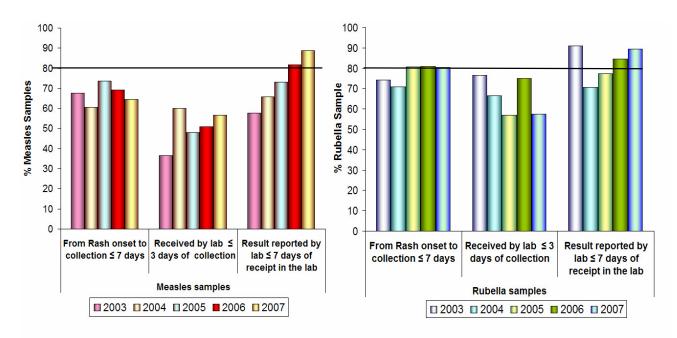


## Measles and Rubella Surveillance Bulletin

Monthly bulletin of the Vaccine-preventable Diseases and Immunization Programme (VPI)
World Health Organization, Regional Office for Europe, Copenhagen, Denmark
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## Measles and Rubella Sample Collection to Result Reporting Surveillance and Laboratory Indicators 2004-2007\*, WHO EURO



\*Data as of Dec, 2007

Source: Monthly aggregate MR Lab reporting

The above graphs demonstrate the following surveillance and lab performance indicators in WHO/EURO between years 2003-2007:

- (i) Timeliness of collecting clinical specimen upon onset of rash for both measles and rubella,
- (ii) Timeliness of specimen transportation to the investigating laboratory and
- (iii) Timeliness of reporting laboratory results to the authorities.

Number and type of samples received by lab for testing measles, rubella or both											
Year	Total	Serum (%)	Oral fluid (%)	Nasopharyngeal swab (%)	Dry blood spot (%)	Urine (%)	EDTA whole blood (%)	Other specimen (%)			
2003	8487	7915 (93.3%)	451 (5.3%)	18 (0.2%)	0 (0%)	60 (0.7%)	11 (0.1%)	32 (0.4%)			
2004	34756	29208 (84%)	4622 (13.3%)	224 (0.6%)	0 (0%)	306 (0.9%)	49 (0.1%)	347 (1%)			
2005	34803	30917 (88.8%)	3020 (8.7%)	61 (0.2%)	48 (0.1%)	125 (0.4%)	458 (1.3%)	174 (0.5%)			
2006	33436	24841 (74.3%)	4901 (14.7%)	710 (2.1%)	126 (0.4%)	668 (2%)	1661 (5%)	529 (1.6%)			
2007	27601	20391 (73.9%)	4633 (16.8%)	159 (0.6%)	87 (0.3%)	436 (1.6%)	1197 (4.3%)	698 (2.5%)			

