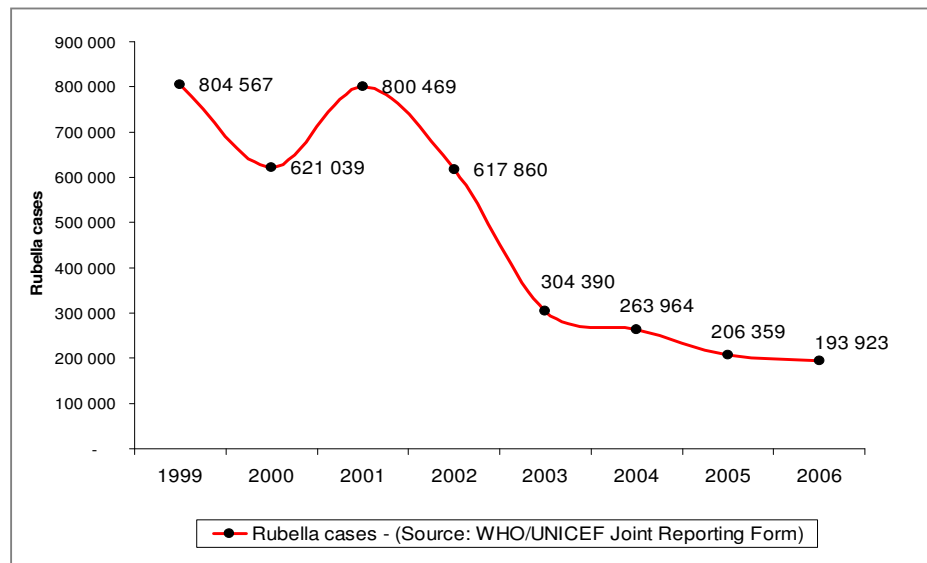


Rubella Surveillance in the WHO European Region

**Figure 1: Reported rubella cases
WHO European Region, 1999-2006**



The World Health Organization (WHO) European Region uses WHO/UNICEF Joint Reporting Form to collect aggregate rubella cases annually from member states. *Figure 1* shows a declining trend of rubella cases reported to the WHO European Region between 1999 and 2006.

In September 2005, a target of rubella elimination in the region by 2010 was set. To monitor and document the rubella elimination progress, WHO/Europe asked Member States to provide monthly case-based or aggregate data but this process has been very slow. The number of countries submitting monthly rubella reports increased from 1 in 2004 to 20 in 2007 but it is still way below the target of 53 Member States. In 2007, the completeness and timeliness of monthly rubella reporting were 24% and 13% respectively. Please refer to *Table 1* of this bulletin for more detail on countries submitting rubella data.

To assist Member States in investigating and classifying suspected rubella cases, a measles and rubella lab network exists which comprises 49 (93%) of Member States. Member States are encouraged to strengthen their rubella surveillance system by conducting rigorous case investigations including laboratory confirmation of suspected rubella cases, and reporting monthly rubella case-based or aggregate data.

Reporting to WHO and European levels

WHO needs to receive monthly data from all Member States. For countries belonging to the European Union, notification will be done through the European Centre for Disease Prevention and Control (ECDC) or EUVAC.NET, the dedicated surveillance network collaborating with ECDC.

