

WHO Epidemiological Brief



A monthly publication on vaccine-preventable diseases and immunization data and analysis

Highlighting in the WHO European Region:

- Update on measles in the European Region
- Update on rubella in the European Region
- Ukraine: Measles outbreak
- Regional and global Polio outbreak status

Summary

Measles and rubella in the Region

Surveillance data from the first three months of 2012 indicates that the European Region faces another year of severe measles burden. While some countries report a decrease in measles cases, other countries are experiencing outbreaks. The largest outbreak continues in Ukraine, followed by a smaller outbreak in the Russian Federation. The currently reported number of cases for January-March 2012 is expected to rise, as reporting is incomplete at this time.

Romania continues to face a serious rubella outbreak, with more than 10 000 cases reported in the first quarter of 2012. The number of rubella cases is also rising in the Russian Federation. Rubella surveillance reporting has challenges similar to those of measles, in terms of timeliness and completeness.

AFP surveillance review in Kyrgyzstan

The Regional Certification Commission (RCC) for Poliomyelitis Eradication recommended an assessment of Kyrgyzstan's AFP surveillance system, which was carried out by international experts on 16-20 April 2012. The experts determined that the existing AFP surveillance system is able to detect a poliomyelitis outbreak but may not be able to do so in a timely manner in all oblasts. The system also faces serious challenges in terms of staff shortages.

Update on measles and rubella in the European Region

Measles in 2012 (year-to-date)

The European Region faces another year of severe measles burden, according to surveillance data provided for the first quarter of 2012. The disease is moving across country borders; as some Member States are experiencing a decrease in measles burden, others are seeing substantial increases. Since the beginning of the year, 10 227 measles cases were officially reported to the WHO Regional Office from 31 Member States (as of 1 May 2012). This is comparable to 2011 in terms of total case count for the Region. Most cases are reported by Ukraine (6 403), Romania (1 449), Russian Federation (1 213), France (362), United Kingdom (256), Spain (182) and Italy (134).

The total number of countries reporting measles has decreased during the first quarter of 2012. The total number of cases per month is also decreasing: with 4 484 cases reported in January, 2 952 in February and 2 791 in March. However caution should be taken in suggesting that this data represents a downward trend in disease burden, due to incomplete and delayed reporting by some Member States. Through communication with Member States and assessing national official data (not yet submitted to the WHO Regional Office for Europe) we can expect the total numbers of cases in February and March to be higher than those presented here.

Measles in March 2012 (monthly report)

A total of 2 791 measles cases were reported in March 2012. Outbreaks are continuing in Ukraine and the Russian Federation, with these two countries reporting most of the cases in March (2 095 and 251 respectively). The number of reported measles cases is increasing in France (from 106 in January to 123 in February and 133 in March) and in Israel (from 3 cases in January to 21 in March). Spain and the United Kingdom report similar numbers as for February. Significantly lower numbers of cases were reported from Italy (only 6 in March, following 54 in January and 74 in Febru-

ary) and Romania (85 cases in March, following 1 256 in January and 108 in February). The Regional Office is following up with Member States for verification and updating of surveillance data.

Expected monthly measles surveillance reports for March have been received from 38 Member States; 18 countries reported the 2 791 confirmed measles cases, and 21 countries provided a “zero” report (no measles cases in March). The regional measles database is missing March data from 13 of the 51 Member States that provide monthly reports (two Member States do not report on a monthly basis), and the Vaccine-preventable Diseases and Immunization programme is following up with them to receive reports.

Rubella in 2012 (year-to-date)

As of 1 May, 12 189 rubella cases were reported in 2012 by 16 of 41 Member States reporting monthly rubella. Monthly rubella data from 12 Member States are not available due to various reasons (four Member States in the Region do not report rubella on a monthly basis or do not have rubella surveillance systems in place). The timeliness and completeness of rubella reporting faces challenges similar to those mentioned for measles reporting.

In the first quarter of 2012 most cases are reported from Romania (10 602), Poland (453 for January and February) and the Russian Federation (351).

Rubella in March 2012 (monthly report)

Eleven Member States reported 6 591 rubella cases with onset in March 2012. The highest number of cases reported for March was from Romania, where an outbreak continues, with 5 701 (850 in January and 4 051 February). The number of reported cases is also increasing in the Russian Federation (from 65 in January to 165 in March). The situation in Romania demands special attention and more detailed analysis, as outbreaks of measles and rubella have been ongoing during the same period. In addition, Spain has informed the WHO Regional Office for Europe of an epidemiological link between rubella cases detected in Spain and the outbreak in Romania. WHO is following up on rubella surveillance information with Member States, after the US Centers for Disease Control and Prevention (CDC) notified WHO of a US citizen who had contracted rubella during a visit to the European Region.

Rubella surveillance reports for March were received from 32 Member States, with 22 of them providing a “zero” report (no cases with onset in March).

Polio and AFP

AFP surveillance review in Kyrgyzstan

Since 2010, when a large poliomyelitis outbreak was detected in Tajikistan with further spread into Kazakhstan, Turkmenistan and the Russian Federation, the WHO Regional Office for Europe has initiated reviews and strengthening of AFP surveillance systems in all countries affected by the outbreak and those considered at high risk of wild poliovirus transmission following importation. This group of countries includes Kyrgyzstan.

