

3. TABLES

TABLES

Table 1. Tuberculosis cases notified and rates per 100 000 population, WHO European Region, 1995-2002

Geographic area Country	1995		1996		1997		1998	
	N	Rate	N	Rate	N	Rate	N	Rate
EU & West								
Austria	1 383	17.2	1 489	18.4	1 398	17.3	1 306	16.1
Belgium	1 380	13.6	1 352	13.3	1 263	12.4	1 203	11.8
Cyprus	36	4.8	24	3.2	47	6.2	45	5.8
Czech Republic	1 851	17.9	1 936	18.8	1 834	17.8	1 805	17.5
Denmark	448	8.6	484	9.2	554	10.5	529	10.0
Estonia	608	42.0	683	48.0	744	52.9	818	58.7
Finland	662	13.0	644	12.6	573	11.1	629	12.2
France	8 723	14.6	7 656	12.8	6 832	11.3	6 651	11.0
Germany	12 198	14.9	11 814	14.4	11 163	13.6	10 440	12.7
Greece	939*	9.0	945*	9.0	767*	7.2	1 152	10.7
Hungary	4 339	42.5	4 278	42.0	4 240	41.8	3 999	39.6
Ireland	458	12.7	434	11.9	416	11.3	424	11.4
Italy	5 225	9.1	5 152	9.0	5 176	9.0	4 795	8.3
Latvia	1 541	61.7	1 761	71.5	2 003	82.3	2 182	90.4
Lithuania	2 362	66.3	2 608	73.7	2 926	83.0	3 016	85.7
Luxembourg	32	7.9	36	8.8	38	9.1	44	10.4
Malta	10	2.6	29	7.6	11	2.9	16	4.2
Netherlands	1 619	10.5	1 678	10.8	1 486	9.5	1 341	8.5
Poland	15 959	41.3	15 358	39.7	13 967	36.1	13 302	34.4
Portugal	5 577	56.2	5 248	52.8	5 112	51.4	5 260	52.7
Slovakia	1 537	28.7	1 499	27.9	1 298	24.1	1 282	23.8
Slovenia	525	26.4	563	28.2	481	24.1	449	22.5
Spain †	8 764	21.9	8 331	20.8	9 347	23.2	9 111	22.5
Sweden	564	6.4	493	5.6	456	5.1	446	5.0
United Kingdom	6 161	10.7	6 240	10.8	6 355	10.9	6 176	10.6
Subtotal EU	82 901	18.5	80 735	17.9	78 487	17.4	76 421	16.9
Andorra	-	-	17	25.4	19	27.1	8	11.1
Iceland	12	4.5	11	4.1	10	3.7	17	6.1
Israel	398	7.4	415	7.5	422	7.5	656	11.1
Monaco	1	3.1	0	0.0	0	0.0	0	0.0
Norway	236	5.4	217	5.0	205	4.7	244	5.5
San Marino	2	8.0	0	0.0	1	3.8	0	0.0
Switzerland	830	11.7	764	10.7	747	10.4	749	10.4
Total EU & West	84 380	18.1	82 159	17.6	79 891	17.0	78 095	16.6
Centre								
Albania	664	20.8	707	22.4	655	20.9	694	22.2
Bosnia & Herzegovina	2 132	62.3	2 220	64.8	2 869	81.4	3 071	83.4
Bulgaria	3 245	38.6	3 109	37.3	3 437 ‡	41.5	4 117	50.1
Croatia	2 114 ‡	47.5	2 174	49.2	2 054	46.6	2 118	47.9
Macedonia, F.Y.R.	786	40.0	724	36.7	693	34.9	620	31.0
Romania	23 271	102.6	24 113	106.7	23 90	105.9	25 758	114.3
Serbia & Montenegro	4 169 §	39.5	4 541 §	42.9	4 062 §	38.4	3 028	28.6
Turkey	23 035	36.5	23 533	36.7	25 685	39.4	25 501	38.5
Total Centre	59 416	50.5	61 121	51.5	63 358	52.9	64 907	53.7
East								
Armenia	836	25.1	935	28.6	1 026	31.8	1 455	45.7
Azerbaijan	3 306	42.4	5 006	63.5	4 635 ‡	58.2	4 350	54.2
Belarus	5 092	49.7	5 619	55.0	5 985	58.8	5 595	55.2
Georgia	-	-	10 641	199.5	8 446	158.8	6 302	118.7
Kazakhstan	11 095 *	67.0	13 559 *	82.7	16 109	99.5	20 623	129.0
Kyrgyzstan	3 380	74.1	4 086	88.5	5 189	110.7	5 935	124.6
Moldova, Republic of	2 753	63.5	2 922	67.5	2 908	67.4	2 891	67.2
Russian Federation	96 828	65.4	110 897	75.0	119 123	80.8	121 917	83.0
Tajikistan	2 029 ‡	35.3	1 647	28.3	2 143	36.4	2 503	42.0
Turkmenistan	2 009	47.7	2 149	49.9	3 438	78.2	3 712*	82.8
Ukraine	21 459 ‡	41.6	26 834	52.4	28 344	55.7	31 318	62.0
Uzbekistan	9 866	43.3	11 919	51.3	13 352	56.4	13 958	58.0
Total East	158 653	56.8	196 214	69.0	210 698	74.2	220 559	77.8
Total WHO European Region	302 449	35.1	339 494	39.0	353 947	40.6	363 561	41.6

* New cases only

† Until 1996 new respiratory cases only; since 1997 new and recurrent respiratory and meningeal cases

‡ Source: World Health Organization. Global Tuberculosis Control: WHO Report 2004. Geneva, Switzerland, WHO/HTM/TB/2004.331

§ Including Kosovo as part of former Yugoslavia

TABLES

**Table 1 (cont). Tuberculosis cases notified and rates per 100 000 population,
WHO European Region, 1995-2002**

1999		2000		2001		2002		Geographic area Country
N	Rate	N	Rate	N	Rate	N	Rate	
EU & West								
1 245	15.4	1 225	15.1	1 075	13.3	1 067	13.2	Austria
1 270	12.4	1 313	12.8	1 321	12.9	1 294	12.6	Belgium
39	5.0	33	4.2	40	5.1	20	2.5	Cyprus
1 631	15.9	1 442	14.0	1 350	13.2	1 200	11.7	Czech Republic
536	10.1	548	10.3	511	9.6	419	7.8	Denmark
754	54.6	791	57.9	812	60.0	713	53.3	Estonia
566	11.0	537	10.4	494	9.5	473	9.1	Finland
6 674	11.0	6 714	11.0	6 465	10.5	6 322	10.3	France
9 974	12.1	9 064	11.0	7 539	9.2*	7 684	9.3	Germany
952	8.8	703	6.4	617	5.6	582	5.3	Greece
3 914	38.9	3 598	35.9	3 150	31.6	3 007	30.3	Hungary
469	12.4	403	10.6	406	10.5	406	10.4	Ireland
4 429	7.7	4 759	8.3	4 505	7.8	4 212	7.3	Italy
1 968	82.2	2 063	87.0	2 082	88.6	1 855	79.6	Latvia
2 903	82.7	2 981	85.2	2 989	85.8	2 844	82.1	Lithuania
42	9.8	44	10.1	32	7.3	32	7.2	Luxembourg
22	5.7	18	4.6	16	4.1	24	6.1	Malta
1 535	9.7	1 404	8.8	1 436	9.0	1 401	8.7	Netherlands
12 179	31.5	11 477	29.7	10 672	27.6	10 475	27.1	Poland
5 160	51.6	4 494	44.9	4 399	43.8	4 591	45.7	Portugal
1 218	22.6	1 111	20.6	1 076	19.9	1 053	19.5	Slovakia
438	22.0	380	19.1	371	18.7	350	17.6	Slovenia
8 393	20.7	8 395	20.6	7 453	18.2	7 626	18.6	Spain †
493	5.6	458	5.2	428	4.8	412	4.6	Sweden
6 287	10.7	6 792	11.5	7 017	11.9	7 376	12.5	United Kingdom
73 091	16.1	70 747	15.6	66 256	14.6	65 438	14.4	Subtotal EU
EU & West (continued)								
9	12.0	11	16.7	5	6.2	5	6.0	Andorra
12	4.3	13	4.6	13	4.6	8	2.8	Iceland
520	8.8	591	9.8	564	9.1	511	8.1	Israel
3	9.1	0	0.0	0	0.0	0	0.0	Monaco
273	6.1	237	5.3	288	6.4	256	5.7	Norway
0	0.0	1	3.8	0	0.0	1	3.7	San Marino
772	10.8	629	8.8	611	8.5	658	9.2	Switzerland
74 680	15.9	72 229	15.3	67 737	14.3	66 877	14.1	Total EU & West
Centre								
765	24.6	631	20.3	572	18.3	612	19.5	Albania
3 075	80.0	2 606	65.5	2 551	62.7	2 551	61.8	Bosnia & Herzegovina
3 530	43.2	3 349	41.4	3 862	48.1	3 335	41.9	Bulgaria
1 770	39.9	1 630	36.7	1 505	33.9	1 470	33.1	Croatia
576	28.6	668	33.0	697	34.3	730	35.7	Macedonia, F.Y.R.
26 870	119.4	27 667	123.1	30 440	135.7	34 143	152.5	Romania
2 646	25.0	2 922	27.7	2 888	27.4	3 033	28.8	Serbia & Montenegro
22 088	32.8	18 038	26.4	18 890	27.3	19 028	27.1	Turkey
61 320	50.3	57 511	46.8	61 405	49.5	64 902	53.7	Total Centre
East								
1 499	47.7	1 344	43.2	1 401	45.4	1 455	47.4	Armenia
4 629	57.2	5 187	63.6	4 923	59.8	5 348	64.5	Azerbaijan
7 339	72.8	6 084‡	60.6	5 505‡	55.1	5 139	51.7	Belarus
6 546	123.8	6 436	122.3	5 876	112.5	6 345	122.6	Georgia
25 060	158.7	28 265	180.7	31 254	201.2	32 936	212.9	Kazakhstan
6 501	134.2	6 383	129.7	6 901	138.2	6 794	134.1	Kyrgyzstan
2 947	68.7	2 935	68.5	3 820	89.3	4 149	97.2	Moldova, Republic of
135 054	92.3	143 801	98.8	138 432	95.6	134 812	93.6	Russian Federation
2 553	42.4	2 779‡	45.6	3 508	57.1	4 052	65.4	Tajikistan
4 092	89.6	3 967	85.4	4 922	104.3	4 635	96.7	Turkmenistan
32 879	65.6	32 963	66.3	36 784	74.6	40 175	82.2	Ukraine
16 959	69.2	15 912	63.9	18 106	71.5	27 009	105.1	Uzbekistan
246 058	86.9	256 056	90.7	261 432	92.8	272 849	97.1	Total East
382 058	43.6	385 796	44.0	390 574	44.5	404 628	46.2	Total WHO European Region

* Incomplete notification owing to change in notification system

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

‡ New cases only

TABLES

Table 2. Tuberculosis cases by age group, WHO European Region, 2002

Geographic area Country	0-4		5-14		15-24		25-34		35-44	
	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU & West										
Austria	11	(1)	27	(3)	99	(9)	137	(13)	198	(19)
Belgium	27	(2)	45	(3)	140	(11)	283	(22)	229	(18)
Cyprus	1	(5)	0	(0)	4	(20)	3	(15)	4	(20)
Czech Republic	1	(0)	6	(1)	54	(5)	109	(9)	147	(12)
Denmark	12	(3)	22	(5)	64	(15)	91	(22)	87	(21)
Estonia	1	(0)	2	(0)	45	(6)	113	(16)	183	(26)
Finland	1	(0)	5	(1)	10	(2)	29	(6)	22	(5)
France	140	(2)	155	(2)	747	(12)	1 324	(21)	1 083	(17)
Germany	152	(2)	197	(3)	669	(9)	1 180	(15)	1 224	(16)
Greece	11	(2)	32	(5)	33	(6)	92	(16)	86	(15)
Hungary	4	(0)	8	(0)	101	(3)	254	(8)	520	(17)
Ireland	6	(1)	12	(3)	39	(10)	90	(22)	70	(17)
Italy	78	(2)	63	(1)	339	(8)	805	(19)	659	(16)
Latvia	49	(3)	63	(3)	201	(11)	371	(20)	409	(22)
Lithuania	19	(1)	123	(4)	194	(7)	404	(14)	606	(21)
Luxembourg	1	(3)	0	(0)	2	(6)	5	(16)	5	(16)
Malta	0	(0)	0	(0)	4	(17)	3	(13)	3	(13)
Netherlands	29	(2)	43	(3)	280	(20)	396	(28)	228	(16)
Poland	37	(0)	88	(1)	597	(6)	944	(9)	1 873	(18)
Portugal	41	(1)	69	(2)	537	(12)	1 141	(25)	1 043	(23)
Slovakia	6	(1)	14	(1)	46	(4)	89	(8)	143	(14)
Slovenia	6	(2)	5	(1)	26	(7)	39	(11)	60	(17)
Spain *	277	(4)	209	(3)	1 065	(14)	1 708	(22)	1 420	(19)
Sweden	4	(1)	14	(3)	60	(15)	87	(21)	75	(18)
United Kingdom	163	(2)	280	(4)	1 075	(15)	1 851	(25)	1 168	(16)
Subtotal EU	1 077	(2)	1 482	(2)	6 431	(10)	11 548	(18)	11 545	(18)
Andorra	0	(0)	0	(0)	4	(80)	0	(0)	1	(20)
Iceland	0	(0)	1	(13)	3	(38)	1	(13)	1	(13)
Israel	20	(4)	14	(3)	60	(12)	84	(16)	59	(12)
Monaco	0	-	0	-	0	-	0	-	0	-
Norway	3	(1)	9	(4)	54	(21)	63	(25)	46	(18)
San Marino	0	-	0	-	0	-	0	-	1	-
Switzerland	16	(2)	6	(1)	133	(20)	153	(23)	105	(16)
Total EU & West	1 116	(2)	1 512	(2)	6 685	(10)	11 849	(18)	11 758	(18)
Centre										
Albania	13	(2)	39	(6)	82	(13)	86	(14)	105	(17)
Bosnia & Herzegovina	8	(0)	35	(1)	242	(9)	302	(12)	350	(14)
Bulgaria	55	(2)	91	(3)	373	(11)	551	(17)	513	(15)
Croatia	15	(1)	53	(4)	92	(6)	142	(10)	260	(18)
Macedonia, F.Y.R.	46	(6)	79	(11)	108	(15)	136	(19)	99	(14)
Romania	610	(2)	1 250	(4)	4 307	(13)	6 625	(19)	6 523	(19)
Serbia & Montenegro	4	(0)	21	(1)	218	(7)	362	(12)	477	(16)
Turkey	-	-	-	-	-	-	-	-	-	-
Total Centre	751	(2)	1 568	(3)	5 422	(12)	8 204	(18)	8 327	(18)
East										
Armenia	23	(2)	49	(3)	303	(21)	287	(20)	244	(17)
Azerbaijan	27	(1)	262	(5)	1 267	(24)	1 403	(26)	1 151	(22)
Belarus	12	(0)	67	(1)	593	(12)	1 109	(22)	1 188	(23)
Georgia	107	(2)	421	(7)	1 057	(17)	1 368	(22)	1 297	(20)
Kazakhstan	385	(1)	1 866	(6)	7 709	(23)	8 680	(26)	6 674	(20)
Kyrgyzstan	-	-	-	-	-	-	-	-	-	-
Moldova, Republic of	33	(1)	81	(2)	808	(19)	958	(23)	908	(22)
Russian Federation †	1 663	(1) ‡	2 157	(2) ‡	19 160	(16)	29 514	(24)	29 028	(24)
Tajikistan	64	(2)	282	(7)	989	(24)	796	(20)	530	(13)
Turkmenistan	23	(0)	598	(13)	984	(21)	1 305	(28)	833	(18)
Ukraine †	164	(0)	533	(1)	4 766	(13)	7 929	(22)	8 730	(24)
Uzbekistan †	232	(1)	2 786	(14)	3 863	(19)	5 049	(25)	3 317	(17)
Total East	2 733	(1)	9 102	(4)	41 499	(17)	58 398	(24)	53 900	(22)
Total WHO European Region	4 600	(1)	12 182	(3)	53 606	(15)	78 451	(22)	73 985	(21)

* Respiratory and meningeal cases only

† Age groups only for new cases

‡ Paediatric age-groups are 0-6 and 7-14 years

TABLES

Table 2 (cont.). Tuberculosis cases by age group, WHO European Region, 2002

45-54		55-64		>64		Unknown		Total	Geographic area Country
N	(%)	N	(%)	N	(%)	N	(%)		
EU & West									
202	(19)	147	(14)	246	(23)	0	(0)	1 067	Austria
149	(12)	106	(8)	315	(24)	0	(0)	1 294	Belgium
1	(5)	1	(5)	6	(30)	0	(0)	20	Cyprus
254	(21)	178	(15)	451	(38)	0	(0)	1 200	Czech Republic
62	(15)	35	(8)	46	(11)	0	(0)	419	Denmark
194	(27)	93	(13)	82	(12)	0	(0)	713	Estonia
53	(11)	78	(16)	275	(58)	0	(0)	473	Finland
818	(13)	555	(9)	1 499	(24)	1	(0)	6 322	France
1 085	(14)	1 008	(13)	2 162	(28)	7	(0)	7 684	Germany
69	(12)	51	(9)	192	(33)	16	(3)	582	Greece
855	(28)	504	(17)	761	(25)	0	(0)	3 007	Hungary
52	(13)	41	(10)	89	(22)	7	(2)	406	Ireland
418	(10)	465	(11)	1 244	(30)	141	(3)	4 212	Italy
361	(19)	207	(11)	194	(10)	0	(0)	1 855	Latvia
601	(21)	423	(15)	473	(17)	1	(0)	2 844	Lithuania
8	(25)	6	(19)	5	(16)	0	(0)	32	Luxembourg
3	(13)	6	(25)	5	(21)	0	(0)	24	Malta
161	(11)	98	(7)	166	(12)	0	(0)	1 401	Netherlands
2 763	(26)	1 412	(13)	2 761	(26)	0	(0)	10 475	Poland
642	(14)	401	(9)	694	(15)	23	(1)	4 591	Portugal
204	(19)	154	(15)	397	(38)	0	(0)	1 053	Slovakia
59	(17)	44	(13)	111	(32)	0	(0)	350	Slovenia
846	(11)	621	(8)	1 426	(19)	54	(1)	7 626	Spain *
36	(9)	32	(8)	104	(25)	0	(0)	412	Sweden
806	(11)	658	(9)	1 360	(18)	15	(0)	7 376	United Kingdom
10 702	(16)	7 324	(11)	15 064	(23)	265	(0)	65 438	Subtotal EU
EU & West									
0	(0)	0	(0)	0	(0)	0	(0)	5	Andorra
1	(13)	1	(13)	0	(0)	0	(0)	8	Iceland
59	(12)	59	(12)	156	(31)	0	(0)	511	Israel
0	-	0	-	0	-	0	-	0	Monaco
17	(7)	12	(5)	52	(20)	0	(0)	256	Norway
0	-	0	-	0	-	0	-	1	San Marino
63	(10)	46	(7)	136	(21)	0	(0)	658	Switzerland
10 842	(16)	7 442	(11)	15 408	(23)	265	(0)	66 877	Total EU & West
Centre									
84	(14)	94	(15)	109	(18)	0	(0)	612	Albania
377	(15)	329	(13)	881	(35)	27	(1)	2 551	Bosnia & Herzegovina
637	(19)	462	(14)	626	(19)	27	(1)	3 335	Bulgaria
283	(19)	181	(12)	444	(30)	0	(0)	1 470	Croatia
90	(12)	74	(10)	98	(13)	0	(0)	730	Macedonia, F.Y.R.
7 544	(22)	3 735	(11)	3 427	(10)	122	(0)	34 143	Romania
631	(21)	450	(15)	870	(29)	0	(0)	3 033	Serbia & Montenegro
-	-	-	-	-	-	-	-	-	Turkey
9 646	(21)	5 325	(12)	6 455	(14)	176	(0)	45 874	Total Centre
East									
186	(13)	235	(16)	125	(9)	3	(0)	1 455	Armenia
752	(14)	339	(6)	146	(3)	1	(0)	5 348	Azerbaijan
1 058	(21)	505	(10)	607	(12)	0	(0)	5 139	Belarus
900	(14)	549	(9)	622	(10)	24	(0)	6 345	Georgia
4 222	(13)	2 036	(6)	1 364	(4)	0	(0)	32 936	Kazakhstan
-	-	-	-	-	-	-	-	-	Kyrgyzstan
829	(20)	325	(8)	207	(5)	0	(0)	4 149	Moldova, Republic of
24 838	(20)	9 776	(8)	7 204	(6)	0	(0)	123 340	Russian Federation †
291	(7)	148	(4)	96	(2)	856	(21)	4 052	Tajikistan
482	(10)	216	(5)	194	(4)	0	(0)	4 635	Turkmenistan
7 189	(20)	3 748	(10)	3 412	(9)	0	(0)	36 471	Ukraine †
2 071	(10)	1 398	(7)	1 244	(6)	0	(0)	19 960	Uzbekistan †
42 818	(18)	19 275	(8)	15 221	(6)	884	(0)	243 830	Total East
63 306	(18)	32 042	(9)	37 084	(10)	1 325	(0)	356 581	Total WHO European Region

