithuania	2 362	63.8	2 608	70.6	2 926	79.2	3 016	81.6	2 903	78.8
Moldova, Republic of	2 753	62.1	2 922	65.7	2 908	65.2	2 891	66.0	2 947	67.3
Russian Federation	96 828	65.9	110 897	75.6	119 123	81.3	121 917	82.7	135 054	91.8
Tajikistan	2 029 ‡	33.3	1 647	26.3	2 143	33.3	2 503	41.6	2 553	41.8
Turkmenistan	2 009	49.0	2 149	51.3	3 438	80.3	3 712 *	86.1	4 092	93.3
Ukraine	21 459 ‡	41.8	26 834	52.3	28 344	55.3	31 318	61.6	32 879	64.9
Uzbekistan	9 866	43.2	11 919	51.1	13 352	56.0	13 958	59.2	16 959	70.8
Total East	163 164	56.9	201 266	68.7	216 371	73.7	226 575	77.7	251 683	86.3
Total WHO European Region	302 413	35.1	339 426	39.0	353 871	40.5	363 521	41.8	381 975	43.8

* New cases only; † Until 1996 new respiratory cases only; since 1997 new and recurrent respiratory and meningial cases

‡ Source: Global Tuberculosis Control, WHO Report 2001, WHO/CDS/TB/2001.287; § Without Kosovo and Metohija

TABLES

Table 4. Tuberculosis cases by sex, 1999

Geographic area Country	Sex						Sex ratio * (M/F)	
	Male		Female		Unknown			
	N	(%)	N	(%)	N	(%)		
West								
Austria	763	(64)	438	(36)	0	(0)	1 201	1.7
Belgium	834	(66)	436	(34)	0	(0)	1 270	1.9
Denmark	300	(56)	236	(44)	0	(0)	536	1.3
Finland	301	(53)	265	(47)	0	(0)	566	1.1
France	3 947	(59)	2 689	(40)	38	(1)	6 674	1.5
Germany	6 138	(62)	3 836	(38)	0	(0)	9 974	1.6
Greece	668	(70)	284	(30)	0	(0)	952	2.4
Ireland	285	(61)	184	(39)	0	(0)	469	1.5
Italy	2 769	(63)	1 652	(37)	8	(0)	4 429	1.7
Luxembourg	36	(86)	6	(14)	0	(0)	42	6.0
Netherlands	896	(58)	639	(42)	0	(0)	1 535	1.4
Portugal	3 486	(68)	1 674	(32)	0	(0)	5 160	2.1
Spain †	5 481	(65)	2 626	(31)	286	(3)	8 393	2.1
Sweden	253	(51)	240	(49)	0	(0)	493	1.1
United Kingdom	3 381	(54)	2 881	(46)	25	(0)	6 287	1.2
Subtotal EU	29 538	(62)	18 086	(38)	357	(1)	47 981	1.6
Andorra	5	(56)	4	(44)	0	(0)	9	1.3
Iceland	6	(50)	6	(50)	0	(0)	12	1.0
Israel	307	(59)	213	(41)	0	(0)	520	1.4
Malta	17	(77)	5	(23)	0	(0)	22	3.4
Monaco	2	(67)	1	(33)	0	(0)	3	2.0
Norway	141	(52)	132	(48)	0	(0)	273	1.1
San Marino	–	–	–	–	–	–	0	–
Switzerland	433	(56)	339	(44)	0	(0)	772	1.3
Total West	30 449	(61)	18 786	(38)	357	(1)	49 592	1.6
Centre								
Albania	434	(57)	331	(43)	0	(0)	765	1.3
Bosnia-Herzegovina	1 820	(59)	1 255	(41)	0	(0)	3 075	1.5
Bulgaria	2 491	(71)	738	(21)	301	(9)	3 530	3.4
Croatia	1 128	(64)	642	(36)	0	(0)	1 770	1.8
Czech Republic	987	(61)	644	(39)	0	(0)	1 631	1.5
Hungary	2 762	(71)	1 152	(29)	0	(0)	3 914	2.4
Macedonia, FYR	357	(62)	219	(38)	0	(0)	576	1.6
Poland	8 159	(67)	4 020	(33)	0	(0)	12 179	2.0
Romania	18 686	(70)	8 184	(30)	0	(0)	26 870	2.3
Slovakia	742	(61)	476	(39)	0	(0)	1 218	1.6
Slovenia	272	(62)	166	(38)	0	(0)	438	1.6
Turkey	–	–	–	–	–	–	–	–
Yugoslavia ‡	1 704	(59)	903	(31)	39	(10)	2 646	1.9
Total centre	39 542	(67)	18 730	(32)	340	(1)	58 614	2.1
East								
Armenia §	1 191	(83)	243	(17)	0	(0)	1 434	4.9
Azerbaijan	3 396	(73)	1 233	(27)	0	(0)	4 629	2.8
Belarus §	5 138	(76)	1 591	(24)	0	(0)	6 729	3.2
Estonia	535	(71)	219	(29)	0	(0)	754	2.4
Georgia	4 266	(65)	2 280	(35)	0	(0)	6 546	1.9
Kazakhstan	11 954	(48)	9 100	(36)	4 006	(16)	25 060	1.3
Kyrgyzstan §	4 051	(64)	2 325	(36)	0	(0)	6 376	1.7
Latvia §	1 182	(71)	491	(29)	0	(0)	1 673	2.4
Lithuania	1 846	(64)	1 000	(34)	57	(2)	2 903	1.8
Moldova, Republic of §	1 928	(73)	720	(27)	0	(0)	2 648	2.7
Russian Federation §	94 845	(76)	29 199	(24)	0	(0)	124 044	3.2
Tajikistan	1 509	(59)	1 043	(41)	1	(0)	2 553	1.4
Turkmenistan §	2 581	(64)	1 429	(36)	0	(0)	4 010	1.8
Ukraine §	19 175	(71)	7 943	(29)	0	(0)	27 118	2.4
Uzbekistan §	8 740	(58)	6 340	(42)	0	(0)	15 080	1.4
Total East	162 337	(70)	65 156	(28)	4 064	(2)	231 557	2.5
Total WHO European Region	232 328	(68)	102 672	(30)	4 761	(1)	339 761	2.3

*Number of male cases per female case; † Respiratory and meningeal cases only; ‡ Without Kosovo and Metohija; § Provided on new cases only

TABLES

Table 5. Tuberculosis cases by age group, 1999

Geographic area Country	Age group (years)									
	0 - 4		5 - 14		15 - 24		25 - 34		35 - 44	
	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
West										
Austria	28	(2)	19	(2)	81	(7)	178	(15)	222	(18)
Belgium	33	(3)	30	(2)	121	(10)	199	(16)	183	(14)
Denmark	19	(4)	27	(5)	68	(13)	167	(31)	103	(19)
Finland	0	(0)	2	(0)	18	(3)	28	(5)	32	(6)
France	142	(2)	169	(3)	641	(10)	1 034	(15)	1 185	(18)
Germany	198	(2)	227	(2)	853	(9)	1 518	(15)	1 627	(16)
Greece	23	(2)	21	(2)	83	(9)	114	(12)	139	(15)
Ireland	21	(4)	18	(4)	58	(12)	75	(16)	55	(12)
Italy	74	(2)	77	(2)	389	(9)	734	(17)	614	(14)
Luxembourg	1	(2)	2	(5)	5	(12)	12	(29)	4	(10)
Netherlands	39	(3)	64	(4)	291	(19)	383	(25)	248	(16)
Portugal	53	(1)	118	(2)	556	(11)	1 121	(22)	1 102	(21)
Spain*	337	(4)	276	(3)	1 110	(13)	1 830	(22)	1 448	(17)
Sweden	2	(0)	9	(2)	64	(13)	118	(24)	69	(14)
United Kingdom	146	(2)	277	(4)	870	(14)	1 274	(20)	979	(16)
Subtotal EU	1 116	(2)	1 336	(3)	5 208	(11)	8 785	(18)	8 010	(17)
Andorra	0	(0)	0	(0)	0	(0)	2	(22)	3	(33)
Iceland	0	(0)	0	(0)	2	(17)	2	(17)	3	(25)
Israel	22	(4)	25	(5)	42	(8)	87	(17)	74	(14)
Malta	0	(0)	0	(0)	3	(14)	3	(14)	1	(5)
Monaco	0	(0)	0	(0)	0	(0)	0	(0)	1	(33)
Norway	9	(3)	16	(6)	40	(15)	58	(21)	40	(15)
San Marino	—	—	—	—	—	—	—	—	—	—
Switzerland	6	(1)	16	(2)	111	(14)	165	(21)	137	(18)
Total West	1 153	(2)	1 393	(3)	5 406	(11)	9 102	(18)	8 269	(17)
Centre										
Albania	12	(2)	36	(5)	87	(11)	134	(18)	153	(20)
Bosnia–Herzegovina	22	(1)	48	(2)	336	(11)	417	(14)	443	(14)
Bulgaria †	40	(1)	690	(21)	535	(17)	351	(11)	355	(11)
Croatia	35	(2)	88	(5)	154	(9)	177	(10)	297	(17)
Czech Republic	4	(0)	13	(1)	66	(4)	122	(7)	192	(12)
Hungary	11	(0)	12	(0)	147	(4)	376	(10)	776	(20)
Macedonia, FYR	55	(10)	67	(12)	65	(11)	86	(15)	84	(15)
Poland	34	(0)	74	(1)	671	(6)	1 190	(10)	2 594	(21)
Romania	463	(2)	873	(3)	4 194	(16)	5 024	(19)	5 761	(21)
Slovakia	6	(0)	15	(1)	50	(4)	94	(8)	167	(14)
Slovenia	3	(1)	7	(2)	26	(6)	58	(13)	101	(23)
Turkey	—	—	—	—	—	—	—	—	—	—
Yugoslavia ‡	7	(0)	17	(1)	206	(8)	351	(13)	471	(18)
Total Centre	692	(1)	1 940	(3)	6 537	(11)	8 380	(14)	11 394	(20)
East										
Armenia†	25	(2)	90	(6)	533	(37)	209	(15)	234	(16)
Azerbaijan	—	—	—	—	—	—	—	—	—	—
Belarus	—	—	—	—	—	—	—	—	—	—
Estonia	2	(0)	12	(2)	76	(10)	128	(17)	183	(24)
Georgia	137	(2)	294	(4)	1 117	(17)	1 182	(18)	1 286	(20)
Kazakhstan	601	(2)	1 859	(7)	4 588	(18)	5 190	(21)	4 056	(16)
Kyrgyzstan †	267	(4)	557	(9)	1 447	(23)	1 651	(26)	1 098	(17)
Latvia †	41	(2)	88	(5)	208	(12)	352	(21)	345	(21)
Lithuania	18	(1)	147	(5)	269	(9)	434	(15)	532	(18)
Moldova, Republic of †	33	(1)	45	(2)	581	(22)	632	(24)	617	(23)
Russian Federation †	2 080	(2) §	2 858	(2) §	20 515	(17)	30 475	(25)	29 843	(24)
Tajikistan	67	(3)	244	(10)	629	(25)	706	(28)	495	(19)
Turkmenistan †	56	(1)	711	(18)	813	(20)	1 047	(26)	779	(19)
Ukraine †	182	(1)	629	(2)	3 578	(13)	5 121	(19)	6 338	(23)
Uzbekistan†	124	(1)	2 033	(13)	3 010	(20)	4 606	(31)	2 304	(15)
Total East	3 633	(2)	9 567	(4)	37 364	(17)	51 733	(23)	48 110	(22)
Total WHO European Region	5 478	(2)	12 900	(4)	49 307	(15)	69 215	(21)	67 773	(21)

