
COUNTRY PROFILES



COUNTRY PROFILES

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NOTE ON COUNTRY PROFILES

Country profiles for 1999 are presented for all countries except San Marino, where zero cases of TB were notified in 1999. Data may differ from those published by WHO, mainly for countries providing individual data to EuroTB, due to further validation.

TB case notifications

The median age of TB cases was calculated only for countries providing individual data.

Drug resistance surveillance

Data presented are be provided on TB cases notified in 1999 or on TB cases diagnosed in selected laboratories or clinical Centres, unlinked to TB notification. In countries where culture or drug susceptibility testing (DST) are not routinely performed for TB diagnosis, or where DST results are provided for a small proportion of culture positive cases notified, data may not be representative of the country situation.

1998 data presented when 1999 data not available.

Figures

The Figure on the bottom left showing numbers of TB cases and TB notification rates for the period 1995-1999, is presented for all countries. When information on geographic origin is available for at least three data points and for at least 85% of cases, numbers of cases are shown by geographic origin (nationals / foreigners).

The other Figures are presented for countries with at least 50 TB cases notified in 1999. The Figure "Tuberculosis notification rates by age group" is presented when at least three data points are available. The Figure "Tuberculosis cases by age group, sex and geographic origin" is presented for countries where at least 5% of TB cases notified were of foreign origin.

Abbreviations used are as follows:

DST = Drug susceptibility testing

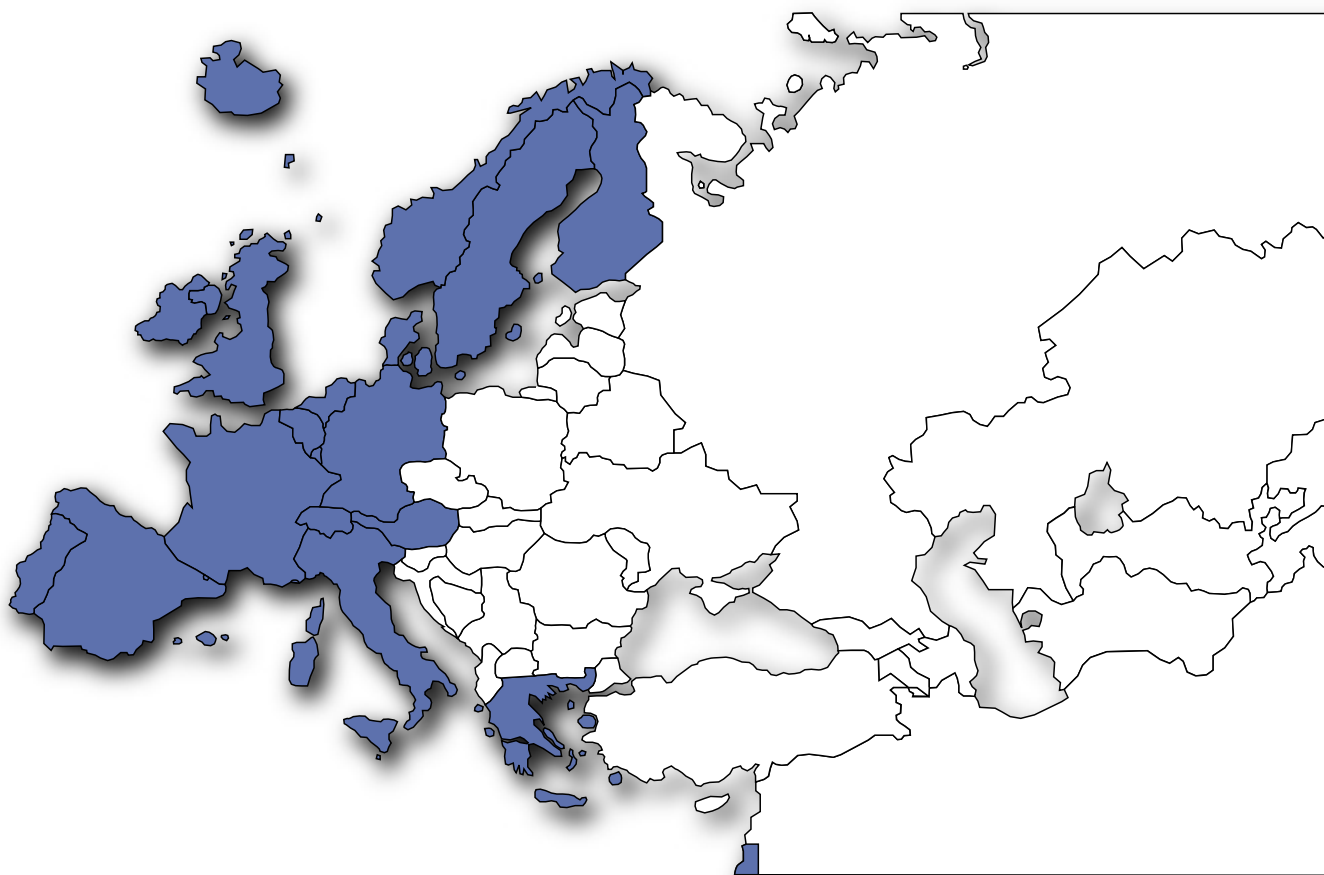
INH = Isoniazid

RMP = Rifampicin

na = not available

COUNTRY PROFILES

West



ANDORRA

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	9	
Notification rate per 100 000	12.0	
Sex ratio (male/female)	1.3	
Median age (years)	–	
Individuals born abroad	2	(22.2%)
New (never treated)	9	(100%)
Culture positive	6	(66.7%)
Pulmonary	6	(66.7%)
among which sputum smear positive	3	(50.0%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	6/6 (100%)

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	6	–	0	–	0	–	6
Resistant to INH	0	(0.0)	–	–	–	–	0
Resistant to RMP	0	(0.0)	–	–	–	–	0
Multidrug resistant §	0	(0.0)	–	–	–	–	0

* Drug susceptibility testing; § resistant to at least INH and RMP

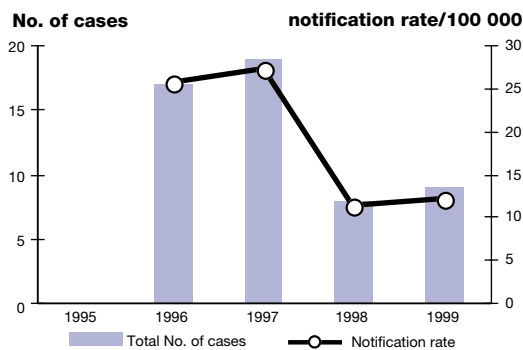
Tuberculosis notification rates by age group and sex, 1999

Insufficient number of cases for graphic presentation

Tuberculosis cases by age group, geographic origin and sex, 1999

Insufficient number of cases for graphic presentation

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Insufficient number of cases for graphic presentation

AUSTRIA

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	1 201
Notification rate per 100 000	14.7
Sex ratio (male/female)	1.7
Median age (years)	48
Foreign citizens	312 (26.0%)
New (never treated)	1 085 (90.3%)
Culture positive	756 (62.9%)
Pulmonary	984 (81.9%)
among which sputum smear positive	352 (35.8%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	756/756 (100%)

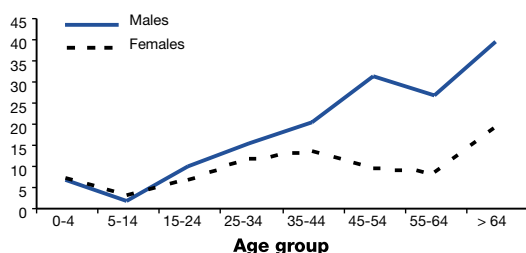
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	703	-	53	-	0	-	756
Resistant to INH	30	(4.3)	7	(13.2)	-	-	37
Resistant to RMP	5	(0.7)	3	(5.7)	-	-	8
Multidrug resistant §	2	(0.3)	3	(5.7)	-	-	5

* Drug susceptibility testing; § resistant to at least INH and RMP

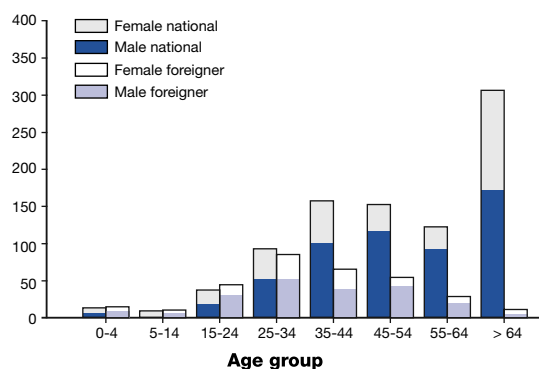
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

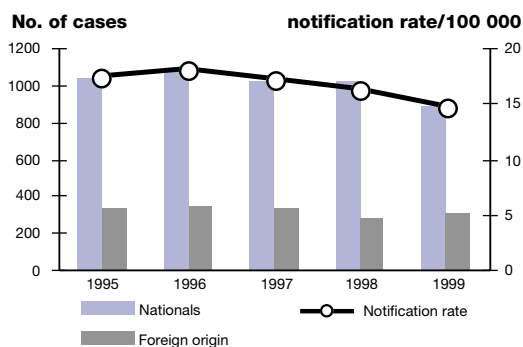


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases

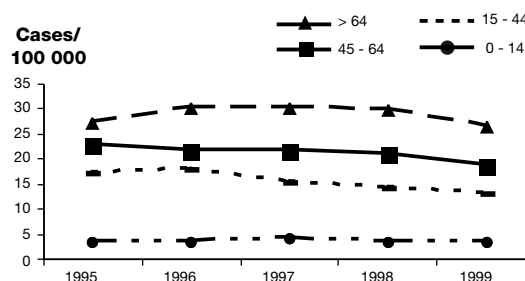


Number of TB cases by geographic origin and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



BELGIUM

Tuberculosis case notifications, 1999

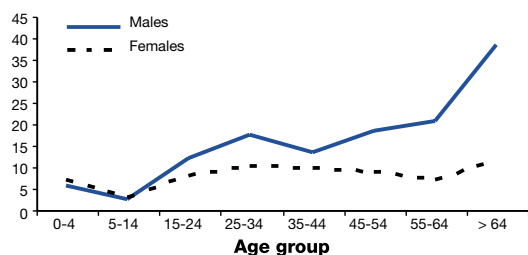
Type of data provided	Individual
Total number of cases	1 270
Notification rate per 100 000	12.5
Sex ratio (male/female)	1.9
Median age (years)	47
Foreign citizens	454 (35.7%)
New (never treated)	983 (77.4%)
Culture positive	926 (72.9%)
Pulmonary	957 (75.4%)
among which sputum smear positive	417 (43.6%)

Drug resistance surveillance, 1999

Not available

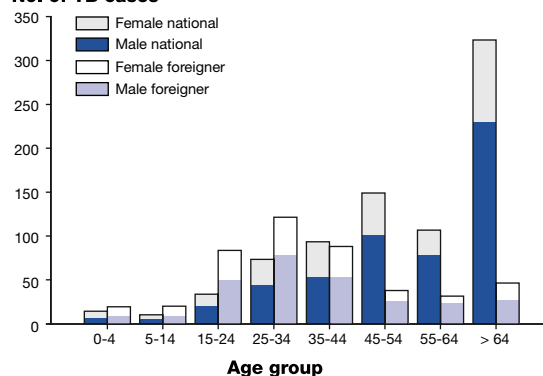
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000



Tuberculosis cases by age group, geographic origin and sex, 1999

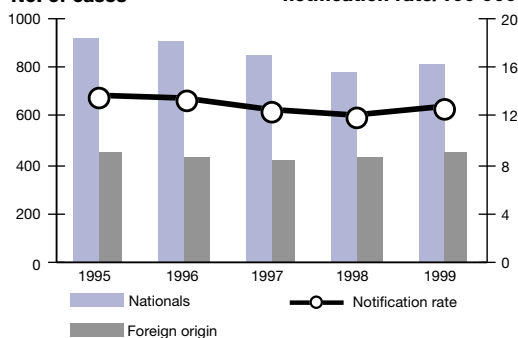
No. of TB cases



Number of TB cases by geographic origin and notification rates, 1995-1999

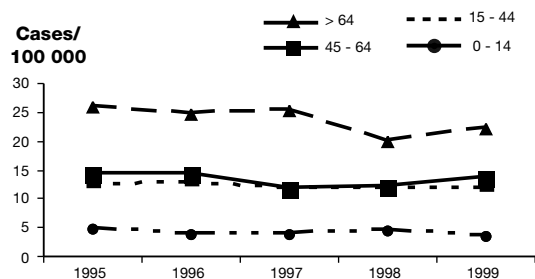
No. of cases

notification rate/100 000



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



DENMARK

Tuberculosis case notifications, 1999

Type of data provided	Individual*
Total number of cases	536
Notification rate per 100 000	10.1
Sex ratio (male/female)	1.3
Median age (years)	34
Individuals born abroad	372 (69.4%)
New (never treated)	502 (93.7%)
Culture positive	428 (79.9%)
Pulmonary	345 (64.4%)
among which sputum smear positive	113 (32.8%)

* Except DST data

Drug resistance surveillance, 1999

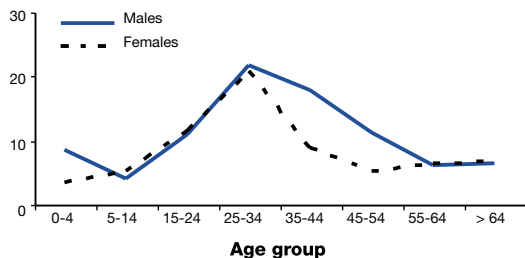
Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	416/428 (97%)

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	392	-	24	-	0	-	416
Resistant to INH	29	(7.4)	2	(8.3)	-	-	31
Resistant to RMP	1	(0.3)	0	(0.0)	-	-	1
Multidrug resistant §	0	(0.0)	0	(0.0)	-	-	0

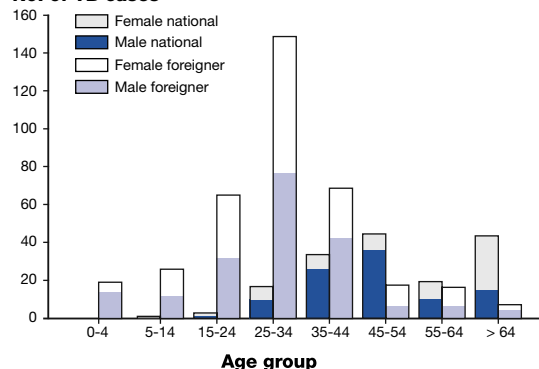
* Drug susceptibility testing; § resistant to at least INH and RMP

Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

Tuberculosis cases by age group, geographic origin and sex, 1999

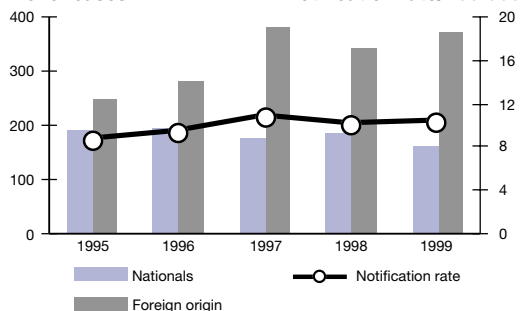
No. of TB cases



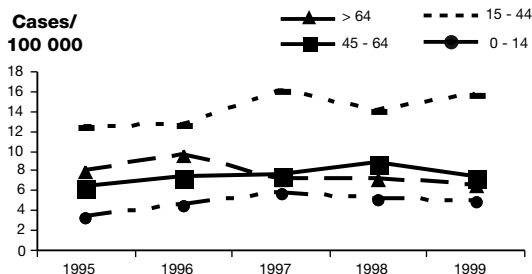
Number of TB cases by geographic origin and notification rates, 1995-1999

No. of cases

notification rate/100 000



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000

FINLAND

Tuberculosis case notifications, 1999

Type of data provided	Individual	
Total number of cases	566	
Notification rate per 100 000	11.0	
Sex ratio (male/female)	1.1	
Median age (years)	70	
Individuals born abroad	49	(8.7%)
New (never treated)	473	(83.6%)
Culture positive	477	(84.3%)
Pulmonary	382	(67.5%)
among which sputum smear positive	180	(47.1%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	450/477 (94%)

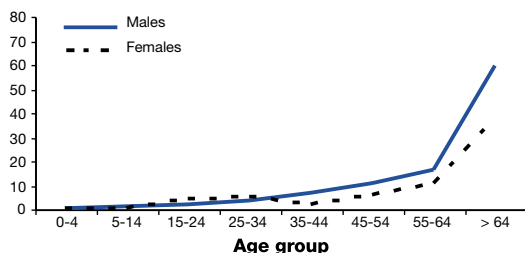
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	371	–	27	–	52	–	450
Resistant to INH	2	(0.5)	1	(3.7)	0	(0.0)	3
Resistant to RMP	0	(0.0)	0	(0.0)	0	(0.0)	0
Multidrug resistant §	0	(0.0)	0	(0.0)	0	(0.0)	0

* Drug susceptibility testing; § resistant to at least INH and RMP

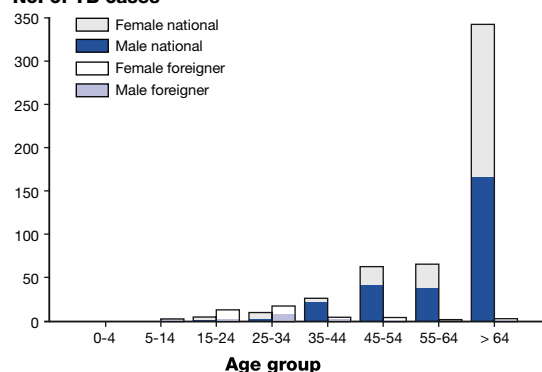
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000