* Respiratory and meningial cases only

† Age groups only for new cases

TABLES

Table 3. Tuberculosis cases by sex, WHO European Region, 2002

Geographic area Country	Male		Female		Unknown		Total	Sex ratio M:F
	N	(%)	N	(%)	N	(%)		
EU & West								
Austria	676	(63)	391	(37)	0	(0)	1 067	1.7
Belgium	854	(66)	440	(34)	0	(0)	1 294	1.9
Cyprus	13	(65)	7	(35)	0	(0)	20	1.9
Czech Republic	772	(64)	428	(36)	0	(0)	1 200	1.8
Denmark	229	(55)	190	(45)	0	(0)	419	1.2
Estonia	495	(69)	218	(31)	0	(0)	713	2.3
Finland	249	(53)	224	(47)	0	(0)	473	1.1
France	3 935	(62)	2 370	(37)	17	(0)	6 322	1.7
Germany	4 735	(62)	2 947	(38)	2	(0)	7 684	1.6
Greece	390	(67)	191	(33)	1	(0)	582	2.0
Hungary	2 015	(67)	992	(33)	0	(0)	3 007	2.0
Ireland	255	(63)	148	(36)	3	(1)	406	1.7
Italy	2 641	(63)	1 563	(37)	8	(0)	4 212	1.7
Latvia	1 283	(69)	572	(31)	0	(0)	1 855	2.2
Lithuania	1 979	(70)	865	(30)	0	(0)	2 844	2.3
Luxembourg	18	(56)	14	(44)	0	(0)	32	1.3
Malta	11	(46)	13	(54)	0	(0)	24	0.8
Netherlands	797	(57)	604	(43)	0	(0)	1 401	1.3
Poland	6 911	(66)	3 564	(34)	0	(0)	10 475	1.9
Portugal	3 182	(69)	1 409	(31)	0	(0)	4 591	2.3
Slovakia	659	(63)	394	(37)	0	(0)	1 053	1.7
Slovenia	222	(63)	128	(37)	0	(0)	350	1.7
Spain *	5 096	(67)	2 511	(33)	19	(0)	7 626	2.0
Sweden	191	(46)	221	(54)	0	(0)	412	0.9
United Kingdom	4 004	(54)	3 335	(45)	37	(1)	7 376	1.2
Subtotal EU	41 612	(64)	23 739	(36)	87	(0)	65 438	1.8
Andorra	2	(40)	3	(60)	0	(0)	5	0.7
Iceland	3	(38)	5	(63)	0	(0)	8	0.6
Israel	269	(53)	242	(47)	0	(0)	511	1.1
Monaco	0	-	0	-	0	-	0	-
Norway	132	(52)	124	(48)	0	(0)	256	1.1
San Marino	1	(100)	0	(0)	0	(0)	1	-
Switzerland	375	(57)	283	(43)	0	(0)	658	1.3
Total EU & West	42 394	(63)	24 396	(36)	87	(0)	66 877	1.7
Centre								
Albania	394	(64)	218	(36)	0	(0)	612	1.8
Bosnia & Herzegovina	1 517	(59)	1 034	(41)	0	(0)	2 551	1.5
Bulgaria	2 210	(66)	1 098	(33)	27	(1)	3 335	2.0
Croatia	924	(63)	546	(37)	0	(0)	1 470	1.7
Macedonia, F.Y.R.	423	(58)	306	(42)	1	(0)	730	1.4
Romania	23 800	(70)	10 343	(30)	0	(0)	34 143	2.3
Serbia & Montenegro	1 932	(64)	1 101	(36)	0	(0)	3 033	1.8
Turkey	-	-	-	-	-	-	-	-
Total Centre	31 200	(68)	14 646	(32)	28	(0)	45 874	2.1
East								
Armenia	1 165	(80)	290	(20)	0	(0)	1 455	4.0
Azerbaijan	4 207	(79)	1 141	(21)	0	(0)	5 348	3.7
Belarus	3 774	(73)	1 365	(27)	0	(0)	5 139	2.8
Georgia	4 569	(72)	1 773	(28)	3	(0)	6 345	2.6
Kazakhstan	19 013	(58)	13 923	(42)	0	(0)	32 936	1.4
Kyrgyzstan †	3 625	(58)	2 654	(42)	0	(0)	6 279	1.4
Moldova, Republic of	3 048	(73)	1 101	(27)	0	(0)	4 149	2.8
Russian Federation †	91 206	(74)	32 134	(26)	0	(0)	123 340	2.8
Tajikistan	1 879	(46)	1 317	(33)	856	(21)	4 052	1.4
Turkmenistan	3 001	(65)	1 634	(35)	0	(0)	4 635	1.8
Ukraine	-	-	-	-	-	-	-	-
Uzbekistan †	11 474	(57)	8 486	(43)	0	(0)	19 960	1.4
Total East	146 961	(69)	65 818	(31)	859	(0)	213 638	2.2
Total WHO European Region	220 555	(68)	104 860	(32)	974	(0)	326 389	2.1

* Respiratory and meningeal cases only

† New cases only

TABLES

Table 4. Tuberculosis cases by geographic origin, WHO European Region, 2002

Geographic area Country	Classification	Native-born / national citizen		Foreign born / foreign citizen		Unknown		Total
		N	(%)	N	(%)	N	(%)	
EU & West								
Austria	citizenship	769	(72)	298	(28)	0	(0)	1 067
Belgium	citizenship	637	(49)	657	(51)	0	(0)	1 294
Cyprus	birthplace	13	(65)	7	(35)	0	(0)	20
Czech Republic	birthplace	1 036	(86)	164	(14)	0	(0)	1 200
Denmark	birthplace *	154	(37)	257	(61)	8	(2)	419
Estonia	birthplace	573	(80)	140	(20)	0	(0)	713
Finland	birthplace	422	(89)	43	(9)	8	(2)	473
France	birthplace	2 657	(42)	2 564	(41)	1 101	(17)	6 322
Germany	birthplace	4 040	(53)	2 924	(38)	720	(9)	7 684
Greece	citizenship	444	(76)	111	(19)	27	(5)	582
Hungary	birthplace	2 948	(98)	47	(2)	12	(0)	3 007
Ireland	birthplace	268	(66)	107	(26)	31	(8)	406
Italy	birthplace	2 890	(69)	1 293	(31)	29	(1)	4 212
Latvia	birthplace	1 714	(92)	114	(6)	27	(1)	1 855
Lithuania	birthplace	2 711	(95)	133	(5)	0	(0)	2 844
Luxembourg	birthplace	19	(59)	13	(41)	0	(0)	32
Malta	citizenship	15	(63)	9	(38)	0	(0)	24
Netherlands	citizenship	539	(38)	854	(61)	8	(1)	1 401
Poland	-	-	-	-	-	-	-	-
Portugal	birthplace	4 002	(87)	584	(13)	5	(0)	4 591
Slovakia	birthplace	1 041	(99)	12	(1)	0	(0)	1 053
Slovenia	birthplace	273	(78)	77	(22)	0	(0)	350
Spain †	birthplace	3 147	(41)	444	(6)	4 035	(53)	7 626
Sweden	birthplace	116	(28)	296	(72)	0	(0)	412
United Kingdom	birthplace	2 257	(31)	4 167	(56)	952	(13)	7 376
Subtotal EU		32 685	(59)	15 315	(28)	6 963	(13)	54 963
Andorra	citizenship	5	(100)	0	(0)	0	(0)	5
Iceland	birthplace	5	(63)	3	(38)	0	(0)	8
Israel	birthplace	79	(15)	432	(85)	0	(0)	511
Monaco	-	0	-	0	-	0	-	0
Norway	birthplace	61	(24)	195	(76)	0	(0)	256
San Marino	citizenship	1	(100)	0	(0)	0	(0)	1
Switzerland	birthplace	189	(29)	399	(61)	70	(11)	658
Total EU & West		33 025	(59)	16 344	(29)	7 033	(12)	56 402
Centre								
Albania	citizenship	610	(100)	2	(0)	0	(0)	612
Bosnia & Herzegovina	both	2 545	(100)	6	(0)	0	(0)	2 551
Bulgaria	citizenship	3 335	(100)	0	(0)	0	(0)	3 335
Croatia	birthplace	789	(54)	168	(11)	513	(35)	1 470
Macedonia, F.Y.R.	birthplace	486	(67)	31	(4)	213	(29)	730
Romania	birthplace	34 136	(100)	7	(0)	0	(0)	34 143
Serbia & Montenegro	-	-	-	-	-	-	-	-
Turkey	-	-	-	-	-	-	-	-
Total Centre		41 901	(98)	214	(0)	726	(2)	42 841
East								
Armenia	-	-	-	-	-	-	-	-
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-
Kazakhstan	-	-	-	-	-	-	-	-
Kyrgyzstan	-	-	-	-	-	-	-	-
Moldova, Republic of	citizenship	4 134	(100)	15	(0)	0	(0)	4 149
Russian Federation ‡	citizenship	134 221	(100)	591	(0)	0	(0)	134 812
Tajikistan	-	-	-	-	-	-	-	-
Turkmenistan	-	-	-	-	-	-	-	-
Ukraine	-	-	-	-	-	-	-	-
Uzbekistan	-	-	-	-	-	-	-	-
Total East		138 355	(100)	606	(0)	0	(0)	138 961
Total WHO European Region		213 281	(90)	17 164	(7)	7 759	(3)	238 204

* By birthplace of parents for Danish-born cases under 26 years of age

† Respiratory and meningeal cases only

‡ New cases only

TABLES

Table 5. Tuberculosis cases by geographic origin, EU & West*, 1995-2002

Geographic area Country	Classification	1995	1996	1997	1998	1999	2000	2001	2002
A. Native-born / national citizens									
Austria	citizenship	1 037	1 138	1 052	1 014	926	890	804	769
Belgium	citizenship	919	906	849	776	809	758	714	637
Cyprus	birthplace	-	-	-	-	-	-	15	13
Czech Republic	birthplace	1 834	1 936	1 726	1 695	1 496	1 299	1 157	1 036
Denmark	birthplace †	190	195	174	184	164	198	174	154
Estonia	birthplace	-	681	716	704	587	608	630	573
Finland	birthplace	611	596	524	568	517	490	427	422
France	birthplace	-	-	-	-	-	3 198	2 870	2 657
Germany	birthplace	-	-	-	-	-	-	3 781	4 040
Greece	citizenship	-	-	-	1 026	704	635	513	444
Hungary	birthplace	-	4 236	4 196	-	3 832	3 521	3 077	2 948
Ireland	birthplace	-	-	-	389	404	354	328	268
Italy	birthplace	-	-	-	-	3 346	3 511	3 063	2 890
Latvia	birthplace	-	-	1 889	2 087	1 614	1 893	1 931	1 714
Lithuania	birthplace	-	-	2 769	2 784	2 699	2 821	2 815	2 711
Malta	citizenship	-	-	-	-	-	13	13	15
Netherlands	citizenship	706	808	647	536	603	516	545	539
Portugal	birthplace	-	-	-	-	4 406	4 047	3 903	4 002
Slovakia	birthplace	-	1 497	1 298	1 281	1 214	1 103	1 063	1 041
Slovenia	birthplace	401	457	377	368	335	286	287	273
Sweden	birthplace	249	198	156	177	174	151	142	116
United Kingdom	birthplace	-	-	-	2 353	2 087	2 369	2 368	2 257
Subtotal EU		-	-	-	-	-	-	30 620	29 519
Andorra	citizenship	-	-	-	-	-	-	5	5
Iceland	birthplace	11	7	8	9	4	8	6	5
Israel	birthplace	-	70	52	96	71	91	87	79
Monaco	birthplace	-	0	0	0	1	0	0	0
Norway	birthplace	139	115	95	115	93	70	82	61
San Marino	citizenship	1	0	1	0	0	1	0	-
Switzerland	birthplace	-	-	239	211	269	228	192	189
Total EU & West		-	-	-	-	-	-	30 992	29 858
B. Foreign-born / foreign citizens									
Austria	citizenship	332	351	346	292	319	335	271	298
Belgium	citizenship	455	435	414	427	454	508	604	657
Cyprus	birthplace	-	-	-	-	-	-	25	7
Czech Republic	birthplace	17	0	108	110	135	143	193	164
Denmark	birthplace †	246	283	380	344	371	350	334	257
Estonia	birthplace	-	2	28	114	167	183	182	140
Finland	birthplace	30	34	41	49	49	47	58	43
France	birthplace	-	-	-	-	-	2 193	2 305	2 564
Germany	birthplace	-	-	-	-	-	-	2 741	2 924
Greece	citizenship	-	-	-	126	116	68	104	111
Hungary	birthplace	-	42	44	-	64	56	57	47
Ireland	birthplace	-	-	-	35	65	49	65	107
Italy	birthplace	-	-	-	-	961	1 201	1 391	1 293
Latvia	birthplace	-	-	85	61	39	147	122	114
Lithuania	birthplace	-	-	157	231	146	160	174	133
Malta	citizenship	-	-	-	-	-	5	3	9
Netherlands	citizenship	913	833	817	805	898	879	881	854
Portugal	birthplace	-	-	-	-	325	434	491	584
Slovakia	birthplace	-	2	0	1	4	8	13	12
Slovenia	birthplace	111	106	101	81	103	94	84	77
Sweden	birthplace	315	291	300	269	319	305	286	296
United Kingdom	birthplace	-	-	-	2 987	2 967	3 384	3 610	4 167
Subtotal EU		-	-	-	-	-	-	13 994	14 858
Andorra	citizenship	-	-	-	-	-	-	0	0
Iceland	birthplace	1	4	2	8	8	5	7	3
Israel	birthplace	27	345	370	560	449	500	477	432
Monaco	birthplace	-	0	0	0	2	0	0	0
Norway	birthplace	97	102	110	129	180	167	206	195
San Marino	citizenship	1	0	0	0	0	0	0	-
Switzerland	birthplace	-	-	403	411	469	341	338	399
Total EU & West		-	-	-	-	-	-	15 022	15 887

* Countries with at least two successive datapoints with the same classification of origin and with at least 80% of cases with information on origin in all years

† By birthplace of parents for Danish-born cases under 26 years of age

TABLES

**Table 6. Tuberculosis cases of foreign origin by area of origin, WHO European Region, 2002
(27 countries with individual data)**

Geographic area Country	Classification	Area of origin										Total
		WHO European Region				Asia		Africa		Other* / Unknown		
		EU & West		Centre and East		N	(%)	N	(%)	N	(%)	
EU & West												
Austria	citizenship	10	(3)	202	(68)	50	(17)	33	(11)	3	(1)	298
Belgium	citizenship	61	(9)	107	(16)	92	(14)	373	(57)	24	(4) †	657
Cyprus	birthplace	0	(0)	5	(71)	2	(29)	0	(0)	0	(0)	7
Czech Republic	birthplace	25	(15)	86	(52)	48	(29)	3	(2)	2	(1)	164
Danemark ‡	birthplace	3	(1)	31	(12)	97	(38)	99	(39)	27	(11) †	257
Estonia	birthplace	6	(4)	134	(96)	0	(0)	0	(0)	0	(0)	140
Finland	birthplace	1	(2)	9	(21)	14	(33)	17	(40)	2	(5)	43
France	birthplace	-	-	-	-	302	(12)	1 714	(67)	548	(21) §	2 564
Germany	birthplace	272	(9)	1 579	(54)	617	(21)	411	(14)	45	(2)	2 924
Greece	citizenship	5	(5)	70	(63)	27	(24)	9	(8)	0	(0)	111
Hungary	birthplace	3	(6)	29	(62)	11	(23)	4	(9)	0	(0)	47
Ireland	birthplace	15	(14)	9	(8)	35	(33)	44	(41)	4	(4)	107
Italy	birthplace	32	(2)	249	(19)	269	(21)	509	(39)	234	(18)	1 293
Latvia	birthplace	15	(13)	98	(86)	1	(1)	0	(0)	0	(0)	114
Luxembourg	birthplace	6	(46)	3	(23)	3	(23)	1	(8)	0	(0)	13
Malta	citizenship	1	(11)	0	(0)	0	(0)	8	(89)	0	(0)	9
Netherlands	citizenship	13	(2)	110	(13)	203	(24)	486	(57)	42	(5)	854
Portugal	birthplace	26	(4)	40	(7)	31	(5)	450	(77)	37	(6)	584
Slovakia	birthplace	0	(0)	2	(17)	9	(75)	1	(8)	0	(0)	12
Slovenia	birthplace	0	(0)	76	(99)	0	(0)	1	(1)	0	(0)	77
Sweden	birthplace	19	(4)	76	(2)	2 144	(53)	1 443	(35)	260	(6)	4 079
United Kingdom II	birthplace	156	(6)	58	(19)	105	(35)	108	(36)	8	(3)	296
Subtotal EU		669	(5)	2 971	(20)	4 060	(28)	5 714	(39)	1 236	(8)	14 650
Iceland	birthplace	0	(0)	0	(0)	2	(67)	0	(0)	1	(33)	3
Norway	birthplace	-	-	-	-	63	(32)	102	(52)	30	(15) **	195
Switzerland	birthplace	48	(12)	107	(27)	85	(21)	130	(33)	29	(7)	399
Total EU & West		717	(5)	3 078	(20)	4 210	(28)	5 946	(39)	1 296	(9)	15 247
Centre												
Croatia	birthplace	6	(4)	161	(96)	1	(1)	0	(0)	0	(0)	168
Romania	birthplace	1	(14)	2	(29)	2	(29)	2	(29)	0	(0)	7

* 850 cases from America and Oceania

† 1 case from Europe, country not specified

‡ By birthplace of parents for Danish-born cases under 26 years of age

§ 240 cases from Europe, country not specified

II Excluding Scotland

** 29 cases from Europe, country not specified

TABLES

Table 7. Tuberculosis cases by history of anti-TB treatment or of tuberculosis, WHO European Region, 2002