\*Data as of Dec, 2007

Source: Monthly aggregate MR Lab reporting

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

	Measles									Rubella								
	Total suspected	Total Confirmed (%)	Classification				Monthly Reporting				Classification					Monthly Reporting		
Country			Lab confirmed	Epi-Link	Clinical	Discarded	Pending <sup>1</sup>	% Complete- ness	% Timeli- ness	Total suspected	Total Confirmed (%)	Lab confirmed	Epi-Link	Clinical	Discarded	Pending <sup>1</sup>	% Complete- ness	% Timeli- ness
Albania <sup>2</sup>	33	21 (64%)	21	0	0	12	0	100%	90%	-	-	-	-	-	-	-	0%	0%
Andorra	0	0	0	0	0	0	0	100%	45%	0	0	0	0	0	0	0	100%	45%
Armenia	20	0	0	0	0	0	20	100%	9%	-	-	-	-	-	-	-	0%	0%
Austria	3	2 (67%)	2	0	0	0	1	100%	81%	-		-	-	-	-	-	0%	0%
Azerbaijan	0	0	0	0	0	0	0	90%	45%	3	1 (33%)	1 -	0	0	0	2	81%	27%
Belarus	1 50	1 (100%)	1	0	0	0	0	100%	90%	13	7 (54%)	7	0	0	0	6	100%	90%
Belgium Bosnia and Herzegovina	50 No Report	49 (98%)	8	10	31	0	1 -	90%	72% 0%	-	-	-	-	-	-	-	0% 0%	0% 0%
Bulgaria	1 1	0	0	0	0	0	1	100%	100%	-		-	-	-		-	0%	0%
Croatia	6	0	0	0	0	0	6	100%	100%	41	33 (80%)	29	1	3	14	0	27%	27%
Cyprus	0	0	0	0	0	0	0	100%	81%	0	0	0	0	0	0	0	81%	81%
Czech Republic <sup>3</sup>	2	2 (100%)	2	0	0	0	0	100%	45%	-	-	-	-	-	Ė	-	0%	0%
Denmark <sup>3</sup>	4	3 (75%)	3	0	0	0	1	100%	90%	1	0 (0%)	0	0	0	1	0	9%	9%
Estonia	1	1 (100%)	1	0	0	0	0	100%	90%	9	9 (100%)	6	0	3	0	0	100%	27%
Finland	0	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	-	0%	0%
France <sup>3</sup>	53	38 (72%)	22	0	16	15	0	90%	63%	-	-	-	-	-	-	-	0%	0%
Georgia	39	2 (5%)	2	0	0	0	37	100%	45%	209	0 (0%)	0	0	0	0	209	100%	27%
Germany <sup>3</sup>	530	530 (100%)	259	194	77	0	0	100%	100%	-	-	-	-	-	-	-	0%	0%
Greece	1	1 (100%)	0	0	1	0	0	54%	9%	-	-	-	-	-	-	-	0%	0%
Hungary	2	0	0	0	0	1	1	100%	90%	4	0 (0%)	0	0	0	0	4	63%	63%
Iceland	0	0	0	0	0	0	0	90%	54%	-	-	-	-	-	-	-	0%	0%
Ireland	61	55 (90%)	13	6	36	0	6	100%	100%	19	12 (63%)	4	2	6	0	7	100%	100%
Israel	402	61 (15%)	60	0	1	0	341	100%	27%	-	-	-	-	-	-	-	0%	0%
Italy	167	0	0	0	0	0	167	81%	9%	-	-	-	-	-	-	-	0%	0%