Tuberculosis cases by age group, geographic origin and sex, 1999

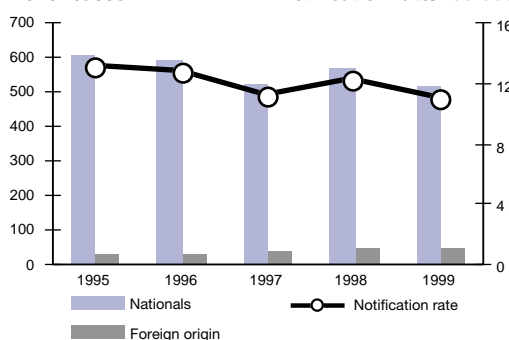
No. of TB cases



Number of TB cases by geographic origin and notification rates, 1995-1999

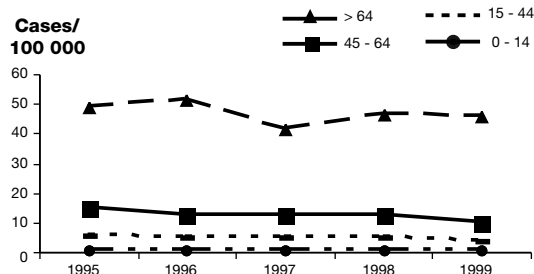
No. of cases

notification rate/100 000



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



FRANCE

Tuberculosis case notifications, 1999

Type of data provided	Individual*	
Total number of cases	6 674	
Notification rate per 100 000	11.0	
Sex ratio (male/female)	1.5	
Median age (years)	46	
Individuals born abroad §	1 932	(28.9%)
New (never treated)	4 196	(62.9%)
Culture positive**	1 683	(25.2%)
Pulmonary	4 780	(71.6%)
among which sputum smear positive	2 631	(55.0%)

* Except DST data; ** Culture result unknown for 32% of TB cases
§ 23% of cases with missing information

Drug resistance surveillance, 1999

Linkage with TB notifications	no
Geographic coverage	12/23 regions
Culture positive cases with DST* results	1 102/1 112 (99%)

Note: Cases diagnosed in 20 university hospitals in 12/23 regions

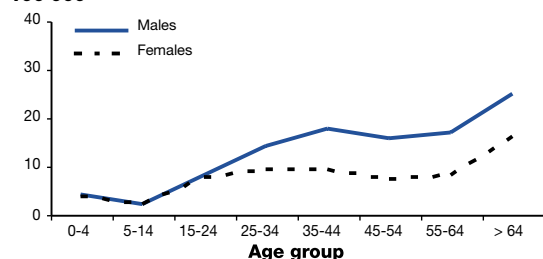
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	910	–	106	–	86	–	1 102
Resistant to INH	31	(3.4)	13	(12.3)	8	(9.3)	52
Resistant to RMP	7	(0.8)	10	(9.4)	0	(0.0)	17
Multidrug resistant §	6	(0.7)	9	(8.5)	0	(0.0)	15

* Drug susceptibility testing; § resistant to at least INH and RMP

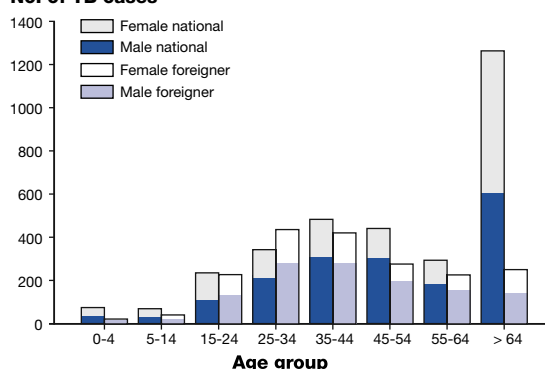
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

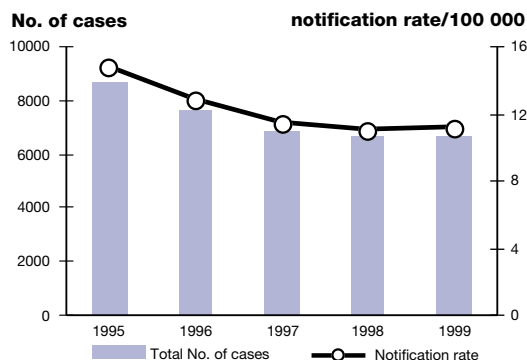


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases

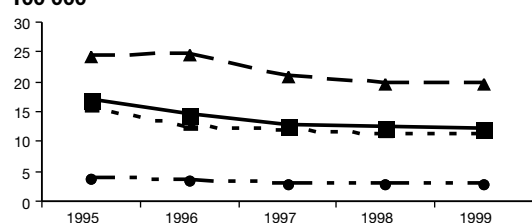


Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



GERMANY

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	9 974	
Notification rate per 100 000	12.1	
Sex ratio (male/female)	1.6	
Median age (years)	–	
Foreign citizens	3 305	(33.1%)
New (never treated)	–	–
Culture positive *	3 963	(66.7%)
Respiratory	8 297	(83.2%)
among which sputum smear positive	2 954	(35.6%)

* Data on 5945 TB cases notified in 285/430 public health units

Drug resistance surveillance, 1999

Linkage with TB notifications	yes (national sample)
Geographic coverage	national
Culture positive cases with DST* results	3356/4023 (83%)

Note: TB cases notified in 285/430 public health units

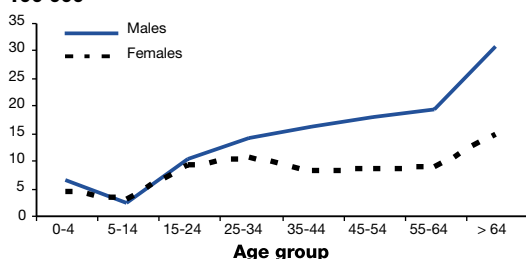
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	2 206	–	303	–	847	–	3 356
Resistant to INH	94	(4.3)	47	(15.5)	46	(5.4)	187
Resistant to RMP	23	(1.0)	23	(7.6)	6	(0.7)	52
Multidrug resistant §	18	(0.8)	18	(5.9)	5	(0.6)	41

* Drug susceptibility testing; § resistant to at least INH and RMP

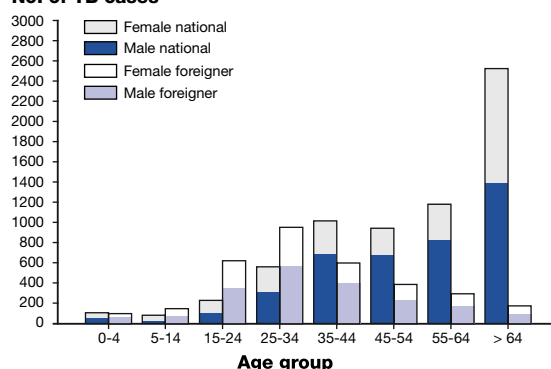
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000



Tuberculosis cases by age group, geographic origin and sex, 1999

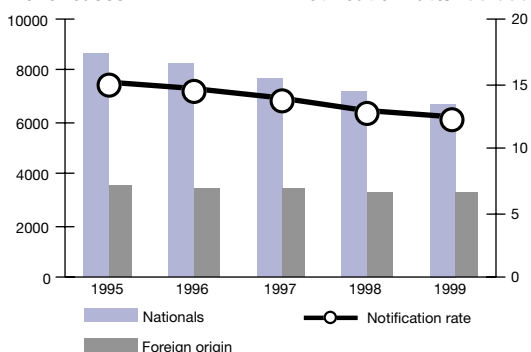
No. of TB cases



Number of TB cases by geographic origin and notification rates, 1995-1999

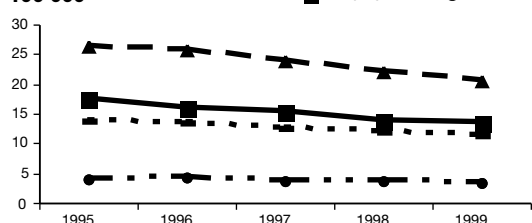
No. of cases

notification rate/100 000



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



GREECE

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	952	
Notification rate per 100 000	9.0	
Sex ratio (male/female)	2.4	
Median age (years)	–	
Foreign citizens	116	(12.2%)
New (never treated)	897	(94.2%)
Culture positive	396	(41.6%)
Pulmonary	827	(86.9%)
among which sputum smear positive	412	(49.8%)

Drug resistance surveillance, 1999

Linkage with TB notifications	no
Geographic coverage	national
Culture positive cases with DST* results	–

Note: Data from the three laboratories performing DST. Culture and DST done on selected cases

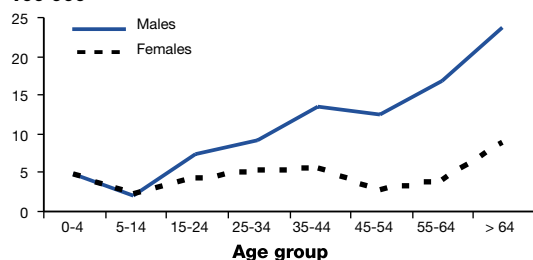
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	–	–	–	–	750	–	750
Resistant to INH	–	–	–	–	113	(15.1)	113
Resistant to RMP	–	–	–	–	70	(9.3)	70
Multidrug resistant §	–	–	–	–	55	(7.3)	55

* Drug susceptibility testing; § resistant to at least INH and RMP

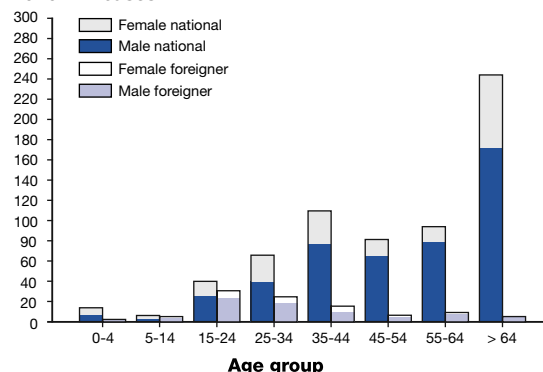
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

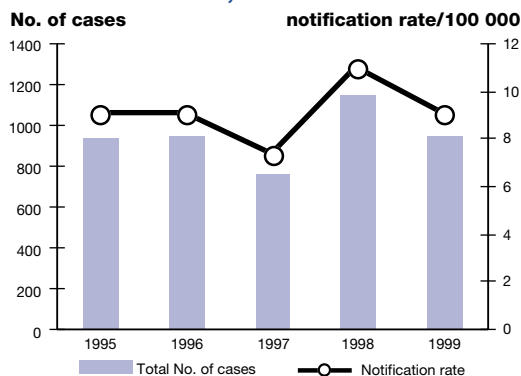


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases

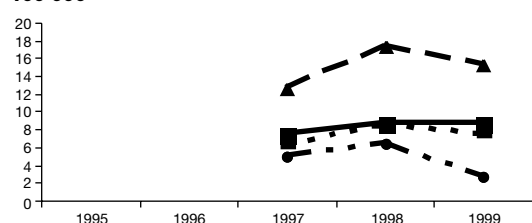


Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



note : Notification system reorganised in 1998

ICELAND

Tuberculosis case notifications, 1999

Type of data provided	Individual	
Total number of cases	12	
Notification rate per 100 000	4.3	
Sex ratio (male/female)	1.0	
Median age (years)	40	
Individuals born abroad	8	(66.7%)
New (never treated)	8	(66.7%)
Culture positive	8	(66.7%)
Pulmonary	9	(75.0%)
among which sputum smear positive	4	(44.4%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	8/8 (100%)

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	7	–	1	–	0	–	8
Resistant to INH	0	(0.0)	0	(0.0)	–	–	0
Resistant to RMP	0	(0.0)	0	(0.0)	–	–	0
Multidrug resistant §	0	(0.0)	0	(0.0)	–	–	0

* Drug susceptibility testing; § resistant to at least INH and RMP

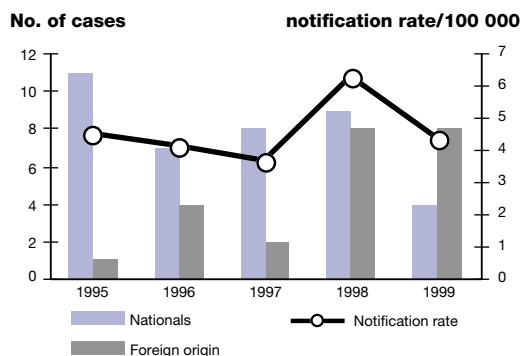
Tuberculosis notification rates by age group and sex, 1999

Insufficient number of cases for graphic presentation

Tuberculosis cases by age group, geographic origin and sex, 1999

Insufficient number of cases for graphic presentation

Number of TB cases by geographic origin and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Insufficient number of cases for graphic presentation

IRELAND

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	469
Notification rate per 100 000	12.7
Sex ratio (male/female)	1.5
Median age (years)	46
Individuals born abroad	65 (13.9%)
New (never treated)	158 (33.7%)
Culture positive	260 (55.4%)
Pulmonary	329 (70.1%)
among which sputum smear positive	124 (37.7%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	260/260 (100%)

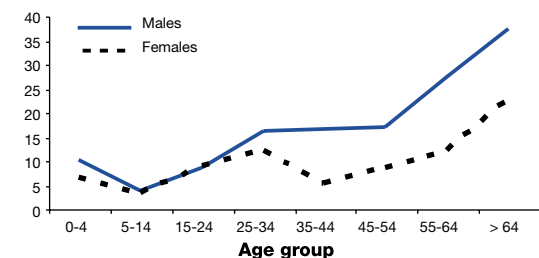
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	101	-	22	-	137	-	260
Resistant to INH	2	(2.0)	0	(0.0)	8	(5.8)	10
Resistant to RMP	1	(1.0)	0	(0.0)	1	(0.7)	2
Multidrug resistant §	1	(1.0)	0	(0.0)	1	(0.7)	2

* Drug susceptibility testing; § resistant to at least INH and RMP

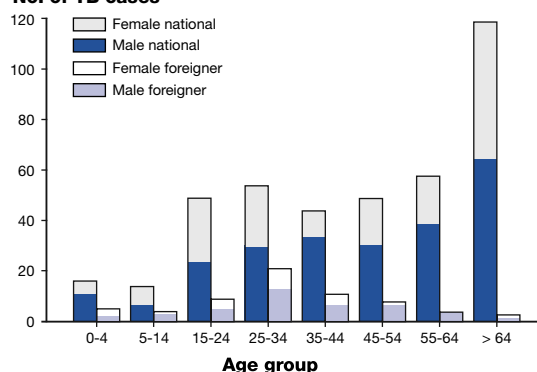
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

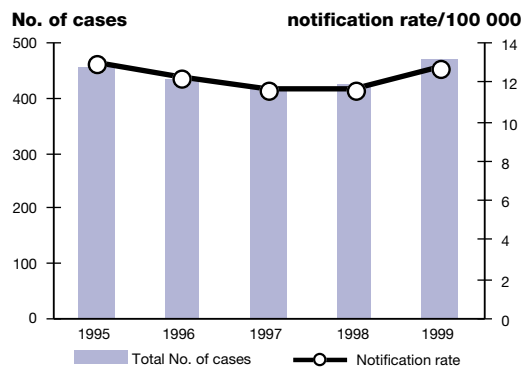


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases



Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

note: Notification system reorganised in 1998

ISRAEL

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	520	
Notification rate per 100 000	8.5	
Sex ratio (male/female)	1.4	
Median age (years)	–	
Individuals born abroad	449	(86.3%)
New (never treated)	481	(92.5%)
Culture positive	331	(63.7%)
Pulmonary	369	(71.0%)
among which sputum smear positive	190	(51.5%)

Drug resistance surveillance, 1999

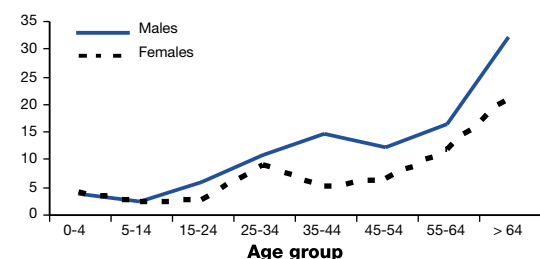
Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	331/331 (100%)

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	–	–	–	–	331	–	331
Resistant to INH	–	–	–	–	44	(13.3)	44
Resistant to RMP	–	–	–	–	28	(8.5)	28
Multidrug resistant §	–	–	–	–	26	(7.9)	26

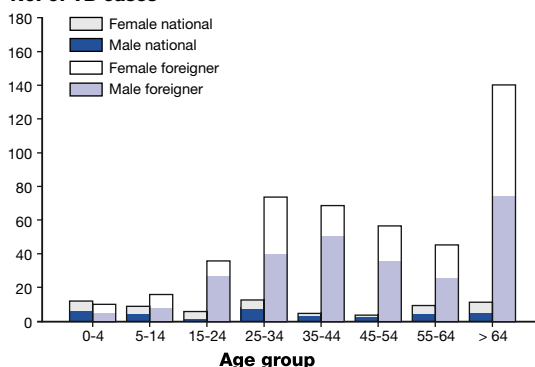
* Drug susceptibility testing; § resistant to at least INH and RMP

