

WHO Epidemiological Brief

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

The following epidemiological report provides an overview of selected epidemiological characteristics of measles and rubella in the WHO European Region for the first eight months of 2012. The analysis is based on cases with disease onset dates during this period. The report also provides information on acute flaccid paralysis (AFP) surveillance.

Measles in 2012 (January-August)

Incidence - notifications and laboratory data

For the first eight months of 2012 there were 19,078 measles cases among the 51 (96%) Member States (MS) that submitted reports during this period. Of the total, 86% of cases (n=16,393) were reported from four countries: Ukraine (n=11,298; 59%), Romania (n=1,997; 10%), the Russian Federation (n=1,834; 10%) and the UK (n=1,264; 7%). 7,174 (38%) cases were laboratory-confirmed and 1,475 (8%) were epidemiologically linked. The highest incidence per million population for this period was reported in Ukraine (251.1) followed by Romania (93.3). During the first eight months of 2012, a total of 1,013 sequences were submitted to MeaNS by MS. The genotypes identified in the Region included D4 (n=437), B3 (n=470), D8 (n=94), D9 (n=9) and H1 (n=3). Nine countries reported zero cases for the whole period - Albania, Andorra, Armenia, Hungary, Iceland, Malta, Montenegro, Serbia and Turkmenistan.

Age distribution

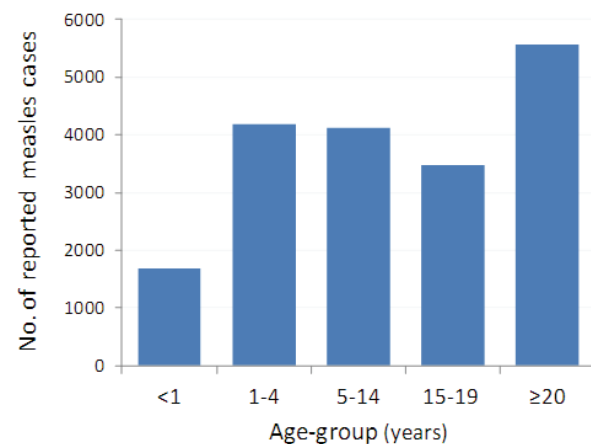
The age-group was known in 99.8% (n=19,042) of cases. Overall, 9% were aged <1 year, 22% were aged 1-4, 40% were aged 5-19 years and 29% were ≥20 years. Figure 1 shows the age distribution of reported measles cases during the first eight months of 2012.

Vaccination status

The vaccination status was known in 16,204 cases (85%). Of these, 8,022 (50%) were unvaccinated and 8,022 (50%) were vaccinated with at least one

measles vaccine dose. Most of the vaccinated cases (84%) were reported from Ukraine (n=6,760).

Figure 1. Age-distribution of reported measles cases in the WHO European Region, January - August 2012 (n=19,042)



N.B. Discarded cases are not included

Hospitalisation and mortality

Data on hospitalisation status was available for 76% (n=14,515) of all reported measles cases. There were 12,010 reported hospitalised cases in connection with measles, amounting to 83% of all cases with known hospitalisation status. During this period no measles-related deaths were reported.

Imported cases

The importation status was known in 26% of cases. Of these, 224 were reported as imported cases, amounting to 4% of all cases with a known importation status. The remaining cases were believed to have been infected within their own country.

¹Where these dates were unavailable, cases with the date of notification reported during these periods were included.

Measles in August 2012 (Monthly report)

Incidence - notifications

During August 2012, 46 MS reported 516 measles cases. Of these, 89% (n=461) were reported from four countries: Ukraine (n=212; 41%), Romania (n=77; 15%), the UK (n=139; 27%), Romania (n=77; 15%) and France (n=33; 6%) For August, no reports were submitted from seven countries: Austria, Bosnia and Herzegovina, Croatia, Kyrgyzstan, San Marino, Tajikistan and Uzbekistan.