* Respiratory and meningeal cases only; † Age group provided on new cases only; ‡ Without Kosovo and Metohija; § The paediatric age groups are 0-6 and 7-14 years

TABLES

Table 5 (cont.). Tuberculosis cases by age group, 1999

Age group (years)										Total N	Geographic area Country
45 - 54		55 - 64		> 64		Unknown					
N	(%)	N	(%)	N	(%)	N	(%)				
West											
206	(17)	150	(12)	317	(26)	0	(0)	1 201	Austria		
190	(15)	141	(11)	373	(29)	0	(0)	1 270	Belgium		
63	(12)	37	(7)	52	(10)	0	(0)	536	Denmark		
69	(12)	69	(12)	348	(61)	0	(0)	566	Finland		
949	(14)	689	(10)	1 848	(28)	17	(0)	6 674	France		
1 342	(13)	1 489	(15)	2 720	(27)	0	(0)	9 974	Germany		
100	(11)	121	(13)	283	(30)	68	(7)	952	Greece		
57	(12)	62	(13)	122	(26)	1	(0)	469	Ireland		
501	(11)	527	(12)	1 387	(31)	126	(3)	4 429	Italy		
5	(12)	4	(10)	9	(21)	0	(0)	42	Luxembourg		
158	(10)	123	(8)	229	(15)	0	(0)	1 535	Netherlands		
717	(14)	559	(11)	934	(18)	0	(0)	5 160	Portugal		
926	(11)	694	(8)	1 429	(17)	343	(4)	8 393	Spain *		
40	(8)	30	(6)	161	(33)	0	(0)	493	Sweden		
679	(11)	698	(11)	1 356	(22)	8	(0)	6 287	United Kingdom		
6 002	(13)	5 393	(11)	11 568	(24)	563	(1)	47 981	Subtotal EU		
2	(22)	0	(0)	2	(22)	0	(0)	9	Andorra		
1	(8)	1	(8)	3	(25)	0	(0)	12	Iceland		
61	(12)	56	(11)	153	(29)	0	(0)	520	Israel		
1	(5)	6	(27)	8	(36)	0	(0)	22	Malta		
1	(33)	0	(0)	1	(33)	0	(0)	3	Monaco		
26	(10)	16	(6)	67	(25)	1	(0)	273	Norway		
–	–	–	–	–	–	–	–	0	San Marino		
78	(10)	62	(8)	197	(26)	0	(0)	772	Switzerland		
6 172	(12)	5 534	(11)	11 999	(24)	564	(1)	49 592	Total West		
Centre											
114	(15)	114	(15)	115	(15)	0	(0)	765	Albania		
410	(13)	488	(16)	831	(27)	80	(3)	3 075	Bosnia–Herzegovina		
411	(13)	358	(11)	487	(15)	15	(0)	3 242	Bulgaria †		
325	(18)	244	(14)	450	(25)	0	(0)	1 770	Croatia		
302	(19)	233	(14)	697	(43)	2	(0)	1 631	Czech Republic		
1 002	(26)	645	(16)	943	(24)	2	(0)	3 914	Hungary		
86	(15)	79	(14)	54	(9)	0	(0)	576	Macedonia		
2 910	(24)	1 770	(15)	2 936	(24)	0	(0)	12 179	Poland		
5 068	(19)	3 081	(11)	2 395	(9)	11	(0)	26 870	Romania		
232	(19)	204	(17)	450	(37)	0	(0)	1 218	Slovakia		
70	(16)	48	(11)	125	(29)	0	(0)	438	Slovenia		
–	–	–	–	–	–	–	–	–	Turkey		
498	(19)	408	(15)	649	(25)	39	(1)	2 646	Yugoslavia ‡		
11 428	(20)	7 672	(13)	10 132	(17)	149	(0)	58 324	Total Centre		
East											
160	(11)	102	(7)	70	(5)	11	(1)	1 434	Armenia†		
–	–	–	–	–	–	–	–	–	Azerbaijan		
–	–	–	–	–	–	–	–	–	Belarus		
173	(23)	95	(13)	85	(11)	0	(0)	754	Estonia		
819	(13)	1 183	(18)	528	(8)	0	(0)	6 546	Georgia		
2 310	(9)	1 928	(8)	522	(2)	4 006	(16)	25 060	Kazakhstan		
580	(9)	379	(6)	397	(6)	0	(0)	6 376	Kyrgyzstan †		
293	(18)	193	(12)	153	(9)	0	(0)	1 673	Latvia †		
492	(17)	439	(15)	505	(17)	67	(2)	2 903	Lithuania		
424	(16)	192	(7)	124	(5)	0	(0)	2 648	Moldova, Republic of†		
21 151	(17)	10 169	(8)	6 953	(6)	0	(0)	124 044	Russian Federation †		
201	(8)	119	(5)	91	(4)	1	(0)	2 553	Tajikistan		
302	(8)	190	(5)	112	(3)	0	(0)	4 010	Turkmenistan †		
4 964	(18)	3 581	(13)	2 725	(10)	0	(0)	27 118	Ukraine †		
1 338	(9)	881	(6)	784	(5)	0	(0)	15 087	Uzbekistan†		
33 207	(15)	19 451	(9)	13 049	(6)	4 085	(2)	220 206	Total East		
50 807	(15)	32 657	(10)	35 180	(11)	4 798	(1)	328 122	Total WHO European Region		

* Respiratory and meningeal cases only; † Age group provided on new cases only; ‡ Without Kosovo and Metohija

TABLES

Table 6. Tuberculosis cases by geographic origin, 1999

Geographic area Country	Information provided	Geographic origin						Total N
		Born in the country / national		Foreign-born / foreign citizen		Unknown		
		N	(%)	N	(%)	N	(%)	
West								
Austria	citizenship	889	(74)	312	(26)	0	(0)	1 201
Belgium	citizenship	809	(64)	454	(36)	7	(1)	1 270
Denmark	birthplace	164	(31)	372	(69)	0	(0)	536
Finland	birthplace	517	(91)	49	(9)	0	(0)	566
France	birthplace	3 237	(49)	1 932	(29)	1 505	(23)	6 674
Germany	citizenship	6 669	(67)	3 305	(33)	0	(0)	9 974
Greece	citizenship	704	(74)	116	(12)	132	(14)	952
Ireland	birthplace	404	(86)	65	(14)	0	(0)	469
Italy	birthplace	3 346	(76)	961	(22)	122	(3)	4 429
Luxembourg	birthplace	14	(33)	28	(67)	0	(0)	42
Netherlands	citizenship	603	(39)	898	(59)	34	(2)	1 535
Portugal	birthplace	4 406	(85)	325	(6)	429	(8)	5 160
Spain *	birthplace	3 259	(39)	151	(2)	4 983	(59)	8 393
Sweden	birthplace	174	(35)	319	(65)	0	(0)	493
United Kingdom †	birthplace	2 087	(33)	2 965	(47)	1 235	(20)	6 287
Subtotal EU		27 282	(57)	12 252	(26)	8 447	(18)	47 981
Andorra	birthplace	7	(78)	2	(22)	0	(0)	9
Iceland	birthplace	4	(33)	8	(67)	0	(0)	12
Israel	birthplace	71	(14)	449	(86)	0	(0)	520
Malta	birthplace	15	(68)	7	(32)	0	(0)	22
Monaco	citizenship	1	(33)	2	(67)	0	(0)	3
Norway	birthplace	93	(34)	180	(66)	0	(0)	273
San Marino	–	–	–	–	–	–	–	0
Switzerland	birthplace	269	(35)	469	(61)	34	(4)	772
Total West		27 742	(56)	13 369	(27)	8 481	(17)	49 592
Centre								
Albania	–	–	–	–	–	–	–	–
Bosnia–Herzegovina ‡	birthplace	3 065	(100)	9	(0)	1	(0)	3 075
Bulgaria	–	–	–	–	–	–	–	–
Croatia	birthplace	963	(54)	204	(12)	603	(34)	1 770
Czech Republic	birthplace	1 496	(92)	135	(8)	0	(0)	1 631
Hungary	birthplace	3 832	(98)	64	(2)	18	(0)	3 914
Macedonia, FYR §	–	–	–	–	–	–	–	–
Poland §	–	–	–	–	–	–	–	–
Romania	citizenship	26 868	(100)	2	(0)	0	(0)	26 870
Slovakia	birthplace	1 214	(100)	4	(0)	0	(0)	1 218
Slovenia	birthplace	335	(76)	103	(24)	0	(0)	438
Turkey §	–	–	–	–	–	–	–	–
Yugoslavia	–	–	–	–	–	–	–	–
Total Centre		37 773	(97)	521	(1)	622	(2)	38 916
East								
Armenia	–	–	–	–	–	–	–	–
Azerbaijan §	–	–	–	–	–	–	–	–
Belarus §	–	–	–	–	–	–	–	–
Estonia	birthplace	587	(78)	167	(22)	0	(0)	754
Georgia	–	–	–	–	–	–	–	–
Kazakhstan	–	–	–	–	–	–	–	–
Kyrgyzstan §	–	–	–	–	–	–	–	–
Latvia	birthplace	1 614	(96)	39	(2)	20	(1)	1 673
Lithuania	birthplace	2 699	(93)	146	(5)	58	(2)	2 903
Moldova, Republic of	citizenship	2 900	(98)	47	(2)	0	(0)	2 947
Russian Federation ¶	citizenship	123 903	(100)	141	(0)	0	(0)	124 044
Tajikistan	–	–	–	–	–	–	–	–
Turkmenistan §	–	–	–	–	–	–	–	–
Ukraine §	–	–	–	–	–	–	–	–
Uzbekistan §	–	–	–	–	–	–	–	–
Total East		131 467	(100)	540	(0)	78	(0)	132 321
Total WHO European Region		197 218	(89)	14 430	(7)	9 181	(4)	220 829