Tuberculosis notification rates by age group and sex, 1999

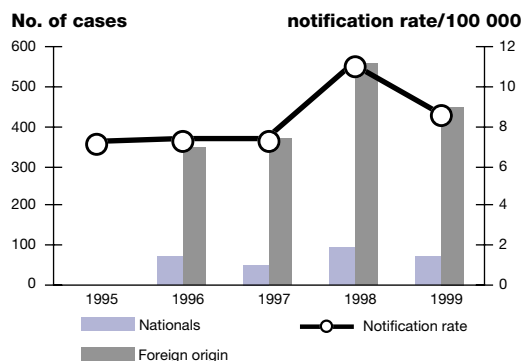
Cases/
100 000

Tuberculosis cases by age group, geographic origin and sex, 1999

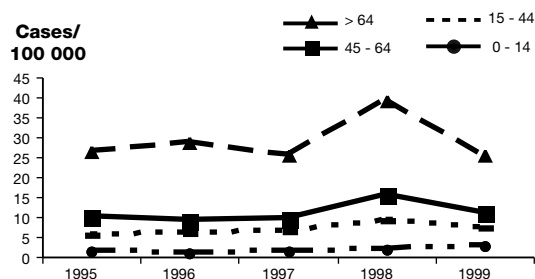
No. of TB cases



Number of TB cases by geographic origin and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000

note: Notification system reorganised in 1998

ITALY

Tuberculosis case notifications, 1999

Type of data provided	Individual*
Total number of cases	4 429
Notification rate per 100 000	7.7
Sex ratio (male/female)	1.7
Median age (years)	51
Individuals born abroad	961 (21.7%)
New (never treated)	1 709 (38.6%)
Culture positive **	2 164 (65.8%)
Pulmonary	3 289 (74.3%)
among which sputum smear positive	1 637 (49.8%)

* Except DST data; ** Culture results available only for pulmonary cases

Drug resistance surveillance, 1998

Linkage with TB notifications	no
Geographic coverage	13 regions
Culture positive cases with DST* results	–

Note: TB cases diagnosed in 46 clinical centres in 13/20 regions

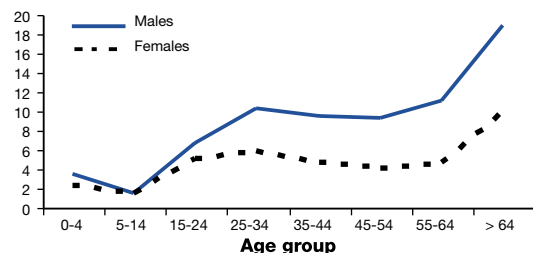
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	683	–	115	–	12	–	810
Resistant to INH	38	(5.6)	53	(46.1)	2	(16.7)	93
Resistant to RMP	15	(2.2)	55	(47.8)	2	(16.7)	72
Multidrug resistant §	8	(1.2)	42	(36.5)	1	(8.3)	51

* Drug susceptibility testing; § resistant to at least INH and RMP

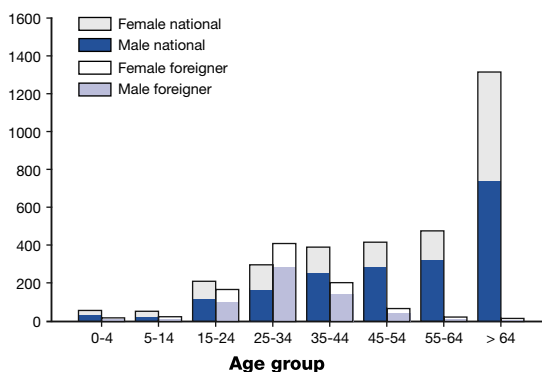
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

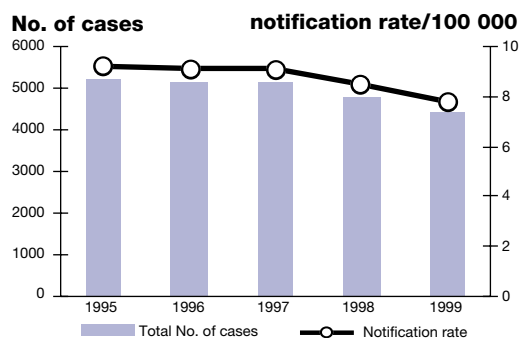


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases

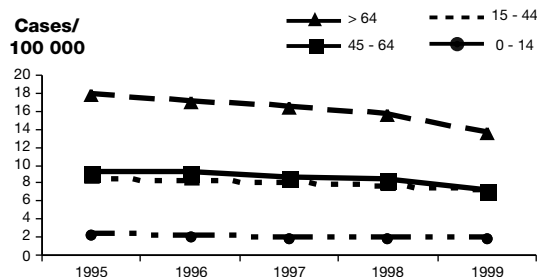


Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



LUXEMBOURG

Tuberculosis case notifications, 1999

Type of data provided	Individual	
Total number of cases	42	
Notification rate per 100 000	9.9	
Sex ratio (male/female)	6.0	
Median age (years)	42	
Individuals born abroad	28	(66.7%)
New (never treated)	38	(90.5%)
Culture positive	42	(100%)
Pulmonary	41	(97.6%)
among which sputum smear positive	8	(19.5%)

Drug resistance surveillance, 1998

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	42/42 (100%)

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	N
Tested	40	–	4	–	0	–	44
Resistant to INH	3	(7.5)	0	(0.0)	–	–	3
Resistant to RMP	1	(2.5)	0	(0.0)	–	–	1
Multidrug resistant §	1	(2.5)	0	(0.0)	–	–	1

* Drug susceptibility testing; § resistant to at least INH and RMP

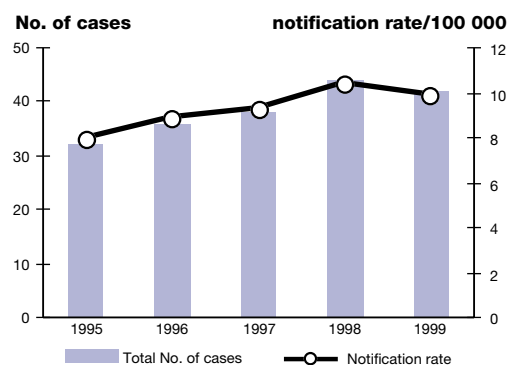
Tuberculosis notification rates by age group and sex, 1999

Insufficient number of cases for graphic presentation

Tuberculosis cases by age group, geographic origin and sex, 1999

Insufficient number of cases for graphic presentation

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Insufficient number of cases for graphic presentation

MALTA

Tuberculosis case notifications, 1999

Type of data provided	Individual	
Total number of cases	22	
Notification rate per 100 000	5.7	
Sex ratio (male/female)	3.4	
Median age (years)	63	
Individuals born abroad	7	(31.8%)
New (never treated)	22	(100%)
Culture positive	13	(59.1%)
Pulmonary	19	(86.4%)
among which sputum smear positive	5	(26.3%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	13/13 (100%)

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	13	–	0	–	0	–	13
Resistant to INH	0	(0.0)	–	–	–	–	0
Resistant to RMP	0	(0.0)	–	–	–	–	0
Multidrug resistant §	0	(0.0)	–	–	–	–	0

* Drug susceptibility testing; § resistant to at least INH and RMP

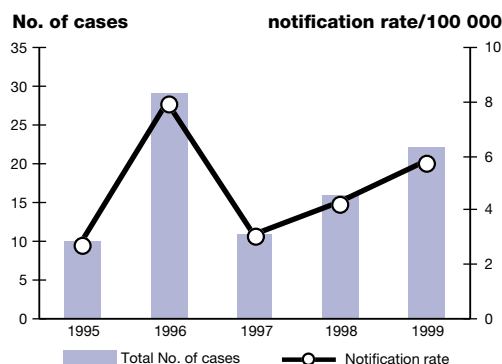
Tuberculosis notification rates by age group and sex, 1999

Insufficient number of cases for graphic presentation

Tuberculosis cases by age group, geographic origin and sex, 1999

Insufficient number of cases for graphic presentation

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Insufficient number of cases for graphic presentation

MONACO

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	3	
Notification rate per 100 000	8.8	
Sex ratio (male/female)	2.0	
Median age (years)	–	
Foreign citizens	2	(66.7%)
New (never treated)	3	(100%)
Culture positive	2	(66.7%)
Pulmonary	2	(66.7%)
among which sputum smear positive	2	(100%)

Drug resistance surveillance, 1999

Not available

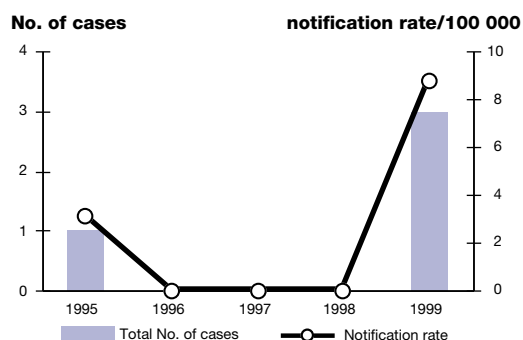
Tuberculosis notification rates by age group and sex, 1999

Insufficient number of cases for graphic presentation

Tuberculosis cases by age group, geographic origin and sex, 1999

Insufficient number of cases for graphic presentation

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Insufficient number of cases for graphic presentation

THE NETHERLANDS

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	1 535
Notification rate per 100 000	9.8
Sex ratio (male/female)	1.4
Median age (years)	34
Foreign citizens	898 (58.5%)
New (never treated)	1 459 (95.0%)
Culture positive	943 (61.4%)
Pulmonary	959 (62.5%)
among which sputum smear positive	345 (36.0%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	941/943 (100%)

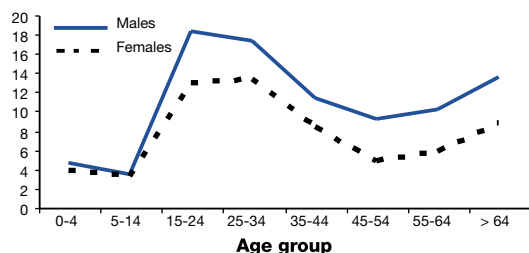
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	899	-	42	-	0	-	941
Resistant to INH	52	(5.8)	3	(7.1)	-	-	55
Resistant to RMP	7	(0.8)	1	(2.4)	-	-	8
Multidrug resistant §	4	(0.4)	0	(0.0)	-	-	4

* Drug susceptibility testing; § resistant to at least INH and RMP

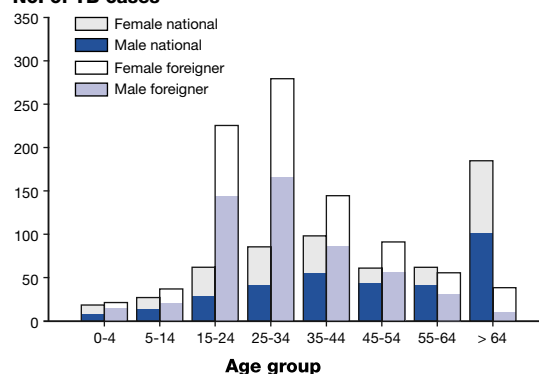
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

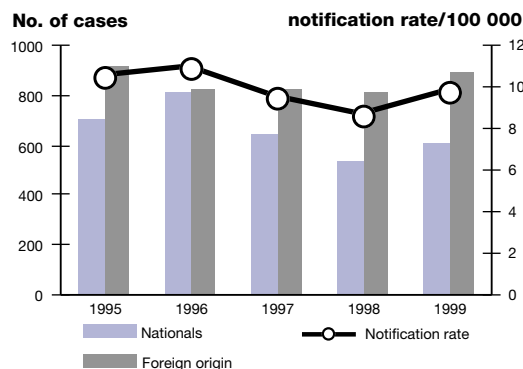


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases

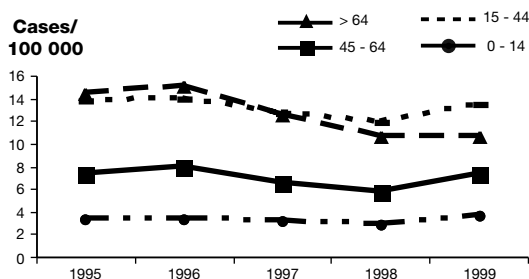


Number of TB cases by geographic origin and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



NORWAY

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	273
Notification rate per 100 000	6.1
Sex ratio (male/female)	1.1
Median age (years)	37
Individuals born abroad	180 (65.9%)
New (never treated)	212 (77.7%)
Culture positive	186 (68.1%)
Pulmonary	163 (59.7%)
among which sputum smear positive	34 (20.9%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	184/186 (99%)

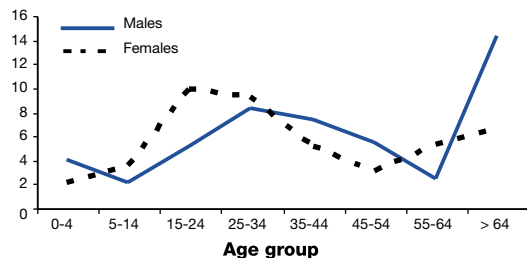
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	144	-	40	-	0	-	184
Resistant to INH	11	(7.6)	0	(0.0)	-	-	11
Resistant to RMP	3	(2.1)	0	(0.0)	-	-	3
Multidrug resistant §	3	(2.1)	0	(0.0)	-	-	3

* Drug susceptibility testing; § resistant to at least INH and RMP

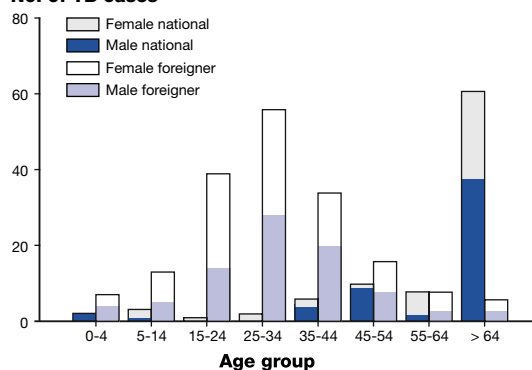
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

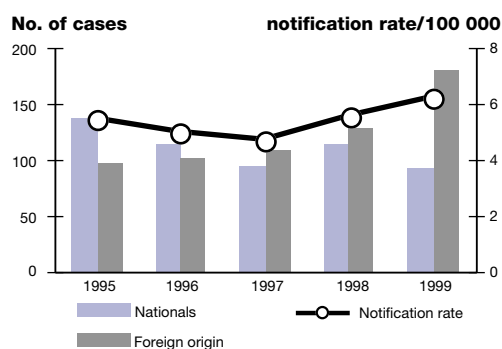


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases

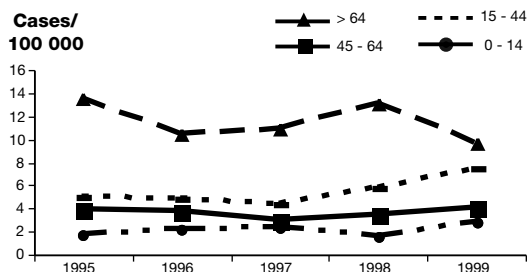


Number of TB cases by geographic origin and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



PORTUGAL

Tuberculosis case notifications, 1999

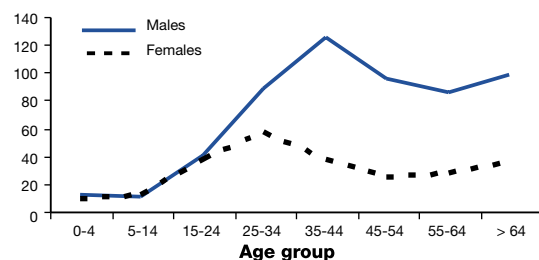
Type of data provided	Aggregate	
Total number of cases	5 160	
Notification rate per 100 000	52.3	
Sex ratio (male/female)	2.1	
Median age (years)	–	
Individuals born abroad	325	(6.3%)
New (never treated)	4 599	(89.1%)
Culture positive	1 624	(31.5%)
Pulmonary	3 192	(61.9%)
among which sputum smear positive	1 801	(56.4%)

Drug resistance surveillance, 1999

Not available

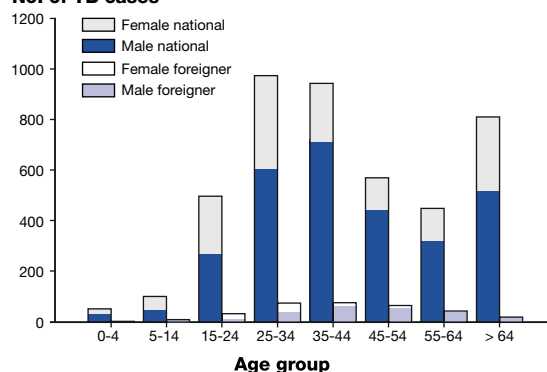
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

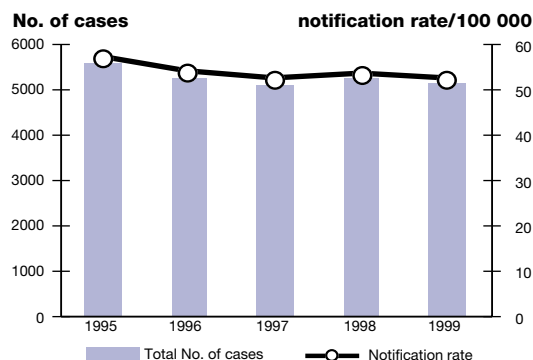


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases

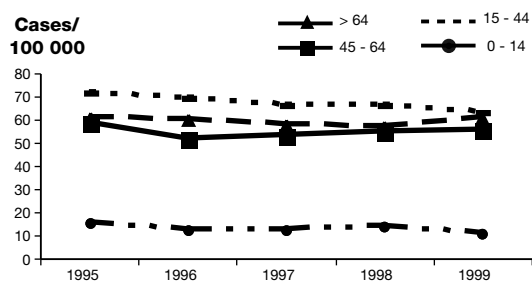


Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



SPAIN

Tuberculosis case notifications*, 1999

Type of data provided	Aggregate	
Total number of cases	8 393	
Notification rate per 100 000	21.2	
Sex ratio (male/female)	2.1	
Median age (years)	–	
Individuals born abroad**	151	(1.8%)
New (never treated)	6 177	(73.6%)
Culture positive	3 817	(45.5%)
Respiratory*	6 481	(77.2%)
among which sputum smear positive	3 179	(49.1%)