Rubella in 2012 (January-August)

Incidence - notifications and laboratory data

For the first eight months of 2012 there were 27,545 rubella cases among 44 MS that reported during this period. Of the total, 99% of cases (n=27,217) were reported from four countries: Romania (n=20,757; 75%), Poland (n=4,593; 17%), Ukraine (n=942; 3%) and the Russian Federation (n=925; 3%). 6,708 (24%) cases were laboratory-confirmed and 15,188 (55%) epidemiologically linked. The highest incidence per million population for this period was reported in Romania (970.1) followed by Poland (119.9). Rubella virus genotypes 1G and 2B were detected.

Fourteen countries reported zero cases for the whole period - Albania, Andorra, Cyprus, Denmark, Estonia, Finland, Greece, Iceland, Lithuania, Malta, Montenegro, Portugal, Slovenia and Turkmenistan.

Age distribution

The age-group was known in 96% (n=26,548) of cases. Overall, 1% were aged <1 year, 3% were aged 1-4, 74% were aged 5-19 years and 21% were ≥20 years. Figure 2 shows the age distribution of reported rubella cases during this period.

Vaccination status

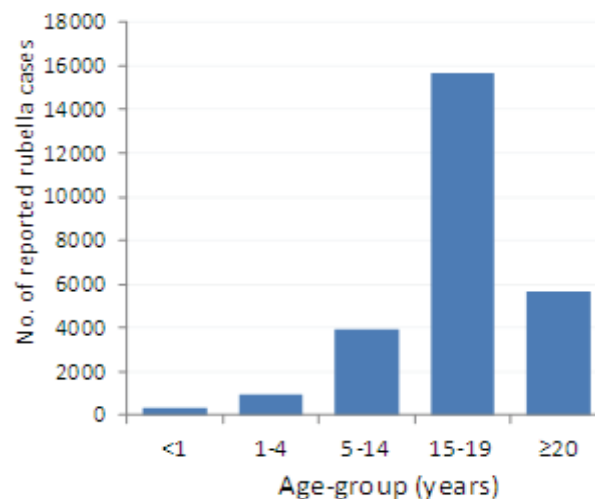
The vaccination status was known in 21,640 cases (79%). Of these, 21,039 (97%) were unvaccinated and 601 (3%) were vaccinated with at least one rubella vaccine dose.

Imported cases

The importation status was known in 76% of rubella cases. Of these, 30 were reported as imported cases amounting to 0.1% of all cases with a known importation status. The remaining cases were

believed to have been infected within their own country.

Figure 2. Age-distribution of reported rubella cases in the WHO European Region (n=26,548)



N.B. Discarded cases are not included

Rubella in August 2012 (Monthly report)

Incidence - notifications

During August 2012 there were 268 rubella cases with reports from the 36 MS. Of these, 92% of cases (n=246) were reported from two countries: Poland (n=211, 86%) and the Russian Federation (n=35, 11%). For August, no reports were submitted from 17 countries: Armenia, Austria, Belgium, Bosnia and Herzegovina, Croatia, Denmark, France, Germany, Italy, Kyrgyzstan, Republic of Moldova, San Marino, Serbia, Tajikistan, Turkey, Ukraine and Uzbekistan.

Acute flaccid paralysis surveillance

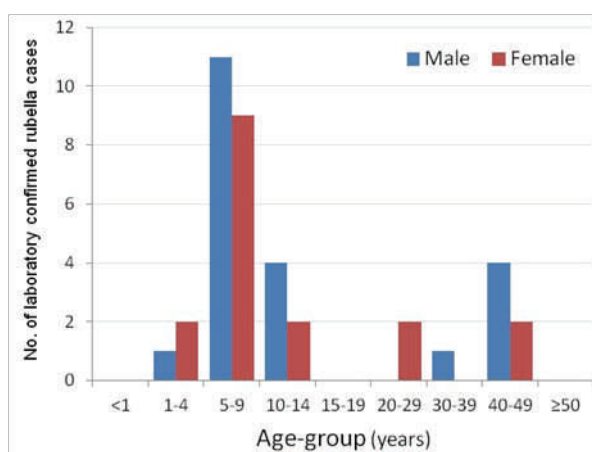
Among the 42 MS with AFP surveillance there were 1,168 AFP cases reported for the first eight months of 2012 (weeks 1-38). These included 1,152 cases under 15 years of age with most cases (65%; n=752) reported from five countries: Russian Federation (26%; n=295), Uzbekistan (15%; n=172), Turkey (12%; n=135), Ukraine (7%; n=85) and Kazakhstan (6%; n=65). No polio compatible cases have been reported in four countries, namely Andorra, Ireland, Malta and Slovenia, reported zero cases of AFP.