* Respiratory and meningeal cases only; † Except Scotland; ‡ Foreigners not included in TB notifications in Republic Srpska;

§ Foreigners not included in TB notifications (see Table 2); || Without Kosovo and Metohija; ¶ On new cases only;

TABLES

**Table 7. Foreign tuberculosis cases by continent of origin, 1999
(21 countries providing individual data)**

Geographic area Country	Information provided	Continent of origin										Total N
		Europe *		Asia*		Africa		America or Oceania		Unknown		
		N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	
West EU												
Austria	citizenship	247	(79)	34	(11)	29	(9)	2	(1)	0	(0)	312
Belgium	citizenship	155	(34)	53	(12)	228	(50)	18	(4)	0	(0)	454
Denmark	birthplace	55	(15)	96	(26)	208	(56)	12	(3)	0	(0)	371
Finland	birthplace	10	(20)	11	(22)	18	(37)	0	(0)	10	(20)	49
Ireland	birthplace	28	(43)	23	(35)	13	(20)	0	(0)	1	(2)	65
Italy	birthplace	163	(17)	186	(19)	492	(51)	82	(9)	38	(4)	961
Luxembourg	birthplace	26	(93)	2	(7)	0	(0)	0	(0)	0	(0)	28
Netherlands	citizenship	135	(15)	228	(25)	492	(55)	43	(5)	0	(0)	898
Sweden	birthplace	95	(30)	77	(24)	131	(41)	13	(4)	3	(1)	319
United Kingdom †	birthplace	188	(6)	1 533	(52)	771	(26)	74	(2)	399	(13)	2 965
West other												
Iceland	birthplace	0	(0)	5	(63)	2	(25)	1	(13)	0	(0)	8
Malta	birthplace	3	(43)	4	(57)	0	(0)	0	(0)	0	(0)	7
Norway	birthplace	31	(17)	62	(34)	85	(47)	2	(1)	0	(0)	180
Switzerland	birthplace	244	(52)	78	(17)	125	(27)	22	(5)	0	(0)	469
Centre												
Croatia ‡	birthplace	202	(99)	1	(0)	0	(0)	0	(0)	1	(0)	204
Czech Republic	birthplace	98	(73)	32	(24)	4	(3)	1	(1)	0	(0)	135
Hungary	birthplace	44	(69)	10	(16)	9	(14)	0	(0)	1	(2)	64
Romania	birthplace	0	(0)	2	(100)	0	(0)	0	(0)	0	(0)	2
Slovakia	birthplace	1	(25)	3	(75)	0	(0)	0	(0)	0	(0)	4
Slovenia	birthplace	101	(98)	1	(1)	1	(1)	0	(0)	0	(0)	103
East												
Estonia	birthplace	166	(99)	1	(1)	0	(0)	0	(0)	0	(0)	167
Total		1 992	(26)	2 442	(31)	2 608	(34)	270	(3)	453	(6)	7 765

* Europe corresponds to the WHO European Region. Armenia, Azerbaijan, Georgia, Israel, Kazakhstan, Kyrgyzstan, Tajikistan, Turkey, Turkmenistan and Uzbekistan included in Europe and not in Asia

† Except Scotland; ‡ Information on geographic origin missing for 603 cases (34%)

TABLES

Table 8. Tuberculosis cases by previous anti-TB treatment status, 1999

Geographic area Country	Previous anti-TB treatment status *						Total N
	Never treated		Previously treated		Unknown		
	N	(%)	N	(%)	N	(%)	
West							
Austria	1 085	(90)	25	(2)	91	(8)	1 201
Belgium †	983	(77)	146	(11)	141	(11)	1 270
Denmark †	502	(94)	34	(6)	0	(0)	536
Finland	473	(84)	34	(6)	59	(10)	566
France †	4 196	(63)	622	(9)	1 856	(28)	6 674
Germany	–	–	–	–	–	–	–
Greece	897	(94)	55	(6)	0	(0)	952
Ireland	158	(34)	23	(5)	288	(61)	469
Italy †	1 709	(39)	320	(7)	2 400	(54)	4 429
Luxembourg	38	(90)	4	(10)	0	(0)	42
Netherlands	1 459	(95)	54	(4)	22	(1)	1 535
Portugal	4 599	(89)	561	(11)	0	(0)	5 160
Spain ‡	6 177	(74)	387	(5)	1 829	(22)	8 393
Sweden	456	(92)	22	(4)	15	(3)	493
United Kingdom	4 287	(68)	463	(7)	1 537	(24)	6 287
Subtotal EU	27 019	(71)	2 750	(7)	8 238	(22)	38 007
Andorra	9	(100)	0	(0)	0	(0)	9
Iceland	8	(67)	4	(33)	0	(0)	12
Israel †	481	(93)	39	(8)	0	(0)	520
Malta	22	(100)	0	(0)	0	(0)	22
Monaco	3	(100)	0	(0)	0	(0)	3
Norway	212	(78)	61	(22)	0	(0)	273
San Marino	–	–	–	–	–	–	0
Switzerland	534	(69)	79	(10)	159	(21)	772
Total West	28 288	(71)	2 933	(7)	8 397	(21)	39 618
Centre							
Albania	722	(94)	43	(6)	0	(0)	765
Bosnia–Herzegovina	2 712	(88)	363	(12)	0	(0)	3 075
Bulgaria	3 242	(92)	288	(8)	0	(0)	3 530
Croatia	1 622	(92)	129	(7)	19	(1)	1 770
Czech Republic	1 431	(88)	61	(4)	139	(9)	1 631
Hungary	3 208	(82)	175	(4)	531	(14)	3 914
Macedonia, FYR	532	(92)	44	(8)	0	(0)	576
Poland	10 709	(88)	1 470	(12)	0	(0)	12 179
Romania	23 320	(87)	3 544	(13)	6	(0)	26 870
Slovakia	970	(80)	218	(18)	30	(2)	1 218
Slovenia	391	(89)	47	(11)	0	(0)	438
Turkey	18 752	(85)	3 336	(15)	0	(0)	22 088
Yugoslavia §	2 399	(91)	247	(9)	0	(0)	2 646
Total Centre	70 010	(87)	9 965	(12)	725	(1)	80 700
East							
Armenia	1 434	(96)	65	(4)	0	(0)	1 499
Azerbaijan	4 559	(98)	70	(2)	0	(0)	4 629
Belarus	6 729	(92)	610	(8)	0	(0)	7 339
Estonia	642	(85)	112	(15)	0	(0)	754
Georgia	4 478	(68)	2 068	(32)	0	(0)	6 546
Kazakhstan	20 912	(83)	4 148	(17)	0	(0)	25 060
Kyrgyzstan	6 376	(98)	125	(2)	0	(0)	6 501
Latvia	1 673	(85)	295	(15)	0	(0)	1 968
Lithuania	2 558	(88)	345	(12)	0	(0)	2 903
Moldova, Republic of	2 648	(90)	299	(10)	0	(0)	2 947
Russian Federation	124 044	(92)	11 010	(8)	0	(0)	135 054
Tajikistan	–	–	–	–	–	–	–
Turkmenistan	4 010	(98)	82	(2)	0	(0)	4 092
Ukraine	27 118	(82)	5 761	(18)	0	(0)	32 879
Uzbekistan	15 080	(89)	1 879	(11)	0	(0)	16 959
Total East	222 261	(89)	26 869	(11)	0	(0)	249 130
Total WHO European Region	320 559	(87)	39 767	(11)	9 122	(2)	369 448

* See technical note; † Information on previous anti-TB treatment not available; cases classified according to previous history of TB