Geographic area Country	History of anti-TB treatment*								Total
	Never treated (new case)		Previously treated for TB		Unknown TB treatment history				
	N	(%)	N	(%)	Previously diagnosed with TB		Unknown TB history		
				N	(%)	N	(%)		
EU & West									
Austria	981	(92)	23	(2)	63	(6)	0	(0)	1 067
Belgium	952	(74)	-	-	91	(7)	251	(19)	1 294
Cyprus	18	(90)	2	(10)	0	(0)	0	(0)	20
Czech Republic	1 156	(96)	44	(4)	0	(0)	0	(0)	1 200
Denmark	386	(92)	-	-	33	(8)	0	(0)	419
Estonia	525	(74)	188	(26)	0	(0)	0	(0)	713
Finland	404	(85)	24	(5)	0	(0)	45	(10)	473
France	4 315	(68)	544	(9)	0	(0)	1 463	(23)	6 322
Germany	4 623	(60)	665	(9)	299	(4)	2 097	(27)	7 684
Greece	279	(48)	29	(5)	0	(0)	274	(47)	582
Hungary	2 507	(83)	464	(15)	36	(1)	0	(0)	3 007
Ireland	350	(86)	15	(4)	18	(4)	23	(6)	406
Italy	2 846	(68)	287	(7)	237	(6)	842	(20)	4 212
Latvia	1 540	(83)	315	(17)	0	(0)	0	(0)	1 855
Lithuania	2 097	(74)	323	(11)	424	(15)	0	(0)	2 844
Luxembourg	31	(97)	1	(3)	0	(0)	0	(0)	32
Malta	24	(100)	0	(0)	0	(0)	0	(0)	24
Netherlands	1 169	(83)	69	(5)	12	(1)	151	(11)	1 401
Poland	9 314	(89)	1 144	(11)	17	(0)	0	(0)	10 475
Portugal	4 220	(92)	371	(8)	0	(0)	0	(0)	4 591
Slovakia	873	(83)	176	(17)	4	(0)	0	(0)	1 053
Slovenia	313	(89)	37	(11)	0	(0)	0	(0)	350
Spain †	5 229	(69)	343	(4)	0	(0)	2 054	(27)	7 626
Sweden	375	(91)	36	(9)	1	(0)	0	(0)	412
United Kingdom ‡	5 149	(74)	-	-	222	(3)	1 603	(23)	6 974
Subtotal EU	49 676	(76)	5 100	(8)	1 457	(2)	8 803	(14)	65 036
Andorra	5	(100)	0	(0)	0	(0)	0	(0)	5
Iceland	8	(100)	0	(0)	0	(0)	0	(0)	8
Israel	462	(90)	28	(5)	21	(4)	0	(0)	511
Monaco	0	-	0	-	0	-	0	-	0
Norway	242	(95)	14	(5)	0	(0)	0	(0)	256
San Marino	1	(100)	0	(0)	0	(0)	0	(0)	1
Switzerland	467	(71)	67	(10)	0	(0)	124	(19)	658
Total EU & West	50 861	(77)	5 209	(8)	1 478	(2)	8 927	(13)	66 475
Centre									
Albania	571	(93)	41	(7)	0	(0)	0	(0)	612
Bosnia & Herzegovina	2 298	(90)	253	(10)	0	(0)	0	(0)	2 551
Bulgaria	2 962	(89)	373	(11)	0	(0)	0	(0)	3 335
Croatia	1 340	(91)	123	(8)	0	(0)	7	(0)	1 470
Macedonia, FYR	646	(88)	84	(12)	0	(0)	0	(0)	730
Romania	26 640	(78)	7 503	(22)	0	(0)	0	(0)	34 143
Serbia & Montenegro	2 789	(92)	244	(8)	0	(0)	0	(0)	3 033
Turkey	16 376	(86)	2 095	(11)	0	(0)	557	(3)	19 028
Total Centre	53 622	(83)	10 716	(17)	0	(0)	564	(1)	64 902
East									
Armenia	1 393	(96)	62	(4)	0	(0)	0	(0)	1 455
Azerbaijan	4 964	(93)	384	(7)	0	(0)	0	(0)	5 348
Belarus	4 432	(86)	683	(13)	0	(0)	24	(0)	5 139
Georgia	4 390	(69)	100	(2)	1 855	(29)	0	(0)	6 345
Kazakhstan	24 478	(74)	3 068	(9)	5 390	(16)	0	(0)	32 936
Kyrgyzstan	6 172	(91)	622	(9)	0	(0)	0	(0)	6 794
Moldova, Republic of	3 433	(83)	336	(8)	380	(9)	0	(0)	4 149
Russian Federation	123 340	(91)	11 472	(9)	0	(0)	0	(0)	134 812
Tajikistan	-	-	-	-	-	-	-	-	-
Turkmenistan	3 611	(78)	70	(2)	954	(21)	0	(0)	4 635
Ukraine	36 471	(91)	3 704	(9)	0	(0)	0	(0)	40 175
Uzbekistan	19 960	(74)	628	(2)	6 421	(24)	0	(0)	27 009
Total East	232 644	(87)	21 129	(8)	15 000	(6)	24	(0)	268 797
Total WHO European Region	337 127	(84)	37 054	(9)	16 478	(4)	9 515	(2)	400 174

* See technical note

† Respiratory and meningeal cases only

‡ Excluding Scotland

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Table 8. Tuberculosis cases by site of disease, WHO European Region, 2002

Geographic area Country	Classification	Pulmonary / Respiratory		Extra-pulmonary / Extra-respiratory		Unknown		Total
		N	(%)	N	(%)	N	(%)	
EU & West								
Austria	pulmonary	856	(80)	211	(20)	0	(0)	1 067
Belgium	pulmonary	974	(75)	316	(24)	4	(0)	1 294
Cyprus	pulmonary	14	(70)	6	(30)	0	(0)	20
Czech Republic	pulmonary	923	(77)	277	(23)	0	(0)	1 200
Denmark	pulmonary	308	(74)	111	(26)	0	(0)	419
Estonia	pulmonary	628	(88)	85	(12)	0	(0)	713
Finland	pulmonary	295	(62)	178	(38)	0	(0)	473
France	pulmonary	4 563	(72)	1 686	(27)	73	(1)	6 322
Germany	pulmonary	5 950	(77)	1 438	(19)	296	(4)	7 684
Greece	pulmonary	504	(87)	78	(13)	0	(0)	582
Hungary	pulmonary	2 789	(93)	218	(7)	0	(0)	3 007
Ireland	pulmonary	297	(73)	87	(21)	22	(5)	406
Italy	pulmonary	3 221	(76)	991	(24)	0	(0)	4 212
Latvia	pulmonary	1 624	(88)	231	(12)	0	(0)	1 855
Lithuania	pulmonary	2 351	(83)	493	(17)	0	(0)	2 844
Luxembourg	pulmonary	28	(88)	4	(13)	0	(0)	32
Malta	pulmonary	19	(79)	5	(21)	0	(0)	24
Netherlands	pulmonary	900	(64)	501	(36)	0	(0)	1 401
Poland	pulmonary	9 438	(90)	1 037	(10)	0	(0)	10 475
Portugal	pulmonary	3 355	(73)	1 222	(27)	14	(0)	4 591
Slovakia	pulmonary	845	(80)	208	(20)	0	(0)	1 053
Slovenia	pulmonary	295	(84)	55	(16)	0	(0)	350
Spain *	respiratory	7 493	(98)	133	(2)	0	(0)	7 626
Sweden	pulmonary	263	(64)	148	(36)	1	(0)	412
United Kingdom †	pulmonary	4 112	(59)	2 735	(39)	127	(2)	6 974
Subtotal EU		52 045	(80)	12 454	(19)	537	(1)	65 036
Andorra	pulmonary	4	(80)	1	(20)	0	(0)	5
Iceland	pulmonary	6	(75)	2	(25)	0	(0)	8
Israel	pulmonary	392	(77)	119	(23)	0	(0)	511
Monaco	pulmonary	0	-	0	-	0	-	0
Norway	pulmonary	157	(61)	99	(39)	0	(0)	256
San Marino	respiratory	0	(0)	1	(100)	0	(0)	1
Switzerland	pulmonary	504	(77)	154	(23)	0	(0)	658
Total EU & West		53 108	(80)	12 830	(19)	537	(1)	66 475
Centre								
Albania	pulmonary	410	(67)	202	(33)	0	(0)	612
Bosnia & Herzegovina	pulmonary	2 268	(89)	283	(11)	0	(0)	2 551
Bulgaria	respiratory	2 942	(88)	393	(12)	0	(0)	3 335
Croatia	pulmonary	1 323	(90)	147	(10)	0	(0)	1 470
Macedonia, F.Y.R.	pulmonary	557	(76)	173	(24)	0	(0)	730
Romania	pulmonary	30 197	(88)	3 946	(12)	0	(0)	34 143
Serbia & Montenegro	respiratory	2 817	(93)	216	(7)	0	(0)	3 033
Turkey	pulmonary	-	-	-	-	-	-	-
Total Centre		40 514	(88)	5 360	(12)	0	(0)	45 874
East								
Armenia	pulmonary	1 274	(88)	181	(12)	0	(0)	1 455
Azerbaijan	pulmonary	4 610	(86)	738	(14)	0	(0)	5 348
Belarus	respiratory	-	-	-	-	-	-	-
Georgia	pulmonary	5 010	(79)	1 335	(21)	0	(0)	6 345
Kazakhstan	pulmonary	31 745	(96)	1 191	(4)	0	(0)	32 936
Kyrgyzstan	pulmonary	4 334	(64)	2 460	(36)	0	(0)	6 794
Moldova, Republic of	pulmonary	3 542	(85)	607	(15)	0	(0)	4 149
Russian Federation	respiratory	-	-	-	-	-	-	-
Tajikistan	pulmonary	-	-	-	-	-	-	-
Turkmenistan	pulmonary	4 117	(89)	518	(11)	0	(0)	4 635
Ukraine	respiratory	-	-	-	-	-	-	-
Uzbekistan	pulmonary	23 692	(88)	3 317	(12)	0	(0)	27 009
Total East		78 324	(88)	10 347	(12)	0	(0)	88 671
Total WHO European Region		171 946	(86)	28 537	(14)	537	(0)	201 020

* Respiratory and meningeal cases only

† Excluding Scotland (respiratory classification)

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Table 9. Tuberculosis cases, by detailed site of disease and age group, WHO European Region, 2002*

Site of disease	Age group (years)							
	0-14 (Cases=886)		15-44 (Cases=11 897)		45 and over (Cases=15 084)		Total† (Cases=28 045)	
	Sites †	(%)§	Sites †	(%)§	Sites †	(%)§	Sites †	(%)§
Pulmonary	603	(68.1)	9 427	(79.2)	11 999	(79.5)	22 184	(79.1)
Extrapulmonary								
Pleura	36	(4.1)	928	(7.8)	919	(6.1)	1 887	(6.7)
Intrathoracic lymphnodes	174	(19.6)	262	(2.2)	211	(1.4)	651	(2.3)
Extrathoracic lymphnodes	68	(7.7)	760	(6.4)	676	(4.5)	1 507	(5.4)
Spine	8	(0.9)	109	(0.9)	180	(1.2)	298	(1.1)
Bone/joint other than spine	14	(1.6)	113	(0.9)	230	(1.5)	358	(1.3)
Meninges	14	(1.6)	81	(0.7)	76	(0.5)	171	(0.6)
CNS other than meninges II	2	(0.2)	17	(0.1)	14	(0.1)	34	(0.1)
Genito-urinary	4	(0.5)	193	(1.6)	549	(3.6)	751	(2.7)
Peritoneal / digestive	12	(1.4)	126	(1.1)	151	(1.0)	290	(1.0)
Disseminated ¶	14	(1.6)	231	(1.9)	188	(1.2)	435	(1.6)
Other	27	(3.0)	384	(3.2)	473	(3.1)	886	(3.2)
Unknown	17	(1.9)	115	(1.0)	202	(1.3)	336	(1.2)
Total sites	976		12 631		15 666		29 452	

* 18 countries with individual data: Austria, Belgium, Croatia, Cyprus, Czech Republic, Estonia, Germany, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Norway, Portugal, Slovakia, Slovenia and Switzerland

† Number of sites. One major and one minor site can be reported for a case (see technical note); both are counted in this Table

‡ Includes 178 cases with unknown age

§ Percentage of cases in which the site was reported; total exceeds 100%

II CNS = Central Nervous System

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

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Table 10. Tuberculosis cases by culture result, WHO European Region, 2002

Geographic area Country	Routine use of culture*	Laboratories which report TB cases	Positive		Negative / not done / unknown		Total
			N	(%)	N	(%)	
EU & West							
Austria	yes	-	696	(65)	371	(35)	1067
Belgium	yes	all	1 014	(78)	280	(22)	1 294
Cyprus	yes	none	13	(65)	7	(35)	20
Czech Republic	yes	all	758	(63)	442	(37)	1 200
Denmark	yes	none	320	(76)	99	(24)	419
Estonia	yes	all	535	(75)	178	(25)	713
Finland	yes	all	391	(83)	82	(17)	473
France	yes	none	1 839	(29)	4 483	(71)	6 322
Germany	yes	all	4 857	(63)	2 827	(37)	7 684
Greece	no	some	271	(47)	311	(53)	582
Hungary	yes	all	954	(32)	2 053	(68)	3 007
Ireland	yes	none	181	(45)	225	(55)	406
Italy	no	none	1 600	(38)	2 612	(62)	4 212
Latvia	yes	some	1 296	(70)	559	(30)	1 855
Lithuania	yes	none	1 544	(54)	1 300	(46)	2 844
Luxembourg	yes	all	32	(100)	0	(0)	32
Malta	yes	all	14	(58)	10	(42)	24
Netherlands	yes	none	768	(55)	633	(45)	1 401
Poland	yes	all	5 660	(54)	4 815	(46)	10 475
Portugal	yes	some	2 209	(48)	2 382	(52)	4 591
Slovakia	yes	all	504	(48)	549	(52)	1 053
Slovenia	yes	all	292	(83)	58	(17)	350
Spain †	yes	none	3 837	(50)	3 789	(50)	7 626
Sweden	yes	all	354	(86)	58	(14)	412
United Kingdom	yes	none	2 316	(31)	5 060	(69)	7 376
Subtotal EU			32 255	(49)	33 183	(51)	65 438
Andorra	yes	all	3	(60)	2	(40)	5
Iceland	yes	all	6	(75)	2	(25)	8
Israel	yes	all	344	(67)	167	(33)	511
Monaco	-	-	0	-	0	-	0
Norway	yes	all	192	(75)	64	(25)	256
San Marino	yes	none	1	(100)	0	(0)	1
Switzerland	no	all	519	(79)	139	(21)	658
Total EU & West			33 320	(50)	33 557	(50)	66 877
Centre							
Albania	no	some	232	(38)	380	(62)	612
Bosnia & Herzegovina	yes	all	1 494	(59)	1 057	(41)	2 551
Bulgaria	yes	some	1 626	(49)	1 709	(51)	3 335
Croatia	yes	all	844	(57)	626	(43)	1 470
Macedonia, F.Y.R.	no	some	142	(19)	588	(81)	730
Romania	no	all	19 045	(56)	15 098	(44)	34 143
Serbia & Montenegro	no	some	1 786	(59)	1 247	(41)	3 033
Turkey	yes	some	-	-	-	-	-
Total Centre			25 169	(55)	20 705	(45)	45 874
East							
Armenia	no	some	-	-	-	-	-
Azerbaijan	no	none	1 040	(19)	4 308	(81)	5 348
Belarus	yes	none	-	-	-	-	-
Georgia	no	none	-	-	-	-	-
Kazakhstan	no	all	3 122	(9)	29 814	(91)	32 936
Kyrgyzstan	no	none	-	-	-	-	-
Moldova, Republic of	no	none	-	-	-	-	-
Russian Federation	no	none	-	-	-	-	-
Tajikistan	no	some	-	-	-	-	-
Turkmenistan	no	all	-	-	-	-	-
Ukraine	no	-	-	-	-	-	-
Uzbekistan	no	none	-	-	-	-	-
Total East			4 162	(11)	34 122	(89)	38 284
Total WHO European Region			62 651	(41)	88 384	(59)	151 035

* Routine use of culture nationwide for pulmonary cases

† Respiratory and meningeal cases only

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Table 11. Tuberculosis cases by culture result and site of disease, WHO European Region, 2002 *

Geographic area Country	Culture done						Culture not done		No information		Total †
	Positive		Negative		Unknown		N	%	N	%	
	N	(%)	N	(%)	N	(%)					
A) Pulmonary cases											
EU & West											
Austria	593	(69)	134	(16)	0	(0)	129	(15)	0	(0)	856
Belgium	818	(84)	115	(12)	12	(1)	2	(0)	97	(10)	974
Cyprus	13	(93)	1	(7)	0	(0)	0	(0)	0	(0)	14
Czech Republic	636	(69)	287	(31)	0	(0)	0	(0)	0	(0)	923
Denmark	242	(79)	17	(6)	0	(0)	0	(0)	49	(16)	308
Estonia	501	(80)	119	(19)	0	(0)	8	(1)	0	(0)	628
Finland II	261	(88)	-	-	-	-	-	-	34	(12)	295
France	1 633	(36)	280	(6)	1 687	(37)	0	(0)	963	(21)	4 563
Germany	3 923	(66)	1 259	(21)	175	(3)	241	(4)	352	(6)	5 950
Greece	253	(50)	7	(1)	112	(22)	32	(6)	100	(20)	504
Hungary	899	(32)	1 252	(45)	138	(5)	436	(16)	64	(2)	2 789
Ireland	143	(48)	24	(8)	0	(0)	9	(3)	121	(41)	297
Italy	1 546	(48)	334	(10)	0	(0)	476	(15)	865	(27)	3 221
Latvia	1 242	(76)	356	(22)	0	(0)	26	(2)	0	(0)	1 624
Luxembourg	28	(100)	0	(0)	0	(0)	0	(0)	0	(0)	28
Malta	12	(63)	4	(21)	0	(0)	3	(16)	0	(0)	19
Netherlands	526	(58)	73	(8)	19	(2)	33	(4)	249	(28)	900
Portugal	2 049	(61)	268	(8)	69	(2)	696	(21)	273	(8)	3 355
Slovakia	451	(53)	361	(43)	0	(0)	8	(1)	25	(3)	845
Slovenia	261	(88)	17	(6)	0	(0)	16	(5)	1	(0)	295
Sweden	230	(87)	23	(9)	0	(0)	0	(0)	10	(4)	263
United Kingdom §‡	1 387	(34)	-	-	-	-	-	-	2 725	(66)	4 112
Subtotal EU	17 647	(54)	4 931	(15)	2 212	(7)	2 115	(6)	5 928	(18)	32 763
Iceland	5	(83)	0	(0)	0	(0)	1	(17)	0	(0)	6
Norway	119	(76)	20	(13)	0	(0)	0	(0)	18	(11)	157
Switzerland	399	(79)	-	-	-	-	77	(15)	28	(6)	504
Total EU & West	18 170	(54)	4 951	(15)	2 212	(7)	2 193	(7)	5 974	(18)	33 430
Centre											
Bosnia & Herzegovina II	1 030	(68)	490	(32)	0	(0)	0	(0)	0	(0)	1 520
Croatia	785	(59)	213	(16)	0	(0)	1	(0)	324	(24)	1 323
Romania	18 677	(62)	7 654	(25)	2 927	(10)	939	(3)	0	(0)	30 197
Total pulmonary cases	38 662	(58)	13 308	(20)	5 139	(8)	3 133	(5)	6 298	(9)	66 470
B) Extra-pulmonary cases											
EU & West											
Austria	103	(49)	33	(16)	0	(0)	75	(36)	0	(0)	211
Belgium	193	(61)	62	(20)	6	(2)	13	(4)	42	(13)	316
Cyprus	0	(0)	4	(67)	0	(0)	1	(17)	1	(17)	6
Czech Republic	122	(44)	155	(56)	0	(0)	0	(0)	0	(0)	277
Denmark	78	(70)	14	(13)	0	(0)	0	(0)	19	(17)	111
Estonia	34	(40)	48	(56)	0	(0)	3	(4)	0	(0)	85
Finland II	130	(73)	-	-	-	-	-	-	48	(27)	178
France	193	(11)	387	(23)	603	(36)	0	(0)	503	(30)	1 686
Germany	782	(54)	322	(22)	42	(3)	194	(13)	98	(7)	1 438
Greece	18	(23)	6	(8)	17	(22)	7	(9)	30	(38)	78
Hungary	55	(25)	78	(36)	5	(2)	77	(35)	3	(1)	218
Ireland	33	(38)	14	(16)	0	(0)	5	(6)	35	(40)	87
Italy	54	(5)	183	(18)	0	(0)	476	(48)	278	(28)	991
Latvia	54	(23)	42	(18)	1	(0)	134	(58)	0	(0)	231
Luxembourg	4	(100)	0	(0)	0	(0)	0	(0)	0	(0)	4
Malta	2	(40)	0	(0)	0	(0)	3	(60)	0	(0)	5
Netherlands	242	(48)	51	(10)	17	(3)	34	(7)	157	(31)	501
Portugal	156	(13)	110	(9)	33	(3)	198	(16)	725	(59)	1 222
Slovakia	53	(25)	138	(66)	0	(0)	8	(4)	9	(4)	208
Slovenia	31	(56)	14	(25)	0	(0)	9	(16)	1	(2)	55
Sweden	124	(84)	15	(10)	0	(0)	0	(0)	9	(6)	148
United Kingdom §‡	676	(25)	-	-	-	-	-	-	2 059	(75)	2 735
Subtotal EU	3 137	(29)	1 676	(16)	724	(7)	1 237	(11)	4 017	(37)	10 791
Iceland	1	(50)	1	(50)	0	(0)	0	(0)	0	(0)	2
Norway	73	(74)	9	(9)	0	(0)	0	(0)	17	(17)	99
Switzerland	120	(78)	-	-	-	-	21	(14)	13	(8)	154
Total EU & West	3 331	(30)	1 686	(15)	724	(7)	1 258	(11)	4 047	(37)	11 046
Centre											
Bosnia & Herzegovina II	4	(2)	223	(98)	0	(0)	0	(0)	0	(0)	227
Croatia	59	(40)	42	(29)	0	(0)	1	(1)	45	(31)	147
Romania	368	(9)	1 589	(40)	459	(12)	1 530	(39)	0	(0)	3 946
Total extra-pulmonary cases	3 762	(24)	3 540	(23)	1 183	(8)	2 789	(18)	4 092	(27)	15 366