Country focus

Rubella in Sweden

An outbreak of rubella involving 50 cases was reported in Sweden between April and August in the region of Järna. The index case had a history of travel to the Czech Republic. Of the total, 29 cases occurred among males and 21 cases among females. Thirty-eight cases (76%) were laboratory confirmed (Figure 3). Only two cases had previously been vaccinated, the remaining cases were unvaccinated. Most cases (58%) were aged 5-9 years. Nine cases were aged 20-49 years (18%); these included four females. All the cases live in an area close to or are part of an anthroposophic community. Information about the outbreak and control measures was provided to healthcare workers, parents at school and kindergarten and at the maternity care centre. The outbreak attracted the attention of the local and national media. The Swedish Institute for Communicable Disease Control also provided updated information on the outbreak on its website. The local public health authorities offered the combined measles, mumps and rubella vaccine free of charge, to unimmunised persons in the community.

Figure 3. Laboratory confirmed cases of rubella in Sweden, April-August 2012 (n=38)



Comments

Measles and Rubella

The number of reported measles cases in the Region decreased by 42% compared with the same period in 2011 (n=32,909). This was primarily due to the 95% decrease in the number of cases reported from France. However, measles outbreaks emerged in other countries, such as Ukraine and the Russian Federation. In addition to the 1,834 cases reported in case-base format, the Russian Federation has reported 261 further cases in aggregated format. These will be converted into case-based format and entered in the WHO measles database by the end of this year. Of note, several countries reported zero cases during the same period.

The measles-related deaths among two infants described in the last Epidemiological Brief (No. 26) were deleted from the WHO Computerized Information System for Infectious Diseases (CISID) database as these had been notified in error.

Outbreaks of rubella were reported in several countries during this period. Overall, the number of reported rubella cases in the Region increased by almost 600% compared with the same period in 2011 (n=4,100). Romania has particularly experienced an increase to 20,757 cases from 102 cases for the same period in 2011. However, unless there are delays in reporting, the outbreak seems to be abating. Other countries have reported an increased number of rubella cases include Poland, Ukraine, the Russian Federation, the UK, Spain and Sweden.

The sharp increase in the number of rubella cases and the emergence of measles outbreaks in some MS, remains of great concern in relation to the 2015 elimination goal. The commitment to eliminate measles and rubella in WHO European Region needs to be strengthened by increasing vaccination coverage with two doses of measles vaccines to a WHO-recommended minimum of 95%. An increased level of suspicion in cases with rash, particularly in those >15 years old and in travellers returning from endemic countries, is important.

Additionally, enhanced surveillance at laboratory level is required for early identification and confirmation of cases. When measles and rubella outbreaks occur it is recommended that specimens from 5-10 cases are submitted for laboratory confirmation and identification of the virus genotype. Currently, only very little genotype information is available on the circulating rubella strains. Laboratories are therefore strongly encouraged to enhance their virological investigation of rubella cases and outbreaks. Laboratory investigations including molecular characterization of measles and rubella viruses help to better define outbreaks and identify imported viruses, thereby demonstrating the absence or presence of endemic measles and rubella.