In 2011, the WHO Regional Office for Europe and the Regional Certification Commission (RCC) for Poliomyelitis Eradication recommended that another assessment of the AFP surveillance system in Kyrgyzstan be carried out, along with assessments of other selected Member States affected by the 2010 polio outbreak and considered by the RCC at high risk of wild poliovirus transmission in case of importation.

A team comprised of five international experts conducted a rapid surveillance review on 16-20 April to assess if the existing AFP surveillance system was

sensitive enough for timely detection of poliovirus circulation, and to make specific recommendations on how to ensure and maintain high quality AFP surveillance at all administrative levels.

The team observed that most recommendations from the 2010 AFP surveillance reviews had been implemented. The current AFP surveillance system is sensitive enough to detect most AFP cases and to ensure that cases are reported and investigated through the system. However the shortage of staff continues to be the most significant problem and will jeopardise the current system, unless it is addressed rapidly.

Overall, the review team believes that the existing AFP surveillance system is able to detect a poliomyelitis outbreak but may not be able to do so in a timely manner in all oblasts.

The assessment team provided recommendations to the Ministry of Health to further improve the surveillance quality.

Monthly Summary Table 1: Confirmed measles cases for last 12 months, April 2011 — March 2012 (data as of 1 May 2012)

Country	Total Population ¹	Incidence Rate per 1 million population Apr 11-Mar 12	Total Cases Apr 11-Mar 12	2011 (Year and month of Rash onset)												2012			Month of last report
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
Albania	3 214 691	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Mar		
Andorra	67 722	0.0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	Mar		
Armenia	3 098 784	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Mar		
Austria	8 405 570	9.8	82	9	18	33	16	4	2	0	0	0	0	0	0	0	Mar		
Azerbaijan	9 309 301	0.1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	Mar		
Belarus	9 568 453	6.1	58	0	16	29	4	0	0	0	0	1	5	0	3	0	Mar		
Belgium	10 741 129	38.9	418	103	123	91	45	10	10	3	13	1	12	7	0	0	Mar		
Bosnia and Herzegovina	3 755 478	1.3	5	0	0	0	0	0	4	1	0	0	-	-	-	-	No Report		
Bulgaria	7 449 799	3.5	26	6	18	1	0	0	1	0	0	0	0	0	0	0	Mar		
Croatia	4 397 338	1.1	5	0	0	3	2	0	0	0	0	0	0	0	0	0	Mar		
Cyprus	1 116 113	0.9	1	0	0	0	0	0	0	0	0	0	0	1	0	0	Mar		
Czech Republic	10 522 894	1.7	18	5	4	1	1	1	0	0	0	2	3	1	-	-	Feb		
Denmark	5 570 660	7.5	42	20	17	2	2	0	0	0	0	0	1	0	0	0	Mar		
Estonia	1 340 887	2.2	3	1	1	1	0	0	0	0	0	0	0	0	0	0	Mar		