* Respiratory and meningeal cases only; 22% of cases with unknown site of disease; ** 59% of cases with unknown geographic origin

Drug resistance surveillance, 1999

Linkage with TB notifications no
Geographic coverage national
Culture positive cases with DST* results –

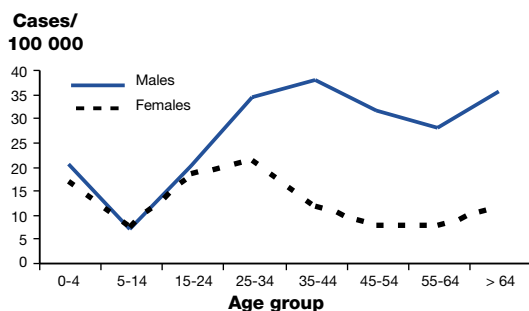
Note: New TB cases referred at the National Reference Laboratory

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	514	–	–	–	–	–	514
Resistant to INH	19	(3.7)	–	–	–	–	19
Resistant to RMP	4	(0.8)	–	–	–	–	4
Multidrug resistant §	3	(0.6)	–	–	–	–	3

* Drug susceptibility testing; § resistant to at least INH and RMP

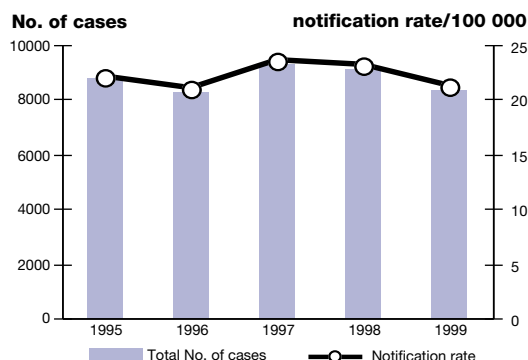
Tuberculosis notification rates by age group and sex, 1999



Tuberculosis cases by age group, geographic origin and sex, 1999

< 5% of TB cases of foreign origin

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

note : Change of case definition in 1997

SWEDEN

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	493
Notification rate per 100 000	5.5
Sex ratio (male/female)	1.1
Median age (years)	41
Individuals born abroad	319 (64.7%)
New (never treated)	456 (92.5%)
Culture positive	412 (83.6%)
Pulmonary	343 (69.6%)
among which sputum smear positive	129 (37.6%)

Drug resistance surveillance, 1999

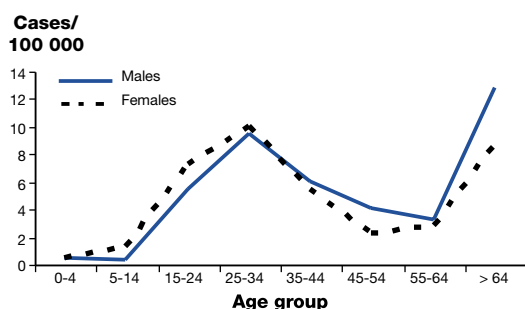
Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	408/412 (99%)

Resistant cases by previous anti-TB treatment status

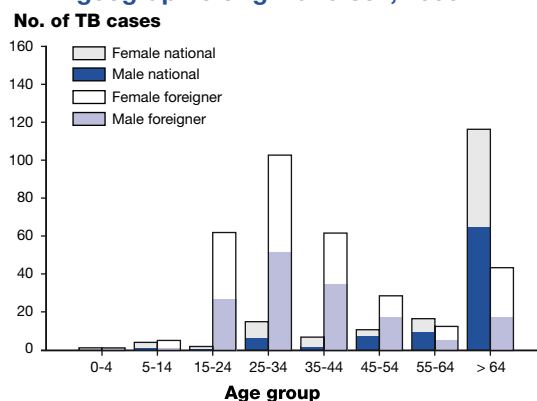
	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	377	-	31	-	0	-	408
Resistant to INH	35	(9.3)	7	(22.6)	-	-	42
Resistant to RMP	5	(1.3)	4	(12.9)	-	-	9
Multidrug resistant §	3	(0.8)	4	(12.9)	-	-	7

* Drug susceptibility testing; § resistant to at least INH and RMP

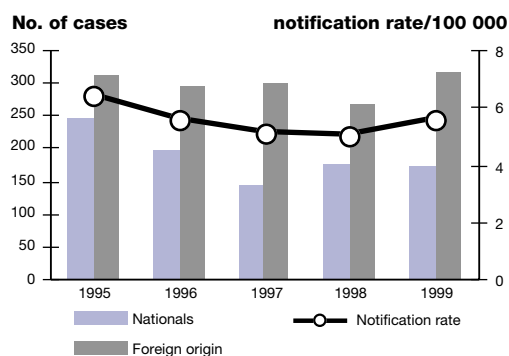
Tuberculosis notification rates by age group and sex, 1999



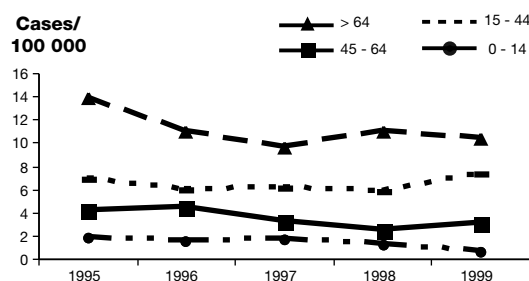
Tuberculosis cases by age group, geographic origin and sex, 1999



Number of TB cases by geographic origin and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



SWITZERLAND

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	772
Notification rate per 100 000	10.5
Sex ratio (male/female)	1.3
Median age (years)	40
Individuals born abroad	469 (60.8%)
New (never treated)	534 (69.2%)
Culture positive	615 (79.7%)
Pulmonary	565 (73.2%)
among which sputum smear positive	130 (23.0%)

Drug resistance surveillance, 1999

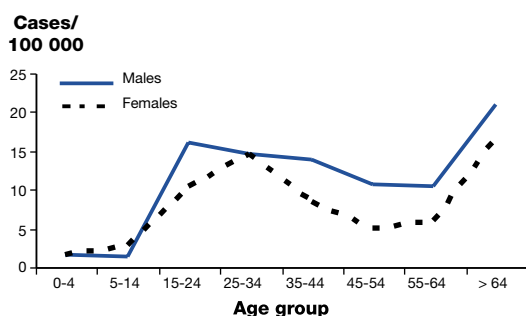
Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	611/615 (99%)

Resistant cases by previous anti-TB treatment status

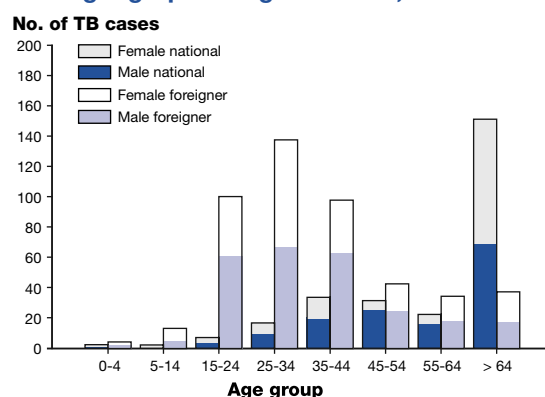
	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	N
Tested	428	–	57	–	126	–	611
Resistant to INH	24	(5.6)	12	(21.1)	4	(3.2)	40
Resistant to RMP	4	(0.9)	6	(10.5)	3	(2.4)	13
Multidrug resistant §	3	(0.7)	6	(10.5)	2	(1.6)	11

* Drug susceptibility testing; § resistant to at least INH and RMP

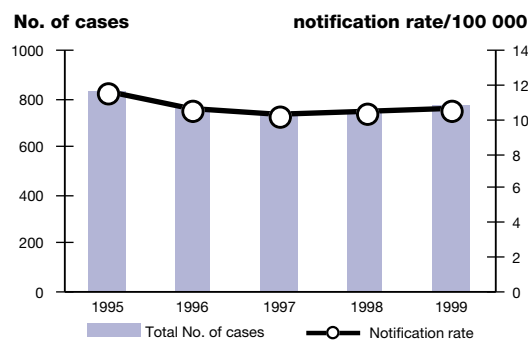
Tuberculosis notification rates by age group and sex, 1999



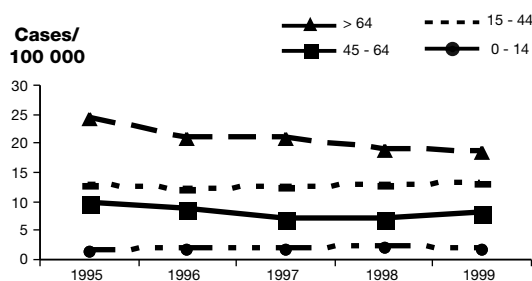
Tuberculosis cases by age group, geographic origin and sex, 1999



Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



UNITED KINGDOM

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	6 287
Notification rate per 100 000	10.7
Sex ratio (male/female)	1.2
Median age (years)*	39
Individuals born abroad * §	2 965 (47.2%)
New (never treated)	4 287 (68.2%)
Culture positive	3 400 (54.1%)
Pulmonary **	3 758 (59.8%)
among which sputum smear positive	1 052 (28.0%)

* Except Scotland; ** Respiratory classification for Scotland
§ 20% of cases with missing information

Drug resistance surveillance, 1999

Linkage with TB notifications yes
Geographic coverage national (excl. Scotland)
Culture positive cases with DST* results 2 870/3 108 (92%)

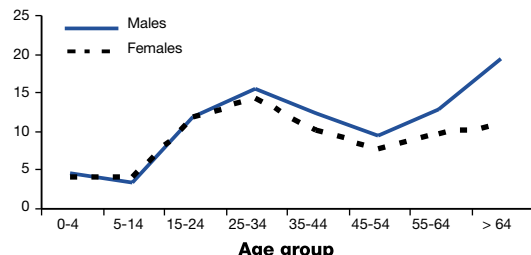
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	N
Tested	2 138	-	220	-	512	-	2 870
Resistant to INH	133	(6.2)	10	(4.5)	27	(5.3)	170
Resistant to RMP	11	(0.5)	8	(3.6)	2	(0.4)	21
Multidrug resistant §	10	(0.5)	6	(2.7)	2	(0.4)	18

* Drug susceptibility testing; § resistant to at least INH and RMP

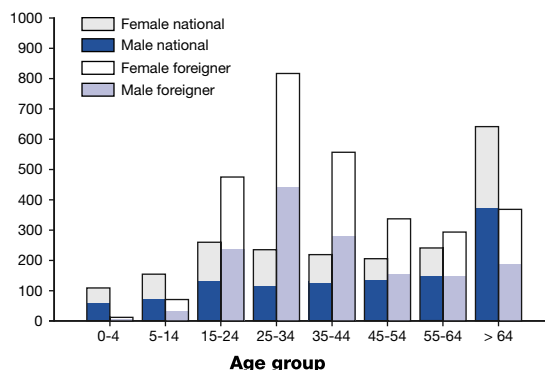
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

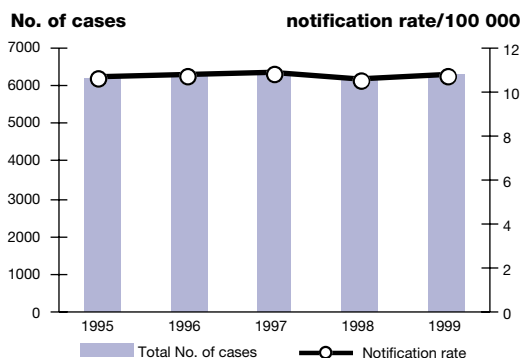


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases

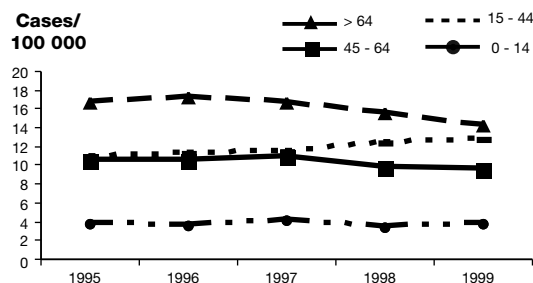


Total number of TB cases and notification rates, 1995-1999

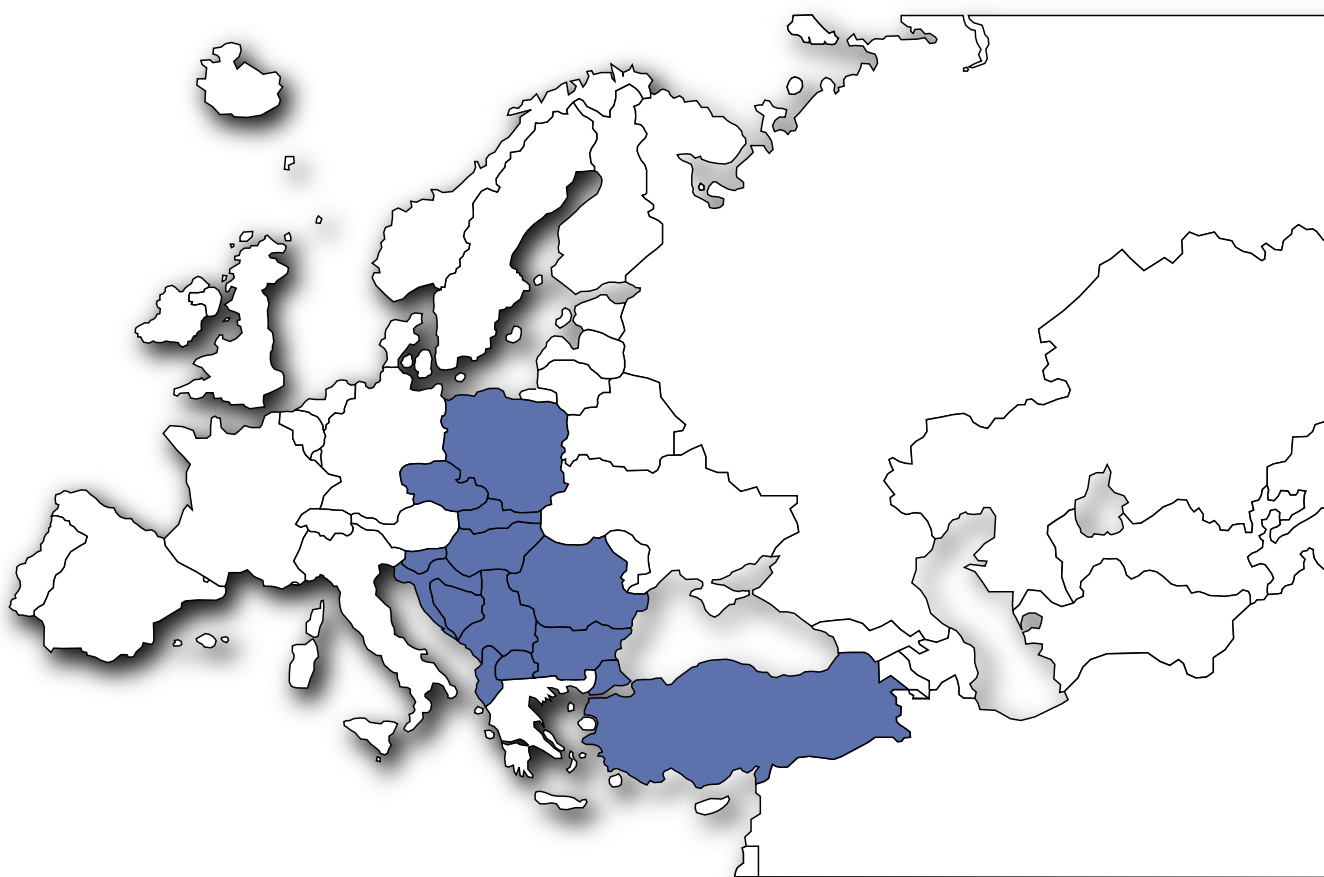


Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



Centre



ALBANIA

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	765	
Notification rate per 100 000	24.6	
Sex ratio (male/female)	1.3	
Median age (years)	–	
Foreign citizens / individuals born abroad	–	
New (never treated)	722	(94.4%)
Culture positive	215	(28.1%)
Pulmonary	504	(65.9%)
among which sputum smear positive	184	(36.5%)

Drug resistance surveillance, 1999

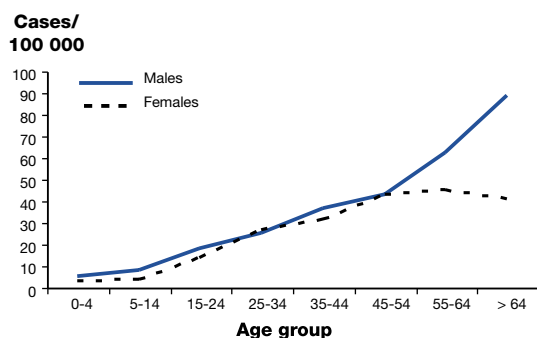
Linkage with TB notifications yes
 Geographic coverage some areas
 Culture positive cases with DST* results 152/215 (71%)
Note: Cases diagnosed at the University hospital in Tirana.
Culture and DST not done routinely.