Acute Flaccid Paralysis surveillance

Following the polio outbreak in the Region in 2010, the European Regional Commission for the Certification of Poliomyelitis Eradication (RCC) had stressed the importance of high quality poliovirus surveillance in all MS. Based on the performance of immunization programme and surveillance systems in 2011, the following MS are considered at high risk of transmission in case of importation of poliovirus and vaccine-derived poliovirus: Bosnia and Herzegovina, Greece, Romania, south-eastern Turkey, Georgia, Ukraine, North Caucasus of the Russian Federation, and Uzbekistan. These countries are also required to either increase the effectiveness of AFP surveillance (aiming at non-polio AFP threshold rate of ≥ 2 per 100,000 of children under 15 years of age) or to develop and implement alternative surveillance methods capable of providing convincing evidence that wild- or vaccine-derived polioviruses are not circulating in the country. As of week 38, none of the above mentioned countries reached the required threshold; although Georgia and Uzbekistan are within its reach (annualized rates are 1.87 and 1.97, respectively). It is of concern that Greece has not classified any of the 14 detected AFP cases, thereby setting the country's non-polio AFP rate at zero.

Twenty-three MS reported annualized non-polio AFP rates of < 1 per 100,000 of children under 15 years of age causing the Regional average non-polio AFP rate of 0.89 per 100,000 of children under 15 years of age to be below certification standard (≥ 1 per 100,000 of

children under 15 years of age). It is important that the sensitivity of AFP surveillance is at a sufficiently high level so that an importation of polioviruses could be promptly detected.

Rubella in Sweden

The outbreak of rubella in Sweden did not spread beyond an anthroposophic community. This illustrates the existence of communities whose vulnerability to acquire rubella is brought to light when the rubella virus is introduced into such communities.

Although vaccination coverage may be sufficiently high at national level there is still the need for more efforts to assess immunity gaps in the population and target vulnerable groups for vaccination.

If the goal of eliminating rubella and preventing CRS is to be achieved and maintained countries need to adopt a comprehensive approach to ensure high vaccination coverage and protect women of childbearing age against rubella.

Monthly summary table 1: Reported measles cases for last 12 months, September 2011 — August 2012 (data as of 1 October 2012)