Finland	5 381 049	5.4	29	2	12	3	0	6	0	1	3	0	0	2	0	0	Mar		
France	63 103 600	124.4	7853	3304	2267	927	408	148	90	81	122	144	106	123	133	0	Mar		
Georgia	4 330 693	14.5	63	3	11	6	7	17	6	7	1	1	1	0	3	0	Mar		
Germany	82 140 752	15.4	1264	430	433	168	112	37	27	11	22	5	12	7	0	0	Mar		
Greece	11 392 891	2.8	32	17	10	2	3	0	0	0	0	0	0	0	0	0	Mar		
Hungary	9 964 621	0.4	4	0	0	0	0	0	0	0	0	4	0	0	0	0	Mar		
Iceland	324 050	0.0	0	0	0	0	0	0	0	0	0	0	-	0	-	-	Feb		
Ireland	4 527 814	67.1	304	17	12	30	42	72	60	34	13	7	4	7	6	0	Mar		
Israel	7 545 524	10.6	80	0	3	2	0	0	21	10	4	2	3	14	21	0	Mar		
Italy	60 686 264	66.9	4058	920	1303	849	416	176	99	61	56	44	54	74	6	0	Feb		
Kazakhstan	16 240 343	1.2	20	0	0	0	0	-	-	-	-	-	1	11	8	0	Mar		
Kyrgyzstan	5 405 749	38.5	208	18	76	89	16	3	2	4	0	0	0	-	-	-	No Report		
Latvia	2 242 757	1.8	4	0	0	0	1	0	0	0	0	0	1	2	0	0	Mar		
Lithuania	3 311 227	2.1	7	1	2	4	0	0	0	0	0	0	0	0	0	0	Mar		
Luxembourg	514 108	11.7	6	0	2	2	0	1	0	0	0	0	0	0	1	0	Mar		
Malta	418 134	7.2	3	1	0	0	0	2	0	0	0	0	0	0	0	0	Mar		
Monaco	37 785	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report		
Montenegro	632 157	3.2	2	1	0	1	0	0	0	0	-	-	-	-	-	-	No Report		
Netherlands	16 647 522	2.0	33	16	11	5	0	1	0	0	0	0	0	0	-	-	Feb		
Norway	4 917 917	2.8	14	2	3	4	1	2	1	1	0	0	0	0	0	0	Mar		
Poland	38 307 380	1.0	37	8	5	4	6	4	4	1	0	0	1	3	1	0	Mar		
Portugal	10 679 646	0.2	2	0	0	0	0	0	0	0	0	1	1	0	0	0	Mar		
Republic of Moldova	3 555 765	0.0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	No Report		
Romania	21 445 408	227.3	4875	406	520	460	385	292	248	151	393	571	1256	108	85	0	Mar		
Russian Federation	142 822 544	13.4	1913	24	20	42	22	7	9	58	211	314	590	371	245	0	Mar		
San Marino	29 332	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report		
Serbia	9 842 939	13.9	137	63	37	25	6	4	2	0	0	0	0	0	-	-	Feb		
Slovakia	5 470 405	0.2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	Mar		
Slovenia	2 035 215	11.8	24	2	1	7	12	0	0	0	0	0	1	0	1	0	Mar		
Spain	46 366 600	62.7	2905	653	667	345	248	146	185	168	203	108	58	64	60	0	Mar		
Sweden	9 427 367	4.2	40	8	4	1	2	1	0	1	3	0	2	17	1	0	Mar		
Switzerland	7 694 595	57.1	439	206	123	57	28	10	2	3	1	4	2	3	0	0	Mar		
Tajikistan	6 982 372	0.6	4	0	0	0	0	0	0	0	0	0	0	0	4	0	Mar		
The former Yugoslav Republic of Macedonia	2 063 819	168.1	347	236	74	24	6	2	0	0	0	2	0	3	-	-	Feb		
Turkey	73 689 680	0.4	29	12	5	5	6	0	0	0	0	0	1	-	-	0	Jan		
Turkmenistan	5 099 686	0.0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	Feb		
Ukraine	45 242 024	170.5	7715	1	10	0	44	45	13	59	131	1009	2309	1999	2095	0	Mar		
United Kingdom	62 439 828	18.1	1132	173	186	133	105	60	54	73	63	29	39	113	104	0	Mar		
Uzbekistan	27 802 722	9.1	254	102	90	48	14	0	0	0	0	0	-	-	-	-	No Report		
Total/Averages	899 321 103	38.36	34497	6770	6085	3404	1960	1051	840	728	1239	2249	4463	2930	2778				