Table 1: Classification of suspected measles and rubella cases, Jan-Oct, 2007

Country	Measles								Rubella							
	Total suspected	Classification					Monthly Reporting		Total suspected	Classification					Monthly Reporting	
		Lab confirmed	Epi-Link	Clinical	Discarded	Pending	% Completeness	% Timeliness		Lab confirmed	Epi-Link	Clinical	Discarded	Pending	% Completeness	% Timeliness
Albania [#]	33	21	0	0	12	0	100%	90%	-	-	-	-	-	-	0%	0%
Andorra	0	0	0	0	0	0	90%	50%	0	0	0	0	0	0	90%	50%
Armenia	10	0	0	0	0	10	80%	0%	-	-	-	-	-	-	0%	0%
Austria	3	2	0	0	0	1	90%	80%	-	-	-	-	-	-	0%	0%
Azerbaijan	0	0	0	0	0	0	90%	40%	3	1	0	0	0	2	80%	20%
Belarus	0	0	0	0	0	0	40%	40%	0	0	0	0	0	0	10%	10%
Belgium	6	1	0	4	0	1	90%	70%	-	-	-	-	-	-	0%	0%
Bosnia and Herzegovina	No Report	-	-	-	-	-	0%	0%	-	-	-	-	-	-	0%	0%
Bulgaria	1	0	0	0	0	1	100%	100%	-	-	-	-	-	-	0%	0%
Croatia	6	0	0	0	0	6	100%	100%	41	29	1	3	14	0	30%	30%
Cyprus	0	0	0	0	0	0	100%	80%	0	0	0	0	0	0	80%	80%
Czech Republic*	2	2	0	0	0	0	100%	40%	-	-	-	-	-	-	0%	0%
Denmark*	5	3	0	0	0	1	100%	90%	0	0	0	0	1	0	10%	10%
Estonia	1	1	0	0	0	0	100%	90%	0	0	0	0	0	0	100%	20%
Finland	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	0%	0%
France	31	16	0	13	0	2	90%	60%	-	-	-	-	-	-	0%	0%
Georgia	36	2	0	0	0	34	100%	40%	195	0	0	0	0	195	100%	20%
Germany*	464	221	174	69	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Greece	1	0	0	1	0	0	60%	10%	-	-	-	-	-	-	0%	0%
Hungary	2	0	0	0	1	1	100%	100%	4	0	0	0	0	4	70%	70%
Iceland	0	0	0	0	0	0	80%	50%	-	-	-	-	-	-	0%	0%
Ireland	90	16	6	63	0	5	100%	100%	19	4	2	6	0	7	100%	100%
Israel	402	60	0	1	0	341	100%	20%	-	-	-	-	-	-	0%	0%
Italy	158	0	0	0	0	158	80%	0%	-	-	-	-	-	-	0%	0%
Kazakhstan	7	4	1	1	0	1	30%	20%	2	0	2	0	0	0	10%	0%
Kyrgyzstan	41	38	0	0	0	3	20%	10%	-	-	-	-	-	-	0%	0%
Latvia	0	0	0	0	0	0	100%	80%	7	1	0	4	0	2	100%	70%
Lithuania	0	0	0	0	0	0	100%	90%	13	0	0	0	0	13	90%	60%
Luxembourg	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Malta	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Monaco	No Report	-	-	-	-	-	0%	0%	-	-	-	-	-	-	0%	0%
Montenegro	0	0	0	0	0	0	90%	30%	0	0	0	0	0	0	80%	50%
Netherlands*	9	8	0	0	1	0	70%	30%	-	-	-	-	-	-	0%	0%
Norway*	20	17	3	0	0	0	100%	80%	-	-	-	-	-	-	0%	0%
Poland	38	28	1	6	0	3	100%	80%	0	0	0	0	0	0	10%	10%
Portugal	0	0	0	0	0	0	90%	50%	-	-	-	-	-	-	0%	0%
Republic of Moldova	7	7	0	0	0	0	90%	10%	-	-	-	-	-	-	0%	0%
Romania	348	343	0	5	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Russian Federation	167	157	0	8	0	2	100%	100%	-	-	-	-	-	-	10%	10%
San Marino	No Report	-	-	-	-	-	0%	0%	-	-	-	-	-	-	0%	0%
Serbia	174	147	0	0	0	27	80%	30%	-	-	-	-	-	-	0%	0%
Slovakia	4	0	0	0	0	1	100%	80%	3	0	0	0	5	0	100%	60%
Slovenia	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Spain	260	234	19	7	0	0	100%	80%	-	-	-	-	-	-	0%	0%
Sweden	1	0	0	1	0	0	100%	90%	-	-	-	-	-	-	0%	0%
Switzerland*	879	367	103	398	0	11	100%	30%	-	-	-	-	-	-	0%	0%
Tajikistan	0	0	0	0	0	0	70%	10%	179	98	0	0	0	81	70%	10%
The former Yugoslav Republic of Macedonia	1	-	-	-	-	1	100%	0%	-	-	-	-	-	-	0%	0%
Turkey	3	3	0	0	0	0	60%	10%	576	0	0	0	0	576	70%	10%
Turkmenistan	59	34	0	25	0	0	100%	0%	-	-	-	-	-	-	0%	0%
Ukraine	976	231	0	0	0	745	90%	90%	-	-	-	-	-	-	0%	0%
United Kingdom*	772	756	16	0	0	0	100%	60%	-	-	-	-	-	-	0%	0%
Uzbekistan	862	212	0	3	0	647	100%	40%	0	0	0	0	0	0	100%	40%
Total/Averages	5879	2931	323	605	14	2002	84%	55%	1042	133	5	13	20	880	24%	13%

[#]Import related lab confirmed measles cases: Albania = 21

^{*}Imported lab confirmed measles cases: Czech Republic=1; Denmark=2; Germany =10; Netherlands=3; Norway=2; Switzerland=9; UK=19
 Data source: Monthly aggregate and case-based data reported by Member States to WHO/Europe and/or EUVAC.NET.