* Countries providing individual data

† Excluding 820 cases with site unknown

‡ Only positive results reported

§ Excluding Scotland

|| Excluding Rep. Srpska

TABLES

Table 12. Tuberculosis cases by *M. tuberculosis* complex species, WHO European Region, 2002*

Geographic area Country	<i>M. tuberculosis</i>		<i>M. bovis</i>		<i>M. africanum</i>		Unknown / not done		Total culture positive
	N	(%)	N	(%)	N	(%)	N	(%)	
EU & West									
Austria	191	(27.4)	4	(0.6)	1	(0.1)	500	(71.8)	696
Belgium	972	(95.9)	4	(0.4)	0	(0.0)	38	(3.7)	1 014
Cyprus	13	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	13
Czech Republic	716	(94.5)	3	(0.4)	0	(0.0)	39	(5.1)	758
Denmark	305	(95.3)	2	(0.6)	0	(0.0)	13	(4.1)	320
Estonia	535	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	535
Finland	389	(99.5)	0	(0.0)	0	(0.0)	2	(0.5)	391
Hungary	954	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	954
Ireland	132	(72.9)	12	(6.6)	0	(0.0)	37	(20.4)	181
Italy	1 351	(84.4)	3	(0.2)	11	(0.7)	235	(14.7)	1 600
Latvia	1 296	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	1 296
Luxembourg	32	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	32
Malta	13	(92.9)	0	(0.0)	0	(0.0)	1	(7.1)	14
Netherlands	717	(93.4)	8	(1.0)	0	(0.0)	43	(5.6)	768
Slovakia	504	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	504
Slovenia	292	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	292
Sweden	344	(97.2)	9	(2.5)	1	(0.3)	0	(0.0)	354
Subtotal EU	8 756	(90.1)	45	(0.5)	13	(0.1)	908	(9.3)	9 722
Iceland	6	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	6
Norway	190	(99.0)	1	(0.5)	1	(0.5)	0	(0.0)	192
Switzerland	477	(91.9)	4	(0.8)	8	(1.5)	30	(5.8)	519
Total EU & West	9 429	(90.3)	50	(0.5)	22	(0.2)	938	(9.0)	10 439
Centre									
Bosnia & Herzegovina †	1 028	(99.4)	0	(0.0)	0	(0.0)	6	(0.6)	1 034
Croatia ‡	844	(100.0)	-	-	-	-	-	-	844
Romania	19 045	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	19 045

* Countries providing individual data

† Excluding Rep. Srpska

‡ Species other than *M. tuberculosis* not reported

TABLES

Table 13. Pulmonary tuberculosis cases by sputum smear result, WHO European Region, 2002

Geographic area Country	Classification of site	Routine use of sputum smear nationwide	Positive		Negative / Unknown		Total
			N	(%)	N	(%)	
EU & West							
Austria	pulmonary	yes	276	(32)	580	(68)	856
Belgium	pulmonary	yes	452	(46)	522	(54)	974
Cyprus	pulmonary	yes	10	(71)	4	(29)	14
Czech Republic	pulmonary	yes	337	(37)	586	(63)	923
Denmark	pulmonary	yes	150	(49)	158	(51)	308
Estonia	pulmonary	yes	298	(47)	330	(53)	628
Finland	pulmonary	yes	136	(46)	159	(54)	295
France	pulmonary	yes	2 558	(56)	2 005	(44)	4 563
Germany	pulmonary	yes	2 030	(34)	3 920	(66)	5 950
Greece	pulmonary	no	231	(46)	273	(54)	504
Hungary	pulmonary	yes	664	(24)	2 125	(76)	2 789
Ireland	pulmonary	yes	105	(35)	192	(65)	297
Italy	pulmonary	no	1 476	(46)	1 745	(54)	3 221
Latvia	pulmonary	yes	828	(51)	796	(49)	1 624
Lithuania	pulmonary	yes	1 202	(51)	1 149	(49)	2 351
Luxembourg	pulmonary	yes	18	(64)	10	(36)	28
Malta	pulmonary	yes	5	(26)	14	(74)	19
Netherlands	pulmonary	yes	356	(40)	544	(60)	900
Poland	pulmonary	yes	4 156	(44)	5 282	(56)	9 438
Portugal	pulmonary	yes	2 156	(64)	1 199	(36)	3 355
Slovakia	pulmonary	yes	242	(29)	603	(71)	845
Slovenia	pulmonary	yes	147	(50)	148	(50)	295
Spain	respiratory	yes	3 520	(47)	3 973	(53)	7 493
Sweden	pulmonary	no	121	(46)	142	(54)	263
United Kingdom *	pulmonary	yes	1 349	(33)	2 763	(67)	4 112
Subtotal EU			22 823	(44)	29 222	(56)	52 045
Andorra	pulmonary	yes	2	(50)	2	(50)	4
Iceland	pulmonary	yes	2	(33)	4	(67)	6
Israel	pulmonary	yes	188	(48)	204	(52)	392
Monaco	pulmonary	-	0	-	0	-	0
Norway	pulmonary	no	31	(20)	126	(80)	157
San Marino	respiratory	yes	0	-	0	-	0
Switzerland	pulmonary	no	145	(29)	359	(71)	504
Total EU & West			23 191	(44)	29 917	(56)	53 108
Centre							
Albania	pulmonary	no	253	(62)	157	(38)	410
Bosnia & Herzegovina	pulmonary	yes	899	(40)	1 369	(60)	2 268
Bulgaria	respiratory	yes	1 380	(47)	1 562	(53)	2 942
Croatia	pulmonary	yes	494	(37)	829	(63)	1 323
Macedonia, F.Y.R.	pulmonary	no	240	(43)	317	(57)	557
Romania	pulmonary	yes	16 511	(55)	13 686	(45)	30 197
Serbia & Montenegro	respiratory	no	-	-	-	-	-
Turkey	pulmonary	yes	-	-	-	-	-
Total Centre			19 777	(52)	17 920	(48)	37 697
East							
Armenia	pulmonary	no	573	(45)	701	(55)	1 274
Azerbaijan	pulmonary	no	1 981	(43)	2 629	(57)	4 610
Belarus	respiratory	yes	-	-	-	-	-
Georgia	pulmonary	yes	1 638	(33)	3 372	(67)	5 010
Kazakhstan	pulmonary	yes	15 115	(48)	16 630	(52)	31 745
Kyrgyzstan	pulmonary	yes	1 945	(45)	2 389	(55)	4 334
Moldova, Republic of	pulmonary	no	1 482	(42)	2 060	(58)	3 542
Russian Federation	respiratory	no	-	-	-	-	-
Tajikistan	pulmonary	no	-	-	-	-	-
Turkmenistan	pulmonary	yes	1 796	(44)	2 321	(56)	4 117
Ukraine	respiratory	-	-	-	-	-	-
Uzbekistan	pulmonary	no	8 501	(36)	15 191	(64)	23 692
Total East			33 031	(42)	45 293	(58)	78 324
Total WHO European Region			75 999	(45)	93 130	(55)	169 129

* Excluding Scotland (respiratory classification)

TABLES

Table 14. HIV infection among notified TB cases, WHO European Region*, 1997-2002

Geographic area Country	Patients tested for HIV	1997			1998			1999			2000			2001			2002		
		TB cases	HIV+ N (%)		TB cases	HIV+ N (%)		TB cases	HIV+ N (%)		TB cases	HIV+ N (%)		TB cases	HIV+ N (%)		TB cases	HIV+ N (%)	
EU & West																			
Belgium	19%	-	-	-	-	-	-	-	-	1 313	52	(4.0)	1 321	60	(4.5)	1 320	51	(3.9)	
Czech Rep.	22%	-	-	-	-	-	-	-	-	1 200	2	(0.2)	1 350	2	(0.1)	1 442	0	(0.0)	
Denmark	50%	-	-	-	-	-	-	537	13	(2.4)	548	11	(2.0)	511	11	(2.2)	-	-	-
Estonia	98%	744	1	(0.1)	820	0	(0.0)	754	1	(0.1)	791	1	(0.1)	812	7	(0.9)	713	20	(2.8)
France	41% †	6 756	318	(4.7)	6 651	282	(4.2)	6 674	264	(4.0)	6 714	327	(4.9)	6 465	364	(5.6)	-	-	-
Ireland	-	-	-	-	424	2	(0.5)	469	6	(1.3)	395	7	(1.8)	-	-	-	-	-	-
Latvia	90%	-	-	-	-	-	-	1 914	9	(0.5)	2 009	14	(0.7)	2 022	27	(1.3)	1 818	25	(1.4)
Lithuania ‡	-	-	-	-	-	-	-	-	-	-	2 668	2	(0.1)	2 606	3	(0.1)	2 420	1	(0.0)
Malta	100%	-	-	-	16	0	(0.0)	22	2	(9.1)	18	0	(0.0)	16	0	(0.0)	24	0	(0.0)
Netherlands	4% §	1 486	52	(3.5)	1 341	35	(2.6)	1 535	53	(3.5)	-	-	-	-	-	-	-	-	
Portugal	51% †	-	-	-	-	-	-	-	-	-	4 494	700	(15.6)	4 387	680	(15.5)	4 431	669	(15.1)
Slovakia	95%	1 296	0	(0.0)	1 282	0	(0.0)	1 218	0	(0.0)	1 111	0	(0.0)	1 076	0	(0.0)	1 053	0	(0.0)
Slovenia	28%	483	1	(0.2)	449	1	(0.2)	438	2	(0.5)	380	2	(0.5)	372	2	(0.5)	349	1	(0.3)
Spain II	45% †	-	-	-	-	-	-	-	-	-	8 395	815	(9.7)	7 453	599	(8.0)	7 626	926	(12.1)
United Kingdom ‡	-	-	-	-	-	-	-	17 633	479	(2.7) ¶	-	-	-	-	-	-	-	-	
Iceland	13%	10	0	(0.0)	17	0	(0.0)	12	0	(0.0)	13	0	(0.0)	13	0	(0.0)	8	1	(12.5)
Israel ‡	20%	-	-	-	656	25	(3.8)	520	13	(2.5)	591	28	(4.7)	564	25	(4.4)	475	24	(5.1)**
Centre																			
Albania	2%	655	0	(0.0)	694	0	(0.0)	765	2	(0.3)	631	1	(0.2)	572	3	(0.5)	612	3	(0.5)**
East																			
Armenia	15%	-	-	-	-	-	-	-	-	-	-	-	1 343	0	(0.0)	1 393	3	(0.2)	
Azerbaijan ‡	99%	4 302	2	(0.0)	4 350	6	(0.1)	4 629	4	(0.1)	5 113	5	(0.1)	4 877	12	(0.2)	4 428	7	(0.2)
Belarus ‡	92%	-	-	-	-	-	-	-	-	-	-	-	5 505	33	(0.6)	5 139	36	(0.7)	

* Totals of TB cases in this table were reported separately from main TB notification and may differ from that cited elsewhere in this report

Numbers (and percentages) of HIV positive TB cases presented here are likely to be lower than true figures because not all TB cases are tested for HIV and because reporting of HIV serostatus is often incomplete

† 2001

‡ HIV serostatus attributed through linkage between TB and HIV case reports

§ 1999

II Respiratory and meningeal TB cases only

¶ TB cases notified in 1998-2000

** Preliminary data for 2002

TABLES

Table 15. AIDS cases with tuberculosis as AIDS indicative disease, WHO European Region, 2002

(source: EuroHIV, European Non Aggregate AIDS Data Set, update June 2003)*

Geographic area Country	Total AIDS cases		AIDS indicative disease		TB as AIDS indicative disease						Cases of AIDS indicative TB/ total TB cases § (%)
	N	Rate / 100 000	N	(%)	Pulmonary TB †		Extra-pulmonary TB ‡		Total TB		
					N	(%)	N	(%)	N	(%)	
EU & West											
Austria	75	0.9	4	(5)	12	(16)	2	(3)	14	(19)	1.3%
Belgium	148	1.4	0	(0)	40	(27)	13	(9)	53	(36)	4.1%
Cyprus	n/a	-	-	-	-	-	-	-	-	-	-
Czech Republic	9	0.1	0	(0)	0	(0)	0	(0)	0	(0)	0.0%
Denmark	49	0.9	0	(0)	6	(12)	3	(6)	9	(18)	2.1%
Estonia	4	0.3	0	(0)	1	(25)	0	(0)	1	(25)	0.1%
Finland	21	0.4	0	(0)	6	(29)	3	(14)	9	(43)	1.9%
France	1 820	3.0	0	(0)	210	(12)	169	(9)	379	(21)	6.0%
Germany	1 018	1.2	0	(0)	45	(4)	36	(4)	81	(8)	1.1%
Greece	99	0.9	0	(0)	10	(10)	0	(0)	10	(10)	1.7%
Hungary	25	0.3	4	(16)	1	(4)	0	(0)	1	(4)	0.03%
Ireland	12	0.3	2	(17)	1	(8)	2	(17)	3	(25)	0.7%
Italy	1 863	3.2	0	(0)	106	(6)	77	(4)	183	(10)	4.3%
Latvia	55	2.3	0	(0)	23	(42)	0	(0)	23	(42)	1.2%
Lithuania	10	0.3	2	(20)	2	(20)	0	(0)	2	(20)	0.1%
Luxembourg	1	0.2	0	(0)	0	(0)	0	(0)	0	(0)	0.0%
Malta	4	1.0	0	(0)	0	(0)	0	(0)	0	(0)	0.0%
Netherlands	n/a	-	-	-	-	-	-	-	-	-	-
Poland	124	0.3	1	(1)	22	(18)	6	(5)	28	(23)	0.3%
Portugal	1 024	10.2	122	(12)	269	(26)	184	(18)	453	(44)	9.9%
Slovakia	2	0.04	0	(0)	0	(0)	0	(0)	0	(0)	0.0%
Slovenia	2	0.1	0	(0)	0	(0)	0	(0)	0	(0)	0.0%
Spain	3 937	9.9	0	(0)	634	(16)	584	(15)	1 218	(31)	8.3% II
Sweden	56	0.6	1	(2)	3	(5)	3	(5)	6	(11)	1.5%
United Kingdom	838	1.4	0	(0)	166	(20)	54	(6)	220	(26)	2.9%
Subtotal EU	11 196	2.6	136	(1)	1 557	(14)	1 136	(10)	2 693	(24)	3.3%
Andorra	n/a	-	-	-	-	-	-	-	-	-	-
Iceland	0	0.0	0	-	0	-	0	-	0	-	0.0%
Israel	72	1.1	6	(8)	22	(31)	8	(11)	30	(42)	5.9%
Monaco	0	0.0	0	-	0	-	0	-	0	-	-
Norway	33	0.7	0	(0)	7	(21)	3	(9)	10	(30)	3.9%
San Marino	1	3.7	0	(0)	0	(0)	0	(0)	0	(0)	0.0%
Switzerland	199	2.8	0	(0)	19	(10)	4	(2)	23	(12)	3.5%
Total EU & West	11 501	2.5	142	(1)	1 605	(14)	1 151	(10)	2 756	(24)	3.3%
Centre											
Albania	10	0.3	6	(60)	0	(0)	0	(0)	0	(0)	0.0%
Bosnia & Herzegovina	3	0.1	0	(0)	1	(33)	0	(0)	1	(33)	0.0%
Bulgaria	13	0.2	1	(8)	3	(23)	0	(0)	3	(23)	0.1%
Croatia	15	0.3	0	(0)	4	(27)	0	(0)	4	(27)	0.3%
Macedonia, F.Y.R.	5	0.2	0	(0)	0	(0)	0	(0)	0	(0)	0.0%
Romania	222	1.0	18	(8)	71	(32)	3	(1)	74	(33)	0.2%
Serbia & Montenegro	83	0.8	2	(2)	8	(10)	1	(1)	9	(11)	0.3%
Turkey	48	0.1	0	(0)	8	(17)	5	(10)	13	(27)	0.1%
Total Centre	399	0.3	27	(7)	95	(24)	9	(2)	104	(26)	0.2%
East											
Armenia	1	0.0	1	(100)	0	(0)	0	(0)	0	(0)	0.0%
Azerbaijan	14	0.2	0	(0)	11	(79)	0	(0)	11	(79)	0.2%
Belarus	18	0.2	0	(0)	5	(28)	1	(6)	6	(33)	0.1%
Georgia	51	1.0	9	(18)	8	(16)	16	(31)	24	(47)	0.4%
Kazakhstan	n/a	-	-	-	-	-	-	-	-	-	-
Kyrgyzstan	6	0.1	0	(0)	5	(83)	0	(0)	5	(83)	0.1%
Moldova, Republic of	18	0.4	1	(6)	2	(11)	0	(0)	2	(11)	0.05%
Russian Federation	n/a	-	-	-	-	-	-	-	-	-	-
Tajikistan	0	0.0	0	-	0	-	0	-	0	-	-
Turkmenistan	1	0.02	0	(0)	0	(0)	1	(100)	1	(100)	0.02%
Ukraine	1 385	2.8	710	(51)	430	(31)	8	(1)	438	(32)	1.1%
Uzbekistan	7	0.03	0	(0)	0	(0)	0	(0)	0	(0)	0.0%
Total East	1 501	1.2	721	(48)	461	(31)	26	(2)	487	(32)	0.6%
Total WHO European Region	13 401	1.9	890	(7)	2 161	(16)	1 186	(9)	3 347	(26)	1.3% II

* Numbers and rates of AIDS cases in this report differ from those in EuroHIV reports, usually presented by year of diagnosis, adjusted for reporting delay

† In persons over 12 years of age; includes cases with concomitant pulmonary and extrapulmonary TB

‡ At all ages

§ Total TB cases reported in 2002 (Table 1 of this report)

II For Spain, the numerator only includes pulmonary AIDS-indicative TB, as only respiratory and meningeal TB cases are notified in Spain

n/a = not available

TABLES

Table 16. Laboratory practices for anti-TB Drug Susceptibility Testing (DST), WHO European Region, 2002