Kazakhstan	7	6 (86%)	4	1	1	0	1	72%	27%	2	2 (100%)	0	2	0	0	0	9%	0%
Kyrgyzstan	43	38 (88%)	38	0	0	0	5	18%	9%	-	-	-	·	-	-	-	0%	0%
Latvia	0	0	0	0	0	0	0	100%	81%	7	5 (71%)	1	0	4	0	2	100%	72%
Lithuania	0	0	0	0	0	0	0	100%	90%	13	0 (0%)	0	0	0	0	13	90%	63%
Luxembourg	0	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	-	0%	0%
Malta	0	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	-	0%	0%
Moldova	10	7 (70%)	7	0	0	0	3	100%	18%	-	-	-	-	-	-	-	0%	0%
Monaco	No Report	-	-	-	-	-	-	0%	0%	-	-	-	-	-	-	-	0%	0%
Montenegro	9	0 8 (89%)	8	0	0	1	0	90% 72%	36% 27%	0	0	- 0	0	0	0	0	81% 0%	54% 0%
Netherlands <sup>3</sup> Norway <sup>3</sup>	20	20 (100%)	17	3	0	0	0	100%	81%	-	-		-	-		-	0%	0%
Poland	136	38 (28%)	29	1	8	93	5	100%	81%	0	0	0	0	0	0	0	9%	9%
Portugal	0	0	0	0	0	0	0	100%	54%	-		-	-	-	-	-	0%	0%
Romania	353	348 (99%)	343	0	5	5	0	100%	18%	-		-	-	-	-	-	0%	0%
Russian Federation	173	171 (99%)	163	0	8	0	2	100%	100%	_	_	-	-	-		-	9%	9%
San Marino	No Report	-	-		-	-		0%	0%	-	-	-		-	-	-	0%	0%
Serbia	174	147 (84%)	147	0	0	0	27	72%	27%	-	-	-	-	-	-	-	9%	9%
Slovakia	4	3 (75%)	2	1	0	0	1	100%	81%	7	2 (29%)	0	0	2	5	0	100%	63%
Slovenia	0	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	-	0%	0%
Spain	260	260 (100%)	234	19	7	0	0	100%	81%	-	-	-	-	-	-	-	0%	0%
Sweden	1	1 (100%)	0	0	1	0	0	100%	90%	-	-	-	-	-	-	-	0%	0%
Switzerland <sup>3</sup>	1077	969 (90%)	396	123	450	95	13	100%	27%	-	-	-	-	-	-	-	0%	0%
Tajikistan	0	0	0	0	0	0	0	81%	9%	188	100 (53%)	100	0	0	0	88	81%	9%
The former Yugoslav Republic of Macedonia	1	-	-	-	-	-	1	100%	9%	-	-	-	-	-	-	-	0%	0%
Turkey	3	3 (100%)	3	0	0	0	0	54%	9%	576	0 (0%)	0	0	0	0	576	63%	9%
Turkmenistan	59	59 (100%)	34	0	25	0	0	100%	0%	-	-	-	-	-	-	-	0%	0%
Ukraine	980	231 (24%)	231	0	0	0	749	90%	90%	-	-	-	-	-	-	-	0%	0%
United Kingdom <sup>3</sup>	886	886 (100%)	870	16	0	0	0	100%	63%	-	-		-	-	-	-	0%	0%
Uzbekistan	862	215 (25%)	212	0	3	0	647	100%	45%	202	19 (9%)	19	0	0	0	183	100%	45%
Euro Total/Averages	6434	4176 (65%)	3132	374		222	2036	87%	58%	1294	190 (15%)	167	5	18	20	1090	26%	16%
Data source: Monthly ag											. ,							