Country	Total Population ¹	Incidence Rate per 1 million population Sep 11-Aug 12	Total measles cases Sep 11-Aug 12	2011 -2012 (Year and month of Rash onset)												Month of last report 2012
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Albania	3 214 691	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Andorra	67 722	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Armenia	3 098 784	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Austria	8 405 570	4.2	35	4	1	12	6	3	1	0	2	2	4	0	-	Jul
Azerbaijan	9 309 301	0.2	2	0	0	0	0	0	0	1	1	0	0	0	0	Aug
Belarus	9 568 453	1.1	11	0	0	0	1	5	0	3	0	0	1	1	0	Aug
Belgium	10 741 129	14.8	159	21	6	25	3	20	15	4	33	4	14	14	0	Aug
Bosnia and Herzegovina	3 755 478	1.3	5	4	1	0	0	-	-	-	-	-	-	-	-	No Report
Bulgaria	7 449 799	0.4	3	1	0	1	0	0	0	0	0	0	0	1	0	Aug
Croatia	4 397 338	0.2	1	0	0	0	0	0	0	0	1	0	0	0	-	Jul
Cyprus	1 116 113	0.9	1	0	0	0	0	0	1	0	0	0	0	0	0	Aug
Czech Republic	10 522 894	2.2	23	0	0	0	2	4	2	0	7	2	3	1	2	Aug
Denmark	5 570 660	0.4	2	0	0	0	0	1	0	0	0	1	0	0	0	Aug
Estonia	1 340 887	5.2	7	0	0	0	0	0	0	0	4	3	0	0	0	Aug
Finland	5 381 049	1.7	9	0	1	3	0	0	2	0	3	0	0	0	0	Aug
France	63 103 600	19.5	1231	90	81	122	144	107	127	142	112	104	92	77	33	Aug
Georgia	4 330 693	8.3	36	6	7	1	1	1	0	3	2	6	1	6	2	Aug
Germany	82 140 752	2.6	217	27	11	22	5	13	10	11	22	51	22	13	10	Aug
Greece	11 392 891	0.2	2	0	0	0	0	0	0	0	0	1	1	0	0	Aug
Hungary	9 964 621	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Iceland	324 050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Ireland	4 527 814	29.6	134	20	12	7	5	2	2	4	10	50	11	2	9	Aug
Israel	7 545 524	24.4	184	21	10	4	2	3	14	21	5	26	52	25	1	Aug
Italy	60 686 264	14.1	855	99	61	56	44	66	128	95	105	106	58	30	7	Aug
Kazakhstan	16 240 343	3.3	54	0	0	0	0	1	11	8	20	12	1	1	0	Aug
Kyrgyzstan	5 405 749	1.1	6	2	4	0	0	0	0	0	0	-	-	-	-	Apr
Latvia	2 242 757	1.3	3	0	0	0	0	1	2	0	0	0	0	0	0	Aug
Lithuania	3 311 227	0.6	2	0	0	0	0	0	0	0	2	0	0	0	0	Aug
Luxembourg	514 108	3.9	2	0	0	0	0	0	0	1	0	0	1	0	0	Aug
Malta	418 134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Monaco	37 785	-	-	-	-	-	-	1	0	0	0	0	0	0	0	Aug
Montenegro	632 157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Netherlands	16 647 522	0.6	10	0	0	0	0	0	0	1	4	1	1	2	1	Aug
Norway	4 917 917	1.0	5	1	1	0	0	0	0	1	0	0	0	0	2	Aug
Poland	38 307 380	2.1	82	4	1	0	0	2	4	10	26	21	6	8	0	Aug
Portugal	10 679 646	0.9	10	0	0	0	1	1	0	0	1	4	1	1	1	Aug
Republic of Moldova	3 555 765	3.1	11	0	0	0	0	7	3	0	1	0	0	-	0	Aug
Romania	21 445 408	156.7	3360	248	151	393	571	729	108	85	317	186	338	157	77	Aug
Russian Federation	142 822 544	17.0	2428	9	58	211	316	609	386	356	279	130	43	23	8	Aug
San Marino	29 332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Serbia	9 842 939	0.2	2	2	0	0	0	0	0	0	0	0	0	0	0	Aug
Slovakia	5 470 405	0.4	2	0	0	0	0	0	0	0	0	0	0	2	0	Aug
Slovenia	2 035 215	1.0	2	0	0	0	0	1	0	1	0	0	0	0	0	Aug
Spain	46 366 600	23.2	1077	185	168	203	108	60	69	88	64	56	53	20	3	Aug
Sweden	9 427 367	3.3	31	0	1	3	0	2	17	1	4	1	1	0	1	Aug
Switzerland	7 694 595	8.1	62	1	2	0	3	2	3	5	11	22	6	3	4	Aug
Tajikistan	6 982 372	1.0	7	0	0	0	0	0	0	4	0	0	3	-	-	Jun
The former Yugoslav Republic of Macedonia	2 063 819	3.4	7	0	0	0	2	0	3	1	0	1	0	0	0	Aug
Turkey	73 689 680	0.5	34	0	0	0	0	2	0	0	0	0	7	21	4	Aug
Turkmenistan	5 099 686	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Ukraine	45 242 024	276.5	12510	13	59	131	1009	2309	1999	2095	1797	1695	1191	-	212	Aug
United Kingdom	62 439 828	23.8	1483	54	73	63	29	39	111	148	190	290	194	153	139	Aug
Uzbekistan	27 802 722	0	0	0	0	0	0	0	0	0	0	0	0	-	-	Jun
Total/Averages	899 321 103	26.81	24107	812	709	1257	2252	3991	3018	3089	3023	2775	2105	561	516	

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

Monthly summary table 2: Reported rubella cases for last 12 months, September 2011 — August 2012 (data as of 1 October 2012)