Geographic area Country	No. labs. performing		DST methods					Quality assurance for DST					
	Culture	DST	non radiometric proportion †	radiometric proportion	resistance ratio	absolute concentr.	other	National *		International			
								No. labs	Year	% agreement of results for			
									INH	RMP			
EU & West													
Austria	11	9	■	-	-	-	-	no	-	yes	2003	100	100
Belgium	50	17	■	■	-	-	■	no	-	yes	2002	97	87
Cyprus ‡	2	0	-	■	-	-	-	-	-	-	-	-	-
Czech Republic	45	14	■	■	-	-	-	yes	14	no	-	-	-
Denmark	1	1	-	■	-	-	-	-	-	yes	2002	100	100
Estonia	3	2	-	■	-	-	-	yes	2	yes	2002	100	100
Finland	15	2	■	■	-	-	-	no	-	yes	2002	100	100
France	320	120	■	■	-	-	■	no	-	yes	2002	100	90
Germany	200	70	■	■	-	-	-	yes	70	yes	2002	100	100
Greece	7	5	■	■	-	-	■	no	-	no	-	-	-
Hungary	21	14	■	■	-	■	-	yes	12	yes	2002	100	100
Ireland	15	4	-	■	-	-	-	no	-	yes	2002	100	89
Italy	>200	>200	■	■	■	■	■	yes	20	yes	2003	100	100
Latvia	8	1	-	■	-	■	-	-	-	no	-	-	-
Lithuania	6	1	-	■	-	-	-	-	-	yes	2002	96	97
Luxembourg	1	1	■	■	-	-	-	-	-	no	-	-	-
Malta ‡	1	0	-	-	-	-	-	-	-	-	-	-	-
Netherlands	43	20	■	-	-	■	■	no	-	yes	2003	100	100
Portugal	60	14	■	■	-	-	■	no	-	yes	2002	100	100
Slovakia	15	7	■	-	-	-	-	yes	7	yes	2002	100	100
Slovenia	6	1	■	-	-	-	■	-	-	yes	2000	100	100
Spain	200	n/a	■	-	-	-	-	no	-	no	-	-	-
Sweden	5	5	-	■	-	-	-	yes	5	yes	2002	>90	>90
United Kingdom	~250	7	-	-	■	■	■	yes	6	yes	2003	100	100
Iceland ‡	1	0	■	■	-	-	-	-	-	-	-	-	-
Israel	18	2	-	-	■	-	■	no	-	yes	2002	100	89
Norway	14	4	-	■	-	-	-	no	-	yes	2001	-	-
Switzerland	33	15	■	■	-	-	-	yes	15	yes	2002	100	100
Centre													
Albania	3	1	■	-	-	-	-	-	-	yes	2002	90	90
Bosnia & Herzegovina §	5	5	■	■	-	-	-	yes	5	yes	2002	-	-
Bulgaria	28	19	■	-	-	-	-	no	-	no	-	-	-
Croatia §	16	11	■	-	-	-	-	yes	11	yes	2001	100	100
Macedonia	3	1	■	-	-	-	-	-	-	no	-	-	-
Romania	129	75	-	-	-	■	-	yes	3	yes	2002	95	95
Serbia & Montenegro	36	11	■	-	-	-	-	yes	5	no	-	-	-
East													
Armenia	2	2	■	-	-	■	-	no	-	no	-	-	-
Azerbaijan	12	12	■	-	-	■	-	no	-	no	-	-	-
Georgia II	1	1	■	-	-	■	-	-	-	no	-	-	-
Kazakhstan	21	21	-	-	-	■	-	yes	20	yes	2002	100	100
Kyrgyzstan	13	3	-	-	-	■	-	no	-	no	-	-	-
Moldova, Rep. of	4	4	-	-	-	■	-	no	-	no	-	-	-
Turkmenistan	1	1	■	-	-	-	-	-	-	no	-	-	-

n/a = not available; INH = isoniazid; RMP = rifampicin

* For countries with more than one national laboratory performing DST

† On Lowenstein-Jensen or Middlebrook7H10

‡ DST done abroad

§ Federation of Bosnia only

|| Last updated in 2002

TABLES

Table 17. Characteristics of Drug Resistance Surveillance (DRS), WHO European Region, 2002 *

Geographic area Country	Routine use of culture	Source of data	Geographic coverage of DRS	% of culture confirmed cases †	Cases included in DRS		
					Culture positive	Cases with DST result (INH & RMP) N	(%)
Group A) Culture and DST performed routinely; national data on all notified / representative sample of TB cases							
EU & West							
Austria	yes	TB notifications	national	65%	696	674	(97)
Belgium	yes	TB notifications	national	79%	1 014	806	(79)
Czech Republic	yes	TB notifications	national	63%	758	510	(67)
Denmark	yes	TB notifications	national	76%	320	307	(96)
Estonia	yes	TB notifications	national	75%	535	533	(100)
Finland	yes	TB notifications	national	83%	391	384	(98)
Germany	yes	TB notifications	national	63%	4 857	4 489	(92)
Ireland	yes	TB notifications	national	45%	181	133	(73)
Latvia	yes	TB notifications	national	70%	1 296	1 249	(96)
Lithuania	yes	TB notifications	national	54%	1 544	1 343	(87)
Luxembourg	yes	TB notifications	national	100%	32	32	(100)
Malta	yes	TB notifications	national	58%	14	13	(93)
Netherlands	yes	TB notifications	national	55%	768	768	(100)
Slovakia	yes	TB notifications	national	48%	504	497	(99)
Slovenia	yes	TB notifications	national	83%	292	292	(100)
Sweden	yes	TB notifications	national	86%	354	354	(100)
United Kingdom	yes	NRL ¶	national	58%	4 629	4 572	(99)
Subtotal EU					18 185	16 956	(93)
Iceland	yes	TB notifications	national	75%	6	6	(100)
Israel	yes	TB notifications	national	67%	344	344	(100)
Norway	yes	TB notifications	national	75%	192	192	(100)
Switzerland	yes	TB notifications	national	79%	519	515	(99)
Total EU & West					19 246	18 013	(94)
Centre							
Bosnia & Herzegovina §	yes	TB notifications	national	59%	1 034	1 033	(100)
Croatia	yes	TB notifications	national	57%	844	844	(100)
East							
Kazakhstan (2001) ‡		cluster sample survey	national	-	-	678	-
Group B) Culture / DST not routinely performed, data on selected cases / areas							
EU & West							
Cyprus	yes	TB notifications	national	40%	13	7	(54)
France	yes	28 teaching hosp. labs	national	-	1 528	1 511	(99)
Greece	no	All labs doing DST	unknown	-	-	587	-
Hungary	yes	TB notifications	national	32%	954	564	(59)
Italy	no	20 selected laboratories	partial	-	509	509	(100)
Portugal	yes	TB notifications	national	48%	2 209	1 077	(49)
Spain	yes	NRL	partial	-	2 088	2 088	(100)
Centre							
Albania	no	TB notifications	national	38%	232	199	(86)
Bulgari	yes	TB notifications	partial	-	1 626	246	(15)
Macedonia, FYR	no	NRL	national	49%	170	170	(100)
Romania	no	TB notifications	national	56%	19 045	4 688	(25)
Serbia & Montenegro	no	TB notifications	Belgrade	-	357	357	(100)
East							
Armenia	no	NRL	national	-	-	-	-
Azerbaijan	no	selected laboratories	partial	-	596	596	(100)
Georgia	no	NRL II	partial	-	201	183	(91)
Kazakhstan	no	All labs doing DST	national	-	39 923	14 245	(36)
Kyrgyzstan	no	NRL	partial	-	-	638	-
Moldova, Rep. of	no	TB notifications	national	-	1 162	1 022	(88)
Turkmenistan	no	NRL	partial	-	-	98	-

NRL = National Reference Laboratory

* Or last available year

† In areas included in DRS

‡ Data from countrywide survey in 2001

§ Federation of Bosnia only

|| Data from penitentiary system only

¶ Linkage with TB case notification ongoing

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Table 18. Global drug resistance, all tuberculosis cases, WHO European Region, 2002

Geographic area Country	Cases with DST result (INH & RMP)	Cases resistant to at least:									
		Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (MDR)		Ethambutol *		Streptomycin *	
		N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A) Culture and DST performed routinely; national data on all notified / representative sample of TB cases											
EU & West											
Austria	674	18	(2.7)	4	(0.6)	2	(0.3)	1	(0.1)	13	(1.9)
Belgium	806	61	(7.6)	22	(2.7)	21	(2.6)	17	(2.1)	-	-
Czech Republic	510	20	(3.9)	12	(2.4)	10	(2.0)	8	(1.6)	17	(3.3)
Denmark	307	16	(5.2)	2	(0.7)	1	(0.3)	4	(1.3)	33	(10.7)
Estonia	533	180	(33.8)	140	(26.3)	139	(26.1)	134	(25.1)	178	(33.4)
Finland	384	10	(2.6)	3	(0.8)	3	(0.8)	6	(1.6)	8	(2.1)
Germany	4 489	357	(8.0)	102	(2.3)	90	(2.0)	96	(2.1)	340	(7.6)
Ireland	133	4	(3.0)	1	(0.8)	0	(0.0)	0	(0.0)	-	-
Latvia	1 249	425	(34.0)	224	(17.9)	221	(17.7)	149	(11.9)	376	(30.1)
Lithuania	1 343	471	(35.1)	302	(22.5)	297	(22.1)	216	(16.1)	418	(31.1)
Luxembourg	32	0	(0.0)	0	(0.0)	0	(0.0)	3	(9.4)	0	(0.0)
Malta	13	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Netherlands	768	27	(3.5)	3	(0.4)	2	(0.3)	2	(0.3)	21	(2.7)
Slovakia	497	13	(2.6)	6	(1.2)	3	(0.6)	1	(0.2)	9	(1.8)
Slovenia	292	11	(3.8)	2	(0.7)	2	(0.7)	1	(0.3)	9	(3.1)
Sweden	354	33	(9.3)	4	(1.1)	4	(1.1)	1	(0.3)	24	(6.8)
United Kingdom	4 572	330	(7.2)	66	(1.4)	51	(1.1)	29	(0.6)	-	-
Iceland	6	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Israel	344	56	(16.3)	17	(4.9)	17	(4.9)	15	(4.4)	65	(18.9)
Norway	192	22	(11.5)	7	(3.6)	7	(3.6)	-	-	-	-
Switzerland	515	31	(6.0)	11	(2.1)	11	(2.1)	4	(0.8)	-	-
Centre											
Bosnia & Herzegovina §	1 033	6	(0.6)	4	(0.4)	4	(0.4)	3	(0.3)	2	(0.2)
Croatia	844	17	(2.0)	9	(1.1)	6	(0.7)	4	(0.5)	9	(1.1)
East											
Kazakhstan (survey)	-	-	-	-	-	-	-	-	-	-	-
Group B) Culture / DST not routinely performed, data on selected cases / areas											
EU & West											
Cyprus	7	1	(14.3)	1	(14.3)	1	(14.3)	0	(0.0)	2	(28.6)
France	1 511	81	(5.4)	34	(2.3)	23	(1.5)	15	(1.0)	-	-
Greece	587	43	(7.3)	26	(4.4)	22	(3.7)	16	(2.7)	41	(7.0)
Hungary	564	63	(11.2)	20	(3.5)	17	(3.0)	16	(2.8)	52	(9.2)
Italy	509	81	(15.9)	38	(7.5)	33	(6.5)	24	(4.7)	67	(13.2)
Portugal	1 077	77	(7.1)	29	(2.7)	27	(2.5)	23	(2.1)	94	(8.7)
Spain	2 088	109	(5.2)	46	(2.2)	31	(1.5)	9	(0.4)	30	(1.4)
Centre											
Albania	199	11	(5.5)	8	(4.0)	5	(2.5)	3	(1.5)	12	(6.0)
Bulgaria	246	150	(61.0)	122	(49.6)	81	(32.9)	-	-	-	-
Macedonia, FYR	170	15	(8.8)	2	(1.2)	2	(1.2)	2	(1.2)	14	(8.2)
Serbia & Montenegro	357	6	(1.7)	10	(2.8)	5	(1.4)	5	(1.4)	18	(5.0)
East											
Armenia †	507	195	(38.5)	147	(29.0)	118	(23.3)	94	(18.5)	263	(51.9)
Azerbaijan ‡	-	-	-	-	-	-	-	-	-	-	-
Georgia	183	85	(46.4)	33	(18.0)	33	(18.0)	51	(27.9)	85	(46.4)
Kazakhstan	14 245	6 116	(42.9)	4 272	(30.0)	3 453	(24.2)	4 267	(30.0)	7 202	(50.6)
Kyrgyzstan	638	264	(41.4)	127	(19.9)	122	(19.1)	144	(22.6)	414	(64.9)
Moldova, Rep. of	1 022	252	(24.7)	262	(25.6)	192	(18.8)	35	(3.4)	367	(35.9)
Turkmenistan II	98	63	(64.3)	55	(56.1)	42	(42.9)	-	-	-	-

* Data presented if DST results were available for > 90% of cases tested for INH and RMP

† Data on cases previously treated and with unknown treatment history

‡ New cases only

§ Federation of Bosnia only

II Data not classified by treatment history or geographic origin

TABLES

Table 19. Drug resistance among tuberculosis cases never treated (primary resistance), WHO European Region, 2002

Geographic area Country	Cases with DST result (INH & RMP)	Cases resistant to at least:									
		Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (MDR)		Ethambutol †		Streptomycin †	
		N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A) Culture and DST performed routinely; national data on all notified / representative sample of TB cases											
EU & West											
Austria*	631	15	(2.4)	3	(0.5)	1	(0.2)	1	(0.2)	12	(1.9)
Belgium*	629	43	(6.8)	16	(2.5)	15	(2.4)	13	(2.1)	-	-
Czech Republic	494	18	(3.6)	11	(2.2)	9	(1.8)	8	(1.6)	16	(3.2)
Denmark	283	15	(5.3)	2	(0.7)	1	(0.4)	4	(1.4)	30	(10.6)
Estonia	374	94	(25.1)	64	(17.1)	64	(17.1)	62	(16.6)	93	(24.9)
Finland	325	10	(3.1)	3	(0.9)	3	(0.9)	6	(1.8)	7	(2.2)
Germany	1 631	117	(7.2)	26	(1.6)	24	(1.5)	29	(1.8)	105	(6.4)
Ireland*	111	4	(3.6)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Latvia	960	257	(26.8)	96	(10.0)	95	(9.9)	70	(7.3)	229	(23.9)
Lithuania	925	217	(23.5)	87	(9.4)	84	(9.1)	65	(7.0)	187	(20.2)
Luxembourg	31	0	(0.0)	0	(0.0)	0	(0.0)	3	(9.7)	0	(0.0)
Malta*	13	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Netherlands	636	18	(2.8)	2	(0.3)	2	(0.3)	2	(0.3)	15	(2.4)
Slovakia	407	7	(1.7)	3	(0.7)	2	(0.5)	1	(0.2)	4	(1.0)
Slovenia	262	5	(1.9)	1	(0.4)	1	(0.4)	1	(0.4)	7	(2.7)
Sweden	308	27	(8.8)	4	(1.3)	4	(1.3)	1	(0.3)	18	(5.8)
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Iceland	6	0	-	0	-	0	-	0	-	-	-
Israel	305	40	(13.1)	6	(2.0)	6	(2.0)	4	(1.3)	48	(15.7)
Norway	184	20	(10.9)	7	(3.8)	7	(3.8)	-	-	-	-
Switzerland	368	13	(3.5)	3	(0.8)	3	(0.8)	0	(0.0)	-	-
Centre											
Bosnia & Herzegovina ‡	933	4	(0.4)	2	(0.2)	2	(0.2)	1	(0.1)	0	(0.0)
Croatia	747	11	(1.5)	6	(0.8)	4	(0.5)	2	(0.3)	6	(0.8)
East											
Kazakhstan (survey)	359	153	(42.6)	56	(15.6)	51	(14.2)	89	(24.8)	185	(51.5)
Group B) Culture / DST not routinely performed, data on selected cases / areas											
EU & West											
Cyprus*	0	0	-	0	-	0	-	0	-	0	-
France	1 255	59	(4.7)	17	(1.4)	11	(0.9)	8	(0.6)	-	-
Greece	587	43	(7.3)	26	(4.4)	22	(3.7)	16	(2.7)	41	(7.0)
Hungary	483	46	(9.5)	13	(2.7)	10	(2.1)	11	(2.3)	39	(8.1)
Italy	196	31	(15.8)	14	(7.1)	12	(6.1)	5	(2.6)	27	(13.8)
Portugal	994	62	(6.2)	19	(1.9)	17	(1.7)	14	(1.4)	84	(8.5)
Spain	907	43	(4.7)	8	(0.9)	4	(0.4)	0	(0.0)	11	(1.2)
Centre											
Albania	183	5	(2.7)	3	(1.6)	0	(0.0)	1	(0.5)	10	(5.5)
Bulgaria	111	46	(41.4)	41	(36.9)	16	(14.4)	-	-	-	-
Macedonia, FYR	110	5	(4.5)	0	(0.0)	0	(0.0)	2	(1.8)	9	(8.2)
Serbia & Montenegro	320	5	(1.6)	9	(2.8)	4	(1.3)	4	(1.3)	16	(5.0)
East											
Armenia	-	-	-	-	-	-	-	-	-	-	-
Azerbaijan	596	36	(6.0)	34	(5.7)	8	(1.3)	26	(4.4)	111	(18.6)
Georgia	121	48	(39.7)	12	(9.9)	12	(9.9)	26	(21.5)	49	(40.5)
Kazakhstan	7 441	2 325	(31.2)	1 229	(16.5)	947	(12.7)	1 573	(21.1)	2 878	(38.7)
Kyrgyzstan	525	181	(34.5)	75	(14.3)	70	(13.3)	88	(16.8)	322	(61.3)
Moldova, Rep. of	480	51	(10.6)	45	(9.4)	30	(6.3)	5	(1.0)	90	(18.8)
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-

* Information on previous TB treatment history not available or incomplete; classified according to TB history (See technical note)

† Data presented if DST results were available for > 90% of cases tested for INH and RMP

‡ Federation of Bosnia only

TABLES

Table 20. Drug resistance among tuberculosis cases previously treated (acquired resistance), WHO European Region, 2002