‡ Respiratory and meningeal cases only; § Without Kosovo and Metohija

TABLES

Table 9. Tuberculosis cases by site of disease, 1999

Geographic area Country	Classification provided *	Site of disease						Total N
		Pulmonary / Respiratory		Extra-pulmonary / Extra-respiratory		Unknown		
		N	(%)	N	(%)	N	(%)	
West								
Austria	pulm	984	(82)	217	(18)	0	(0)	1 201
Belgium	pulm	957	(75)	311	(24)	2	(0)	1 270
Denmark	pulm	345	(64)	191	(36)	0	(0)	536
Finland	pulm	382	(67)	184	(33)	0	(0)	566
France	pulm	4 780	(72)	1 760	(26)	134	(2)	6 674
Germany	resp	8 297	(83)	1 677	(17)	0	(0)	9 974
Greece	pulm	827	(87)	125	(13)	0	(0)	952
Ireland	pulm	329	(70)	110	(23)	30	(6)	469
Italy	pulm	3 289	(74)	1 125	(25)	15	(0)	4 429
Luxembourg	pulm	41	(98)	1	(2)	0	(0)	42
Netherlands	pulm	959	(62)	576	(38)	0	(0)	1 535
Portugal	pulm	3 192	(62)	1 498	(29)	470	(9)	5 160
Spain	resp	6 481	(77)	83 †	(1) †	1 829	(22)	8 393
Sweden	pulm	343	(70)	150	(30)	0	(0)	493
United Kingdom	pulm ‡	3 758	(60)	2 245	(36)	284	(5)	6 287
Subtotal EU		34 964	(73)	10 253	(21)	2 764	(6)	47 981
Andorra	pulm	6	(67)	3	(33)	0	(0)	9
Iceland	pulm	9	(75)	3	(25)	0	(0)	12
Israel	pulm	369	(71)	151	(29)	0	(0)	520
Malta	pulm	19	(86)	3	(14)	0	(0)	22
Monaco	pulm	2	(67)	1	(33)	0	(0)	3
Norway	pulm	163	(60)	110	(40)	0	(0)	273
San Marino	–	–	–	–	–	–	–	0
Switzerland	pulm	565	(73)	207	(27)	0	(0)	772
Total West		36 097	(73)	10 731	(22)	2 764	(6)	49 592
Centre								
Albania	pulm	504	(66)	261	(34)	0	(0)	765
Bosnia-Herzegovina	pulm	2 749	(89)	326	(11)	0	(0)	3 075
Bulgaria	resp	3 265	(92)	265	(8)	0	(0)	3 530
Croatia	pulm	1 565	(88)	205	(12)	0	(0)	1 770
Czech Republic	resp	1 330	(82)	301	(18)	0	(0)	1 631
Hungary	pulm	3 682	(94)	232	(6)	0	(0)	3 914
Macedonia, FYR	resp	489	(85)	87	(15)	0	(0)	576
Poland	resp	11 641	(96)	538	(4)	0	(0)	12 179
Romania	pulm	23 149	(86)	3 718	(14)	3	(0)	26 870
Slovakia	pulm	993	(82)	225	(18)	0	(0)	1 218
Slovenia	pulm	362	(83)	75	(17)	1	(0)	438
Turkey §	resp	18 314	(83)	3 774	(17)	0	(0)	22 088
Yugoslavia	resp	2 517	(95)	129	(5)	0	(0)	2 646
Total Centre		70 560	(87)	10 136	(13)	4	(0)	80 700
East								
Armenia	pulm	1 232	(82)	267	(18)	0	(0)	1 499
Azerbaijan	resp	3 693	(80)	936	(20)	0	(0)	4 629
Belarus	resp	6 869	(94)	470	(6)	0	(0)	7 339
Estonia	pulm	687	(91)	67	(9)	0	(0)	754
Georgia	pulm	4 827	(74)	1 719	(26)	0	(0)	6 546
Kazakhstan	resp	22 560	(90)	2 500	(10)	0	(0)	25 060
Kyrgyzstan §	resp	5 818	(91)	558	(9)	0	(0)	6 376
Latvia	resp	1 867	(95)	101	(5)	0	(0)	1 968
Lithuania	pulm	2 273	(78)	630	(22)	0	(0)	2 903
Moldova, Republic of	resp	2 530	(86)	417	(15)	0	(0)	2 947
Russian Federation §	resp	118 709	(96)	5 335	(4)	0	(0)	124 044
Tajikistan	resp	–	–	–	–	–	–	–
Turkmenistan	resp	3 889	(95)	203	(5)	0	(0)	4 092
Ukraine	resp	31 187	(95)	1 692	(5)	0	(0)	32 879
Uzbekistan	resp	15 195	(90)	1 764	(10)	0	(0)	16 959
Total East		221 336	(94)	16 659	(7)	0	(0)	237 995
Total WHO European Region		327 993	(89)	37 526	(10)	2 768	(1)	368 287

* pulm= pulmonary; resp=respiratory (see technical note); † Meningeal cases only;

‡ Respiratory classification for Scotland; § Information provided on new cases only; || Without Kosovo and Metohija

TABLES

**Table 10. Sites of disease* among tuberculosis cases, by age group, 1999,
(15 countries providing individual data†)**

Site of disease	Age group (years)							
	0-14 (N=2 224)		15-44 (N=23 991)		45 and over (N=22 293)		Total ‡ (N=48 656)	
	N	(%)	N	(%)	N	(%)	N	(%)
Lungs/tracheobronchial tree	1 638	(73.7)	19 532	(81.4)	18 508	(83.0)	39 678	(81.5)
Extrapulmonary								
Pleura	204	(9.2)	2 675	(11.2)	1 682	(7.5)	4 561	(9.4)
Intrathoracic lymphnodes	147	(6.6)	332	(1.4)	211	(0.9)	690	(1.4)
Extrathoracic lymphnodes	142	(6.4)	1 024	(4.3)	684	(3.1)	1 850	(3.8)
Spine	17	(0.8)	158	(0.7)	199	(0.9)	374	(0.8)
Bone/joint other than spine	31	(1.4)	150	(0.6)	246	(1.1)	427	(0.9)
Meninges	96	(4.3)	120	(0.5)	100	(0.4)	316	(0.6)
CNS § other than meninges	3	(0.1)	34	(0.1)	16	(0.1)	53	(0.1)
Genito-urinary	10	(0.4)	242	(1.0)	585	(2.6)	837	(1.7)
Peritoneal / digestive	12	(0.5)	186	(0.8)	139	(0.6)	337	(0.7)
Disseminated	18	(0.8)	141	(0.6)	154	(0.7)	313	(0.6)
Other	54	(2.4)	350	(1.5)	520	(2.3)	924	(1.9)
Unknown	38	(1.7)	150	(0.6)	117	(0.5)	305	(0.6)

* The Table shows numbers of sites; total column percentages exceed 100% because in some cases one major and one minor site of disease were reported (see technical note).

† Austria, Belgium, Croatia, Estonia, Iceland, Hungary, Italy, Luxembourg, Malta, Norway, Romania, Slovakia, Slovenia, Switzerland, United Kingdom (except Scotland)

‡ Includes 148 cases with unknown age;

§ CNS = Central Nervous System

|| Includes miliary TB, TB of more than two organ systems or isolate of *M. tuberculosis* complex from the blood

TABLES

Table 11. Tuberculosis cases by culture result, 1999

Geographic origin Country	Culture routinely performed	Criteria for “definite” TB case*	Culture result				Total
			Positive		Negative / unknown / not done		
			N	(%)	N	(%)	
West							
Austria	yes	C & S	756	(63)	445	(37)	1 201
Belgium	yes	C & S	926	(73)	344	(27)	1 270
Denmark	yes	C	428	(80)	108	(20)	536
Finland	yes	C	477	(84)	89	(16)	566
France	yes	C	1 683	(25)	4 991	(75)	6 674
Germany †	yes	C & S	3 963	(67)	1 982	(33)	5 945
Greece	in some areas	C & S	396	(42)	556	(58)	952
Ireland	yes	C	260	(55)	209	(45)	469
Italy ‡	in some areas	C & S	2 164	(49)	2 265	(51)	4 429
Luxembourg	yes	C	42	(100)	0	(0)	42
Netherlands	yes	C	943	(61)	592	(39)	1 535
Portugal	yes	C	1 624	(31)	3 536	(69)	5 160
Spain §	yes	C & S	3 817	(45)	4 576	(55)	8 393
Sweden	yes	C	412	(84)	81	(16)	493
United Kingdom	yes	C	3 400	(54)	2 887	(46)	6 287
Subtotal EU			21 291	(48)	22 661	(52)	43 952
Andorra	yes	C	6	(67)	3	(33)	9
Iceland	yes	C	8	(67)	4	(33)	12
Israel	yes	C	331	(64)	189	(36)	520
Malta	yes	C	13	(59)	9	(41)	22
Monaco	yes	C	2	(67)	1	(33)	3
Norway	yes	C	186	(68)	87	(32)	273
San Marino	yes	C	–	–	–	–	0
Switzerland	yes	C	615	(80)	157	(20)	772
Total West			22 452	(49)	23 111	(51)	45 563
Centre							
Albania	no	C	215	(28)	550	(72)	765
Bosnia-Herzegovina	in some areas	C & S	1 748	(57)	1 327	(43)	3 075
Bulgaria	in some areas	C	–	–	–	–	–
Croatia †	yes	C	866	(70)	368	(30)	1 234
Czech Republic	yes	C	830	(51)	801	(49)	1 631
Hungary	yes	C	1 206	(31)	2 708	(69)	3 914
Macedonia, FYR	in some areas	C & S	–	–	–	–	–
Poland	yes	C	6 700	(55)	5 479	(45)	12 179
Romania	in some areas	C & S	13 495	(50)	13 375	(50)	26 870
Slovakia	yes	C	645	(53)	573	(47)	1 218
Slovenia	yes	C	350	(80)	88	(20)	438
Turkey	no	C & S	–	–	–	–	–
Yugoslavia	yes	C & S	–	–	–	–	–
Total Centre			26 055	(51)	25 269	(49)	51 324
East							
Armenia	in some areas	C & S	576	(38)	923	(62)	1 499
Azerbaijan	in some areas	C & S	210	(5)	4 419	(95)	4 629
Belarus	yes	C & S	–	–	–	–	–
Estonia	yes	C	528	(70)	226	(30)	754
Georgia	no	C & S	1 147	(18)	5 399	(82)	6 546
Kazakhstan	in some areas	C & S	–	–	–	–	–
Kyrgyzstan	in some areas	C & S	–	–	–	–	–
Latvia	yes	C	1 227	(62)	741	(38)	1 968
Lithuania	yes	C	1 420	(49)	1 483	(51)	2 903
Moldova, Republic of	in some areas	C & S	1 026	(35)	1 921	(65)	2 947
Russian Federation	yes	C & S	–	–	–	–	–
Tajikistan	in some areas	C & S	–	–	–	–	–
Turkmenistan	in some areas	C & S	–	–	–	–	–
Ukraine	in some areas	C & S	–	–	–	–	–
Uzbekistan	yes	C & S	–	–	–	–	–
Total East			6 134	(29)	15 112	(71)	21 246
Total WHO European Region			54 641	(46)	63 492	(54)	118 133