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	–	–	–	–	152	–	152
Resistant to INH	–	–	–	–	9	(5.9)	9
Resistant to RMP	–	–	–	–	10	(6.6)	10
Multidrug resistant §	–	–	–	–	5	(3.3)	5

* Drug susceptibility testing; § resistant to at least INH and RMP

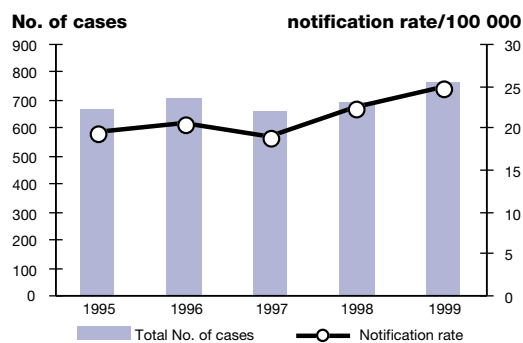
Tuberculosis notification rates by age group and sex, 1999



Tuberculosis cases by age group, geographic origin and sex, 1999

Not available

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

BOSNIA-HERZEGOVINA

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	3 075	
Notification rate per 100 000	80.1	
Sex ratio (male/female)	1.5	
Median age (years)	–	
Individuals born abroad	9	(0.3%)
New (never treated)	2 712	(88.2%)
Culture positive	1 748	(56.8%)
Pulmonary	2 749	(89.4%)
among which sputum smear positive	931	(33.9%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	1 349/1 748 (77%)

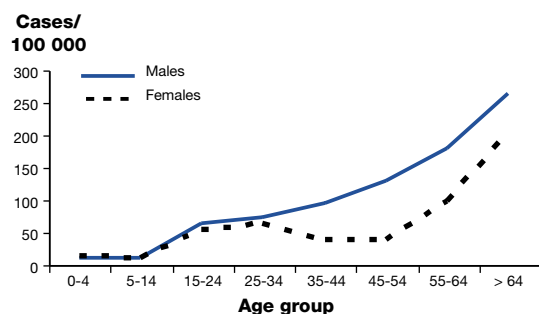
Note: data provided on selected cases in Republic Srpska

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	1 154	–	121	–	74	–	1 349
Resistant to INH	7	(0.6)	6	(5.0)	5	(6.8)	18
Resistant to RMP	9	(0.8)	10	(8.3)	5	(6.8)	24
Multidrug resistant §	3	(2.5)	3	(2.5)	1	(1.4)	7

* Drug susceptibility testing; § resistant to) at least INH and RMP

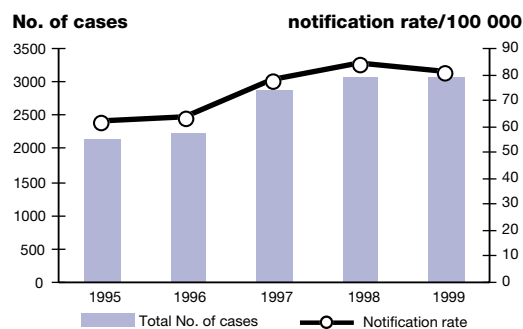
Tuberculosis notification rates by age group and sex, 1999



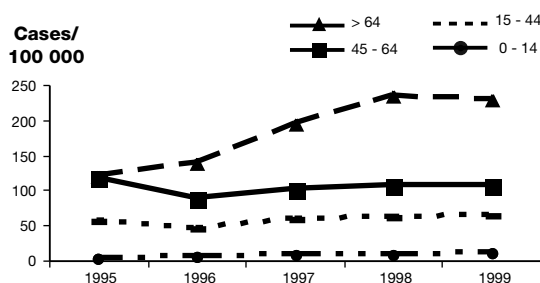
Tuberculosis cases by age group, geographic origin and sex, 1999

< 5% of TB cases of foreign origin

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



BULGARIA

Tuberculosis case notifications, 1999

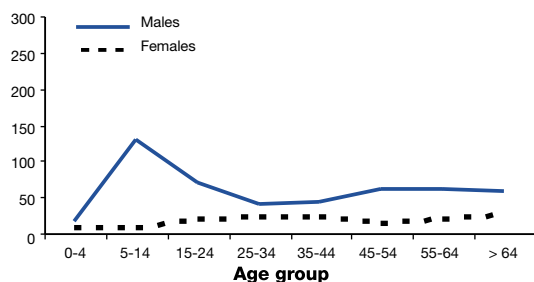
Type of data provided	Aggregate	
Total number of cases	3 530	
Notification rate per 100 000	42.6	
Sex ratio (male/female)	3.4	
Median age (years)	–	
Foreign citizens / individuals born abroad	–	
New (never treated)	3 242	(91.8%)
Culture positive	–	–
Respiratory	3 265	(92.5%)
among which sputum smear positive	1 985	(60.8%)

Drug resistance surveillance, 1999

Not available

Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000



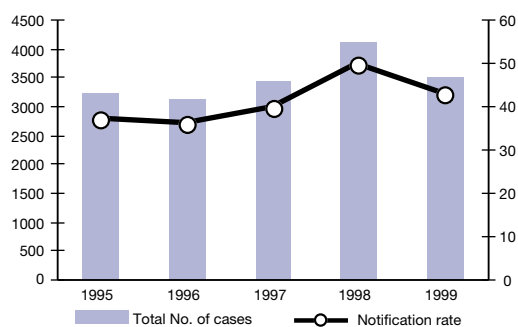
Tuberculosis cases by age group, geographic origin and sex, 1999

Not available

Total number of TB cases and notification rates, 1995-1999

No. of cases

notification rate/100 000



Tuberculosis notification rates by age group, 1995-1999

Not available

CROATIA

Tuberculosis case notifications, 1999

Type of data provided	Individual	
Total number of cases	1 770	
Notification rate per 100 000	39.5	
Sex ratio (male/female)	1.8	
Median age (years)	48	
Individuals born abroad §	204	(11.5%)
New (never treated)	1 622	(91.6%)
Culture positive *	866	(70.2%)
Pulmonary	1 565	(88.4%)
among which sputum smear positive *	541	(49.5%)

* Data on a national sample of 1234 TB cases

§ 34% of cases with missing information

Drug resistance surveillance, 1999

Linkage with TB notifications	yes (national sample)
Geographic coverage	national
Culture positive cases with DST* results	861/866 (100%)

Note: data on a national sample of 1234 TB cases

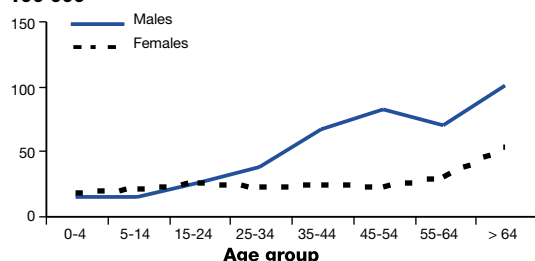
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	761	–	93	–	7	–	861
Resistant to INH	14	(1.8)	3	(3.2)	1	(14.3)	18
Resistant to RMP	4	(0.5)	3	(3.2)	2	(28.6)	9
Multidrug resistant §	2	(0.3)	2	(2.2)	1	(14.3)	5

* Drug susceptibility testing; § resistant to at least INH and RMP

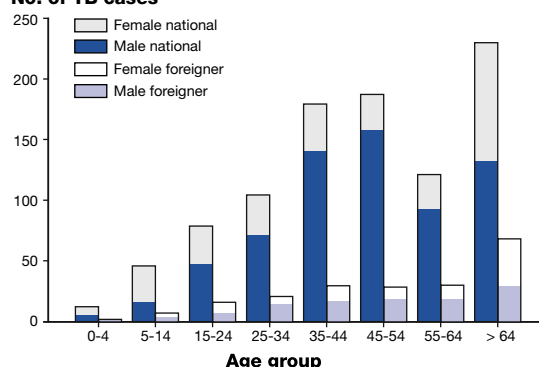
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

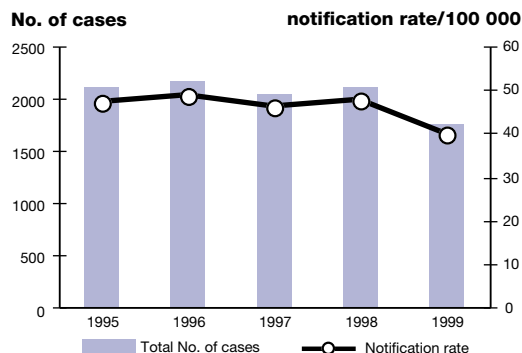


Tuberculosis cases by age group, geographic origin and sex, 1999

No. of TB cases

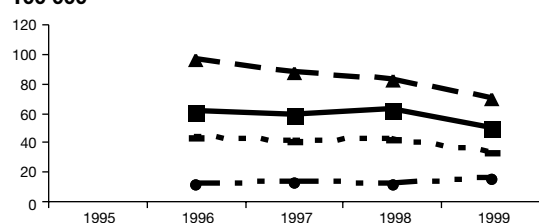


Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



CZECH REPUBLIC

Tuberculosis case notifications, 1999

Type of data provided	Individual*	
Total number of cases	1 631	
Notification rate per 100 000	15.9	
Sex ratio (male/female)	1.5	
Median age (years)	59	
Individuals born abroad	135	(8.3%)
New (never treated)	1 431	(87.7%)
Culture positive	830	(50.9%)
Respiratory	1 330	(81.5%)
among which sputum smear positive	410	(30.8%)

* Except DST data

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	698/830 (84%)

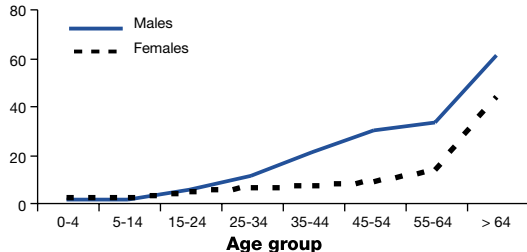
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	628	-	70	-	0	-	698
Resistant to INH	10	(1.6)	5	(7.1)	-	-	15
Resistant to RMP	5	(0.8)	3	(4.3)	-	-	8
Multidrug resistant §	2	(0.3)	2	(2.9)	-	-	4

* Drug susceptibility testing; § resistant to at least INH and RMP

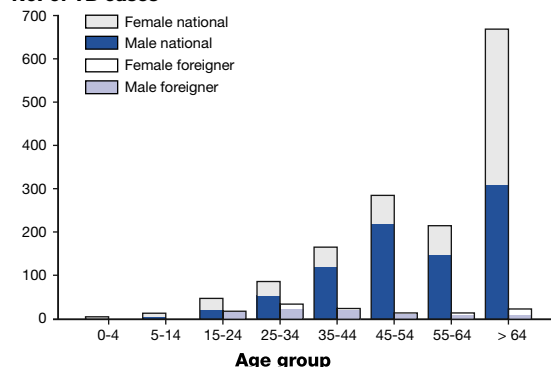
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

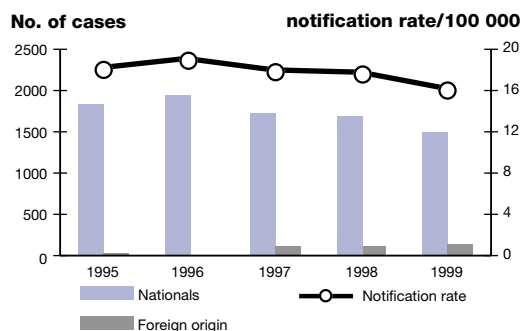


Tuberculosis cases by age group, geographic origin and sex, 1999

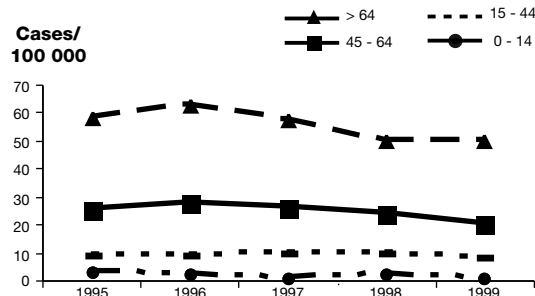
No. of TB cases



Number of TB cases by geographic origin and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



HUNGARY

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	3 914
Notification rate per 100 000	38.8
Sex ratio (male/female)	2.4
Median age (years)	50
Individuals born abroad	64 (1.6%)
New (never treated)	3 208 (82.0%)
Culture positive	1 206 (30.8%)
Pulmonary	3 682 (94.1%)
among which sputum smear positive	826 (22.4%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	559/1206 (46%)

Note: culture and DST are performed on selected cases

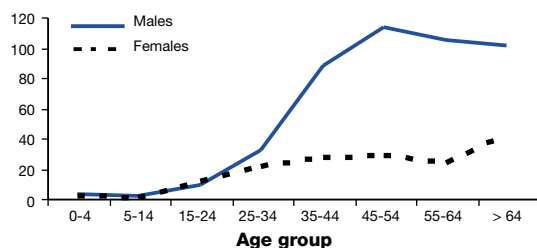
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	456	–	103	–	0	–	559
Resistant to INH	33	(7.2)	19	(18.4)	–	–	52
Resistant to RMP	12	(2.6)	7	(6.8)	–	–	19
Multidrug resistant §	8	(1.8)	7	(6.8)	–	–	15

* Drug susceptibility testing; § resistant to at least INH and RMP

Tuberculosis notification rates by age group and sex, 1999

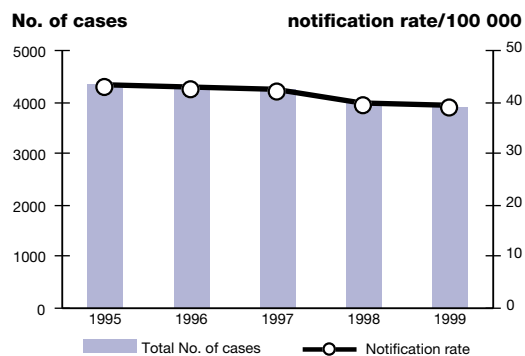
Cases/
100 000



Tuberculosis cases by age group, geographic origin and sex, 1999

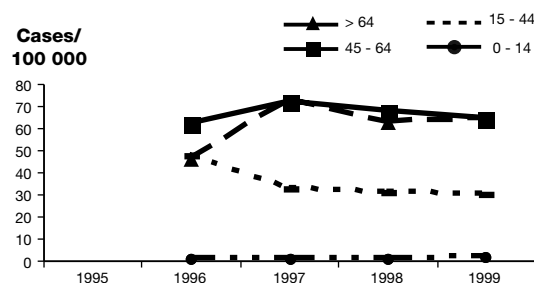
**< 5% of TB cases
of foreign origin**

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



MACEDONIA, FYR

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	576	
Notification rate per 100 000	28.6	
Sex ratio (male/female)	1.6	
Median age (years)	–	
Foreign citizens / individuals born abroad *	–	–
New (never treated)	532	(92.4%)
Culture positive	–	–
Respiratory	489	(84.9%)
among which sputum smear positive	–	–

* Foreigners not included in TB notifications

Drug resistance surveillance, 1998

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	194/194 (100%)

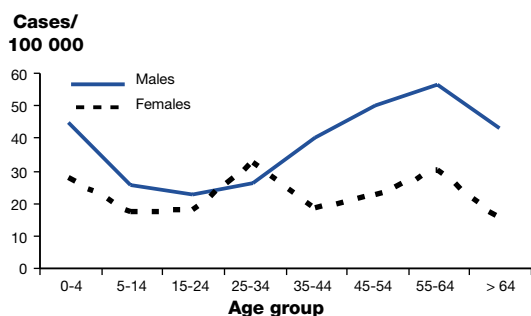
Note: culture and DST not routinely done

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	0	–	0	–	194	–	194
Resistant to INH	–	–	–	–	16	(8.2)	16
Resistant to RMP	–	–	–	–	5	(2.6)	5
Multidrug resistant §	–	–	–	–	3	(1.5)	3

* Drug susceptibility testing; § resistant to at least INH and RMP

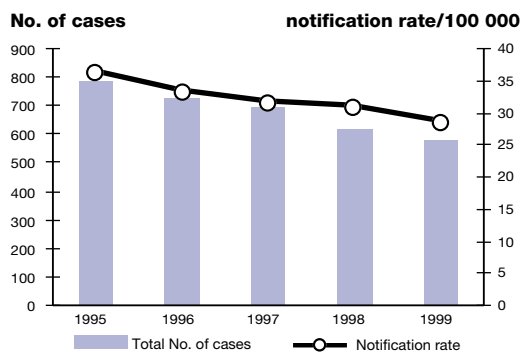
Tuberculosis notification rates by age group and sex, 1999



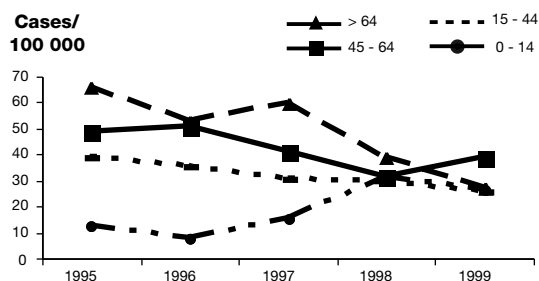
Tuberculosis cases by age group, geographic origin and sex, 1999

Foreigners not included in TB notifications

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



POLAND

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	12 179	
Notification rate per 100 000	31.4	
Sex ratio (male/female)	2.0	
Median age (years)	–	
Foreign citizens / individuals born abroad*	–	
New (never treated)	10 709	(87.9%)
Culture positive	6 700	(55.0%)
Respiratory	11 641	(95.6%)
among which sputum smear positive	4 636	(39.8%)

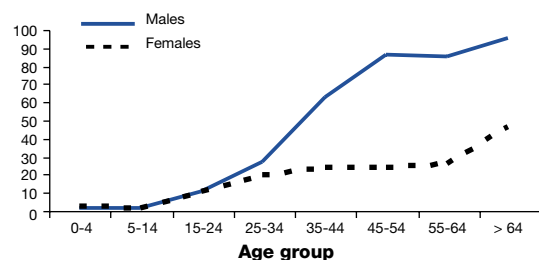
* Foreigners not included in TB notifications