Geographic area Country	Cases with DST result (INH & RMP)	Cases resistant to at least:									
		Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (MDR)		Ethambutol †		Streptomycin ‡	
		N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A) Culture and DST performed routinely; national data on all notified / representative sample of TB cases											
EU & West											
Austria *	43	3	(7.0)	1	(2.3)	1	(2.3)	0	(0.0)	1	(2.3)
Belgium*	57	8	(14.0)	4	(7.0)	4	(7.0)	2	(3.5)	-	-
Czech Republic	16	2	(12.5)	1	(6.3)	1	(6.3)	0	(0.0)	1	(6.3)
Denmark	24	1	(4.2)	0	(0.0)	0	(0.0)	0	(0.0)	3	(12.5)
Estonia	159	86	(54.1)	76	(47.8)	75	(47.2)	72	(45.3)	85	(53.5)
Finland	18	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(5.6)
Germany	331	62	(18.7)	30	(9.1)	29	(8.8)	24	(7.3)	51	(15.4)
Ireland*	9	0	(0.0)	1	(11.1)	0	(0.0)	0	(0.0)	-	-
Latvia	289	168	(58.1)	128	(44.3)	126	(43.6)	79	(27.3)	147	(50.9)
Lithuania	418	254	(60.8)	215	(51.4)	213	(51.0)	151	(36.1)	231	(55.3)
Luxembourg	1	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Malta*	0	-	-	-	-	-	-	-	-	-	-
Netherlands	34	3	(8.8)	0	(0.0)	0	(0.0)	0	(0.0)	2	(5.9)
Slovakia	87	6	(6.9)	3	(3.4)	1	(1.1)	0	(0.0)	5	(5.7)
Slovenia	30	6	(20.0)	1	(3.3)	1	(3.3)	0	(0.0)	2	(6.7)
Sweden	46	6	(13.0)	0	(0.0)	0	(0.0)	0	(0.0)	6	(13.0)
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Iceland	0	0	-	0	-	0	-	0	-	-	-
Israel	39	16	(41.0)	11	(28.2)	11	(28.2)	11	(28.2)	17	(43.6)
Norway	8	2	(25.0)	0	(0.0)	0	(0.0)	-	-	-	-
Switzerland	45	12	(26.7)	7	(15.6)	7	(15.6)	4	(8.9)	-	-
Centre											
Bosnia & Herzegovina ‡	100	2	(2.0)	2	(2.0)	2	(2.0)	2	(2.0)	2	(2.0)
Croatia	97	6	(6.2)	3	(3.1)	2	(2.1)	2	(2.1)	3	(3.1)
East											
Kazakhstan (survey)	319	216	(67.7)	196	(61.4)	180	(56.4)	173	(54.2)	246	(77.1)
Group B) Culture / DST not routinely performed, data on selected cases / areas											
EU & West											
Cyprus*	1	1	(100.0)	1	(100.0)	1	(100.0)	0	(0.0)	1	(100.0)
France	92	17	(18.5)	14	(15.2)	10	(10.9)	7	(7.6)	-	-
Greece	0	-	-	-	-	-	-	-	-	-	-
Hungary	74	15	(20.3)	7	(9.5)	7	(9.5)	4	(5.4)	11	(14.9)
Italy	42	24	(57.1)	16	(38.1)	15	(35.7)	11	(26.2)	21	(50.0)
Portugal	83	15	(18.1)	10	(12.0)	10	(12.0)	9	(10.8)	10	(12.0)
Spain	156	18	(11.5)	13	(8.3)	9	(5.8)	4	(2.6)	7	(4.5)
Centre											
Albania	16	6	(37.5)	5	(31.3)	5	(31.3)	2	(12.5)	2	(12.5)
Bulgaria	135	104	(77.0)	81	(60.0)	65	(48.1)	-	-	-	-
Macedonia, FYR	23	10	(43.5)	2	(8.7)	2	(8.7)	0	(0.0)	2	(8.7)
Serbia & Montenegro	37	1	(2.7)	1	(2.7)	1	(2.7)	1	(2.7)	2	(5.4)
East											
Armenia	169	124	(73.4)	102	(60.4)	88	(52.1)	69	(40.8)	134	(79.3)
Azerbaijan	-	-	-	-	-	-	-	-	-	-	-
Georgia	62	37	(59.7)	21	(33.9)	21	(33.9)	25	(40.3)	36	(58.1)
Kazakhstan	6 804	3 791	(55.7)	3 043	(44.7)	2 506	(36.8)	2 694	(39.6)	4 324	(63.6)
Kyrgyzstan	113	83	(73.5)	52	(46.0)	52	(46.0)	56	(49.6)	92	(81.4)
Moldova, Rep. of	479	188	(39.2)	204	(42.6)	154	(32.2)	30	(6.3)	254	(53.0)
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-

* Information on previous TB treatment history not available or incomplete ; classified according to TB history (See technical note)

† Data presented if DST results were available for > 90% of cases tested for INH and RMP

‡ Federation of Bosnia only

TABLES

Table 21. Resistance to isoniazid by anti-TB treatment status, WHO European Region, 1998-2002 *

Geographic area Country	1998		1999		2000		2001		2002	
	Total tested †	Resistant to INH (%)	Total tested †	Resistant to INH (%)	Total tested †	Resistant to INH (%)	Total tested †	Resistant to INH (%)	Total tested †	Resistant to INH (%)
A) Cases never treated (primary resistance)										
EU & West										
Austria	669	(3.0)	703	(4.3)	694	(2.9)	589	(3.3)	631	(2.4)
Belgium	-	-	-	-	562	(5.3)	562	(6.4)	629	(6.8)
Czech republic	-	-	628	(1.6)	616	(3.4)	663	(3.2)	494	(3.6)
Denmark	412	(6.1)	392	(7.4)	392	(7.4)	356	(5.6)	283	(5.3)
Estonia	433	(25.4)	428	(27.3)	410	(22.9)	375	(24.0)	374	(25.1)
Finland	-	-	371	(0.5)	374	(2.7)	348	(3.4)	325	(7.1)
Germany	1 583	(4.9) ‡	2 206	(4.3) ‡	1 743	(3.8) ‡	2 354	(6.8)	1 631	(7.2)
Ireland	112	(0.9)	101	(2.0)	136	(2.9)	67	(1.5)	111	(3.6)
Latvia	789	(28.1)	825	(27.8)	897	(29.0)	911	(29.4)	960	(26.8)
Lithuania	1 181	(12.2)	819	(21.7)	701	(21.8)	972	(20.6)	925	(23.5)
Luxembourg	40	(7.5)	-	-	39	(5.1)	28	(3.6)	31	(0.0)
Malta	2	(0.0)	13	(0.0)	9	(0.0)	9	(0.0)	13	(0.0)
Netherlands	570	(3.1)	899	(5.8)	768	(5.6)	484	(5.0)	636	(2.8)
Slovakia	589	(1.2)	456	(1.8)	465	(3.2)	464	(2.6)	407	(1.7)
Slovenia	287	(0.7)	364	(2.3)	282	(2.1)	281	(3.2)	262	(1.9)
Sweden	335	(4.8)	377	(9.0)	322	(10.9)	338	(8.0)	308	(8.8)
United Kingdom	2 515	(3.9)	2 138	(6.2)	2 312	(5.9)	2 494	(6.9)	-	-
Iceland	10	(0.0)	7	(0.0)	8	(0.0)	11	(9.1)	6	(0.0)
Israel	-	-	-	-	253	(25.7)	294	(18.0)	305	(13.1)
Norway	158	(7.0)	144	(7.6)	160	(13.1)	182	(8.2)	184	(10.9)
Switzerland	405	(5.4)	428	(5.6)	330	(5.5)	342	(4.4)	368	(3.5)
Centre										
Bosnia & Herzegovina	-	-	1 154	(0.6)	993	(0.5)	1 132	(0.0)	933	(0.0) §
Croatia	-	-	761	(1.8)	780	(1.0)	713	(1.4)	747	(1.5)
B) Cases previously treated (acquired resistance)										
EU & West										
Austria	64	(6.8)	53	(13.2)	67	(3.0)	41	(12.2)	43	(7.0)
Belgium	-	-	-	-	78	(12.8)	74	(4.1)	57	(14.0)
Czech Republic	-	-	70	(8.6)	22	(9.1)	15	(6.7)	16	(12.5)
Denmark	32	(12.5)	24	(8.3)	33	(24.2)	24	(4.2)	24	(4.2)
Estonia	93	(49.5)	89	(53.9)	117	(54.7)	205	(62.0)	159	(54.1)
Finland	-	-	27	(3.7)	29	(13.8)	26	(11.5)	18	(0.0)
Germany	282	(17.7) ‡	303	(15.5) ‡	257	(17.1) ‡	499	(24.5)	331	(18.7)
Ireland	19	(0.0)	22	(0.0)	26	(3.8)	14	(7.1)	9	(0.0)
Latvia	224	(29.0)	190	(31.9)	247	(35.2)	187	(31.6)	289	(58.1)
Lithuania	288	(16.7)	167	(53.9)	220	(56.4)	480	(53.1)	418	(60.8)
Luxembourg	4	(0.0)	-	-	5	(0.0)	1	(0.0)	1	(0.0)
Malta	2	(0.0)	0	(0.0)	1	(0.0)	1	(0.0)	0	(0.0)
Netherlands	50	(8.0)	42	(7.1)	95	(8.4)	14	(0.0)	34	(8.8)
Slovakia	157	(5.7)	122	(4.9)	110	(10.9)	111	(9.0)	87	(6.9)
Slovenia	28	(3.6)	35	(5.7)	38	(7.9)	26	(11.5)	30	(20.0)
Sweden	30	(20.0)	31	(25.8)	42	(4.8)	21	(19.0)	46	(13.0)
United Kingdom	238	(8.8)	220	(4.5)	237	(10.1)	209	(7.7)	-	-
Iceland	1	(0.0)	1	(0.0)	1	(0.0)	1	(0.0)	0	(0.0)
Israel	-	-	-	-	24	(37.5)	23	(47.8)	39	(41.0)
Norway	17	(17.6)	40	(0.0)	10	(0.0)	32	(9.4)	8	(25.0)
Switzerland	53	(15.1)	57	(21.1)	57	(3.5)	59	(6.8)	45	(26.7)
Centre										
Bosnia & Herzegovina	-	-	121	(5.0)	153	(3.3)	154	(1.3)	100	(2.0) §
Croatia	-	-	93	(4.3)	99	(4.0)	93	(5.4)	97	(6.2)

* Countries in group A (see Table 17 and technical note). For trends in other countries, see country profiles

† Cases with DST results for INH and RMP

‡ Cases reported in selected health units

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Table 22. Multidrug resistance by anti-TB treatment status, WHO European Region, 1998-2002 *

Geographic area Country	1998		1999		2000		2001		2002	
	Total tested †	MDR (%)	Total tested †	MDR (%)	Total tested †	MDR (%)	Total tested †	MDR (%)	Total tested †	MDR (%)
A) Cases never treated (primary resistance)										
EU & West										
Austria	669	(0.3)	703	(0.3)	694	(0.4)	589	(0.7)	631	(0.2)
Belgium	-	-	-	-	562	(1.2)	562	(2.3)	629	(2.4)
Czech republic	-	-	628	(0.3)	616	(1.1)	663	(1.2)	494	(1.8)
Denmark	412	(0.5)	392	(0.0)	392	(0.3)	356	(0.0)	283	(0.4)
Estonia	433	(14.5)	428	(17.5)	410	(12.2)	375	(14.1)	374	(17.1)
Finland	-	-	371	(0.0)	374	(0.3)	348	(0.9)	325	(0.9)
Germany	1 583	(0.8) ‡	2 206	(0.8) ‡	1 743	(0.8) ‡	2 354	(2.3)	1 631	(1.5)
Ireland	112	(0.0)	101	(1.0)	136	(0.7)	67	(0.0)	111	(0.0)
Latvia	789	(9.0)	825	(10.4)	897	(9.3)	911	(10.9)	960	(9.9)
Lithuania	1 181	(4.7)	819	(7.8)	701	(8.7)	972	(7.7)	925	(9.1)
Luxembourg	40	(2.5)	-	-	39	(0.0)	28	(0.0)	31	(0.0)
Malta	2	(0.0)	13	(0.0)	9	(0.0)	9	(0.0)	13	(0.0)
Netherlands	570	(0.2)	899	(0.4)	768	(0.9)	484	(0.4)	636	(0.3)
Slovakia	589	(0.3)	456	(0.7)	465	(1.1)	464	(0.2)	407	(0.5)
Slovenia	287	(0.0)	364	(0.0)	282	(0.0)	281	(1.1)	262	(0.4)
Sweden	335	(0.6)	377	(0.8)	322	(1.2)	338	(0.6)	308	(1.3)
United Kingdom	2 515	(0.3)	2 138	(0.5)	2 312	(0.9)	2 494	(0.8)	-	-
Iceland	10	(0.0)	7	(0.0)	8	(0.0)	11	(0.0)	6	(0.0)
Israel	-	-	-	-	253	(14.2)	294	(5.8)	305	(2.0)
Norway	158	(0.6)	144	(2.1)	160	(1.9)	182	(1.1)	184	(3.8)
Switzerland	405	(0.5)	428	(0.7)	330	(0.0)	342	(0.9)	368	(0.8)
Centre										
Bosnia & Herzegovina	-	-	1 154	(0.3)	993	(0.1)	1 132	(0.0)	933	(0.0) §
Croatia	-	-	761	(0.3)	780	(0.1)	713	(0.3)	747	(0.5)
B) Cases previously treated (acquired resistance)										
EU & West										
Austria	64	(4.7)	53	(5.7)	67	(1.5)	41	(2.4)	43	(2.3)
Belgium	-	-	-	-	78	(5.1)	74	(1.4)	57	(7.0)
Czech Republic	-	-	70	(2.9)	22	(9.1)	15	(6.7)	16	(6.3)
Denmark	32	(3.1)	24	(0.0)	33	(3.0)	24	(0.0)	24	(0.0)
Estonia	93	(36.6)	89	(48.3)	117	(45.3)	205	(51.2)	159	(47.2)
Finland	-	-	27	(0.0)	29	(3.4)	26	(3.8)	18	(0.0)
Germany	282	(6.7) ‡	303	(5.9) ‡	257	(7.4) ‡	499	(7.1)	331	(8.8)
Ireland	19	(0.0)	22	(0.0)	26	(3.8)	14	(7.1)	9	(0.0)
Latvia	224	(23.7)	190	(26.8)	247	(27.1)	187	(27.3)	289	(43.6)
Lithuania	288	(10.8)	167	(42.5)	220	(43.2)	480	(39.8)	418	(51.0)
Luxembourg	4	(0.0)	-	-	5	(0.0)	1	(0.0)	1	(0.0)
Malta	2	(0.0)	0	(0.0)	1	(0.0)	1	(0.0)	0	(0.0)
Netherlands	50	(6.0)	42	(0.0)	95	(1.1)	14	(0.0)	34	(0.0)
Slovakia	157	(1.9)	122	(2.5)	110	(1.8)	111	(4.5)	87	(1.1)
Slovenia	28	(0.0)	35	(5.7)	38	(0.0)	26	(0.0)	30	(3.3)
Sweden	30	(10.0)	31	(12.9)	42	(2.4)	21	(9.5)	46	(0.0)
United Kingdom	238	(3.8)	220	(2.7)	237	(4.2)	209	(2.4)	-	-
Iceland	1	(0.0)	1	(0.0)	1	(0.0)	1	(0.0)	0	(0.0)
Israel	-	-	-	-	24	(20.8)	23	(21.7)	39	(28.2)
Norway	17	(5.9)	40	(0.0)	10	(0.0)	32	(9.4)	8	(0.0)
Switzerland	53	(1.9)	57	(10.5)	57	(1.8)	59	(3.4)	45	(15.6)
Centre										
Bosnia & Herzegovina	-	-	121	(2.5)	153	(2.0)	154	(1.3)	100	(2.0) §
Croatia	-	-	93	(3.2)	99	(1.0)	93	(3.2)	97	(2.1)

* Countries in group A (see Table 17 and technical note). For trends in other countries, see country profiles

† Cases with DST results for INH and RMP

‡ Cases reported in selected health units

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Table 23. Drug resistance, tuberculosis cases in persons born in/citizens of the country of report, WHO European Region, 2002

Geographic area Country	Definition used	Cases with DST results (INH & RMP)	Cases resistant to at least:									
			Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (MDR)		Ethambutol*		Streptomycin*	
			N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A) Culture and DST performed routinely; national data on all notified / representative sample of TB cases												
EU & West												
Austria	citiz	492	9	(1.8)	1	(0.2)	0	(0.0)	0	(0.0)	6	(1.2)
Belgium	citiz	400	16	(4.0)	3	(0.8)	3	(0.8)	2	(0.5)	-	-
Czech Republic	birth	458	15	(3.3)	10	(2.2)	8	(1.7)	7	(1.5)	12	(2.6)
Denmark †	birth	121	5	(4.1)	1	(0.8)	1	(0.8)	1	(0.8)	8	(6.6)
Estonia	birth	426	147	(34.5)	118	(27.7)	117	(27.5)	114	(26.8)	147	(34.5)
Finland	birth	338	3	(0.9)	1	(0.3)	1	(0.3)	4	(1.2)	2	(0.6)
Germany	birth	2 324	89	(3.8)	19	(0.8)	17	(0.7)	23	(1.0)	70	(3.0)
Ireland	birth	87	0	(0.0)	1	(1.1)	0	(0.0)	0	(0.0)	-	-
Latvia	birth	1 165	396	(34.0)	213	(18.3)	210	(18.0)	142	(12.2)	354	(30.4)
Lithuania	citiz	1 283	444	(34.6)	287	(22.4)	282	(22.0)	205	(16.0)	397	(30.9)
Luxembourg	birth	19	0	(0.0)	0	(0.0)	0	(0.0)	1	(5.3)	0	(0.0)
Malta	citiz	8	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Netherlands	citiz	294	8	(2.7)	1	(0.3)	1	(0.3)	0	(0.0)	4	(1.4)
Slovakia	birth	492	13	(2.6)	6	(1.2)	3	(0.6)	1	(0.2)	9	(1.8)
Slovenia	birth	228	8	(3.5)	1	(0.4)	1	(0.4)	1	(0.4)	6	(2.6)
Sweden	birth	100	5	(5.0)	1	(1.0)	1	(1.0)	0	(0.0)	2	(2.0)
United Kingdom	birth	-	-	-	-	-	-	-	-	-	-	-
Iceland	birth	3	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Israel	birth	44	9	(20.5)	3	(6.8)	3	(6.8)	3	(6.8)	11	(25.0)
Norway	birth	42	1	(2.4)	0	(0.0)	0	(0.0)	-	-	-	-
Switzerland	birth	148	6	(4.1)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Centre												
Bosnia & Herzegovina ‡	citiz	1 028	6	(0.6)	4	(0.4)	4	(0.4)	3	(0.3)	2	(0.2)
Croatia	birth	583	13	(2.2)	8	(1.4)	5	(0.9)	3	(0.5)	8	(1.4)
East												
Kazakhstan (survey)	-	-	-	-	-	-	-	-	-	-	-	-
Group B) Culture / DST not routinely performed, data on selected cases / areas												
EU & West												
Cyprus	citiz	-	-	-	-	-	-	-	-	-	-	-
France	birth	700	18	(2.6)	7	(1.0)	4	(0.6)	5	(0.7)	-	-
Greece	citiz	-	-	-	-	-	-	-	-	-	-	-
Hungary	birth	549	58	(10.6)	17	(3.1)	14	(2.6)	14	(2.6)	47	(8.6)
Italy	birth	262	34	(13.0)	21	(8.0)	19	(7.3)	14	(5.3)	33	(12.6)
Portugal	birth	959	64	(6.7)	20	(2.1)	19	(2.0)	17	(1.8)	82	(8.6)
Spain	birth	1 817	78	(4.3)	33	(1.8)	19	(1.0)	6	(0.3)	26	(1.4)
Centre												
Albania	-	199	11	(5.5)	8	(4.0)	5	(2.5)	3	(1.5)	12	(6.0)
Bulgaria	-	-	-	-	-	-	-	-	-	-	-	-
Macedonia, FYR	-	-	-	-	-	-	-	-	-	-	-	-
Serbia & Montenegro	-	-	-	-	-	-	-	-	-	-	-	-
East												
Armenia	birth	506	195	(38.5)	147	(29.1)	118	(23.3)	94	(18.6)	263	(52.0)
Azerbaijan	citiz	596	36	(6.0)	34	(5.7)	8	(1.3)	26	(4.4)	111	(18.6)
Georgia	-	-	-	-	-	-	-	-	-	-	-	-
Kazakhstan	-	-	-	-	-	-	-	-	-	-	-	-
Kyrgyzstan	citiz	638	264	(41.4)	127	(19.9)	122	(19.1)	144	(22.6)	414	(64.9)
Moldova, Rep. of	-	1 022	252	(24.7)	262	(25.6)	192	(18.8)	35	(3.4)	367	(35.9)
Turkmenistan	birth	98	63	(64.3)	55	(56.1)	42	(42.9)	-	-	-	-

birth = place of birth; citiz = citizenship

* Data presented if DST results were available for > 90% of cases tested for INH and RMP

† Up to the age of 25 years, cases are classified according to the place of birth of their parents

‡ Federation of Bosnia only

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Table 24. Drug resistance, tuberculosis cases in persons of foreign origin, WHO European Region, 2002