¹ Source: "World Population Prospects: The 2008 Revision", New York, United Nations and updates provided by Member States.

Monthly Summary Table 2. Classification of reported suspected measles cases, January—March 2012 (data as of 1 May 2012)

Country	Total Population ¹	Incidence Rate per 1 million population (Jan-Mar)	Total confirmed measles	Classification			Discarded	Importation ³	Reporting			Surveillance Indicators (Please click here to refer Annex 8 of MR Surveillance guideline)		
				Lab confirmed	Epi-Link	Clinical ²			Completeness	Timeliness	Month of last report	Laboratory investigation rate	detection rate	Source of infection
Albania	3 226 922	0.0	0	0	0	0	1	0	100%	100%	Mar	100.0%	0.03	100.0%
Andorra	67 726	0.0	0	0	0	0	0	0	100%	67%	Mar	-	0.00	-
Armenia	3 107 085	0.0	0	0	0	0	2	0	100%	100%	Mar	50.0%	0.06	100.0%
Austria	8 418 180	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Azerbaijan	9 417 527	-0.1	1	1	0	0	35	2	100%	100%	Mar	100.0%	0.37	100.0%
Belarus	9 536 760	0.6	8	8	0	0	0	2	100%	100%	Mar	100.0%	0.00	100.0%
Belgium	10 770 406	1.7	19	10	1	8	0	1	100%	100%	Mar	55.6%	NA	NA
Bosnia and Herzegovina*	3 747 213	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Bulgaria	7 401 269	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Croatia	4 388 603	0.0	0	0	0	0	0	0	33%	33%	Mar	-	0.00	-
Cyprus	1 128 260	0.9	1	1	0	0	0	0	100%	100%	Mar	100.0%	0.00	0.0%
Czech Republic	10 547 860	0.1	4	4	0	0	0	3	67%	67%	Feb	100.0%	0.00	75.0%
Denmark	5 589 464	0.0	1	1	0	0	0	1	100%	100%	Mar	100.0%	0.00	100.0%
Estonia	1 339 829	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Finland	5 397 248	0.4	2	1	0	1	0	0	100%	67%	Mar	50.0%	0.00	0.0%
France	63 417 636	5.5	362	141	43	178	0	11	100%	100%	Mar	59.2%	NA	NA
Georgia*	4 305 661	0.9	4	0	0	4	7	0	100%	100%	Mar	54.5%	0.16	100.0%
Germany	81 964 400	0.1	19	14	2	3	0	7	100%	100%	Mar	82.4%	0.00	100.0%
Greece	11 418 997	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Hungary	9 947 105	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Iceland	327 804	0.0	0	0	0	0	0	0	33%	33%	Feb	-	0.00	-
Ireland	4 579 823	3.7	17	3	1	13	0	0	100%	100%	Mar	56.3%	NA	NA
Israel*	7 672 910	5.0	38	1	0	37	0	0	100%	100%	Mar	2.6%	NA	NA
Italy	60 819 728	2.2	134	48	32	54	0	0	67%	67%	Feb	52.9%	NA	NA
Kazakhstan*	16 407 491	1.2	20	20	0	0	0	0	100%	100%	Mar	100.0%	NA	NA
Kyrgyzstan	5 463 941	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Latvia	2 233 986	0.9	3	3	0	0	0	1	100%	100%	Mar	100.0%	0.00	66.7%
Lithuania	3 296 148	0.0	0	0	0	0	0	0	67%	67%	Mar	-	0.00	-
Luxembourg	521 080	1.9	1	1	0	0	0	0	100%	100%	Mar	100.0%	NA	NA
Malta	419 402	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Monaco	38 222	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Montenegro*	632 737	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Netherlands	16 694 725	0.0	0	0	0	0	0	0	67%	67%	Feb	-	0.00	-
Norway	4 951 344	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Poland	38 315 208	0.1	5	1	0	4	0	0	100%	100%	Mar	40.0%	0.00	100.0%
Portugal	10 686 443	0.0	1	1	0	0	0	1	100%	100%	Mar	100.0%	0.00	100.0%
Republic of Moldova	3 532 010	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Romania	21 397 044	67.7	1449	737	696	16	0	0	100%	100%	Mar	97.9%	NA	NA
Russian Federation	142 668 224	8.3	1206	1151	48	7	7	17	100%	100%	Mar	100.0%	NA	NA
San Marino	29 486	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Serbia*	9 834 026	0.0	0	0	0	0	0	0	67%	33%	Feb	-	0.00	-
Slovakia	5 478 110	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Slovenia	2 039 627	0.0	2	2	0	0	0	2	100%	100%	Mar	100.0%	0.00	100.0%
Spain	46 657 472	3.8	182	154	20	8	0	6	100%	100%	Mar	95.1%	NA	NA
Sweden	9 477 964	1.7	20	8	12	0	0	4	67%	67%	Mar	100.0%	NA	NA
Switzerland	7 723 812	0.5	5	5	0	0	5	1	100%	67%	Mar	80.0%	0.06	30.0%
Tajikistan*	7 086 101	0.6	4	4	0	0	0	0	67%	67%	Mar	100.0%	0.00	0.0%
The former Yugoslav Republic of Macedonia*	2 066 356	1.5	3	1	0	2	0	0	67%	67%	Feb	33.3%	NA	NA
Turkey	74 546 664	0.0	1	1	0	0	0	0	33%	33%	Jan	0.0%	0.00	0.0%
Turkmenistan	5 164 039	0.0	0	0	0	0	0	0	67%	67%	Feb	-	0.00	-
Ukraine*	44 991 932	142.3	6403	506	0	5897	0	0	100%	33%	Mar	7.9%	NA	NA
United Kingdom	62 806 776	4.0	256	256	0	0	0	5	100%	100%	Mar	100.0%	NA	NA
Uzbekistan*	28 124 854	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Total/Averages	901 823 640	11.2	10171	3084	855	6232	57	64	77.4%	73.6%		34.3%	0.01	32.3%

Data source: Monthly aggregate and case-based data reported by Member States to WHO/Europe and ECDC/TESSy

¹ Source: "World Population Prospects: The 2008 Revision", New York, United Nations and updates provided by Member States.

² Cases with missing classification are classified as "Clinical".

³ Imported or import related measles cases included in total measles.

* Member States reporting aggregate measles data in year 2011

Indicators not meeting target and countries not reporting monthly measles data are highlighted in red; NA=Not Applicable; "-" = data not available or can not be calculated due to insufficient denominator.

Monthly Summary Table 3. Classification of reported suspected rubella cases, January—March 2012 (data as of 1 May 2012)