* C = culture positive; C & S = culture or sputum smear positive (see technical note); † Results from a national sample of TB cases notified;

‡ Available only on pulmonary cases (n= 3 289); § Respiratory and meningeal cases only

TABLES

Table 12. Tuberculosis cases by culture result and site of disease, 1999
(countries providing individual data)

Country	Culture done						Culture not done		Unknown		Total N
	Positive		Negative		Result unknown						
	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	
a) Pulmonary cases											
West											
Austria	651	(66)	0	(0)	0	(0)	333	(34)	0	(0)	984
Belgium	760	(79)	104	(11)	11	(1)	0	(0)	82	(9)	957
Denmark	286	(83)	59	(17)	0	(0)	0	(0)	0	(0)	345
Finland	345	(90)	0	(0)	0	(0)	0	(0)	37	(10)	382
France	1 500	(31)	270	(6)	1 508	(32)	0	(0)	1 502	(31)	4 780
Iceland	7	(78)	2	(22)	0	(0)	0	(0)	0	(0)	9
Ireland	202	(61)	85	(26)	0	(0)	6	(2)	36	(11)	329
Italy	2 164	(66)	260	(8)	322	(10)	0	(0)	543	(17)	3 289
Luxembourg	41	(100)	0	(0)	0	(0)	0	(0)	0	(0)	41
Malta	12	(63)	4	(21)	0	(0)	3	(16)	0	(0)	19
Netherlands	613	(64)	24	(3)	3	(0)	15	(2)	304	(32)	959
Norway	106	(65)	33	(20)	0	(0)	0	(0)	24	(15)	163
Sweden	283	(83)	44	(13)	0	(0)	6	(2)	10	(3)	343
Switzerland	447	(79)	0	(0)	0	(0)	92	(16)	26	(5)	565
United Kingdom *	2 026	(60)	107	(3)	371	(11)	89	(3)	787	(23)	3 380
Total West	9 443	(57)	992	(6)	2 215	(13)	544	(3)	3 351	(20)	16 545
Centre											
Croatia †	805	(74)	274	(25)	0	(0)	9	(1)	4	(0)	1 092
Czech Republic ‡	830	(62)	396	(30)	74	(6)	4	(0)	26	(2)	1 330
Hungary	1 183	(32)	1 477	(40)	120	(3)	545	(15)	357	(10)	3 682
Romania	13 210	(57)	4 258	(18)	5 271	(23)	410	(2)	0	(0)	23 149
Slovakia	591	(60)	388	(39)	0	(0)	4	(0)	10	(1)	993
Slovenia	312	(86)	32	(9)	0	(0)	15	(4)	3	(1)	362
Total Centre	16 931	(55)	6 825	(22)	5 465	(18)	987	(3)	400	(1)	30 608
East											
Estonia	507	(74)	179	26	0	0	1	0	0	0	687
Total pulmonary cases	26 881	(57)	7 817	(17)	7 680	(16)	1 531	(3)	3 751	(8)	47 153
b) Extrapulmonary cases											
West											
Austria	105	(48)	0	(0)	0	(0)	112	(52)	0	(0)	217
Belgium	166	(53)	22	(7)	3	(1)	0	(0)	120	(39)	311
Denmark	142	(74)	49	(26)	0	(0)	0	(0)	0	(0)	191
Finland	132	(72)	0	(0)	0	(0)	0	(0)	52	(28)	184
France	169	(10)	326	(19)	520	(30)	0	(0)	745	(42)	1 760
Iceland	1	(33)	1	(33)	0	(0)	0	(0)	1	(33)	3
Ireland	57	(52)	27	(25)	0	(0)	6	(5)	20	(18)	110
Italy §	–	–	–	–	–	–	–	–	–	–	–
Luxembourg	1	(100)	0	(0)	0	(0)	0	(0)	0	(0)	1
Malta	1	(33)	2	(67)	0	(0)	0	(0)	0	(0)	3
Netherlands	330	(57)	24	(4)	2	(0)	16	(3)	204	(35)	576
Norway	80	(73)	12	(11)	0	(0)	0	(0)	18	(16)	110
Sweden	129	(86)	13	(9)	0	(0)	5	(3)	3	(2)	150
Switzerland	168	(81)	0	(0)	0	(0)	23	(11)	16	(8)	207
United Kingdom *	985	(46)	74	(3)	356	(17)	65	(3)	647	(30)	2 127
Total West	2466	(41)	550	(9)	881	(15)	227	(4)	1 826	(31)	5 950
Centre											
Croatia †	61	(43)	75	(53)	1	(1)	5	(4)	0	(0)	142
Czech Republic ‡	0	(0)	260	(86)	0	(0)	0	(0)	41	(14)	301
Hungary	23	(10)	69	(30)	7	(3)	115	(50)	18	(8)	232
Romania	282	(8)	1 098	(30)	909	(24)	1 429	(38)	0	(0)	3 718
Slovakia	54	(24)	150	(67)	0	(0)	11	(5)	10	(4)	225
Slovenia	38	(51)	23	(31)	0	(0)	12	(16)	2	(3)	75
Total Centre	458	(10)	1 675	(36)	917	(20)	1 572	(33)	71	(2)	4 693
East											
Estonia	21	(31)	46	(69)	0	(0)	0	(0)	0	(0)	67
Total extrapulmonary cases	2 945	(27)	2 271	(21)	1 798	(17)	1 799	(17)	1 897	(18)	10 710

* Without Scotland; † Results from a national sample of TB cases notified; ‡ Respiratory classification; § Culture results not available for extra-pulmonary cases

TABLES

Table 13. Tuberculosis cases by *M. tuberculosis* complex species, 1999

Geographic area	M. tuberculosis complex species								Total*
	M. tuberculosis		M. bovis		M. africanum		Unknown / not done		
	N	(%)	N	(%)	N	(%)	N	(%)	
Country									
West									
Austria	372	(49.2)	–	(0.1)	0	(0.0)	383	(50.7)	756
Belgium	865	(93.4)	5	(0.5)	2	(0.2)	54	(5.8)	926
Denmark †	428	(100.0)	0	–	0	–	0	–	428
Finland	477	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	477
Germany ‡	3 807	(95.6)	51	(1.3)	28	(0.7)	97	(2.4)	3 983
Greece	184	(46.6)	0	(0.0)	0	(0.0)	211	(53.4)	395
Ireland	242	(93.1)	11	(4.2)	0	(0.0)	7	(2.7)	260
Italy	1 420	(65.6)	2	(0.1)	6	(0.3)	736	(34.0)	2 164
Luxembourg	33	(78.6)	0	(0.0)	0	(0.0)	9	(21.4)	42
Netherlands	930	(98.6)	12	(1.3)	1	(0.1)	0	(0.0)	943
Sweden	410	(99.5)	2	(0.5)	0	(0.0)	0	(0.0)	412
United Kingdom	3 168	(91.1)	34	(1.0)	14	(0.4)	261	(7.5)	3 477
Subtotal EU	12 336	(86.5)	118	(0.8)	51	(0.4)	1 758	(12.3)	14 263
Andorra	5	(83.3)	0	(0.0)	0	(0.0)	1	(16.7)	6
Iceland	8	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	8
Norway	185	(99.5)	1	(0.5)	0	(0.0)	0	(0.0)	186
Switzerland	533	(86.7)	11	(1.8)	3	(0.5)	68	(11.1)	615
Total West	13 067	(86.7)	130	(0.9)	54	(0.4)	1 827	(12.1)	15 078
Centre									
Bosnia-Herzegovina	1 748	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	1 748
Czech Republic	700	(84.3)	1	(0.1)	0	(0.0)	129	(15.5)	830
Hungary	1 181	(97.9)	0	(0.0)	0	(0.0)	25	(2.1)	1 206
Macedonia, FYR	133	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	133
Romania	12 331	(91.5)	0	(0.0)	0	(0.0)	1 148	(8.5)	13 479
Slovakia	579	(89.8)	0	(0.0)	0	(0.0)	66	(10.2)	645
Slovenia	349	(99.7)	0	(0.0)	0	(0.0)	1	(0.3)	350
Total Centre	17 021	(92.6)	1	(0.0)	0	(0.0)	1 369	(7.4)	18 391
East §									
Latvia	1 015	(89.3)	0	(0.0)	0	(0.0)	122	(10.7)	1 137
Total	31 103	(89.9)	131	(0.4)	54	(0.2)	3 318	(9.6)	34 606

* May differ from Total in Table 11 due to later data collection;

† *M. bovis* and *M. africanum* not notifiable until 2000;

‡ National sample of notified TB cases;