Country	Total Population ¹	Incidence Rate per 1 million population Sep 11-Aug 12	Total Rubella cases Aug 11-Sep 12	2011 -2012 (Year and month of Rash onset)												Month of last report 2012
				Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Albania	3 214 691	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Andorra	67 722	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Armenia	3 098 784	0.3	1	0	0	0	0	0	0	0	0	0	1	-	-	Jun
Austria	8 405 570	1.0	8	0	1	1	0	2	1	0	1	2	0	0	-	Jul
Azerbaijan	9 309 301	0.1	1	0	0	0	0	1	0	0	0	0	0	0	0	Aug
Belarus	9 568 453	1.0	10	0	0	0	0	0	0	1	1	1	5	0	2	Aug
Belgium	10 741 129	0	0	0	0	0	0	-	-	-	-	-	-	-	-	No Report
Bosnia and Herzegovina	3 755 478	6.1	23	8	15	0	0	-	-	-	-	-	-	-	-	No Report
Bulgaria	7 449 799	2.3	17	2	0	1	1	1	2	4	1	2	2	1	0	Aug
Croatia	4 397 338	0	0	0	0	0	0	0	0	0	0	0	0	0	-	Jul
Cyprus	1 116 113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Czech Republic	10 522 894	0.8	8	0	1	2	0	0	1	1	1	1	0	0	1	Aug
Denmark	5 570 660	0	0	0	0	0	0	-	-	-	-	-	-	-	-	No Report
Estonia	1 340 887	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Finland	5 381 049	0.2	1	0	1	0	0	0	0	0	0	0	0	0	0	Aug
France	63 103 600	0	0	0	0	0	0	-	-	-	-	-	-	-	-	No Report
Georgia	4 330 693	17.3	75	1	6	3	8	10	7	11	7	9	2	7	4	Aug
Germany	82 140 752	0	0	0	0	0	0	-	-	-	-	-	-	-	-	No Report
Greece	11 392 891	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Hungary	9 964 621	1.5	15	1	1	2	0	0	2	1	5	0	1	0	2	Aug
Iceland	324 050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Ireland	4 527 814	3.5	16	2	0	1	1	0	2	0	1	4	2	1	2	Aug
Israel	7 545 524	0.1	1	0	0	0	0	0	0	0	0	1	0	0	0	Aug
Italy	60 686 264	0.4	26	9	3	12	2	0	0	0	0	-	-	-	-	Apr
Kazakhstan	16 240 343	0.7	12	0	0	0	0	2	2	0	2	2	2	1	1	Aug
Kyrgyzstan	5 405 749	0.4	2	0	0	0	0	0	2	0	0	-	-	-	-	Apr
Latvia	2 242 757	4.0	9	0	1	0	0	0	0	0	1	3	2	1	1	Aug
Lithuania	3 311 227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Luxembourg	514 108	1.9	1	0	0	0	0	0	0	1	0	0	0	0	0	Aug
Malta	418 134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Monaco	37 785	-	-	-	-	-	-	0	0	0	0	0	0	0	0	Aug
Montenegro	632 157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Netherlands	16 647 522	0.1	1	0	0	0	0	0	0	0	1	0	0	0	0	Aug
Norway	4 917 917	0.2	1	0	0	0	0	0	1	0	0	0	0	0	0	Aug
Poland	38 307 380	138.5	5306	162	160	205	186	174	279	695	1071	1027	731	405	211	Aug
Portugal	10 679 646	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Republic of Moldova	3 555 765	0	0	0	0	0	0	-	-	-	-	-	-	-	-	No Report
Romania	21 445 408	1146.0	24577	40	334	1544	1902	2924	7021	7697	1874	899	299	36	7	Aug
Russian Federation	142 822 544	6.5	926	0	0	0	1	65	121	166	178	155	126	79	35	Aug
San Marino	29 332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Serbia	9 842 939	0	0	0	0	0	0	-	-	-	-	-	-	-	-	No Report
Slovakia	5 470 405	0.4	2	0	0	0	0	1	0	1	0	0	0	0	0	Aug
Slovenia	2 035 215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Spain	46 366 600	1.3	60	1	1	0	2	4	12	15	13	8	2	2	0	Aug
Sweden	9 427 367	5.6	53	0	2	1	0	0	0	0	1	6	27	16	0	Aug
Switzerland	7 694 595	1.7	13	1	1	0	1	0	1	3	1	0	1	2	2	Aug
Tajikistan	6 982 372	0.1	1	0	0	0	0	0	0	0	0	0	1	-	-	Jun
The former Yugoslav Republic of Macedonia	2 063 819	2.4	5	2	0	1	0	1	0	0	0	1	0	0	0	Aug
Turkey	73 689 680	0	0	0	0	0	0	-	-	-	-	-	-	-	-	No Report
Turkmenistan	5 099 686	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Aug
Ukraine	45 242 024	20.8	942	0	0	0	0	0	207	303	432	-	-	-	-	Apr
United Kingdom	62 439 828	1.0	65	0	0	0	0	3	19	17	9	8	5	4	0	Aug
Uzbekistan	27 802 722	0	0	0	0	0	0	0	0	0	0	0	0	-	-	Jun
Total/Averages	899 321 103	35.78	32178	229	527	1773	2104	3188	7680	8916	3600	2129	1209	555	268	