Country	Total Population ¹	Annualized Incidence Rate per 1 million population	Total confirmed Rubella	Classification				Importation ³	Reporting			Surveillance Indicators <small>(Please click here to refer Annex 8 of MR Surveillance guideline)</small>		
				Lab confirmed	Epi-Link	Clinical ²	Discarded		Completeness	Timeliness	Month of last report	Laboratory investigation rate	Detection rate	Source of infection
Albania	3 226 922	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Andorra	67 726	0.0	0	0	0	0	0	0	67%	33%	Feb	-	0.00	-
Armenia	3 107 085	1.3	4	0	0	4	4	0	100%	100%	Mar	50.0%	NA	NA
Austria	8 418 180	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Azerbaijan	9 417 527	0.1	1	1	0	0	7	0	100%	100%	Mar	100.0%	0.07	100.0%
Belarus	9 536 760	0.1	1	0	0	1	0	0	100%	100%	Mar	0.0%	0.00	0.0%
Belgium	10 770 406	0.0	0	0	0	0	0	0	33%	33%	Jan	-	0.00	-
Bosnia and Herzegovina	3 747 213	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Bulgaria	7 401 269	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Croatia	4 388 603	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Cyprus	1 128 260	0.0	0	0	0	0	0	0	100%	67%	Mar	-	0.00	-
Czech Republic	10 547 860	0.2	2	2	0	0	0	0	100%	100%	Mar	100.0%	0.00	0.0%
Denmark	5 589 464	0.0	0	0	0	0	0	0	67%	67%	Feb	-	0.00	-
Estonia	1 339 829	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Finland	5 397 248	0.0	0	0	0	0	0	0	100%	67%	Mar	-	0.00	-
France	63 417 636	0.0	0	0	0	0	0	0	50%	50%	Jan	-	0.00	-
Georgia	4 305 661	6.3	27	2	0	25	0	0	100%	100%	Mar	0.0%	NA	NA
Germany	81 964 400	0.0	0	0	0	0	0	0	33%	33%	Jan	-	0.00	-
Greece	11 418 997	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Hungary	9 947 105	0.1	2	1	0	1	0	1	100%	100%	Mar	100.0%	0.00	50.0%
Iceland	327 804	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Ireland	4 579 823	0.7	3	0	1	2	0	0	100%	100%	Mar	50.0%	0.00	0.0%
Israel	7 672 910	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Italy	60 819 728	0.0	0	0	0	0	0	0	33%	33%	Jan	-	0.00	-
Kazakhstan	16 407 491	0.2	4	2	2	0	0	0	67%	67%	Feb	0.0%	0.00	0.0%
Kyrgyzstan	5 463 941	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Latvia	2 233 986	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Lithuania	3 296 148	0.0	0	0	0	0	0	0	67%	67%	Mar	-	0.00	-
Luxembourg	521 080	1.9	1	1	0	0	0	0	67%	67%	Mar	100.0%	NA	NA
Malta	419 402	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Monaco	38 222	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Montenegro	632 737	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Netherlands	16 694 725	0.0	0	0	0	0	0	0	67%	67%	Feb	-	0.00	-
Norway	4 951 344	0.0	1	1	0	0	0	1	67%	67%	Mar	100.0%	0.00	100.0%
Poland	38 315 208	30.0	1148	0	0	1148	0	0	100%	100%	Mar	0.0%	NA	NA
Portugal	10 686 443	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Republic of Moldova	3 532 010	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Romania	21 397 044	495.5	10602	1488	9114	0	0	0	100%	100%	Mar	89.7%	NA	NA
Russian Federation	142 668 224	2.5	351	336	7	8	0	1	100%	100%	Mar	3.8%	NA	NA
San Marino	29 486	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Serbia	9 834 026	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Slovakia	5 478 110	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Slovenia	2 039 627	0.0	0	0	0	0	0	0	100%	100%	Mar	-	0.00	-
Spain	46 657 472	0.1	8	7	0	1	0	3	100%	100%	Mar	87.5%	0.00	87.5%
Sweden	9 477 964	0.0	0	0	0	0	0	0	33%	33%	Mar	-	0.00	-
Switzerland	7 723 812	-0.1	0	0	0	0	7	1	100%	100%	Mar	85.7%	0.09	28.6%
Tajikistan	7 086 101	0.0	0	0	0	0	0	0	67%	67%	Mar	-	0.00	-
The former Yugoslav Republic of Macedonia	2 066 356	0.5	1	0	0	1	0	0	67%	67%	Feb	0.0%	0.00	0.0%
Turkey	74 546 664	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Turkmenistan	5 164 039	0.0	0	0	0	0	0	0	100%	33%	Mar	-	0.00	-
Ukraine	44 991 932	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
United Kingdom	62 806 776	0.5	33	33	0	0	0	0	100%	100%	Mar	100.0%	0.00	66.7%
Uzbekistan	28 124 854	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Total/Averages	901 823 640	13.5	12189	1874	9124	1191	18	7	65.4%	62.3%		45.8%	0.00	87.3%

Data source : Monthly aggregate and case-based data reported by Member States to WHO/Europe and ECDC/TESSy

¹ Source: "World Population Prospects: The 2008 Revision", New York, United Nations and updates provided by Member States.

² Cases with missing classification are classified as "Clinical".

³ Imported or import related rubella cases included in total rubella.

Indicators not meeting target and countries not reporting monthly rubella data are highlighted in red. "-" indicates data not available/applicable or can not be calculated due to insufficient denominator.