Geographic area Country	Definition used	Cases with DST results (INH & RMP)	Cases resistant to at least:									
			Isoniazid (INH)		Rifampicin (RMP)		INH & RMP (MDR)		Ethambutol*		Streptomycin*	
			N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
Group A) Culture and DST performed routinely; national data on all notified / representative sample of TB cases												
EU & West												
Austria	citiz	182	9	(4.9)	3	(1.6)	2	(1.1)	1	(0.5)	7	(3.8)
Belgium	citiz	406	45	(11.1)	19	(4.7)	18	(4.4)	12	(3.0)	-	-
Czech Republic	birth	52	5	(9.6)	2	(3.8)	2	(3.8)	1	(1.9)	5	(9.6)
Denmark †	birth	181	11	(6.1)	1	(0.6)	0	(0.0)	3	(1.7)	25	(13.8)
Estonia	birth	107	33	(30.8)	22	(20.6)	22	(20.6)	20	(18.7)	31	(29.0)
Finland	birth	39	7	(17.9)	2	(5.1)	2	(5.1)	2	(5.1)	6	(15.4)
Germany	birth	1 811	248	(13.7)	80	(4.4)	71	(3.9)	66	(3.6)	246	(13.6)
Ireland	birth	34	3	(8.8)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Latvia	birth	84	29	(34.5)	11	(13.1)	11	(13.1)	7	(8.3)	22	(26.2)
Lithuania	citiz	60	27	(45.0)	15	(25.0)	15	(25.0)	11	(18.3)	21	(35.0)
Luxembourg	birth	13	0	(0.0)	0	(0.0)	0	(0.0)	2	(15.4)	0	(0.0)
Malta	citiz	5	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Netherlands	citiz	471	19	(4.0)	2	(0.4)	1	(0.2)	2	(0.4)	17	(3.6)
Slovakia	birth	5	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Slovenia	birth	64	3	(4.7)	1	(1.6)	1	(1.6)	0	(0.0)	3	(4.7)
Sweden	birth	254	28	(11.0)	3	(1.2)	3	(1.2)	1	(0.4)	22	(8.7)
United Kingdom	birth	-	-	-	-	-	-	-	-	-	-	-
Iceland	birth	3	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-
Israel	birth	300	47	(15.7)	14	(4.7)	14	(4.7)	12	(4.0)	54	(18.0)
Norway	birth	150	21	(14.0)	7	(4.7)	7	(4.7)	-	-	-	-
Switzerland	birth	308	21	(6.8)	10	(3.2)	10	(3.2)	4	(1.3)	-	-
Centre												
Bosnia & Herzegovina ‡	citiz	5	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Croatia	birth	135	3	(2.2)	1	(0.7)	1	(0.7)	1	(0.7)	0	(0.0)
East												
Kazakhstan (survey)	-	-	-	-	-	-	-	-	-	-	-	-
Group B) Culture / DST not routinely performed, data on selected cases / areas												
EU & West												
Cyprus	citiz	0	0	-	0	-	0	-	0	-	0	-
France	birth	811	63	(7.8)	27	(3.3)	19	(2.3)	10	(1.2)	-	-
Greece	citiz	-	-	-	-	-	-	-	-	-	-	-
Hungary	birth	12	5	(41.7)	3	(25.0)	3	(25.0)	2	(16.7)	5	(41.7)
Italy	birth	247	47	(19.0)	17	(6.9)	14	(5.7)	10	(4.0)	34	(13.8)
Portugal	birth	115	13	(11.3)	9	(7.8)	8	(7.0)	6	(5.2)	12	(10.4)
Spain	birth	271	31	(11.4)	13	(4.8)	12	(4.4)	3	(1.1)	4	(1.5)
Centre												
Albania	-	-	-	-	-	-	-	-	-	-	-	-
Bulgaria	-	-	-	-	-	-	-	-	-	-	-	-
Macedonia, FYR	-	-	-	-	-	-	-	-	-	-	-	-
Serbia & Montenegro	-	-	-	-	-	-	-	-	-	-	-	-
East												
Armenia	birth	1	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Azerbaijan	citiz	-	-	-	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-	-	-	-	-
Kazakhstan	-	-	-	-	-	-	-	-	-	-	-	-
Kyrgyzstan	citiz	-	-	-	-	-	-	-	-	-	-	-
Moldova, Rep. of	-	-	-	-	-	-	-	-	-	-	-	-
Turkmenistan	birth	-	-	-	-	-	-	-	-	-	-	-

birth = place of birth; citiz = citizenship

* Data presented if DST results were available for > 90% of cases tested for INH and RMP

† Up to the age of 25 years, cases are classified according to the place of birth of their parents

‡ Federation of Bosnia only

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Table 25. Resistance to isoniazid by geographic origin, WHO European Region, 1998-2002 *

Geographic area Country	1998		1999		2000		2001		2002	
	Total tested †	Resistant to INH (%)	Total tested †	Resistant to INH (%)	Total tested †	Resistant to INH (%)	Total tested †	Resistant to INH (%)	Total tested †	Resistant to INH (%)
A) Cases in persons born in/citizens of the country of report										
EU & West										
Austria	557	(2.9)	581	(4.0)	564	(1.8)	493	(3.0)	492	(1.8)
Belgium	-	-	-	-	420	(2.9)	392	(4.3)	400	(4.0)
Czech republic	592	(6.9)	-	-	618	(3.7)	612	(1.8)	458	(3.3)
Denmark	170	(5.3)	285	(1.1)	165	(3.0)	139	(1.4)	121	(4.1)
Estonia	452	(29.9)	396	(33.3)	408	(28.9)	453	(37.1)	426	(34.5)
Finland	314	(1.0)	412	(0.5)	397	(2.3)	347	(1.2)	338	(0.9)
Germany	1 854	(2.9) ‡	2 048	(3.1) ‡	1 686	(2.4) ‡	2 121	(3.5)	2 324	(3.8)
Ireland	218	(0.9)	220	(3.6)	191	(2.1)	83	(1.2)	87	(0.0)
Latvia	-	-	982	(28.8)	1 058	(30.8)	1 025	(29.9)	1 165	(34.0)
Lithuania	1 372	(12.5)	-	-	868	(30.0)	1 373	(31.3)	1 283	(34.6)
Luxembourg	19	(5.3)	-	-	17	(0.0)	7	(14.3)	19	(0.0)
Malta	3	(0.0)	9	(0.0)	7	(0.0)	9	(0.0)	8	(0.0)
Netherlands	275	(4.0)	367	(3.5)	307	(4.2)	177	(2.8)	294	(2.7)
Slovakia	636	(2.5)	574	(2.3)	568	(4.6)	567	(3.5)	492	(2.6)
Slovenia	263	(1.1)	253	(2.0)	239	(2.5)	232	(3.4)	228	(3.5)
Sweden	141	(3.5)	138	(5.1)	109	(7.3)	113	(4.4)	100	(5.0)
United Kingdom	1 186	(3.1)	949	(4.1)	933	(4.3)	1 005	(6.2)	-	-
Iceland	8	(0.0)	3	(0.0)	6	(0.0)	5	(0.0)	3	(0.0)
Israel	40	(5.0)	27	(3.7)	38	(23.7)	32	(15.6)	44	(20.5)
Norway	84	(1.2)	62	(1.6)	49	(6.1)	60	(3.3)	42	(2.4)
Switzerland	145	(4.1)	215	(3.3)	178	(3.9)	156	(1.9)	148	(4.1)
Centre										
Croatia	-	-	646	(1.6)	590	(1.2)	566	(1.8)	583	(2.2)
B) Cases in persons born abroad / non citizens of the country of report										
EU & West										
Austria	176	(4.5)	175	(8.0)	197	(6.1)	160	(6.3)	182	(4.9)
Belgium	-	-	-	-	310	(11.3)	357	(10.1)	406	(11.1)
Czech republic	-	-	-	-	20	(0.0)	66	(16.7)	52	(9.6)
Denmark	274	(7.3)	131	(21.4)	260	(12.3)	241	(7.9)	181	(6.1)
Estonia	74	(28.4)	121	(27.3)	119	(33.6)	127	(38.6)	107	(3.8)
Finland	33	(15.2)	38	(2.6)	40	(15.0)	54	(16.7)	39	(17.9)
Germany	1 055	(12.2) ‡	1 276	(9.7) ‡	1 055	(11.8) ‡	1 552	(13.5)	1 811	(13.7)
Ireland	23	(4.3)	40	(5.0)	25	(8.0)	15	(6.7)	34	(8.8)
Latvia	-	-	33	(18.2)	86	(24.4)	73	(28.8)	84	(34.5)
Lithuania	97	(20.6)	-	-	53	(32.1)	79	(31.6)	60	(45.0)
Luxembourg	25	(8.0)	-	-	21	(4.8)	9	(0.0)	13	(0.0)
Malta	1	(0.0)	4	(0.0)	3	(0.0)	1	(0.0)	5	(0.0)
Netherlands	417	(3.6)	553	(7.1)	550	(6.9)	323	(5.9)	471	(4.0)
Slovakia	0	-	4	(25.0)	7	(14.3)	8	(25.0)	5	(0.0)
Slovenia	56	(0.0)	86	(4.7)	81	(3.7)	75	(5.3)	64	(4.7)
Sweden	225	(7.6)	270	(13.0)	254	(11.4)	246	(10.6)	254	(11.0)
United Kingdom	1 671	(6.1)	1 566	(6.8)	1 625	(7.6)	1 830	(7.4)	-	-
Iceland	3	(0.0)	5	(0.0)	3	(0.0)	7	(14.3)	3	(0.0)
Israel	267	(17.2)	304	(14.1)	235	(27.2)	285	(20.7)	300	(15.7)
Norway	91	(14.3)	122	(8.2)	121	(14.9)	154	(10.4)	150	(14.0)
Switzerland	291	(7.6)	372	(8.6)	266	(5.6)	283	(6.0)	308	(6.8)
Centre										
Croatia	-	-	141	(3.5)	146	(2.1)	125	(0.8)	135	(2.2)

* Countries in group A (see Table 17 and technical note). Trends in group B countries not interpretable (see country profiles)

† Cases with DST results for INH and RMP

‡ Cases reported in selected health units

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**Table 26. Multidrug resistance by geographic origin,
WHO European Region, 1998-2002***

Geographic area Country	1998		1999		2000		2001		2002	
	Total tested †	MDR (%)	Total tested †	MDR (%)	Total tested †	MDR (%)	Total tested †	MDR (%)	Total tested †	MDR (%)
A) Cases in persons born in / citizens of the country of report										
EU & West										
Austria	557	(0.4)	581	(0.0)	564	(0.2)	493	(0.4)	492	(0.0)
Belgium	-	-	-	-	420	(0.2)	392	(1.3)	400	(0.8)
Czech republic	592	(2.2)	-	-	618	(1.5)	612	(0.8)	458	(1.7)
Denmark	170	(0.0)	285	(0.0)	165	(0.0)	139	(0.0)	121	(0.8)
Estonia	452	(18.4)	396	(24.5)	408	(19.1)	453	(27.6)	426	(27.5)
Finland	314	(0.0)	412	(0.0)	397	(0.0)	347	(0.0)	338	(0.3)
Germany	1 854	(0.4) ‡	2 048	(0.3) ‡	1 686	(0.5) ‡	2 121	(1.0)	2 324	(0.7)
Ireland	218	(0.0)	220	(0.5)	191	(1.0)	83	(1.2)	87	(0.0)
Latvia	-	-	982	(13.5)	1 058	(13.1)	1 025	(13.8)	1 165	(18.0)
Lithuania	1 372	(5.5)	-	-	868	(17.2)	1 373	(18.3)	1 283	(22.0)
Luxembourg	19	(0.0)	-	-	17	(0.0)	7	(0.0)	19	(0.0)
Malta	3	(0.0)	9	(0.0)	7	(0.0)	9	(0.0)	8	(0.0)
Netherlands	275	(1.5)	367	(0.0)	307	(0.0)	177	(0.0)	294	(0.3)
Slovakia	636	(0.8)	574	(0.9)	568	(1.2)	567	(0.9)	492	(0.6)
Slovenia	263	(0.0)	253	(0.4)	239	(0.0)	232	(0.9)	228	(0.4)
Sweden	141	(0.0)	138	(0.7)	109	(1.8)	113	(1.8)	100	(1.0)
United Kingdom	1 186	(0.2)	949	(0.0)	933	(0.5)	1 005	(0.6)	-	-
Iceland	8	(0.0)	3	(0.0)	6	(0.0)	5	(0.0)	3	(0.0)
Israel	40	(2.5)	27	(0.0)	38	(10.5)	32	(3.1)	44	(6.8)
Norway	84	(0.0)	62	(1.6)	49	(2.0)	60	(0.0)	42	(0.0)
Switzerland	145	(0.0)	215	(0.0)	178	(0.0)	156	(0.0)	148	(0.0)
Centre										
Croatia	-	-	646	(0.5)	590	(0.2)	566	(0.7)	583	(0.9)
B) Cases in persons born abroad / non citizens of the country of report										
EU & West										
Austria	176	(1.7)	175	(2.9)	197	(1.5)	160	(1.9)	182	(1.1)
Belgium	-	-	-	-	310	(3.2)	357	(3.6)	406	(4.4)
Czech republic	-	-	-	-	20	(0.0)	66	(6.1)	52	(3.8)
Denmark	274	(1.1)	131	(0.0)	260	(0.8)	241	(0.0)	181	(0.0)
Estonia	74	(18.9)	121	(17.4)	119	(21.0)	127	(26.0)	107	(20.6)
Finland	33	(6.1)	38	(0.0)	40	(5.0)	54	(3.7)	39	(5.1)
Germany	1 055	(3.5) ‡	1 276	(2.7) ‡	1 055	(3.6) ‡	1 552	(5.1)	1 811	(3.9)
Ireland	23	(0.0)	40	(2.5)	25	(4.0)	15	(0.0)	34	(0.0)
Latvia	-	-	33	(12.1)	86	(12.8)	73	(12.3)	84	(13.1)
Lithuania	97	(11.3)	-	-	53	(13.2)	79	(19.0)	60	(25.0)
Luxembourg	25	(4.0)	-	-	21	(0.0)	9	(0.0)	13	(0.0)
Malta	1	(0.0)	4	(0.0)	3	(0.0)	1	(0.0)	5	(0.0)
Netherlands	417	(0.0)	553	(0.7)	550	(1.5)	323	(0.6)	471	(0.2)
Slovakia	0	-	4	(25.0)	7	(0.0)	8	(12.5)	5	(0.0)
Slovenia	56	(0.0)	86	(1.2)	81	(0.0)	75	(1.3)	64	(1.6)
Sweden	225	(2.2)	270	(2.2)	254	(1.2)	246	(0.8)	254	(1.2)
United Kingdom	1 671	(1.0)	1 566	(1.1)	1 625	(1.7)	1 830	(1.1)	-	-
Iceland	3	(0.0)	5	(0.0)	3	(0.0)	7	(0.0)	3	(0.0)
Israel	267	(9.0)	304	(8.6)	235	(15.7)	285	(7.4)	300	(4.7)
Norway	91	(2.2)	122	(1.6)	121	(1.7)	154	(3.2)	150	(4.7)
Switzerland	291	(1.0)	372	(3.0)	266	(0.8)	283	(2.5)	308	(3.2)
Centre										
Croatia	-	-	141	(1.4)	146	(0.7)	125	(0.0)	135	(0.7)

* Countries in group A (see Table 17 and technical note). Trends in group B countries not interpretable (see country profiles)

† Cases with DST results for INH and RMP

‡ Cases reported in selected health units

Table 27. Characteristics of treatment outcome monitoring (TOM), WHO European Region, 2001

Geographic area Country	Geographic coverage	Type of data provided	Sputum smear positive cases			Pulmonary culture positive cases		
			Notified in TOM areas †	Included in TOM cohorts N	(%)*	Notified in TOM areas †	Included in TOM cohorts N	(%)*
Group A) Complete cohorts with nationwide coverage								
EU & West								
Austria	national	individual	276	276	100%	590	590	100%
Belgium	national	aggregate	472	465	99%	739	724	98%
Cyprus	national	aggregate	26	26	100%	-	-	-
Czech Republic	national	individual	395	395	100%	729	729	100%
Estonia	national	individual	337	337	100%	557	557	100%
Germany	national	individual	2 034	2 034	100%	3 943	3 943	100%
Hungary	national	individual	725	725	100%	917	917	100%
Ireland	national	aggregate	125	128	102%	122	181	148%
Latvia	national	aggregate	882	874	99%	1 275	1 335	105%
Lithuania	national	aggregate	1 360	1 360	100%	1 698	1 698	100%
Malta	national	individual	3	3	100%	10	10	100%
Netherlands	national	individual	321	321	100%	627	627	100%
Poland	national	aggregate	3 699	3 636	98%	5 805	5 635	97%
Portugal	national	aggregate	2 097	2 284	109%	2 097	2 241	107%
Slovakia	national	individual	269	269	100%	517	517	100%
Slovenia	national	individual	154	154	100%	273	273	100%
Sweden	national	aggregate	111	113	102%	233	234	100%
Andorra	national	aggregate	1	1	100%	3	3	100%
Iceland	national	individual	3	3	100%	7	7	100%
Israel	national	aggregate	-	-	-	249	313	126%
Norway	national	individual	61	61	100%	156	156	100%
Centre								
Albania	national	aggregate	195	195	100%	191	191	100%
Macedonia, FYR	national	aggregate	190	190	100%	-	-	-
Romania	national	aggregate	14 115	15 966	113%	13 536	14 863	110%
Turkey ‡	national	aggregate	4 444	4 359	98%	-	-	-
East								
Azerbaijan §	national	aggregate	1 689	1 689	100%	-	-	-
Georgia	national	aggregate	1 691	1 691	100%	-	-	-
Kazakhstan	national	aggregate	12 095	11 794	98%	-	-	-
Kyrgyzstan	national	aggregate	1 774	1 754	99%	-	-	-
Moldova, Rep. of	national	aggregate	1 250	1 250	100%	-	-	-
Tajikistan	national	aggregate	781	768	98%	-	-	-
Turkmenistan	national	aggregate	1 797	1 797	100%	-	-	-
Group B) Incomplete cohorts or partial geographic coverage								
EU & West								
Denmark	national	aggregate	140	119	85%	254	213	84%
Italy	selected centres	aggregate	1 143	223	20%	1 212	31	26%
United Kingdom ¶	national	aggregate	1 394	1 050	75%	2 477	1 874	76%
Centre								
Bulgaria **	DOTS areas	aggregate	-	429	-	-	-	-
Serbia & Montenegro	Belgrade region	aggregate	288	288	100%	372	372	100%
East								
Armenia	DOTS areas	aggregate	330	330	100%	-	-	-
Russian Federation ††	DOTS areas	aggregate	4 933	4 912	100%	-	-	-
Uzbekistan ‡	DOTS areas	aggregate	854	854	100%	-	-	-

* May exceed 100% due to information on initial smear or culture results updated at follow-up

† In countries providing individual TOM data, numbers of cases notified in 2001 may differ from those presented in other parts of the report

‡ New cases only

§ Includes TB cases in prisoners

|| Retreated cases other than relapses not included in TOM

¶ Excluding Scotland

** Smear and culture positive cases

†† Sputum smear and/or culture positive cases

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Table 28. Outcome of new pulmonary sputum smear positive TB cases, WHO European Region, 2001