Drug resistance surveillance, 1999

Not available

Tuberculosis notification rates by age group and sex, 1999

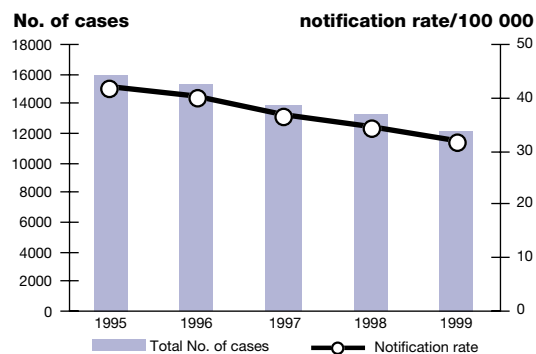
Cases/
100 000



Tuberculosis cases by age group, geographic origin and sex, 1999

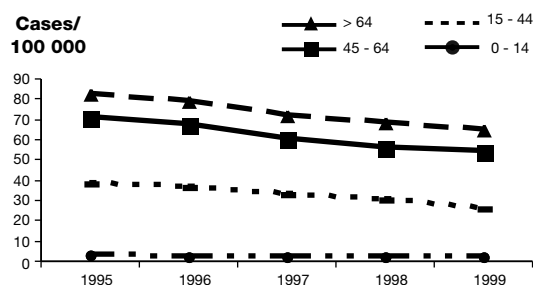
Not available

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



ROMANIA

Tuberculosis case notifications, 1999

Type of data provided	Individual	
Total number of cases	26 870	
Notification rate per 100 000	119.9	
Sex ratio (male/female)	2.3	
Median age (years)	40	
Foreign citizens	2	(0.0%)
New (never treated)	23 320	(86.8%)
Culture positive	13 495	(50.2%)
Pulmonary	23 149	(86.2%)
among which sputum smear positive	12 788	(55.2%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	2 542/13 479 (19%)

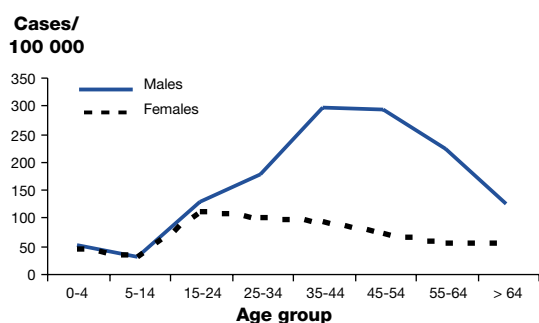
Note: Culture and DST are performed on selected cases

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	2 114	–	428	–	0	–	2 542
Resistant to INH	190	(9.0)	99	(23.1)	–	–	289
Resistant to RMP	111	(5.3)	63	(14.7)	–	–	174
Multidrug resistant §	76	(3.6)	49	(11.4)	–	–	125

* Drug susceptibility testing; § resistant to at least INH and RMP

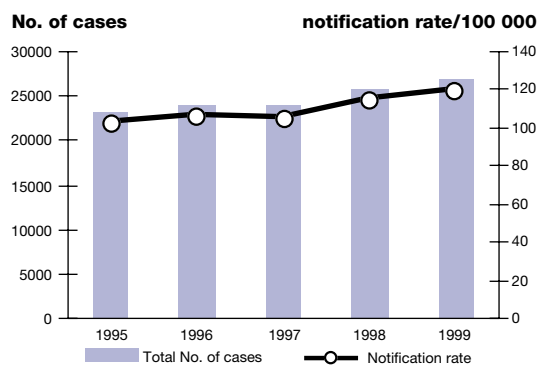
Tuberculosis notification rates by age group and sex, 1999



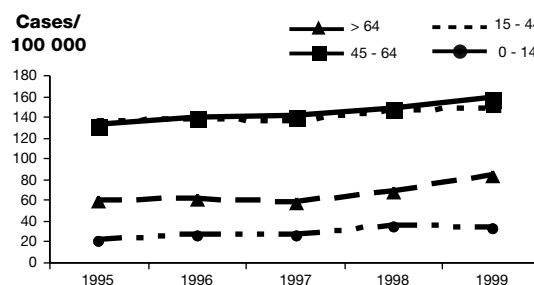
Tuberculosis cases by age group, geographic origin and sex, 1999

< 5% of TB cases of foreign origin

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



SLOVAKIA

Tuberculosis case notifications, 1999

Type of data provided	Individual	
Total number of cases	1 218	
Notification rate per 100 000	22.6	
Sex ratio (male/female)	1.6	
Median age (years)	57	
Individuals born abroad	4	(0.3%)
New (never treated)	970	(79.6%)
Culture positive	645	(53.0%)
Pulmonary	993	(81.5%)
among which sputum smear positive	307	(30.9%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	578/645 (90%)

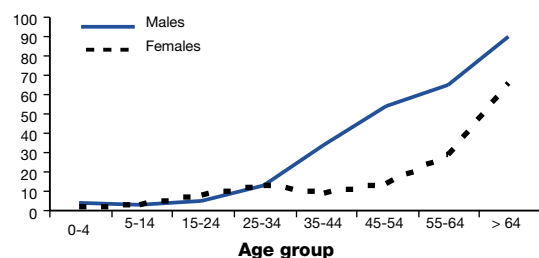
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	456	–	122	–	0	–	578
Resistant to INH	8	(1.8)	6	(4.9)	–	–	14
Resistant to RMP	5	(1.1)	5	(4.1)	–	–	10
Multidrug resistant §	3	(0.7)	3	(2.5)	–	–	6

* Drug susceptibility testing; § resistant to at least INH and RMP

Tuberculosis notification rates by age group and sex, 1999

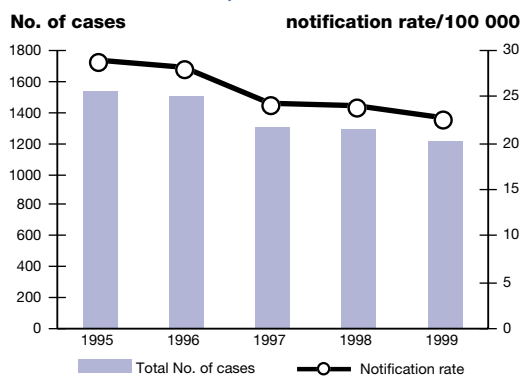
Cases/
100 000



Tuberculosis cases by age group, geographic origin and sex, 1999

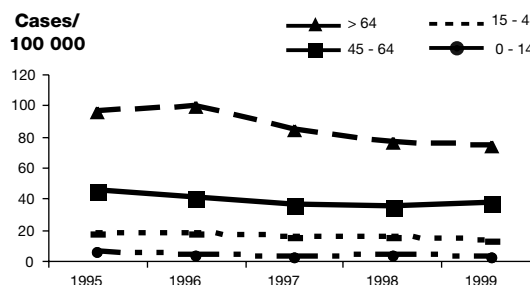
**< 5% of TB cases
of foreign origin**

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000



SLOVENIA

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	438
Notification rate per 100 000	22.0
Sex ratio (male/female)	1.6
Median age (years)	47
Individuals born abroad	103 (23.5%)
New (never treated)	391 (89.3%)
Culture positive	350 (79.9%)
Pulmonary	362 (82.6%)
among which sputum smear positive	191 (52.8%)

Drug resistance surveillance, 1999

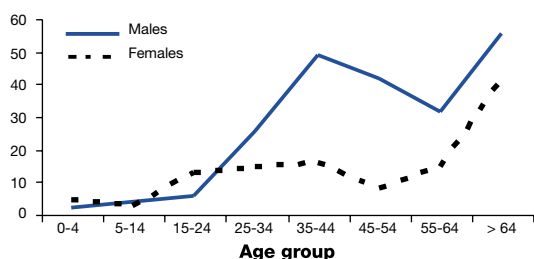
Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	339/350 (97%)

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	304	-	35	-	0	-	339
Resistant to INH	7	(2.3)	2	(5.7)	-	-	9
Resistant to RMP	0	(0.0)	2	(5.7)	-	-	2
Multidrug resistant §	0	(0.0)	2	(5.7)	-	-	2

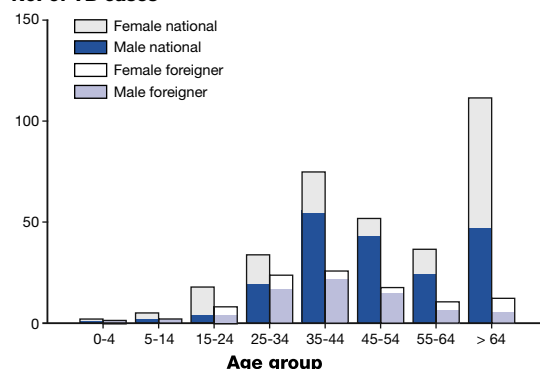
* Drug susceptibility testing; § resistant to at least INH and RMP

Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

Tuberculosis cases by age group, geographic origin and sex, 1999

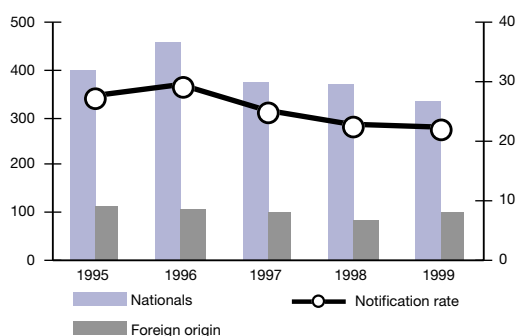
No. of TB cases



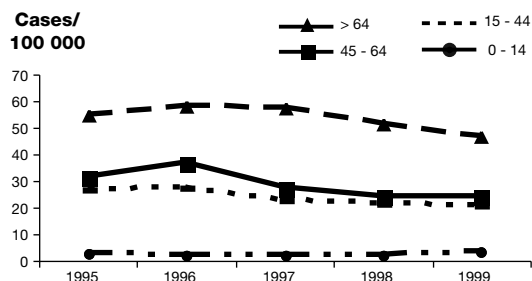
Number of TB cases by geographic origin and notification rates, 1995-1999

No. of cases

notification rate/100 000



Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000

TURKEY

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	22 088	
Notification rate per 100 000	33.7	
Sex ratio (male/female)	–	
Median age (years)	–	
Foreign citizens / individuals born abroad*	–	
New (never treated)	18 752	(84.9%)
Culture positive	–	–
Respiratory	18 314	(82.9%)
among which sputum smear positive	7 460	(40.7%)

* Foreigners not included in TB notifications

Drug resistance surveillance, 1999

Not available

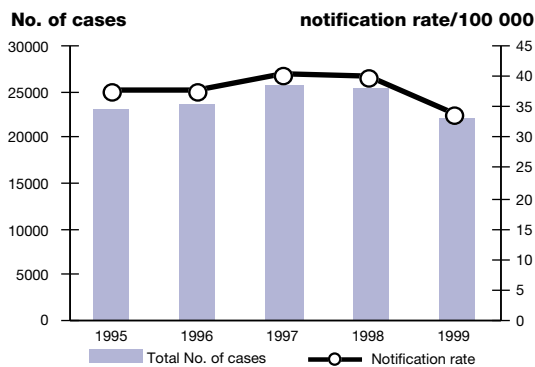
Tuberculosis notification rates by age group and sex, 1999

Not available

Tuberculosis cases by age group, geographic origin and sex, 1999

Foreigners not included in TB notification

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

YUGOSLAVIA

Tuberculosis case notifications*, 1999

Type of data provided	Aggregate	
Total number of cases	2 646	
Notification rate per 100 000	28.4*	
Sex ratio (male/female)	1.9	
Median age (years)	–	
Foreign citizens / individuals born abroad	–	–
New (never treated)	2 399	(90.7%)
Culture positive	–	–
Pulmonary	2 517	(95.1%)
among which sputum smear positive	–	–

* Without Kosovo and Metohija

Drug resistance surveillance, 1999

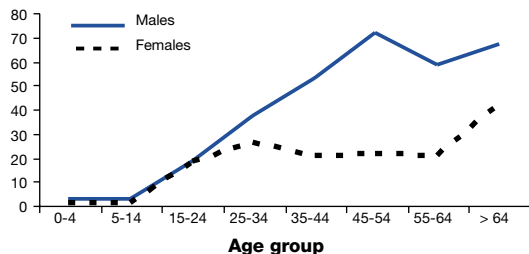
Linkage with TB notifications	yes
Geographic coverage	Belgrade region
Culture positive cases with DST* results	331/331 (100%)

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	290	–	41	–	0	–	331
Resistant to INH	2	(0.7)	2	(4.9)	–	–	4
Resistant to RMP	1	(0.3)	2	(4.9)	–	–	3
Multidrug resistant §	0	(0.0)	2	(4.9)	–	–	2

* Drug susceptibility testing; § resistant to at least INH and RMP

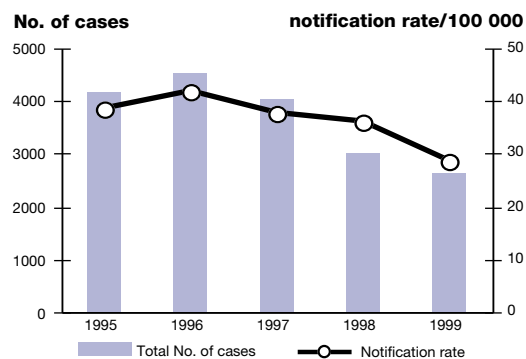
Tuberculosis notification rates by age group and sex, 1999

Cases/
100 000

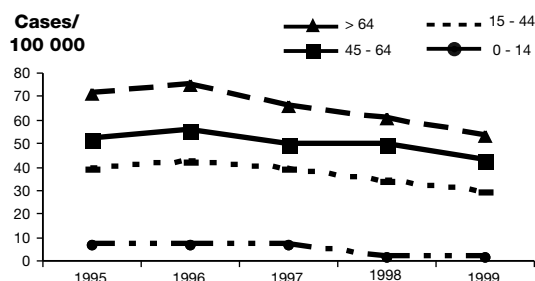
Tuberculosis cases by age group, geographic origin and sex, 1999

Not available

Total number of TB cases and notification rates, 1995-1999



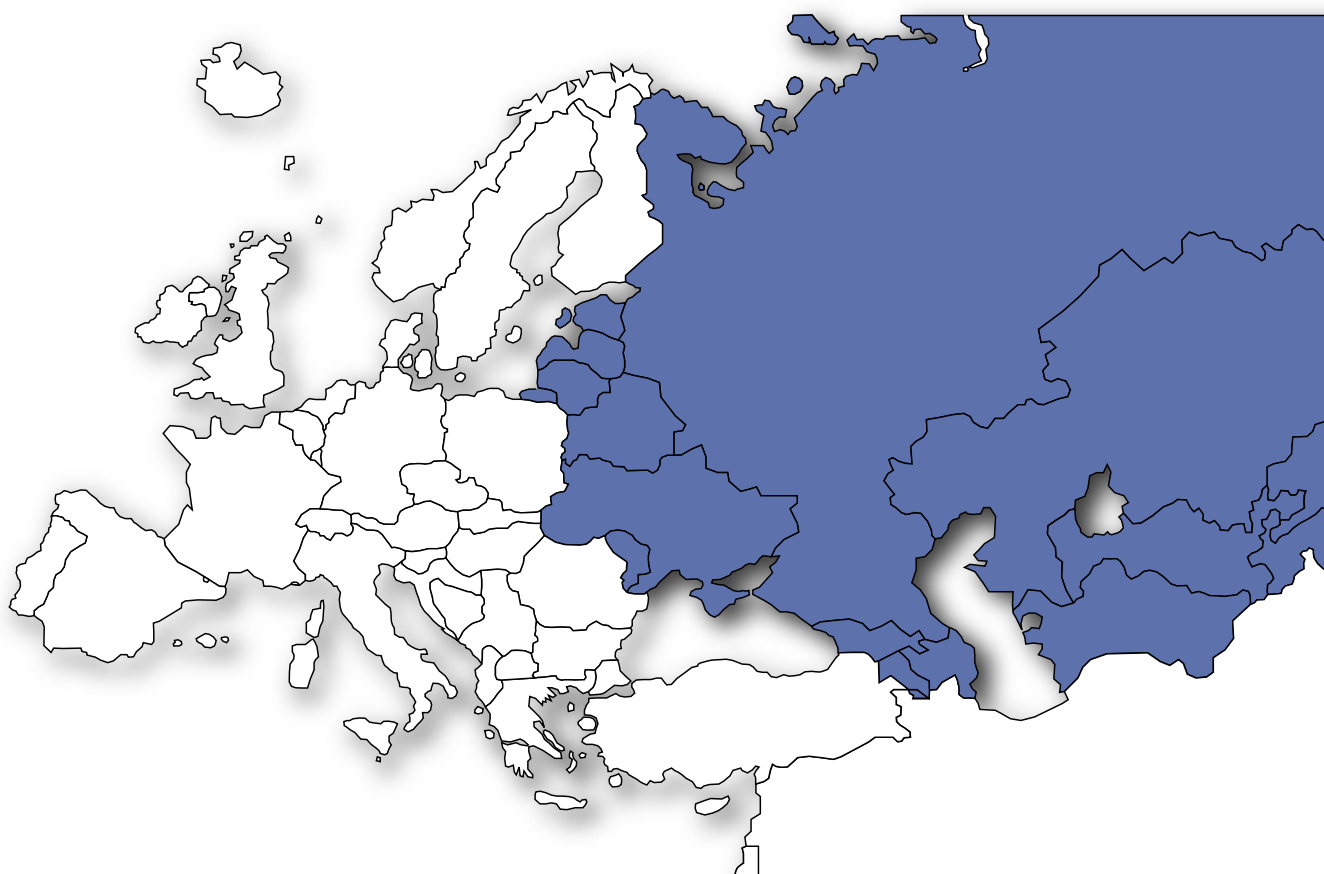
Tuberculosis notification rates by age group, 1995-1999