Monthly Summary Table 4. Measles and rubella laboratory test results, January – March 2012 (data as of 1 May 2012)

Country	Specimen* (Serum, Oral Fluid, Swab, Urine and other)								Reporting		
	Tested for measles	Positive for measles (%)	Measles Equivocal	Negative for measles	Tested for rubella	Positive for rubella (%)	Rubella Equivocal	Negative for rubella	% Completeness	% Timeliness	Month of last report
Albania	2	0 (0.0)	0	2	0	0	0	0	100.0%	66.7%	Mar
Andorra											No Lab
Armenia	6	0 (0.0)	0	6	6	0 (0.0)	0	6	100.0%	100.0%	Mar
Austria	313	6 (2.0)	0	307	1347	3 (0.0)	0	1344	100.0%	100.0%	Mar
Azerbaijan	15	0 (0.0)	0	15	15	1 (7.0)	0	14	33.3%	33.3%	Jan
Belarus	124	15 (12.0)	0	109	113	1 (1.0)	0	112	100.0%	100.0%	Mar
Belgium	59	12 (20.0)	3	42	22	3 (14.0)	4	15	100.0%	100.0%	Mar
Bosnia and Herzegovina											No Report
Bulgaria	22	1 (5.0)	0	21	24	1 (4.0)	0	23	100.0%	66.7%	Mar
Croatia	0	0	0	0	0	0	0	0	100.0%	100.0%	Mar
Cyprus	1	1 (100.0)	0	0	0	0	0	0	66.7%	66.7%	Feb
Czech Republic	21	6 (29.0)	0	15	7	0 (0.0)	0	7	100.0%	100.0%	Mar
Denmark	177	7 (4.0)	5	165	135	7 (5.0)	8	120	100.0%	33.3%	Mar
Estonia	16	1 (6.0)	0	15	119	2 (2.0)	0	117	100.0%	100.0%	Mar
Finland	201	6 (3.0)	0	195	181	2 (1.0)	0	179	100.0%	100.0%	Mar
France	286	80 (28.0)	3	199	0	0	0	0	100.0%	66.7%	Mar
Georgia	38	0 (0.0)	1	37	39	2 (5.0)	4	33	100.0%	33.3%	Mar
Germany	69	3 (4.0)	1	65	17	0 (0.0)	0	17	100.0%	100.0%	Mar
Greece	1	0 (0.0)	0	1	32	6 (19.0)	0	26	66.7%	33.3%	Feb
Hungary	16	3 (19.0)	0	13	113	2 (2.0)	0	110	100.0%	100.0%	Mar
Iceland	11	0 (0.0)	0	11	13	2 (15.0)	0	11	66.7%	33.3%	Feb
Ireland	118	5 (4.0)	7	106	434	1 (0.0)	1	432	100.0%	66.7%	Mar
Israel	80	5 (6.0)	0	75	253	25 (10.0)	0	228	100.0%	100.0%	Mar
Italy											No Report
Kazakhstan	54	20 (37.0)	0	34	106	4 (4.0)	1	101	100.0%	100.0%	Mar
Kyrgyzstan	76	0 (0.0)	0	76	76	2 (3.0)	1	73	100.0%	100.0%	Mar
Latvia	98	10 (10.0)	0	88	96	0 (0.0)	2	94	66.7%	33.3%	Feb
Lithuania	3	0 (0.0)	3	0	2	0 (0.0)	0	2	100.0%	100.0%	Mar
Luxembourg	32	0 (0.0)	0	32	12	0 (0.0)	1	11	100.0%	100.0%	Mar
Malta	7	0 (0.0)	0	7	286	3 (1.0)	0	283	100.0%	66.7%	Mar
Monaco											No Lab
Montenegro											No Lab
Netherlands	23	0 (0.0)	0	23	21	0 (0.0)	0	21	100.0%	33.3%	Mar
Norway	19	1 (5.0)	0	18	12	1 (8.0)	0	11	100.0%	100.0%	Mar
Poland	42	1 (2.0)	2	39	14	1 (7.0)	0	13	100.0%	100.0%	Mar
Portugal	8	3 (38.0)	0	5	0	0	0	0	100.0%	100.0%	Mar
Republic of Moldova	25	10 (40.0)	0	15	25	2 (8.0)	0	23	100.0%	100.0%	Mar
Romania	2757	1258 (46.0)	28	1471	6227	4093 (66.0)	122	2012	100.0%	100.0%	Mar
Russian Federation	3241	1337 (41.0)	1	1903	2008	316 (16.0)	3	1689	100.0%	100.0%	Mar
San Marino											No Lab
Serbia	5	0 (0.0)	0	5	18	0 (0.0)	0	18	100.0%	66.7%	Mar
Slovakia	5	1 (20.0)	0	4	2	0 (0.0)	0	2	100.0%	66.7%	Mar
Slovenia	16	6 (38.0)	1	9	10	0 (0.0)	0	10	100.0%	100.0%	Mar
Spain											No Report
Sweden											No Report
Switzerland	9	7 (78.0)	0	2	6	6 (100.0)	0	0	100.0%	100.0%	Mar
Tajikistan											Mar
The former Yugoslav Republic of Macedonia	0	0	0	0	1	0 (0.0)	0	1	33.3%	0.0%	Jan
Turkey	657	4 (1.0)	4	649	657	21 (3.0)	16	620	100.0%	100.0%	Mar
Turkmenistan	8	0 (0.0)	0	8	8	0 (0.0)	0	8	66.7%	66.7%	Feb
Ukraine	408	242 (59.0)	8	158	240	62 (26.0)	0	178	100.0%	100.0%	Mar
United Kingdom	1691	301 (18.0)	0	1390	359	25 (7.0)	0	334	100.0%	100.0%	Mar
Uzbekistan	7	0 (0.0)	0	7	7	0 (0.0)	0	7	100.0%	100.0%	Mar
Total / Average	10767	3354 (31%)	67	7342	13063	4594 (35%)	163	8305	91.3%	77.5%	

*Specimen based data are not population based, and should not be interpreted as indicators for epidemiological surveillance. Laboratories may have received more than 1 clinical sample or may have conducted more than 1 test for a given case reported in Table 1.