Geographic area Country	Total included	Success				Subtotal success	Died	Failed	Defaulted	Transferred	Still on treatment		Unknown						
		Cured		Treatment completed							N	(%)	N	(%)	N	(%)	N	(%)	
Group A) Complete cohorts with nationwide coverage																			
EU & West																			
Austria	253	0	(0)	195	(77)	195	(77)	22	(9)	0	(0)	17	(7)	0	(0)	0	(0)	19	(8)
Belgium	346	73	(21)	150	(43)	223	(64)	32	(9)	0	(0)	4	(1)	6	(2)	7	(2)	74	(21)
Cyprus	25	23	(92)	0	(0)	23	(92)	0	(0)	0	(0)	0	(0)	2	(8)	0	(0)	0	(0)
Czech Republic	380	207	(54)	69	(18)	276	(73)	18	(5)	1	(0)	4	(1)	0	(0)	0	(0)	81	(21)
Estonia	212	132	(62)	3	(1)	135	(64)	29	(14)	8	(4)	23	(11)	0	(0)	17	(8)	0	(0)
Germany	1 363	582	(44)	295	(23)	877	(64)	139	(10)	2	(0)	24	(2)	0	(0)	70	(5)	251	(18)
Hungary	579	189	(32)	76	(14)	265	(46)	75	(13)	66	(11)	35	(6)	21	(4)	107	(18)	10	(2)
Ireland	87	14	(16)	35	(40)	49	(56)	3	(3)	1	(1)	5	(6)	0	(0)	0	(0)	29	(33)
Latvia	661	467	(71)	16	(2)	483	(73)	66	(10)	9	(1)	44	(7)	0	(0)	59	(9)	0	(0)
Lithuania	935	673	(72)	0	(0)	673	(72)	103	(11)	27	(3)	107	(11)	4	(0)	21	(2)	0	(0)
Malta	3	1	(33)	2	(67)	3	(100)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
Netherlands	303	50	(17)	188	(62)	238	(79)	19	(6)	0	(0)	16	(5)	0	(0)	4	(1)	26	(9)
Poland	3 155	2 119	(67)	276	(9)	2 395	(76)	175	(6)	27	(1)	185	(6)	34	(1)	0	(0)	339	(11)
Portugal	2 042	198	(10)	1 398	(68)	1 596	(78)	104	(5)	4	(0)	93	(5)	74	(4)	171	(8)	0	(0)
Slovakia	226	189	(84)	7	(3)	196	(87)	24	(11)	1	(0)	2	(1)	0	(0)	3	(1)	0	(0)
Slovenia	139	33	(24)	81	(58)	114	(82)	11	(8)	1	(1)	7	(5)	3	(2)	3	(2)	0	(0)
Sweden	106	0	(0)	66	(62)	66	(62)	13	(12)	1	(1)	3	(3)	3	(3)	7	(7)	13	(12)
Andorra	1	1	(100)	0	(0)	1	(100)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
Iceland	3	0	(0)	2	(67)	2	(67)	0	(0)	0	(0)	1	(33)	0	(0)	0	(0)	0	(0)
Israel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Norway	58	32	(55)	19	(33)	51	(88)	3	(5)	0	(0)	2	(3)	2	(3)	0	(0)	0	(0)
Centre																			
Albania	171	76	(44)	80	(47)	156	(91)	2	(1)	7	(4)	2	(1)	4	(2)	0	(0)	0	(0)
Macedonia, FYR	164	83	(51)	63	(38)	146	(89)	0	(0)	4	(2)	13	(8)	0	(0)	0	(0)	1	(1)
Romania	11 275	6 794	(60)	1 699	(15)	8 493	(75)	634	(6)	833	(7)	849	(8)	124	(1)	76	(1)	266	(2)
Turkey	4 359	0	(0)	3 140	(72)	3 140	(72)	98	(2)	0	(0)	206	(5)	213	(5)	397	(9)	305	(7)
East																			
Azerbaijan	1 421	1 079	(76)	14	(1)	1 093	(77)	55	(4)	117	(8)	105	(7)	31	(2)	0	(0)	20	(1)
Georgia	1 014	339	(33)	340	(34)	679	(67)	21	(2)	76	(7)	146	(14)	79	(8)	0	(0)	13	(1)
Kazakhstan	8 894	6 774	(76)	148	(2)	6 922	(78)	418	(5)	1 036	(12)	325	(4)	193	(2)	0	(0)	0	(0)
Kyrgyzstan	1 458	1 059	(73)	122	(8)	1 181	(81)	68	(5)	84	(6)	89	(6)	36	(2)	0	(0)	0	(0)
Moldova, Rep. of *	1 060	120	(11)	563	(53)	683	(64)	9	(1)	37	(3)	11	(1)	12	(1)	0	(0)	308	(29)
Tajikistan	670	388	(58)	92	(14)	480	(72)	93	(14)	82	(12)	0	(0)	15	(2)	0	(0)	0	(0)
Turkmenistan	1 243	797	(64)	0	(0)	797	(64)	110	(9)	153	(12)	171	(14)	0	(0)	12	(1)	0	(0)
Group B) Incomplete cohorts or partial geographic coverage																			
EU & West																			
Denmark	108	61	(56)	34	(31)	95	(88)	2	(2)	0	(0)	0	(0)	3	(3)	0	(0)	8	(7)
Italy	198	58	(29)	21	(11)	79	(40)	0	(0)	2	(1)	5	(3)	22	(11)	0	(0)	90	(45)
United Kingdom	864	0	(0)	664	(77)	664	(77)	73	(8)	1	(0)	42	(5)	13	(2)	42	(5)	29	(3)
Centre																			
Bulgaria †	380	285	(75)	44	(12)	329	(87)	14	(4)	16	(4)	12	(3)	9	(2)	0	(0)	0	(0)
Serbia & Montenegro	262	201	(51)	37	(37)	238	(91)	14	(5)	0	(0)	5	(2)	3	(1)	1	(0)	1	(0)
East																			
Armenia	284	241	(85)	16	(6)	257	(90)	6	(2)	8	(3)	11	(4)	2	(1)	0	(0)	0	(0)
Russian Federation ‡	4 058	2 620	(65)	120	(3)	2 740	(68)	338	(8)	577	(14)	261	(6)	142	(3)	0	(0)	0	(0)
Uzbekistan	854	476	(56)	173	(20)	649	(76)	36	(4)	100	(12)	55	(6)	14	(2)	0	(0)	0	(0)

* Categories other than success and unknown only reported from DOTS areas

† Smear and culture positive cases

‡ Smear and/or culture positive cases

TABLES

Table 29. Outcome of retreated pulmonary sputum smear positive TB cases, WHO European Region, 2001

Geographic area Country	Total included	Success				Subtotal success	Died		Failed		Defaulted		Transferred		Still on treatment		Unknown	
		Cured N (%)	Treatment completed N (%)	N (%)	(%)		N (%)	(%)	N (%)	(%)	N (%)	(%)	N (%)	(%)	N (%)	(%)	N (%)	(%)
Group A) Complete cohorts with nationwide coverage																		
EU & West																		
Austria	9	0 (0)	7 (78)	7	(78)	1	(11)	0	(0)	0	(0)	0	(0)	0	(0)	1	(11)	
Belgium	42	8 (19)	17 (40)	25	(60)	6	(14)	0	(0)	0	(0)	0	(0)	1	(2)	10	(24)	
Cyprus	1	0 (0)	1 (100)	1	(100)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	
Czech Republic	15	7 (47)	3 (20)	10	(67)	0	(0)	0	(0)	0	(0)	2	(13)	0	(0)	3	(20)	
Estonia	125	37 (30)	4 (3)	41	(33)	13	(10)	17	(14)	18	(14)	0	(0)	36	(29)	0	(0)	
Germany	188	75 (40)	32 (17)	107	(57)	19	(10)	3 (2)	(2)	8 (4)	(4)	0	(0)	13	(7)	38	(20)	
Hungary	130	30 (23)	13 (10)	43	(32)	20	(15)	30 (23)	(23)	10 (8)	(8)	3 (2)	(2)	19	(15)	5	(4)	
Ireland	14	2 (14)	4 (29)	6	(43)	0	(0)	0	(0)	1 (7)	(7)	0	(0)	1	(7)	6	(43)	
Latvia	213	93 (44)	5 (2)	98	(46)	25	(12)	4 (2)	(2)	23 (11)	(11)	0	(0)	63	(30)	0	(0)	
Lithuania	425	162 (38)	0 (0)	162	(38)	80	(19)	36 (8)	(8)	102 (24)	(24)	1	(0)	44	(10)	0	(0)	
Malta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Netherlands	14	3 (21)	8 (57)	11	(79)	1	(7)	0	(0)	1 (7)	(7)	0	(0)	1	(7)	0	(0)	
Poland	481	303 (63)	40 (8)	343	(71)	30	(6)	14 (3)	(3)	43 (9)	(9)	0	(0)	0	(0)	51	(11)	
Portugal	242	18 (7)	132 (55)	150	(62)	23	(10)	0	(0)	24 (10)	(10)	14	(6)	31	(13)	0	(0)	
Slovakia	43	27 (63)	5 (12)	32	(74)	7	(16)	1 (2)	(2)	2 (5)	(5)	0	(0)	0	(0)	1	(2)	
Slovenia	15	4 (27)	8 (53)	12	(80)	0	(0)	0	(0)	1 (7)	(7)	0	(0)	2	(13)	0	(0)	
Sweden	7	0 (0)	3 (43)	3	(43)	1	(14)	0	(0)	0	(0)	1	(14)	0	(0)	2	(29)	
Andorra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Iceland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Israel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Norway	3	3 (100)	0 (0)	3	(100)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	
Centre																		
Albania	24	7 (29)	11 (46)	18	(75)	1	(4)	1 (4)	(4)	4 (17)	(17)	0	(0)	0	(0)	0	(0)	
Macedonia, FYR	26	10 (38)	4 (15)	14	(54)	3	(12)	1 (4)	(4)	7 (27)	(27)	0	(0)	0	(0)	1	(4)	
Romania	4 691	1 517 (32)	554 (12)	2 071	(44)	517	(11)	812 (17)	(17)	662 (14)	(14)	49	(1)	580	(12)	0	(0)	
Turkey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
East																		
Azerbaijan	268	96 (36)	4 (1)	100	(37)	45	(17)	65 (24)	(24)	58 (22)	(22)	0	(0)	0	(0)	0	(0)	
Georgia	677	144 (21)	163 (24)	307	(45)	59	(9)	83 (12)	(12)	180 (27)	(27)	32	(5)	0	(0)	16	(2)	
Kazakhstan	2 900	1 796 (62)	120 (4)	1 916	(66)	271	(9)	457 (16)	(16)	162 (6)	(6)	94 (3)	(3)	0	(0)	0	(0)	
Kyrgyzstan	296	186 (63)	39 (13)	225	(76)	18	(6)	19 (6)	(6)	26 (9)	(9)	8	(3)	0	(0)	0	(0)	
Moldova, Rep. of *	190	24 (13)	4 (2)	28	(15)	1	(1)	6 (3)	(3)	11 (6)	(6)	3	(2)	0	(0)	141	(74)	
Tajikistan	98	24 (24)	31 (32)	55	(56)	27	(28)	5 (5)	(5)	11 (11)	(11)	0	(0)	0	(0)	0	(0)	
Turkmenistan	554	387 (70)	0 (0)	387	(70)	40	(7)	50 (9)	(9)	71 (13)	(13)	6	(1)	0	(0)	0	(0)	
Group B) Incomplete cohorts or partial geographic coverage																		
EU & West																		
Denmark	11	5 (45)	2 (18)	7	(64)	1	(9)	1 (9)	(9)	1 (9)	(9)	1	(9)	0	(0)	0	(0)	
Italy	21	8 (38)	3 (14)	11	(52)	0	(0)	0	(0)	0	(0)	1	(5)	0	(0)	9	(43)	
United Kingdom	91	0 (0)	67 (74)	67	(74)	9	(10)	0	(0)	3 (3)	(3)	3	(3)	8	(9)	1	(1)	
Centre																		
Bulgaria †	49	26 (53)	12 (24)	38	(78)	3	(6)	7 (14)	(14)	1 (2)	(2)	0	(0)	0	(0)	0	(0)	
Serbia & Montenegro	26	12 (46)	1 (4)	13	(65)	8	(31)	0	(0)	1 (4)	(4)	0	(0)	0	(0)	4	(15)	
East																		
Armenia	46	31 (67)	0 (0)	31	(67)	0	(0)	10 (22)	(22)	5 (11)	(11)	0	(0)	0	(0)	0	(0)	
Russian Federation ‡	854	261 (31)	152 (18)	413	(48)	105	(12)	223 (26)	(26)	52 (6)	(6)	61	(7)	0	(0)	0	(0)	
Uzbekistan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

* Categories other than success and unknown only reported from DOTS areas

† Smear and culture positive cases

‡ Smear and/or culture positive cases

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Table 30. Outcome of new pulmonary culture positive TB cases, WHO European Region, 2001

Geographic area Country	Total included	Success						Died N (%)	Failed N (%)	Defaulted N (%)	Transferred N (%)	Still on treatment		Unknown					
		Cured		Treatment completed		Subtotal success						N	(%)	N	(%)	N	(%)	N	(%)
Group A) Complete cohorts with nationwide coverage																			
EU & West																			
Austria	547	0	(0)	416	(76)	416	(76)	51	(9)	0	(0)	35	(6)	0	(0)	0	(0)	45	(8)
Belgium	534	113	(21)	223	(42)	336	(63)	49	(9)	1	(0)	5	(1)	12	(2)	5	(1)	126	(24)
Cyprus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Czech Republic	704	362	(51)	125	(18)	487	(69)	33	(5)	2	(0)	10	(1)	2	(0)	0	(0)	170	(24)
Estonia	351	236	(67)	2	(1)	238	(68)	30	(9)	8	(2)	40	(11)	0	(0)	35	(10)	0	(0)
Germany	2 589	1 050	(41)	668	(26)	1 718	(66)	311	(12)	3	(0)	41	(2)	0	(0)	127	(5)	389	(15)
Hungary	732	292	(40)	100	(14)	392	(54)	74	(10)	73	(10)	49	(7)	24	(3)	113	(15)	7	(1)
Ireland	129	17	(13)	59	(46)	76	(59)	9	(7)	1	(1)	4	(3)	0	(0)	0	(0)	39	(30)
Latvia	1 004	745	(74)	24	(2)	769	(77)	69	(7)	9	(1)	67	(7)	1	(0)	89	(9)	0	(0)
Lithuania	1 142	844	(74)	0	(0)	844	(74)	112	(10)	26	(2)	130	(11)	4	(0)	26	(2)	0	(0)
Malta	9	1	(11)	7	(78)	8	(89)	1	(11)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
Netherlands	601	120	(20)	399	(66)	519	(86)	27	(4)	0	(0)	42	(7)	0	(0)	11	(2)	2	(0)
Poland	4 905	3 263	(67)	471	(10)	3 734	(76)	233	(5)	39	(1)	292	(6)	45	(1)	0	(0)	562	(11)
Portugal	2 024	210	(10)	1 416	(70)	1 626	(80)	94	(5)	5	(0)	103	(5)	67	(3)	129	(6)	0	(0)
Slovakia	413	340	(82)	16	(4)	356	(86)	47	(11)	2	(0)	4	(1)	0	(0)	4	(1)	0	(0)
Slovenia	250	61	(24)	137	(55)	198	(79)	35	(14)	1	(0)	10	(4)	2	(1)	4	(2)	0	(0)
Sweden	220	0	(0)	143	(65)	143	(65)	29	(13)	1	(0)	4	(2)	6	(3)	8	(4)	29	(13)
Andorra	2	2	(100)	0	(0)	2	(100)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
Iceland	7	0	(0)	6	(86)	6	(86)	0	(0)	0	(0)	1	(14)	0	(0)	0	(0)	0	(0)
Israel	288	224	(78)	3	(1)	227	(79)	25	(9)	3	(1)	17	(6)	8	(3)	0	(0)	8	(3)
Norway	145	75	(52)	49	(34)	124	(86)	8	(6)	0	(0)	4	(3)	8	(6)	1	(1)	0	(0)
Centre																			
Albania	177	57	(32)	101	(57)	158	(89)	7	(4)	5	(3)	3	(2)	4	(2)	0	(0)	0	(0)
Macedonia, FYR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Romania	10 960	5 239	(48)	2 540	(23)	7 779	(71)	464	(4)	639	(6)	641	(6)	94	(1)	117	(1)	1 226	(11)
Turkey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Group B) Incomplete cohorts or partial geographic coverage																			
EU & West																			
Denmark	196	101	(52)	72	(37)	173	(88)	6	(3)	0	(0)	1	(1)	5	(3)	0	(0)	11	(6)
Italy	270	71	(26)	39	(14)	110	(41)	2	(1)	2	(1)	12	(4)	26	(10)	0	(0)	118	(44)
United Kingdom	1 450	250	(17)	878	(61)	1 128	(78)	122	(8)	2	(0)	66	(5)	21	(1)	65	(4)	46	(3)
Centre																			
Bulgaria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia & Montenegro	335	225	(67)	42	(13)	267	(80)	18	(5)	0	(0)	10	(3)	1	(0)	1	(0)	38	(11)

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Table 31. Outcome of retreated pulmonary culture positive TB cases, WHO European Region, 2001

Geographic area Country	Total included	Success				Subtotal success	Died		Failed		Defaulted		Transferred		Still on treatment		Unknown		
		Cured		Treatment completed			N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	
Group A) Complete cohorts with nationwide coverage																			
EU & West																			
Austria	15	0	(0)	10	(67)	10	(67)	4	(27)	0	(0)	0	(0)	0	(0)	0	(0)	1	(7)
Belgium	80	18	(23)	31	(39)	49	(61)	11	(14)	0	(0)	0	(0)	0	(0)	3	(4)	17	(21)
Cyprus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Czech Republic	25	11	(44)	5	(20)	16	(64)	0	(0)	0	(0)	0	(0)	2	(8)	0	(0)	7	(28)
Estonia	206	66	(32)	4	(2)	70	(34)	21	(10)	19	(9)	31	(15)	0	(0)	65	(32)	0	(0)
Germany	327	144	(44)	63	(19)	207	(63)	30	(9)	3	(1)	10	(3)	0	(0)	22	(7)	55	(17)
Hungary	165	51	(31)	21	(13)	72	(44)	18	(11)	36	(22)	14	(8)	2	(1)	21	(13)	2	(1)
Ireland	21	2	(10)	8	(38)	10	(48)	0	(0)	0	(0)	1	(5)	0	(0)	1	(5)	9	(43)
Latvia	331	140	(42)	9	(3)	149	(45)	32	(10)	6	(2)	25	(8)	0	(0)	119	(36)	0	(0)
Lithuania	556	242	(44)	0	(0)	242	(44)	88	(16)	40	(7)	134	(24)	1	(0)	51	(9)	0	(0)
Malta	1	0	(0)	0	(0)	0	(0)	1	(100)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
Netherlands	21	5	(24)	12	(57)	17	(81)	1	(5)	0	(0)	2	(10)	0	(0)	1	(5)	0	(0)
Poland	730	455	(62)	56	(8)	511	(70)	41	(6)	20	(3)	70	(10)	2	(0)	0	(0)	86	(12)
Portugal	217	24	(11)	131	(60)	155	(71)	21	(10)	0	(0)	27	(12)	13	(6)	1	(0)	0	(0)
Slovakia	104	75	(72)	10	(10)	85	(82)	15	(14)	1	(1)	2	(2)	0	(0)	0	(0)	1	(1)
Slovenia	23	6	(26)	13	(57)	19	(83)	0	(0)	0	(0)	2	(9)	0	(0)	2	(9)	0	(0)
Sweden	14	0	(0)	6	(43)	6	(43)	2	(14)	0	(0)	1	(7)	1	(7)	0	(0)	4	(29)
Andorra	1	1	(100)	0	(0)	1	(100)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)	0	(0)
Iceland	0	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-	0	-
Israel	25	17	(68)	3	(12)	20	(80)	2	(8)	1	(4)	0	(0)	0	(0)	1	(4)	1	(4)
Norway	11	6	(55)	1	(9)	7	(64)	0	(0)	0	(0)	0	(0)	2	(18)	2	(18)	0	(0)
Centre																			
Albania	14	4	(29)	5	(36)	9	(64)	1	(7)	1	(7)	3	(21)	0	(0)	0	(0)	0	(0)
Macedonia, FYR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Romania	3 903	1 182	(30)	625	(16)	1 807	(46)	394	(10)	597	(15)	580	(15)	38	(1)	487	(12)	0	(0)
Turkey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Group B) Incomplete cohorts or partial geographic coverage																			
EU & West																			
Denmark	17	7	(41)	5	(29)	12	(71)	1	(6)	1	(6)	2	(12)	1	(6)	0	(0)	0	(0)
Italy	33	9	(27)	4	(12)	13	(39)	1	(3)	0	(0)	1	(3)	1	(3)	0	(0)	17	(52)
United Kingdom	136	25	(18)	76	(56)	101	(74)	20	(15)	0	(0)	4	(3)	3	(2)	6	(4)	2	(1)
Centre																			
Bulgaria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia & Montenegro	37	17	(46)	4	(11)	21	(57)	8	(22)	0	(0)	1	(3)	0	(0)	0	(0)	7	(19)