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

Monthly summary table 3. Classification, reporting and performance of measles, January—August 2012 (data as of 1 October 2012)

Country	Total Population ¹	Incidence per 1 million population (Jan-Aug, 2012)	Total measles cases	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	1	0	100%	88%	Aug	100%	0.03	100%
Andorra	67 726	0	0	0	0	0	0	0	100%	50%	Aug	-	0.00	-
Armenia	3 107 085	0	0	0	0	0	17	0	100%	100%	Aug	94.1%	0.55	100%
Austria	8 418 180	1.3	12	8	0	4	0	1	88%	88%	Jul	66.7%	NA	NA
Azerbaijan	9 417 527	0.1	2	1	0	1	65	1	100%	100%	Aug	100%	0.69	98.5%
Belarus	9 536 760	0.7	10	10	0	0	0	3	100%	100%	Aug	100%	0.00	100%
Belgium	10 770 406	9.5	104	34	5	65	0	2	100%	100%	Aug	52.5%	NA	NA
Bosnia and Herzegovina*	3 747 213	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Bulgaria	7 401 269	0	1	1	0	0	0	1	100%	100%	Aug	100%	0.00	100%
Croatia	4 388 603	0	1	0	1	0	0	1	63%	25%	Jul	-	0.00	100%
Cyprus	1 128 260	0.9	1	1	0	0	0	0	100%	100%	Aug	100%	0.00	0.0%
Czech Republic	10 547 860	0.9	21	21	0	0	0	12	88%	88%	Aug	100%	0.00	66.7%
Denmark	5 589 464	0.2	2	2	0	0	0	1	100%	100%	Aug	100%	0.00	100%
Estonia	1 339 829	3.7	7	6	0	1	0	2	100%	100%	Aug	100%	NA	NA
Finland	5 397 248	0.4	5	4	0	1	0	3	100%	88%	Aug	80.0%	0.00	60.0%
France	63 417 636	12.0	794	372	68	354	0	35	100%	100%	Aug	63.2%	NA	NA
Georgia*	4 305 661	4.9	21	0	0	21	14	0	100%	100%	Aug	34.3%	NA	NA
Germany	81 964 400	1.6	152	108	22	22	0	24	100%	100%	Aug	83.1%	NA	NA
Greece	11 418 997	0	2	2	0	0	0	2	88%	88%	Aug	100%	0.00	100%
Hungary	9 947 105	0	0	0	0	0	0	0	100%	100%	Aug	-	0.00	-
Iceland	327 804	0	0	0	0	0	0	0	50%	50%	Aug	-	0.00	-
Ireland	4 579 823	18.6	90	19	52	19	0	5	100%	100%	Aug	71.1%	NA	NA
Israel*	7 672 910	19.2	147	74	0	73	0	0	100%	100%	Aug	50.3%	NA	NA
Italy	60 819 728	9.7	595	230	120	245	0	3	88%	88%	Aug	54.7%	NA	NA
Kazakhstan*	16 407 491	3.3	54	54	0	0	0	0	100%	75%	Aug	100%	NA	NA
Kyrgyzstan	5 463 941	0	0	0	0	0	33	0	13%	13%	Apr	87.9%	0.60	24.2%
Latvia	2 233 986	0.9	3	3	0	0	0	1	100%	100%	Aug	100%	0.00	66.7%
Lithuania	3 296 148	0	2	2	0	0	0	2	88%	88%	Aug	100%	0.00	100%
Luxembourg	521 080	3.8	2	2	0	0	0	0	100%	100%	Aug	100%	NA	NA
Malta	419 402	0	0	0	0	0	0	0	88%	88%	Aug	-	0.00	-
Monaco	38 222	26.2	1	0	0	1	0	0	100%	0%	Aug	0.0%	NA	NA
Montenegro*	632 737	0	0	0	0	0	0	0	75%	13%	Aug	-	0.00	-
Netherlands	16 694 725	0.2	10	10	0	0	0	7	63%	63%	Aug	100%	0.00	90.0%