Cases/
100 000

note : Since 1998, cases from Kosovo and Metohija not included

COUNTRY PROFILES

East



ARMENIA

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	1 499	
Notification rate per 100 000	42.5	
Sex ratio (male/female)*	4.9	
Median age (years)	–	
Foreign citizens / individuals born abroad	–	
New (never treated)	1 434	(95.7%)
Culture positive	576	(38.4%)
Pulmonary	1 232	(82.2%)
among which sputum smear positive	641	(52.0%)

* Provided on new cases only

Drug resistance surveillance, 1999

Linkage with TB notifications no
Geographic coverage some areas
Culture positive cases with DST* results –

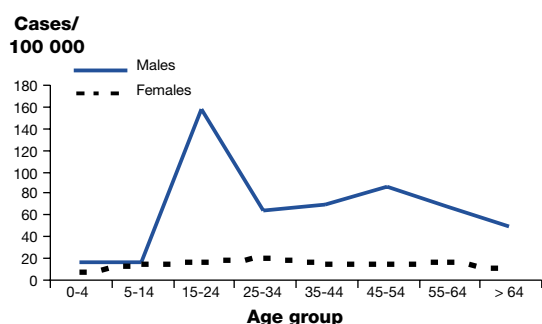
Note: Data on cases diagnosed at the National Reference Laboratory. Culture and DST not routinely performed

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	104	–	63	–	0	–	167
Resistant to INH	9	(8.7)	13	(20.6)	0	–	22
Resistant to RMP	7	(6.7)	23	(36.5)	0	–	30
Multidrug resistant §	3	(2.9)	8	(12.7)	0	–	11

* Drug susceptibility testing; § resistant to at least INH and RMP

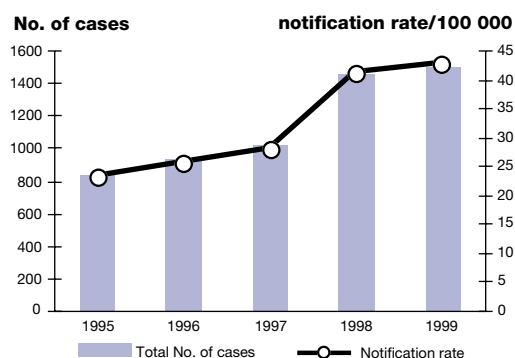
Tuberculosis notification rates by age group and sex, 1999



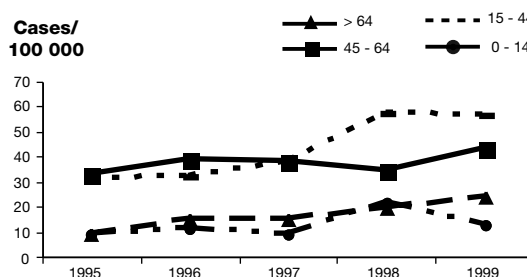
Tuberculosis cases by age group, geographic origin and sex, 1999

Not available

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



AZERBAIJAN

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	4 629	
Notification rate per 100 000	61.0	
Sex ratio (male/female)	2.8	
Median age (years)	–	
Foreign citizens / individuals born abroad *	–	
New (never treated)	4 559	(98.5%)
Culture positive	210	(4.5%)
Respiratory	3 693	(79.8%)
among which sputum smear positive	763	(20.7%)

* Not included in TB notifications

Drug resistance surveillance, 1999

Not available

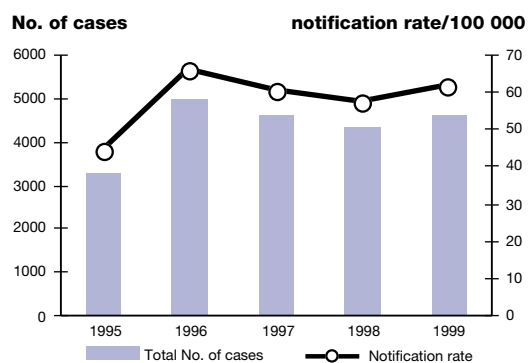
Tuberculosis notification rates by age group and sex, 1999

Not available

Tuberculosis cases by age group, geographic origin and sex, 1999

Not available

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

BELARUS

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	7 339	
Notification rate per 100 000	71.4	
Sex ratio (male/female)*	3.2	
Median age (years)	–	
Foreign citizens / individuals born abroad**	–	
New (never treated)	6 729	(91.7%)
Culture positive	–	–
Respiratory	6 869	(93.6%)
among which sputum smear positive	–	–

* New cases only; ** Foreigners not included in TB notifications

Drug resistance surveillance, 1999

Not available

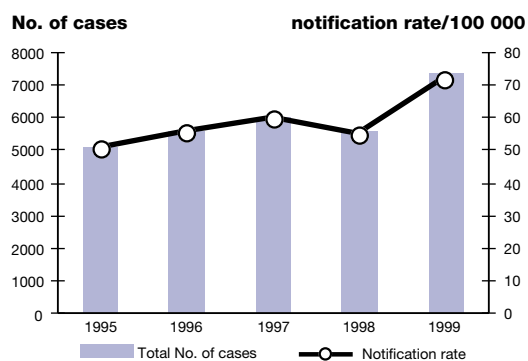
Tuberculosis notification rates by age group and sex, 1999

Not available

Tuberculosis cases by age group, geographic origin and sex, 1999

Not available

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

ESTONIA

Tuberculosis case notifications, 1999

Type of data provided	Individual
Total number of cases	754
Notification rate per 100 000	53.4
Sex ratio (male/female)	2.4
Median age (years)	43
Individuals born abroad	167 (22.1%)
New (never treated)	642 (85.1%)
Culture positive	528 (70.0%)
Pulmonary	687 (91.1%)
among which sputum smear positive	305 (44.4%)

Drug resistance surveillance, 1999

Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	517/524 (99%)

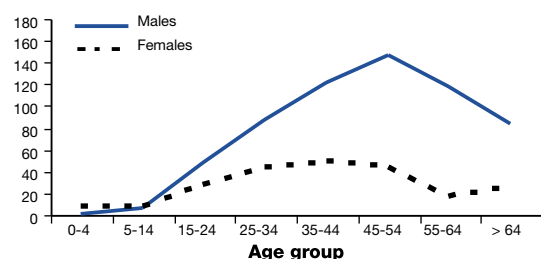
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	428	-	89	-	0	-	517
Resistant to INH	117	(27.3)	48	(53.9)	-	-	165
Resistant to RMP	76	(17.8)	43	(48.3)	-	-	119
Multidrug resistant §	75	(17.5)	43	(48.3)	-	-	118

* Drug susceptibility testing; § resistant to at least INH and RMP

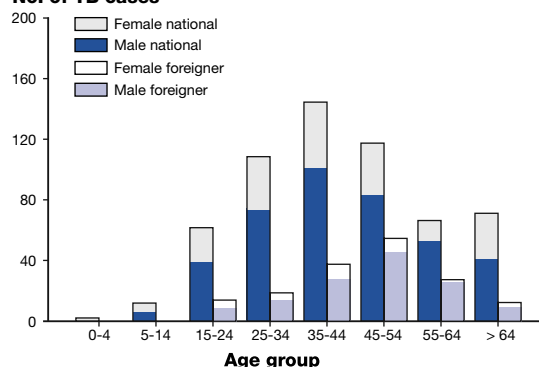
Tuberculosis notification rates by age group and sex, 1999

Cases/100 000

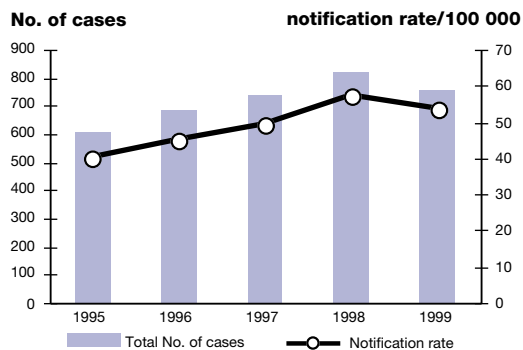


Tuberculosis cases by age group, geographic origin and sex, 1999

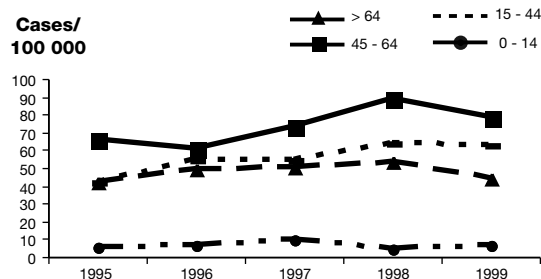
No. of TB cases



Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



GEORGIA

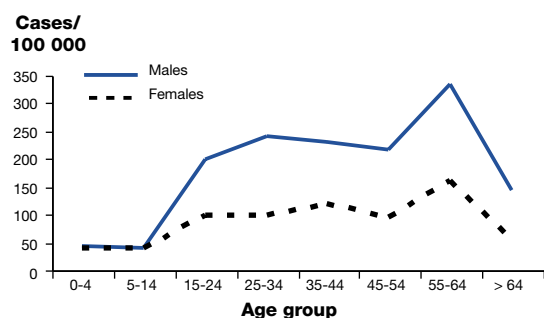
Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	6 546	
Notification rate per 100 000	130.8	
Sex ratio (male/female)	1.9	
Median age (years)	–	
Foreign citizens / individuals born abroad	–	
New (never treated)	4 478	(68.4%)
Culture positive	1 147	(18%)
Pulmonary	4 827	(73.7%)
among which sputum smear positive	1 399	(29.0%)

Drug resistance surveillance, 1999

Not available

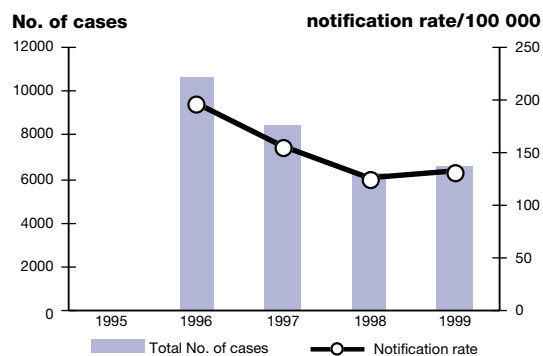
Tuberculosis notification rates by age group and sex, 1999



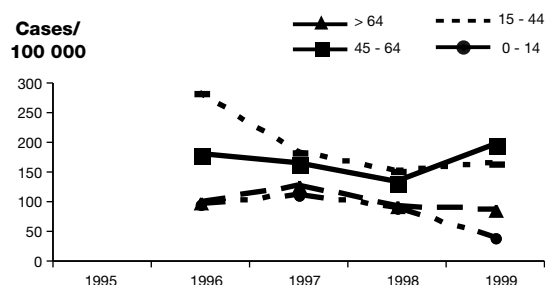
Tuberculosis cases by age group, geographic origin and sex, 1999

Not available

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



KAZAKHSTAN

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	25 060	
Notification rate per 100 000	154.0	
Sex ratio (male/female)	1.3	
Median age (years)	–	
Foreign citizens / individuals born abroad	–	–
New (never treated)	20 912	(83.4%)
Culture positive	–	–
Respiratory	22 560	(90.0%)
among which sputum smear positive	9 801	(43.4%)

Drug resistance surveillance, 1999

Linkage with TB notifications no
 Geographic coverage national
 Culture positive cases with DST* results –

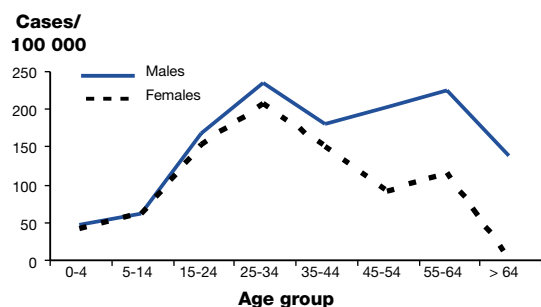
Note: culture and DST performed on selected cases

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	2 024	–	2 472	–	0	–	4 496
Resistant to INH	397	(19.6)	1 099	(44.5)	–	–	1 496
Resistant to RMP	186	(9.2)	717	(29.0)	–	–	903
Multidrug resistant §	110	(5.4)	511	(20.7)	–	–	621

* Drug susceptibility testing; § resistant to at least INH and RMP

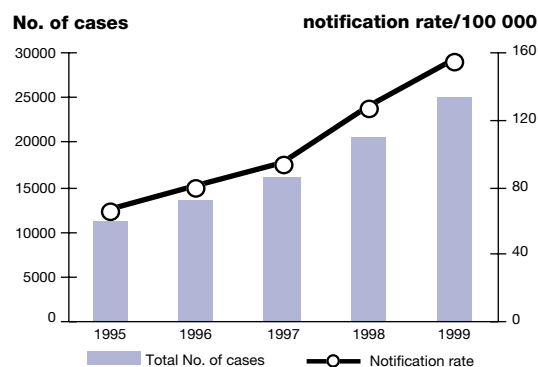
Tuberculosis notification rates by age group and sex, 1999



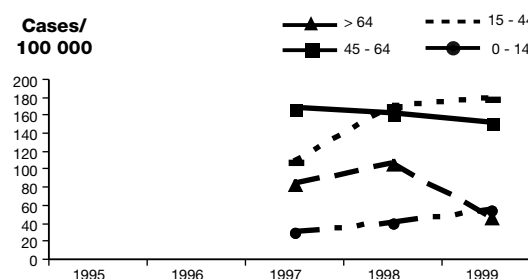
Tuberculosis cases by age group, geographic origin and sex, 1999

Not available

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



KYRGYZSTAN

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	6 501	
Notification rate per 100 000	139.2	
Sex ratio (male/female)	1.7	
Median age (years)	–	
Foreign citizens / individuals born abroad	–	–
New (never treated)	6 376	(98.1%)
Culture positive	–	–
Respiratory	5 818	(91.2%)
among which sputum smear positive	1 642	(28.2%)

Drug resistance surveillance, 1999

Linkage with TB notifications	no
Geographic coverage	some areas
Culture positive cases with DST* results	–

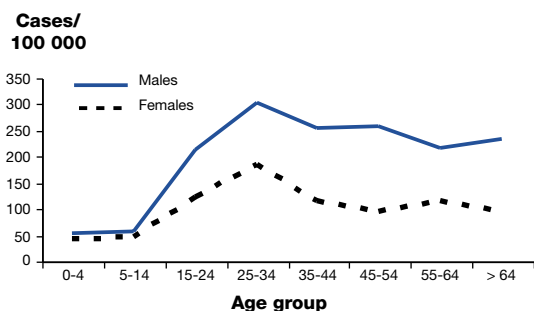
Note: cases diagnosed at the National Reference Laboratory. Culture and DST done on selected cases

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	141	–	81	–	96	–	318
Resistant to INH	33	(23.4)	43	(53.1)	39	(40.6)	115
Resistant to RMP	18	(12.8)	36	(44.4)	24	(25.0)	78
Multidrug resistant §	9	(6.4)	30	(37.0)	20	(20.8)	59

* Drug susceptibility testing; § resistant to at least INH and RMP

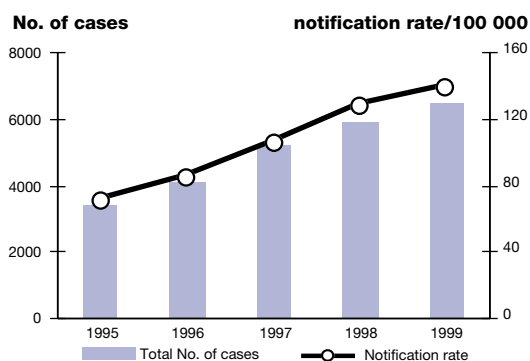
Tuberculosis notification rates by age group and sex, 1999



Tuberculosis cases by age group, geographic origin and sex, 1999

Foreigners not included in TB notifications

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

*Data provided on new cases only

LATVIA

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	1 968	
Notification rate per 100 000	82.4	
Sex ratio (male/female)	2.4	
Median age (years)	–	
Individuals born abroad	39	(2.3%)
New (never treated)	1 673	(85.0%)
Culture positive	1 227	(62.3%)
Respiratory	1 867	(94.9%)
among which sputum smear positive	780	(41.8%)

* Not included in TB notifications

Drug resistance surveillance, 1999

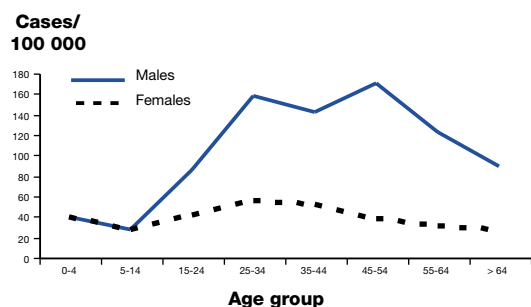
Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	1015/1227 (83%)

Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	825	–	190	–	0	–	1 015
Resistant to INH	229	(27.8)	60	(31.6)	–	–	289
Resistant to RMP	86	(10.4)	53	(27.9)	–	–	139
Multidrug resistant §	86	(10.4)	51	(26.8)	–	–	137