§ Data collected only from Baltic countries

TABLES

Table 14. Pulmonary/respiratory tuberculosis cases, by sputum smear result, 1999

Geographic area Country	Classification by site*	Routine use of sputum smear	Sputum smear result				Total N
			Positive		Negative / unknown / not done		
			N	(%)	N	(%)	
West							
Austria	pulm	yes	352	(36)	632	(64)	984
Belgium	pulm	yes	417	(44)	540	(56)	957
Denmark	pulm	yes	113	(33)	232	(67)	345
Finland	pulm	yes	180	(47)	202	(53)	382
France	pulm	yes	2 631	(55)	2 149	(45)	4 780
Germany	resp	yes	2 954	(36)	5 343	(64)	8 297
Greece	pulm	some areas	412	(50)	415	(50)	827
Ireland	pulm	yes	124	(38)	205	(62)	329
Italy	pulm	some areas	1 637	(50)	1 652	(50)	3 289
Luxembourg	pulm	yes	8	(20)	33	(80)	41
Netherlands	pulm	yes	345	(36)	614	(64)	959
Portugal	pulm	yes	1 801	(56)	1 391	(44)	3 192
Spain	resp	yes	3 179	(49)	3 302	(51)	6 481
Sweden	pulm	yes	129	(38)	214	(62)	343
United Kingdom	pulm †	yes	1 052	(28)	2 706	(72)	3 758
Subtotal EU			15 334	(44)	19 630	(56)	34 964
Andorra	pulm	yes	3	(50)	3	(50)	6
Iceland	pulm	yes	4	(44)	5	(56)	9
Israel	pulm	yes	190	(51)	179	(49)	369
Malta	pulm	yes	5	(26)	14	(74)	19
Monaco	pulm	yes	2	(100)	0	(0)	2
Norway	pulm	yes	34	(21)	129	(79)	163
San Marino	–	yes	–	–	–	–	0
Switzerland	pulm	yes	130	(23)	435	(77)	565
Total West			15 702	(43)	20 395	(57)	36 097
Centre							
Albania	pulm	some areas	184	(37)	320	(63)	504
Bosnia–Herzegovina	pulm	some areas	931	(34)	1 818	(66)	2 749
Bulgaria	resp	yes	1 985	(61)	1 280	(39)	3 265
Croatia ‡	pulm	yes	541	(50)	551	(50)	1 092
Czech Republic	resp	yes	410	(31)	920	(69)	1 330
Hungary	pulm	yes	826	(22)	2 856	(78)	3 682
Macedonia, FYR	resp	some areas	–	–	–	–	–
Poland	resp	yes	4 636	(40)	7 005	(60)	11 641
Romania	pulm	yes	12 788	(55)	10 361	(45)	23 149
Slovakia	pulm	yes	307	(31)	686	(69)	993
Slovenia	pulm	yes	191	(53)	171	(47)	362
Turkey §	resp	no	7 460	(41)	10 854	(59)	18 314
Yugoslavia	resp	yes	–	–	–	–	–
Total Centre			30 259	(45)	36 822	(55)	67 081
East							
Armenia	pulm	yes	641	(52)	591	(48)	1 232
Azerbaijan	resp	yes	763	(21)	2 930	(79)	3 693
Belarus	resp	yes	–	–	–	–	–
Estonia	pulm	yes	305	(44)	382	(56)	687
Georgia	pulm	yes	1 399	(29)	3 428	(71)	4 827
Kazakhstan	resp	yes	9 801	(43)	12 759	(57)	22 560
Kyrgyzstan §	resp	yes	1 642	(28)	4 176	(72)	5 818
Latvia	resp	yes	780	(42)	1 087	(58)	1 867
Lithuania	pulm	yes	984	(43)	1 289	(57)	2 273
Moldova, Republic of	resp	no	764	(30)	1 766	(70)	2 530
Russian Federation	resp	yes	–	–	–	–	–
Tajikistan	resp	some areas	–	–	–	–	–
Turkmenistan §	resp	yes	992	(26)	2 897	(74)	3 889
Ukraine	resp	yes	–	–	–	–	–
Uzbekistan	resp	yes	4 096	(27)	11 099	(73)	15 195
Total East			22 167	(34)	42 404	(66)	64 571
Total WHO European Region			68 128	(41)	99 621	(59)	167 749

* pulm= pulmonary; resp=respiratory (see technical note); † Respiratory classification for Scotland; ‡ Results from a national sample of TB cases notified § Provided on new cases only

TABLES

**Table 15. Laboratory practices for drug susceptibility testing (DST), 1999
(34 countries which provided DST results in 1999 *)**

Geographic area Country	No. labs. performing DST	DST methods used				Proficiency testing			
		proportion (non radiometric)	proportion (radiometric)	resistance ratio	absolute concentr.	National	International		
						No. labs	% agreement of results for:		
							INH †	RMP ‡	
West									
Andorra	1	–	–	–	–	na	–	na	–
Austria	9	yes	yes	no	no	yes	2	no	–
Denmark	1	no	yes	no	no	yes	1	yes	85 100
Finland	2	yes	yes	no	no	yes	1	yes ‡	100 100
France	20	yes	yes	no	no	no	–	yes	100 100
Germany	80	yes	yes	no	no	yes	60	yes	100 90
Greece	3	yes	yes	no	no	no	–	no	–
Iceland §	0	–	–	–	–	–	–	–	–
Ireland	8	yes	yes	yes	yes	yes	8	na	–
Israel	2	no	yes	yes	no	yes	2	yes	100 100
Malta	0	–	–	–	–	–	–	–	–
Netherlands	15	yes	no	no	no	no	–	yes	100 100
Norway	3	yes	yes	no	no	no	–	yes ‡	100 100
Spain	30	yes	no	no	no	na	–	no	–
Sweden	5	yes	yes	no	no	yes	5	yes	–
Switzerland	42	yes	yes	no	no	yes	12	yes	99 100
United Kingdom	7	no	yes	yes	yes	yes	6	yes	100 100
Centre									
Albania	1	yes	no	no	no	no	–	yes	65 90
Bosnia–Herzegovina	7	yes	yes	no	no	yes	7	no	–
Croatia #	–	–	–	–	–	–	–	–	–
Czech Republic	14	yes	yes	no	no	yes	14	yes	100 100
Hungary	14	yes	yes	no	yes	no	–	yes	100 100
Romania	47	no	no	no	yes	no	–	yes ¶	–
Slovakia	6	yes	yes	no	no	yes	6	yes	100 99
Slovenia	1	yes	no	no	no	yes	1	yes	100 100
Yugoslavia	12	yes	no	no	no	no	–	no	–
East									
Armenia	1	yes	no	no	no	no	–	no	–
Estonia	2	–	–	–	–	yes	2	yes	100 100
Kazakhstan	18	no	no	no	yes	no	–	na	–
Kyrgyzstan	1	yes	no	no	no	yes	1	no	–
Latvia	1	no	yes	no	yes	yes	1	yes	90 100
Lithuania	8	yes	no	no	no	yes	8	yes	100 100
Russian Federation	140	no	no	no	yes	no	–	no	–
Ukraine	27	yes	no	no	yes	yes	1	no	–

na = not available

* For 7 countries, laboratory practices were provided but no DST results (Belgium, Italy, Bulgaria, Macedonia, Poland, Azerbaijan & Tadjikistan)

† INH = isoniazid; RMP = rifampicin;

‡ last done in 1998

§ Done in Denmark;

|| Done in the United Kingdom;

¶ last done in 1995

Information not available

TABLES

Table 16. Diagnostic practices and type of drug resistance surveillance, 1999

Geographic area Country	Culture performed routinely	DST * performed routinely	Geographic Coverage	Source of cases included	Culture positive cases	Cases with DST result	
						N	%
Group A: culture and DST * performed routinely; national data on notified TB cases							
West							
Andorra	yes	yes	national	TB notifications	6	6	(100)
Austria	yes	yes	national	TB notifications	756	756	(100)
Denmark	yes	yes	national	TB notifications	428	416	(97)
Finland	yes	yes	national	TB notifications	477	450	(94)
Germany	yes	yes	national †	TB notifications	4 023	3 356	(83)
Iceland	yes	yes	national	TB notifications	8	8	(100)
Ireland	yes	yes	national	TB notifications	260	260	(100)
Israel	yes	yes	national	TB notifications	331	331	(100)
Malta	yes	yes	national	TB notifications	13	13	(100)
Netherlands	yes	yes	national	TB notifications	943	941	(100)
Norway	yes	yes	national	TB notifications	186	184	(99)
Sweden	yes	yes	national	TB notifications	412	408	(99)
Switzerland	yes	yes	national	TB notifications	615	611	(99)
United Kingdom	yes	yes	national	TB notifications	3 384	3 168	(94)
Centre							
Bosnia-Herzegovina	yes	yes	national	TB notifications	1748	1 349	(77)
Croatia	yes	yes	national †	TB notifications	861	861	(100)
Czech Republic	yes	yes	national	TB notifications	830	698	(84)
Slovakia	yes	yes	national	TB notifications	645	578	(90)
Slovenia	yes	yes	national	TB notifications	350	339	(97)
East							
Estonia	yes	yes	national	TB notifications	524	517	(99)
Latvia	yes	yes	national	TB notifications	1 227	1 015	(83)
Lithuania	yes	yes	national	TB notifications	1 420	986	(69)
Group B: culture or DST * not routinely performed or data available on selected TB cases or areas							
West							
France	yes	yes	12/23 regions	20 university hospitals	1 112	1 102	(99)
Greece	no	no	some regions	all laboratories (n=3)	na	750	–
Spain	yes	yes	national	national reference lab.	na	514	–
Centre							
Albania	yes	no	some areas	TB notifications	215	152	(71)
Hungary	no	no	national	TB notifications	1 206	559	(46)
Romania	no	no	national	TB notifications	13 479	2 542	(19)
Yugoslavia	yes	yes	Belgrade reg.	TB notifications	331	331	(100)
East							
Armenia	no	no	some areas	national reference lab.	na	167	–
Kazakhstan	no	no	national	all laboratories (n=18)	na	4 496	–
Kyrgyzstan	no	no	na	national reference lab.	na	318	–
Russian Federation	yes	yes	national	TB notifications ‡	na	36 217	–
Ukraine	no	yes	Kiev region	one laboratory (Kiev)	na	484	–

na = information not available;

* Drug susceptibility testing;