 $<sup>^{\</sup>rm 1}$  Under Investigation / classification unknown or not reported  $^{\rm 2}$  clinically suspected mealses / rubella

<sup>&</sup>lt;sup>2</sup> Import related lab confirmed measles cases included in total cases: Albania = 21

<sup>&</sup>lt;sup>3</sup> Imported lab confirmed measles cases included in total cases: Czech Republic=1; Denmark=2; France =5; Germany =12; Netherlands=3; Norway=2; Switzerland=9; UK=21

Table 2: Measles and rubella laboratory test results, Jan-Nov, 2007											
		Specimen								Repor	ting
Country	Collected	Tested for measles	Positive for measles (%)	Measles Equivocal	Negative for measles	Tested for rubella	Positive for rubella (%)	Rubella Equivocal	Negative for rubella	% Complete- ness	% Timeli ness
Albania	35	35	22 (63%)	0	13	0	0	0	0	92%	42%
Andorra	No Lab									0%	0%
Armenia	161	79	1 (1%)	0	78	152	85 (56%)	3	64	100%	42%
Austria	4909	948	10 (1%)	0	938	5421	61 (1%)	0	5360	100%	100%
Azerbaijan	34	14	0 (0%)	0	14	20	1 (5%)	0	19	58%	25%
Belarus	148	144	2 (1%)	0	142	146	6 (4%)	1	139	92%	50%
Belgium	91	94	25 (27%)	2	67	58	3 (5%)	1	54	100%	100%
Bosnia and Herzegovina	No Report	(2)	2 (50()		F0		2 (20()			0%	0%
Bulgaria	62	62	3 (5%)	0	59	62	2 (3%)	0	60	83%	75%
Croatia	32	0	0	0	0	32	21 (66%)	0	11	92%	67%
Cyprus	0	0	0 7 (22%)	0	0	0	-	0	0	100%	100%
Czech Republic Denmark	66 No Report	31	7 (23%)	4	20	64	7 (11%)	0	57	100%	100%
Estonia	508	173	3 (2%)	0	169	511	10 (2%)	0	500	100%	100%
Finland	645	128	0 (0%)	0	128	517	0 (0%)	0	517	92%	83%
France	No Report	120	0 (0%)	U	120	317	0 (0%)	U	317	0%	0%
Georgia	22	17	2 (12%)	0	15	27	0 (0%)	1	26	50%	25%
Germany	No Report	17	2 (12/0)	0	13		0 (0%)	<u> </u>	20	0%	0%
Greece	454	72	1 (1%)	0	71	382	82 (21%)	0	300	100%	67%
Hungary	784	41	2 (5%)	0	38	63	1 (2%)	0	62	100%	67%
Iceland	No Report	71	2 (3/0)		30	03	1 (2/0)		02	0%	0%
Ireland	No Report									0%	0%
Israel	1133	141	61 (43%)	0	80	408	64 (16%)	0	344	100%	83%
Italy	83	0	0	0	0	0	0	0	0	8%	8%
Kazakhstan	191	166	13 (8%)	2	151	183	76 (42%)	9	98	92%	67%
Kyrgyzstan	342	342	78 (23%)	10	254	342	7 (2%)	9	326	92%	25%
Latvia	189	47	0 (0%)	1	46	143	0 (0%)	0	143	92%	92%
Lithuania	11	13	0 (0%)	0	11	11	0 (0%)	0	11	100%	100%
Luxembourg	219	144	0 (0%)	3	141	76	11 (14%)	9	56	100%	100%
Malta	1135	9	2 (22%)	1	6	1097	42 (4%)	19	1036	83%	58%
Moldova	61	63	10 (16%)	0	53	63	3 (5%)	0	60	100%	92%
Monaco	No Report									0%	0%
Montenegro	No Lab									0%	0%
Netherlands	44	49	16 (33%)	0	33	19	0 (0%)	0	19	67%	25%
Norway	72	50	6 (12%)	0	44	26	2 (8%)	0	24	92%	92%
Poland	96	95	15 (16%)	6	74	95	26 (27%)	1	68	83%	50%
Portugal	49	7	0 (0%)	5	2	0	0	0	0	100%	100%
Romania	937	825	346 (42%)	4	475	569	5 (1%)	2	562	92%	0%
Russian Federation	4075	3970	204 (5%)	56	3710	2973	458 (15%)	65	2450	100%	92%
San Marino	No Lab									0%	0%
Serbia	201	61	45 (74%)	2	14	139	1 (1%)	0	138	67%	0%
Slovakia	34	13	1 (8%)	0	12	24	0 (0%)	0	24	92%	42%
Slovenia	289	59	2 (3%)	2	54	234	2 (1%)	1	231	100%	83%
Spain	739	908	360 (40%)	2	355	648	1 (0%)	0	591	75%	100%
Sweden	No Report									0%	0%
Switzerland	No Lab			0						0%	0%
Tajikistan	299	106	0 (0%)	0	106	298	178 (60%)	1	119	100%	0%
The former Yugoslav Republic of Macedonia	No Report									0%	0%
Turkey	951	951	2 (0%)	5	944	950	251 (26%)	67	632	83%	0%
Turkmenistan	220	220	38 (17%)	1	156	220	9 (4%)	0	186	83%	33%
Ukraine	954	906	230 (25%)	8	589	693	106 (15%)	10	577	100%	50%
United Kingdom	7032	5404	1525 (28%)	183	3696	1339	50 (4%)	49	1240	100%	100%
Uzbekistan	296	277	212 (77%)	7	58	96	19 (20%)	1	76	100%	25%
Euro Total / Average	27603	16664	3244 (19%)	304	12816	18101	1590 (9%)	249	16180	87%	60%
Data source: Aggregated											

Data source: Aggregated monthly lab data provided by laboratories of the Regional Measles and Rubella Lab Network.

 $Website: http://www.euro.who.int/vaccine; \qquad \textit{CISID: http://data.euro.who.int/cisid}; \qquad email: measles@euro.who.int/cisid; \\$