* Drug susceptibility testing; § resistant to at least INH and RMP

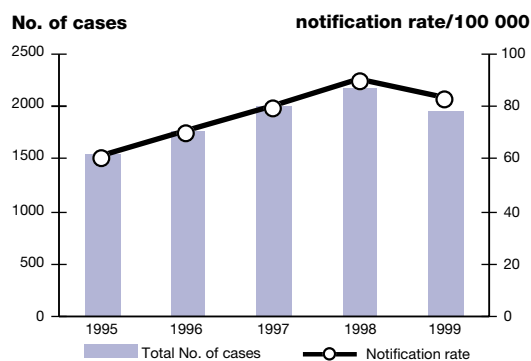
Tuberculosis notification rates by age group and sex, 1999



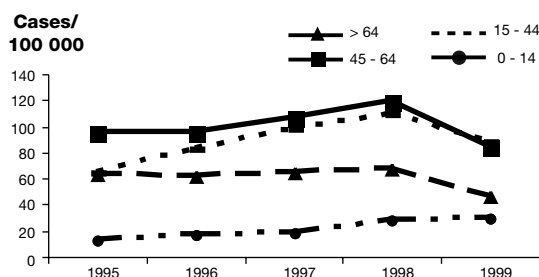
Tuberculosis cases by age group, geographic origin and sex, 1999

**< 5% of TB cases
of foreign origin**

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



*Data provided on new cases only

LITHUANIA

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	2 903	
Notification rate per 100 000	78.8	
Sex ratio (male/female)	1.8	
Median age (years)	–	
Individuals born abroad	146	(5.0%)
New (never treated)	2 558	(88.1%)
Culture positive	1 420	(48.9%)
Pulmonary	2 273	(78.3%)
among which sputum smear positive	984	(43.3%)

Drug resistance surveillance, 1999

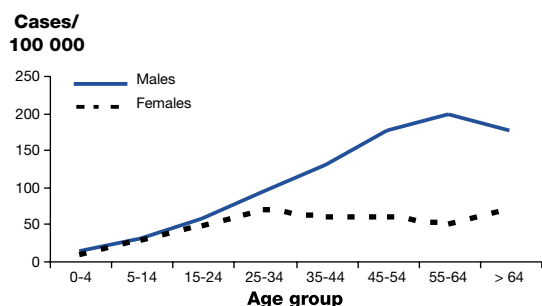
Linkage with TB notifications	yes
Geographic coverage	national
Culture positive cases with DST* results	986/1420 (69%)

Resistant cases by previous anti-TB treatment status

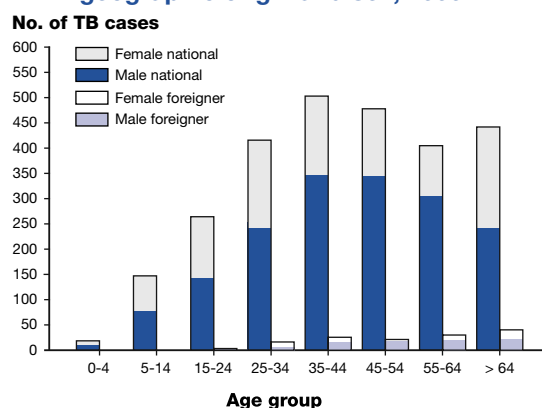
	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	819	–	167	–	0	–	986
Resistant to INH	178	(21.7)	90	(53.9)	–	–	268
Resistant to RMP	83	(10.1)	77	(46.1)	–	–	160
Multidrug resistant §	64	(7.8)	71	(42.5)	–	–	135

* Drug susceptibility testing; § resistant to at least INH and RMP

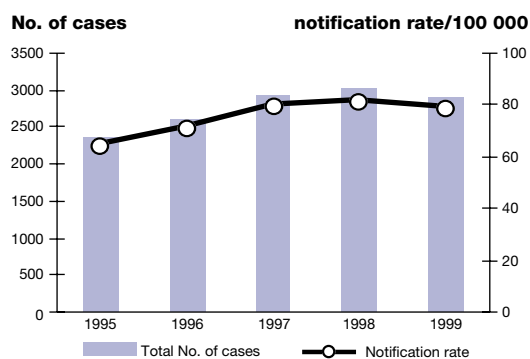
Tuberculosis notification rates by age group and sex, 1999



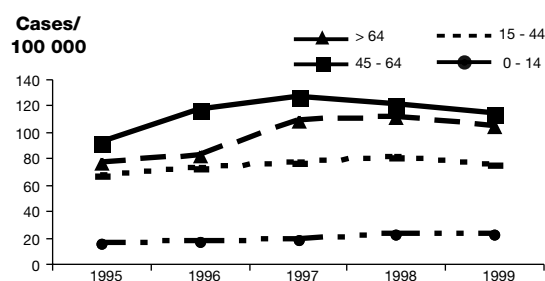
Tuberculosis cases by age group, geographic origin and sex, 1999



Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



MOLDOVA, REPUBLIC OF

Tuberculosis case notifications, 1999

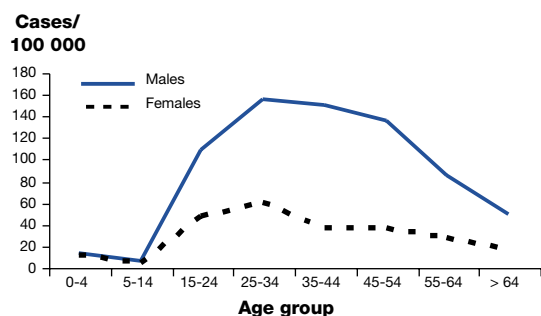
Type of data provided	Aggregate	
Total number of cases	2 947	
Notification rate per 100 000	67.3	
Sex ratio (male/female)*	2.7	
Median age (years)	–	
Foreign citizens	47	(1.7%)
New (never treated)	2 648	(89.9%)
Culture positive	1 026	(37.8%)
Respiratory	2 530	(86%)
among which sputum smear positive	764	(30.2%)

* Provided on new cases only

Drug resistance surveillance, 1999

Not available

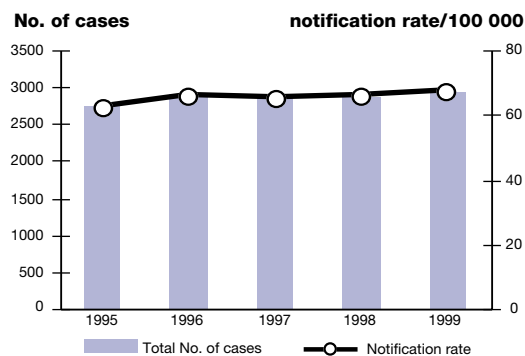
Tuberculosis notification rates by age group and sex, 1999



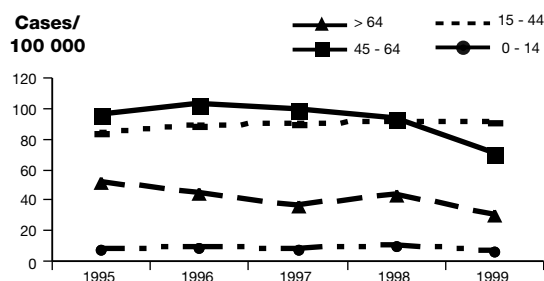
Tuberculosis cases by age group, geographic origin and sex, 1999

< 5% of TB cases of foreign origin

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999



*Data provided on new cases only

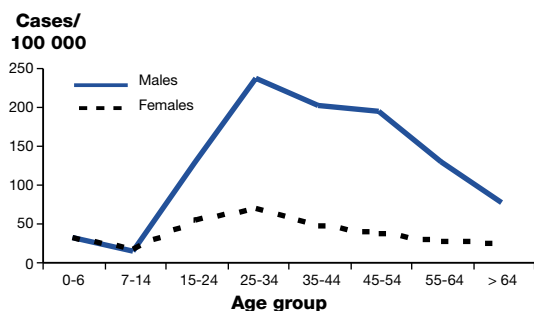
RUSSIAN FEDERATION

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	135 054	
Notification rate per 100 000	91.8	
Sex ratio (male/female) *	3.2	
Median age (years)	–	
Foreign citizens *	141	(0.1%)
New (never treated)	124 044	(91.8%)
Culture positive	–	–
Respiratory	118 709	(95.7%)
among which sputum smear positive	–	–

* Provided on new cases only

Tuberculosis notification rates by age group and sex, 1999



Drug resistance surveillance, 1999

Linkage with TB notifications yes
 Geographic coverage national
 Culture positive cases with DST* results

Note: data on new respiratory TB cases notified to the Ministry of Health DST not routinely performed.

Resistant cases by previous anti-TB treatment status

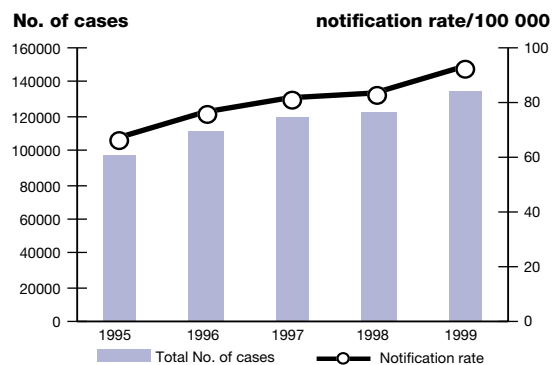
	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	36 217	–	–	–	–	–	36 217
Resistant to INH	na	–	–	–	–	–	na
Resistant to RMP	na	–	–	–	–	–	na
Multidrug resistant §	2 429	(6.7)	–	–	–	–	2 429

* Drug susceptibility testing; § resistant to at least INH and RMP

Tuberculosis cases by age group, geographic origin and sex, 1999

< 5% of TB cases of foreign origin

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

*Data provided on new cases only

TAJIKISTAN

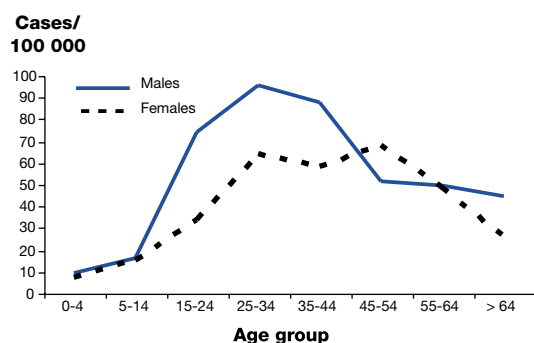
Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	2 553	
Notification rate per 100 000	41.8	
Sex ratio (male/female)	1.4	
Median age (years)	–	
Foreign citizens / individuals born abroad	–	–
New (never treated)	–	–
Culture positive	–	–
Respiratory	–	–
among which sputum smear positive	–	–

Drug resistance surveillance, 1999

Not available

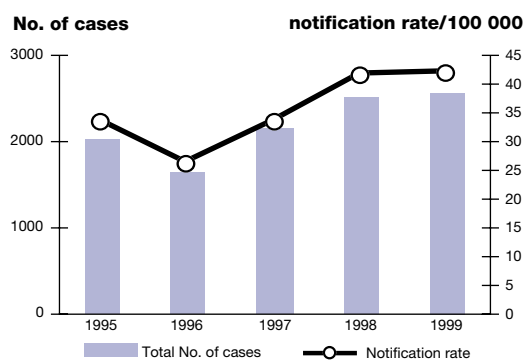
Tuberculosis notification rates by age group and sex, 1999



Tuberculosis cases by age group, geographic origin and sex, 1999

Not available

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

TURKMENISTAN

Tuberculosis case notifications, 1999

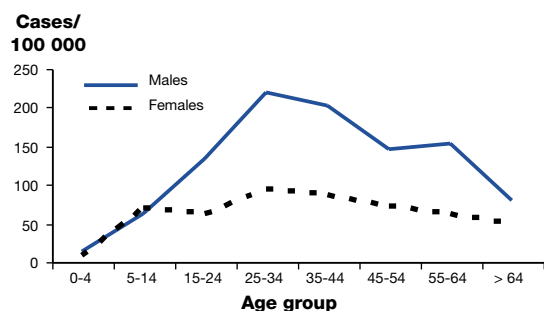
Type of data provided	Aggregate	
Total number of cases	4 092	
Notification rate per 100 000	93.3	
Sex ratio (male/female)	1.8	
Median age (years)	–	
Foreign citizens / individuals born abroad *	–	
New (never treated)	4 010	(98.0%)
Culture positive	–	–
Respiratory	3 889	(95.0%)
among which sputum smear positive	992	(25.5%)

* Foreigners not included in TB notifications

Drug resistance surveillance, 1999

Not available

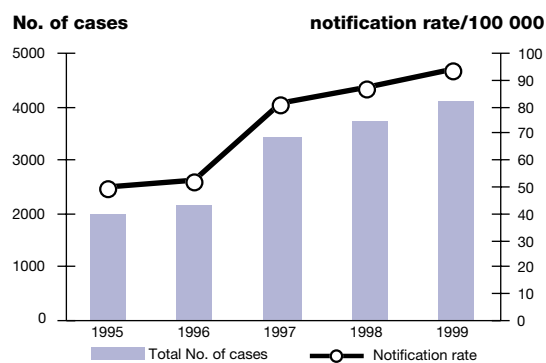
Tuberculosis notification rates by age group and sex, 1999



Tuberculosis cases by age group, geographic origin and sex, 1999

Foreigners not included in TB notifications

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

*Data provided on new cases only

UKRAINE

Tuberculosis case notifications, 1999

Type of data provided	Aggregate	
Total number of cases	32 879	
Notification rate per 100 000	64.9	
Sex ratio (male/female) *	2.4	
Median age (years)	–	
Foreign citizens / individuals born abroad **	–	
New (never treated)	27 118	(82.5%)
Culture positive	–	–
Respiratory	31 187	(94.9%)
among which sputum smear positive	–	–

* New cases only; ** Foreigners not included in TB notifications

Drug resistance surveillance, 1999

Linkage with TB notifications no
 Geographic coverage Kiev region
 Culture positive cases with DST* results –

Note: data from one laboratory in Kiev.

Culture and DST not routinely performed

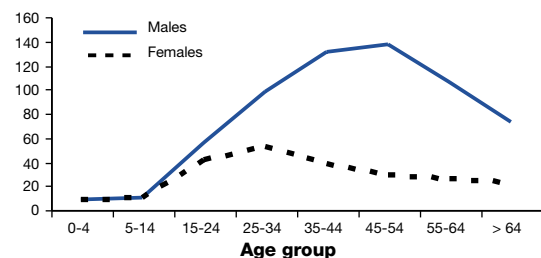
Resistant cases by previous anti-TB treatment status

	New		Previously treated		Unknown		Total
	N	(%)	N	(%)	N	(%)	
Tested	245	–	239	–	0	–	484
Resistant to INH	30	(12.2)	86	(36.0)	–	–	116
Resistant to RMP	27	(11.0)	75	(31.4)	–	–	102
Multidrug resistant §	19	(7.8)	67	(28.0)	–	–	86

* Drug susceptibility testing; § resistant to at least INH and RMP

Tuberculosis notification rates by age group and sex, 1999

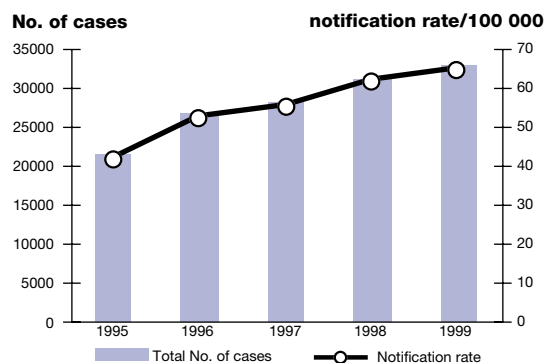
Cases/
100 000



Tuberculosis cases by age group, geographic origin and sex, 1999

**Foreigners not included
in TB notifications**

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

*Data provided on new cases only

UZBEKISTAN

Tuberculosis case notifications, 1999

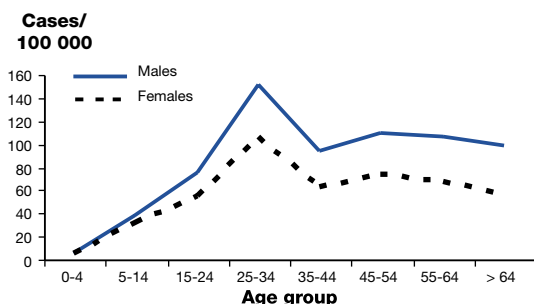
Type of data provided	Aggregate	
Total number of cases	16 959	
Notification rate per 100 000	70.8	
Sex ratio (male/female)*	1.4	
Median age (years)	–	
Foreign citizens / individuals born abroad**	–	
New (never treated)	15 080	(88.9%)
Culture positive	–	–
Respiratory	15 195	(89.6%)
among which sputum smear positive	4 096	(27.0%)

* New cases only; ** Foreigners not included in TB notifications

Drug resistance surveillance, 1999

Not available

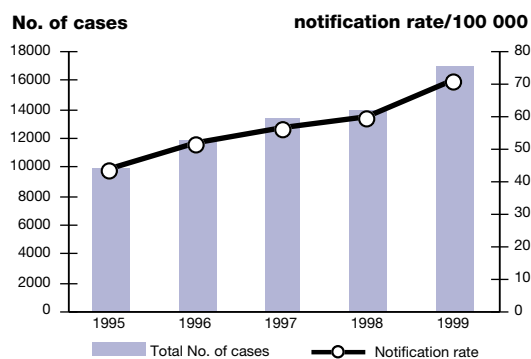
Tuberculosis notification rates by age group and sex, 1999



Tuberculosis cases by age group, geographic origin and sex, 1999

Foreigners not included in TB notifications

Total number of TB cases and notification rates, 1995-1999



Tuberculosis notification rates by age group, 1995-1999

Not available

*Data provided on new cases only