† National sample of notified TB cases

‡ New respiratory TB cases notified to the Ministry of Health (N= 82 175)

TABLES

Table 17. Global drug resistance at the start of treatment, tuberculosis cases, 1999

Geographic area Country	Cases with DST * result	Cases resistant to at least:									
		Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (multidrug resistant)		Ethambutol		Streptomycin	
		N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A: culture and DST * performed routinely; national data on notified TB cases											
West											
Andorra	6	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Austria	756	37	(4.9)	8	(1.1)	5	(0.7)	2	(0.3)	–	–
Denmark	416	31	(7.5)	1	(0.2)	0	(0.0)	1	(0.2)	56	(13.5)
Finland	450	3	(0.7)	0	(0.0)	0	(0.0)	6	(1.3)	–	–
Germany †	3 356	187	(5.6)	52	(1.5)	41	(1.2)	–	–	–	–
Iceland	8	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Ireland	260	10	(3.8)	2	(0.8)	2	(0.8)	0	(0.0)	1	(0.4)
Israel	331	44	(13.3)	28	(8.5)	26	(7.9)	8	(2.4)	46	(13.9)
Malta	13	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Netherlands	941	55	(5.8)	8	(0.9)	4	(0.4)	4	(0.4)	42	(4.5)
Norway	184	11	(6.0)	3	(1.6)	3	(1.6)	4	(2.2)	–	–
Sweden	408	42	(10.3)	9	(2.2)	7	(1.7)	3	(0.7)	–	–
Switzerland	611	40	(6.6)	13	(2.1)	11	(1.8)	7	(1.1)	–	–
United Kingdom	3 168	182	(5.7)	24	(0.8)	21	(0.7)	16	(0.5)	–	–
Centre											
Bosnia-Herzegovina	1 349	18	(1.3)	24	(1.8)	7	(0.5)	21	(1.6)	24	(1.8)
Croatia †	861	18	(2.1)	9	(1.0)	5	(0.6)	1	(0.1)	10	(1.2)
Czech Republic	698	15	(2.1)	8	(1.1)	4	(0.6)	7	(1.0)	10	(1.4)
Slovakia	575	14	(2.4)	10	(1.7)	6	(1.0)	6	(1.0)	9	(1.6)
Slovenia	339	9	(2.7)	2	(0.6)	2	(0.6)	1	(0.3)	5	(1.5)
East											
Estonia	517	165	(31.9)	119	(23.0)	118	(22.8)	90	(17.4)	161	(31.1)
Latvia	1 015	289	(28.5)	139	(13.7)	137	(13.5)	53	(5.2)	256	(25.2)
Lithuania	986	268	(27.2)	160	(16.2)	135	(13.7)	62	(6.3)	219	(22.2)
Group B: culture or DST * not routinely performed or data available on selected TB cases or areas (see Tab. 16)											
West											
France	1 102	52	(4.7)	17	(1.5)	15	(1.4)	5	(0.5)	86	(7.8)
Greece	750	113	(15.1)	70	(9.3)	55	(7.3)	55	(7.3)	103	(13.7)
Spain ‡	–	–	–	–	–	–	–	–	–	–	–
Centre											
Albania	152	9	(5.9)	10	(6.6)	5	(3.3)	2	(1.3)	17	(11.2)
Hungary	559	52	(9.3)	19	(3.4)	15	(2.7)	8	(1.4)	37	(6.6)
Romania	2 542	289	(11.4)	174	(6.8)	125	(4.9)	17	(0.7)	221	(8.7)
Yugoslavia	331	4	(1.2)	3	(0.9)	2	(0.6)	4	(1.2)	16	(4.8)
East											
Armenia	167	22	(13.2)	30	(18.0)	11	(6.6)	25	(15.0)	49	(29.3)
Kazakhstan	4 496	1 496	(33.3)	903	(20.1)	621	(13.8)	985	(21.5)	1 834	(40.8)
Kyrgyzstan	318	115	(36.2)	78	(24.5)	59	(18.6)	66	(20.8)	165	(51.9)
Russian Federation ‡	–	–	–	–	–	–	–	–	–	–	–
Ukraine	484	116	(24.0)	102	(21.1)	86	(17.8)	10	(2.1)	110	(22.7)

* Drug susceptibility testing;

† National sample of notified TB cases;

‡ Data available on new cases only

TABLES

Table 18. Drug resistance at the start of treatment, tuberculosis cases never treated with anti-TB drugs, 1999

Geographic area Country	Cases with DST result	Cases resistant to at least:									
		Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (multidrug resistant)		Ethambutol		Streptomycin	
		N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A: culture and DST * performed routinely and national data linked to TB notifications											
West											
Andorra	6	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Austria	703	30	(4.3)	5	(0.7)	2	(0.3)	2	(0.3)	–	–
Denmark	392	29	(7.4)	1	(0.3)	0	(0.0)	1	(0.3)	52	(13.3)
Finland	371	2	(0.5)	0	(0.0)	0	(0.0)	6	(1.6)	–	–
Germany †	2 206	94	(4.3)	23	(1.0)	18	(0.8)	–	–	–	–
Iceland	7	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Ireland	101	2	(2.0)	1	(1.0)	1	(1.0)	1	(1.0)	1	(1.0)
Israel	–	–	–	–	–	–	–	–	–	–	–
Malta	13	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Netherlands	899	52	(5.8)	7	(0.8)	4	(0.4)	4	(0.4)	42	(4.7)
Norway	144	11	(7.6)	3	(2.1)	3	(2.1)	3	(2.1)	–	–
Sweden	377	35	(9.3)	5	(1.3)	3	(0.8)	1	(0.3)	–	–
Switzerland	428	24	(5.6)	4	(0.9)	3	(0.7)	4	(0.9)	–	–
United Kingdom ‡	2 138	133	(6.2)	11	(0.5)	10	(0.5)	11	(0.5)	–	–
Centre											
Bosnia–Herzegovina	1 154	7	(0.6)	9	(0.8)	3	(0.3)	11	(1.0)	14	(1.2)
Croatia †	761	14	(1.8)	4	(0.5)	2	(0.3)	1	(0.1)	9	(1.2)
Czech Republic	628	10	(1.6)	5	(0.8)	2	(0.3)	4	(0.6)	6	(1.0)
Slovakia	456	8	(1.8)	5	(1.1)	3	(0.7)	3	(0.7)	7	(1.5)
Slovenia	304	7	(2.3)	0	(0.0)	0	(0.0)	0	(0.0)	3	(1.0)
East											
Estonia	428	117	(27.3)	76	(17.8)	75	(17.5)	60	(14.0)	117	(27.3)
Latvia	825	229	(27.8)	86	(10.4)	86	(10.4)	35	(4.2)	200	(24.2)
Lithuania	819	178	(21.7)	83	(10.1)	64	(7.8)	36	(4.4)	143	(17.5)
Group B: culture or DST * not routinely performed or data collected on selected cases or areas (see Tab. 16)											
West											
France	910	31	(3.4)	7	(0.8)	6	(0.7)	2	(0.2)	68	(7.5)
Greece	–	–	–	–	–	–	–	–	–	–	–
Spain	514	19	(3.7)	4	(0.8)	3	(0.6)	0	(0.0)	4	(0.8)
Centre											
Albania	–	–	–	–	–	–	–	–	–	–	–
Hungary	456	33	(7.2)	12	(2.6)	8	(1.8)	4	(0.9)	30	(6.6)
Romania	2 114	190	(9.0)	111	(5.3)	76	(3.6)	8	(0.4)	150	(7.1)
Yugoslavia	290	2	(0.7)	1	(0.3)	0	(0.0)	2	(0.7)	11	(3.8)
East											
Armenia	104	9	(8.7)	7	(6.7)	3	(2.9)	12	(11.5)	23	(22.1)
Kazakhstan	2 024	408	(20.2)	188	(9.3)	110	(5.4)	232	(11.5)	537	(26.5)
Kyrgyzstan	141	33	(23.4)	18	(12.8)	9	(6.4)	20	(14.2)	61	(43.3)
Russian Federation	36 217	–	–	–	–	2 429	(6.7)	–	–	–	–
Ukraine	245	30	(12.2)	27	(11.0)	19	(7.8)	1	(0.4)	32	(13.1)

* Drug susceptibility testing;

† National sample of notified cases;

‡ Except Scotland

TABLES

Table 19. Drug resistance at the start of treatment, tuberculosis cases previously treated with anti-TB drugs, 1999