Data source: Aggregated monthly data provided by regional measles and rubella laboratory network.

Table 5: Classification of AFP cases, surveillance performance and weekly reporting to WHO EURO by country, 2011-2012, WHO European Region

Countries	2011 (1-53 weeks)											2012 (1-17 weeks)													
	AFP Cases ¹	AFP cases under 15 year of age	Hot AFP Cases ²	Classification					Rates			AFP Cases ¹	AFP cases under 15 years of age	Hot AFP Cases ²	Classification					Rates			Reporting		
				Polio Compatible	Pending	Discarded	Wild Polio cases	VDPV/VAPP	Non polio AFP rate ³	Adequate Stool collection	Surv. Index ⁵				Polio Compatible	Pending	Discarded	Wild Polio cases	VDPV/VAPP	Non polio AFP rate ³	Adequate Stool collection	Surv. Index ⁵	% Completeness	% Timeliness	Week of last report
Albania	4	4	0	0	0	4	0	0	0.56	100.0	0.56	4	4	0	0	4	0	0	0.00	100.0	0.0	83.0	76.0	16	
Andorra	0	0	0	0	0	0	0	0	0.00	0.0	0.00	0	0	0	0	0	0	0	0.00	0.0	0.0	50.0	11.0	9	
Armenia	21	21	1	0	0	21	0	0	3.37	90.5	0.90	11	11	1	0	7	4	0	1.94	100.0	1.0	88.0	94.0	16	
Austria*	2	2	0	0	0	2	0	0	0.16	0.0	0.08	1	1	0	0	1	0	0	0.00	0.0	0.0	77.0	47.0	14	
Azerbaijan*	37	37	0	0	0	37	0	0	1.88	97.3	1.00	11	11	0	0	11	0	0	0.00	90.9	0.0	94.0	100.0	17	
Belarus	46	46	3	0	0	46	0	0	3.18	78.3	0.85	18	18	2	0	18	0	0	0.00	88.9	0.0	27.0	29.0	16	
Belgium	3	3	0	0	0	3	0	0	0.17	0.0	0.00	2	2	0	0	0	2	0	0.34	0.0	0.0	83.0	29.0	16	
Bosnia and Herzegovina*	7	7	1	0	6	1	0	0	0.18	42.9	0.13	0	0	0	0	0	0	0	0.00	0.0	0.0	61.0	29.0	14	
Bulgaria	13	13	0	0	11	2	0	0	0.19	92.3	0.19	4	4	0	0	4	0	0	0.00	100.0	0.0	88.0	94.0	17	
Croatia	0	0	0	0	0	0	0	0	0.00	0.0	0.00	0	0	0	0	0	0	0	0.00	0.0	0.0	72.0	29.0	13	
Cyprus	4	4	0	0	0	4	0	0	2.05	100.0	1.00	2	2	0	0	0	2	0	3.15	100.0	1.0	72.0	76.0	16	
Czech Republic	8	8	0	0	0	8	0	0	0.54	75.0	0.47	0	0	0	0	0	0	0	0.00	0.0	0.0	83.0	82.0	16	
Estonia	0	0	0	0	0	0	0	0	0.00	0.0	0.00	0	0	0	0	0	0	0	0.00	0.0	0.0	83.0	88.0	16	
Georgia*	10	10	1	0	0	9	0	1	1.26	100.0	1.00	8	8	1	0	4	4	0	1.72	100.0	1.0	94.0	100.0	17	
Greece*	24	24	2	0	0	24	0	0	1.43	79.2	0.92	6	6	0	0	6	0	0	0.00	100.0	0.0	88.0	94.0	16	
Hungary	7	7	0	0	0	7	0	0	0.48	28.6	0.21	6	6	0	0	4	2	0	0.42	50.0	0.2	88.0	64.0	16	
Ireland	7	7	0	0	0	7	0	0	0.72	14.3	0.31	0	0	0	0	0	0	0	0.00	0.0	0.0	38.0	17.0	7	
Israel	19	18	0	0	0	19	0	0	0.92	22.2	0.41	2	2	0	0	0	2	0	0.29	0.0	0.1	77.0	76.0	17	
Italy	64	63	1	0	0	64	0	0	0.75	65.1	0.51	17	17	0	0	7	10	0	0.36	58.8	0.2	38.0	17.0	15	
Kazakhstan	101	101	1	0	18	83	0	0	2.05	97.0	0.98	23	23	0	0	12	11	0	0.81	100.0	0.8	83.0	76.0	16	
Kyrgyzstan*	68	65	2	0	0	68	0	0	4.19	100.0	1.00	17	17	0	0	11	6	0	1.12	100.0	1.0	50.0	52.0	17	
Latvia	1	1	0	0	0	1	0	0	0.32	100.0	0.32	2	2	0	0	0	2	0	1.92	100.0	1.0	72.0	58.0	15	
Lithuania	10	10	0	0	0	10	0	0	2.04	100.0	1.00	0	0	0	0	0	0	0	0.00	0.0	0.0	94.0	100.0	17	
Malta	0	0	0	0	0	0	0	0	0.00	0.0	0.00	0	0	0	0	0	0	0	0.00	0.0	0.0	66.0	5.0	13	