Table 2: Measles and rubella laboratory test results, Jan-Oct, 2007

Country	Specimen								
	Collected	Tested for measles	Positive for measles (%)	Measles Equivocal	Negative for measles	Tested for rubella	Positive for rubella (%)	Rubella Equivocal	Negative for rubella
Albania	35	35	22 (63)	0	13	0	0	0	0
Andorra	No Lab								
Armenia	126	53	1 (2)	0	52	126	83 (66)	2	41
Austria	4909	867	9 (1)	0	858	5062	58 (1)	0	5004
Azerbaijan	32	13	0 (0)	0	13	19	1 (5)	0	18
Belarus	120	116	1 (1)	0	116	120	6 (5)	0	114
Belgium	60	65	18 (28)	1	45	41	2 (5)	0	38
Bosnia and Herzegovina	No Report								
Bulgaria	57	57	3 (5)	0	54	57	2 (4)	0	55
Croatia	32	0	0	0	0	32	21 (66)	0	11
Cyprus	0	0	0	0	0	0	0	0	0
Czech Republic	62	30	7 (23)	4	19	60	7 (12)	0	53
Denmark	No Report								
Estonia	508	173	3 (2)	0	169	511	10 (2)	0	500
Finland	527	107	0 (0)	0	107	420	0 (0)	0	420
France	No Report								
Georgia	13	6	2 (33)	0	4	7	0 (0)	1	6
Germany	No Report								
Greece	380	62	1 (2)	0	61	318	69 (22)	0	249
Hungary	643	35	1 (3)	0	33	50	1 (2)	0	49
Iceland	No Report								
Ireland	No Report								
Israel	802	71	32 (45)	0	39	332	51 (15)	0	281
Italy	83	0	0	0	0	0	0	0	0
Kazakhstan	170	145	13 (9)	2	130	162	72 (44)	8	82
Kyrgyzstan	257	257	78 (30)	10	169	257	5 (2)	9	243
Latvia	170	40	0 (0)	1	39	131	0 (0)	0	131
Lithuania	10	12	0 (0)	0	10	10	0 (0)	0	10
Luxembourg	203	135	0 (0)	2	133	69	10 (14)	9	50
Malta	1135	9	2 (22)	1	6	1097	42 (4)	19	1036
Monaco	No Report								
Montenegro	No Lab								
Netherlands	44	49	16 (33)	0	33	19	0 (0)	0	19
Norway	64	42	6 (14)	0	36	24	2 (8)	0	22
Poland	89	88	15 (17)	6	67	88	23 (26)	1	64
Portugal	31	2	0 (0)	0	2	0	0	0	0
Republic of Moldova	54	56	10 (18)	0	46	56	3 (5)	0	53
Romania	895	799	346 (43)	4	449	527	5 (1)	2	520
Russian Federation	2907	2802	190 (7)	44	2568	2231	428 (19)	56	1747
San Marino	No Lab								
Serbia	201	61	45 (74)	2	14	139	1 (1)	0	138
Slovakia	34	13	1 (8)	0	12	24	0 (0)	0	24
Slovenia	289	59	2 (3)	2	54	234	2 (1)	1	231
Spain	739	908	360 (40)	2	355	648	1 (0)	0	591
Sweden	No Report								
Switzerland	No Lab			0					
Tajikistan	278	95	0 (0)	0	95	277	171 (62)	1	105
The former Yugoslav Republic of Macedonia	No Report								
Turkey	951	951	2 (0)	5	944	950	251 (26)	67	632
Turkmenistan	208	208	38 (18)	1	144	208	7 (3)	0	176
Ukraine	876	829	228 (28)	7	515	617	103 (17)	9	505
United Kingdom	5961	4530	1280 (28)	152	3098	1172	50 (4)	43	1079
Uzbekistan	287	270	212 (79)	7	51	87	17 (20)	1	69
Euro Total	24242	14050	2944 (21)	253	10553	16182	1504 (9)	229	14366

Source: Monthly lab data provided by laboratories of the Regional Measles and Rubella Lab Network

Website: <http://www.euro.who.int/vaccine>; CISID: <http://data.euro.who.int/cisid>; email: measles@euro.who.int