Geographic area Country	Cases with DST result	Cases resistant to at least:									
		Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (multidrug resistant)		Ethambutol		Streptomycin	
		N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A: culture and DST * performed routinely and national data linked to TB notifications											
West											
Andorra	0	–	–	–	–	–	–	–	–	–	–
Austria	53	7	(13.2)	3	(5.7)	3	(5.7)	0	(0.0)	–	–
Denmark	24	2	(8.3)	0	(0.0)	0	(0.0)	0	(0.0)	4	(16.7)
Finland	27	1	(3.7)	0	(0.0)	0	(0.0)	0	(0.0)	–	–
Germany †	303	47	(15.5)	23	(7.6)	18	(5.9)	–	–	–	–
Iceland	1	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Ireland	22	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Israel	–	–	–	–	–	–	–	–	–	–	–
Malta	0	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Netherlands	42	3	(7.1)	1	(2.4)	0	(0.0)	0	(0.0)	0	(0.0)
Norway	40	0	(0.0)	0	(0.0)	0	(0.0)	1	(2.5)	–	–
Sweden	31	7	(22.6)	4	(12.9)	4	(12.9)	2	(6.5)	–	–
Switzerland	57	12	(21.1)	6	(10.5)	6	(10.5)	3	(5.4)	–	–
United Kingdom ‡	220	10	(4.5)	8	(3.6)	6	(2.7)	2	(0.9)	–	–
Centre											
Bosnia-Herzegovina	121	6	(5.0)	10	(8.3)	3	(2.5)	4	(3.3)	5	(4.1)
Croatia †	93	3	(3.2)	3	(3.2)	2	(2.2)	0	(0.0)	1	(1.1)
Czech Republic	70	6	(8.6)	3	(4.3)	2	(2.9)	3	(4.3)	4	(5.7)
Slovakia	122	6	(4.9)	5	(4.1)	3	(2.5)	3	(2.5)	2	(1.6)
Slovenia	35	2	(5.7)	2	(5.7)	2	(5.7)	1	(2.9)	2	(5.7)
East											
Estonia	89	48	(53.9)	43	(48.3)	43	(48.3)	30	(33.7)	44	(49.4)
Latvia	190	60	(31.6)	53	(27.9)	51	(26.8)	18	(9.5)	56	(29.5)
Lithuania	167	90	(53.9)	77	(46.1)	71	(42.5)	26	(15.6)	76	(45.5)
Group B: culture or DST * not routinely performed or data collected on selected cases or areas (see Tab. 16)											
West											
France	106	13	(12.3)	10	(9.4)	9	(8.5)	3	(2.8)	8	(7.5)
Greece	–	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–	–
Centre											
Albania	–	–	–	–	–	–	–	–	–	–	–
Hungary	103	19	(18.4)	7	(6.8)	7	(6.8)	4	(3.9)	7	(6.8)
Romania	428	99	(23.1)	63	(14.7)	49	(11.4)	9	(2.1)	71	(16.6)
Yugoslavia	41	2	(4.9)	2	(4.9)	2	(4.9)	2	(4.9)	5	(12.2)
East											
Armenia	63	13	(20.6)	23	(36.5)	8	(12.7)	13	(20.6)	26	(41.3)
Kazakhstan	2 472	1 100	(44.5)	721	(29.2)	511	(20.7)	733	(29.7)	1 322	(53.5)
Kyrgyzstan	81	43	(53.1)	36	(44.4)	30	(37.0)	28	(34.6)	51	(63.0)
Russian Federation	–	–	–	–	–	–	–	–	–	–	–
Ukraine	239	86	(36.0)	75	(31.4)	67	(28.0)	9	(3.8)	78	(32.6)

† National sample of notified cases;

* Drug susceptibility testing;

‡ Except Scotland

TABLES

Table 20. Drug resistance at the start of treatment, tuberculosis cases born in the country / national citizens, 1999

Geographic area Country	Definition of origin *	Cases with DST result	Cases resistant to at least:									
			Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (multidrug resistant)		Ethambutol		Streptomycin	
			N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A: culture and DST † performed routinely and national data linked to TB notifications												
West												
Andorra	birth	6	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Austria	citiz.	581	23	(4.0)	1	(0.2)	0	(0.0)	0	(0.0)	–	–
Denmark	birth	131	3	(2.3)	1	(0.8)	0	(0.0)	0	(0.0)	4	(3.1)
Finland	birth	371	2	(0.5)	0	(0.0)	0	(0.0)	3	(0.8)	–	–
Germany ‡	birth	2 048 ‡	63	(3.1)	14	(0.7)	7	(0.3)	–	–	–	–
Iceland	birth	3	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Ireland	birth	220	8	(3.6)	1	(0.5)	1	(0.5)	1	(0.5)	1	(0.5)
Israel	birth	27	1	(3.7)	0	(0.0)	0	(0.0)	0	(0.0)	3	(11.1)
Malta	birth	9	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Netherlands	citiz.	367	13	(3.5)	0	(0.0)	0	(0.0)	0	(0.0)	9	(2.5)
Norway	birth	62	1	(1.6)	1	(1.6)	1	(1.6)	2	(3.2)	–	–
Sweden	birth	138	7	(5.1)	1	(0.7)	1	(0.7)	1	(0.7)	–	–
Switzerland	birth	215	7	(3.3)	0	(0.0)	0	(0.0)	1	(0.5)	–	–
United Kingdom §	birth	949	39	(4.1)	0	(0.0)	0	(0.0)	1	(0.1)	–	–
Centre												
Bosnia-Herzegovina	birth	1 349	18	(1.3)	24	(1.8)	7	(0.5)	21	(1.6)	24	(1.8)
Croatia ‡	birth	642	10	(1.6)	7	(1.1)	3	(0.5)	0	(0.0)	9	(1.4)
Czech Republic	–	–	–	–	–	–	–	–	–	–	–	–
Slovakia	birth	574	13	(2.3)	9	(1.6)	5	(0.9)	5	(0.9)	9	(1.6)
Slovenia	birth	253	5	(2.0)	1	(0.4)	1	(0.4)	1	(0.4)	4	(1.6)
East												
Estonia	birth	396	132	(33.3)	97	(24.5)	93	(23.5)	74	(18.7)	125	(31.6)
Latvia	birth	982	283	(28.8)	135	(13.7)	133	(13.5)	53	(5.4)	254	(25.9)
Lithuania	–	–	–	–	–	–	–	–	–	–	–	–
Group B: culture or DST † not routinely performed or data collected on selected cases or areas (see Tab. 16)												
West												
France	birth	604	12	(2.0)	2	(0.3)	1	(0.2)	1	(0.2)	36	(6.0)
Greece	–	–	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–	–	–
Centre												
Hungary	–	–	–	–	–	–	–	–	–	–	–	–
Romania	citiz.	2 541	289	(11.4)	174	(6.8)	125	(4.9)	17	(0.7)	221	(8.7)
Yugoslavia	–	–	–	–	–	–	–	–	–	–	–	–
East												
Armenia	–	–	–	–	–	–	–	–	–	–	–	–
Kazakhstan	–	–	–	–	–	–	–	–	–	–	–	–
Kyrgyzstan	na	318	115	(36.2)	78	(24.5)	59	(18.6)	66	(20.8)	165	(51.9)
Russian Federation	–	–	–	–	–	–	–	–	–	–	–	–
Ukraine	na	484	116	(24.0)	102	(21.1)	86	(17.8)	10	(2.1)	110	(22.7)

* Birth = country of birth; citiz. = citizenship; na = not available;

† Drug susceptibility testing;

‡ National sample of notified TB cases;

§ Except Scotland

TABLES

Table 21. Drug resistance at the start of treatment, tuberculosis cases born abroad / foreign citizens, 1999

Geographic area Country	Definition of origin *	Cases with DST result	Cases resistant to at least:									
			Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (multidrug resistant)		Ethambutol		Streptomycin	
			N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A: culture and DST † performed routinely and national data linked to TB notifications												
West												
Andorra	birth	0	–	–	–	–	–	–	–	–	–	–
Austria	citiz.	175	14	(8.0)	7	(4.0)	5	(2.9)	2	(1.1)	–	–
Denmark	birth	285	28	(9.8)	0	(0.0)	0	(0.0)	1	(0.4)	52	(18.2)
Finland	birth	27	1	(3.7)	0	(0.0)	0	(0.0)	3	(11.1)	–	–
Germany ‡	birth	1 276	124	(9.7)	38	(3.0)	34	(2.7)	–	–	–	–
Iceland	birth	5	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Ireland	birth	40	2	(5.0)	1	(2.5)	1	(2.5)	1	(2.5)	1	(2.5)
Israel	birth	304	43	(14.1)	28	(9.2)	26	(8.6)	8	(2.6)	43	(14.1)
Malta	birth	4	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Netherlands	citiz.	553	39	(7.1)	7	(1.3)	4	(0.7)	4	(0.7)	30	(5.4)
Norway	birth	122	10	(8.2)	2	(1.6)	2	(1.6)	2	(1.6)	–	–
Sweden	birth	270	35	(13.0)	8	(3.0)	6	(2.2)	2	(0.7)	–	–
Switzerland	birth	372	32	(8.6)	13	(3.5)	11	(3.0)	6	(1.6)	–	–
United Kingdom §	birth	1 566	107	(6.8)	20	(1.3)	17	(1.1)	12	(0.8)	–	–
Centre												
Bosnia-Herzegovina	birth	0	–	–	–	–	–	–	–	–	–	–
Croatia ‡	birth	141	5	(3.5)	2	(1.4)	2	(1.4)	1	(0.7)	0	(0.0)
Czech Republic	–	–	–	–	–	–	–	–	–	–	–	–
Slovakia	birth	4	1	(25.0)	1	(25.0)	1	(25.0)	1	(25.0)	0	(0.0)
Slovenia	birth	86	4	(4.7)	1	(1.2)	1	(1.2)	0	(0.0)	1	(1.2)
East												
Estonia	birth	121	33	(27.3)	22	(18.2)	21	(17.4)	16	(13.2)	36	(29.8)
Latvia	birth	33	6	(18.2)	4	(12.1)	4	(12.1)	0	(0.0)	2	(6.1)
Lithuania	–	–	–	–	–	–	–	–	–	–	–	–
Group B: culture or DST † not routinely performed or data collected on selected cases or areas (see Tab. 16)												
West												
France	birth	444	38	(8.6)	14	(3.2)	13	(2.9)	4	(0.9)	39	(8.8)
Greece	–	–	–	–	–	–	–	–	–	–	–	–
Spain	–	–	–	–	–	–	–	–	–	–	–	–
Centre												
Hungary	–	–	–	–	–	–	–	–	–	–	–	–
Romania	citiz.	1	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Yugoslavia	–	–	–	–	–	–	–	–	–	–	–	–
East												
Armenia	–	–	–	–	–	–	–	–	–	–	–	–
Kazakhstan	–	–	–	–	–	–	–	–	–	–	–	–
Kyrgyzstan	–	–	–	–	–	–	–	–	–	–	–	–
Russian Federation	–	–	–	–	–	–	–	–	–	–	–	–
Ukraine	–	–	–	–	–	–	–	–	–	–	–	–

* Birth = country of birth; citiz. = citizenship;
† Drug susceptibility testing;
‡ National sample of notified TB cases;
§ Except Scotland