Montenegro*	3	3	0	0	0	3	0	0	2.49	66.7	1.00	1	1	0	0	1	0	0	0.00	0.0	0.0	77.0	82.0	16	
Norway	11	11	0	0	1	10	0	0	1.09	27.3	0.64	2	2	0	0	2	0	0	0.00	0.0	0.0	66.0	17.0	16	
Poland	36	36	2	0	0	36	0	0	0.64	80.6	0.57	11	11	0	0	5	6	0	0.32	36.4	0.1	83.0	64.0	16	
Portugal	10	9	1	0	0	10	0	0	0.63	44.4	0.56	0	0	0	0	0	0	0	0.00	0.0	0.0	33.0	5.0	6	
Republic of Moldova	8	8	0	0	0	8	0	0	1.35	100.0	1.00	0	0	0	0	0	0	0	0.00	0.0	0.0	83.0	82.0	16	
Romania	18	18	0	0	0	18	0	0	0.55	100.0	0.55	6	6	0	0	4	2	0	0.19	100.0	0.2	88.0	82.0	17	
Russian Federation*	360	358	33	0	0	360	0	0	1.65	92.7	0.95	124	123	17	0	90	34	0	0.47	91.1	0.4	88.0	94.0	16	
Serbia	10	10	1	0	1	9	0	0	0.52	90.0	0.52	7	7	0	0	6	1	0	0.18	57.1	0.1	83.0	88.0	16	
Slovakia	2	2	0	0	0	2	0	0	0.24	100.0	0.24	1	1	0	0	1	0	0	0.00	100.0	0.0	72.0	47.0	16	
Slovenia	0	0	0	0	0	0	0	0	0.00	0.0	0.00	0	0	0	0	0	0	0	0.00	0.0	0.0	83.0	70.0	16	
Spain	35	35	0	0	1	34	0	0	0.49	37.1	0.29	7	7	0	0	7	0	0	0.00	42.9	0.0	88.0	47.0	16	
Switzerland	6	3	0	0	0	6	0	0	0.52	66.7	0.34	1	1	0	0	0	1	0	0.26	0.0	0.3	66.0	17.0	16	
Tajikistan*	55	52	0	0	0	55	0	0	2.16	96.2	0.96	20	20	0	0	5	15	0	1.79	100.0	1.8	55.0	52.0	16	
The former Yugoslav Republic of Macedonia	2	2	1	0	0	2	0	0	0.56	100.0	0.56	1	1	0	0	1	0	0	0.00	100.0	0.0	83.0	64.0	16	
Turkey	197	196	3	0	0	240	0	1	0.96	80.6	0.84	43	43	1	0	10	33	0	0.53	81.4	0.5	61.0	64.0	17	
Turkmenistan	33	33	0	0	0	33	0	0	2.25	100.0	1.00	7	7	0	0	3	4	0	0.83	100.0	0.8	38.0	41.0	16	
Ukraine*	127	127	31	0	0	125	0	2	1.92	97.6	1.00	36	34	8	0	27	9	0	0.42	94.1	0.4	83.0	88.0	17	
Uzbekistan*	200	197	4	0	0	200	0	0	2.49	96.4	0.96	40	37	0	0	24	16	0	0.61	100.0	0.6	72.0	76.0	17	
Average/Total	1569	1551	88	0	38	1571	0	4	1.63	86.00	0.89	441	435	30	0	275	166	0	1.18	87.00	0.9	76.0	57.0		

* AFP case of all ages (Denmark, Finland, France, Iceland, Luxembourg, Monaco, Netherlands, San Marino, Sweden and United Kingdom do not report AFP cases. High quality surveillance (e.g. enterovirus and/or environmental) to detect poliovirus exists in Member States with no AFP surveillance.

² Hot cases = AFP case reported with a priority code (e.g. less than three doses of polio vaccine/Clinically polio/Recent travel to endemic country/high risk group).

³ Non-polio AFP cases per 100 000 children under the age of 15 years (annualized for current year). Number of non-polio (discarded) AFP cases X 100000 / total population under 15 years.

⁴ two stool specimens collected 24-48 hours apart within 14 days of the onset of paralysis

⁵ Surveillance Index = non-polio AFP rate up to 1.0 x (% AFP cases with at least 1 adequate specimens within 14 days of onset).

*Countries with a high risk for polio spread after importation, following the 25th RCC risk assessment, August 2011. Nonpolio AFP Rate and Surveillance Index targets for these member states have been revised to 2.0 and 1.6 respectively.