Norway	4 951 344	0	3	3	0	0	0	3	100%	100%	Aug	100%	0.00	100%
Poland	38 315 208	1.9	77	49	12	16	0	6	88%	88%	Aug	83.1%	NA	NA
Portugal	10 686 443	0.7	9	4	2	3	0	2	100%	100%	Aug	100%	0.00	55.6%
Republic of Moldova	3 532 010	3.1	11	11	0	0	0	0	100%	38%	Aug	100%	NA	NA
Romania	21 397 044	93.3	1997	907	1058	32	0	0	100%	100%	Aug	96.6%	NA	NA
Russian Federation	142 668 224	12.8	1834 **	1745	79	10	9	1	100%	100%	Aug	100%	NA	NA
San Marino	29 486	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Serbia*	9 834 026	0	0	0	0	0	0	0	88%	50%	Aug	-	0.00	-
Slovakia	5 478 110	0	2	2	0	0	0	2	100%	100%	Aug	100%	0.00	100%
Slovenia	2 039 627	0	2	2	0	0	0	2	100%	100%	Aug	100%	0.00	100%
Spain	46 657 472	8.6	413	351	38	24	0	14	100%	100%	Aug	93.6%	NA	NA
Sweden	9 477 964	2.2	27	15	12	0	0	6	88%	88%	Aug	100%	NA	NA
Switzerland	7 723 812	6.0	56	34	6	16	20	10	100%	100%	Aug	80.0%	NA	NA
Tajikistan*	7 086 101	1.0	7	7	0	0	0	0	50%	50%	Jun	100%	0.00	0.0%
The former Yugoslav Republic of Macedonia*	2 066 356	2.4	5	3	0	2	0	0	100%	75%	Aug	60.0%	NA	NA
Turkey	74 546 664	0.0	34	34	0	0	0	31	100%	0%	Aug	100%	0.00	91.2%
Turkmenistan	5 164 039	0	0	0	0	0	0	0	100%	63%	Aug	-	0.00	-
Ukraine*	44 991 932	251.1	11298	1779	0	9519	0	0	88%	38%	Aug	15.7%	NA	NA
United Kingdom	62 806 776	19.5	1264	1264	0	0	0	41	100%	100%	Aug	100%	NA	NA
Uzbekistan*	28 124 854	0	0	0	0	0	0	0	63%	25%	Jun	-	0.00	-
Total/Averages	901 823 640	20.9	19078	7174	1475	10429	159	224	87.7%	75.5%		42.2%	0.02	26.6%

Data source: Monthly aggregated 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 aggregated measles data in year 2012

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 small denominator.

**In addition to these cases, Russian Federation has reported 261 (total 2095 for Jan-Aug 2012) more cases in aggregated format which will be entered and reported in case-based format before end of the year.

Monthly summary table 4. Classification, reporting and performance of rubella, January—August 2012 (data as of 1 October 2012)

Country	Total Population ¹	Incidence per 1 million population (Jan-Aug, 2012)	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	100%	88%	Aug	-	0.00	-
Andorra	67 726	0	0	0	0	0	0	0	100%	38%	Aug	-	0.00	-
Armenia	3 107 085	0.3	1	1	0	0	35	0	75%	75%	Jun	100%	1.13	100%
Austria	8 418 180	0.5	6	5	1	0	0	2	75%	75%	Jul	20.0%	0.00	50.0%
Azerbaijan	9 417 527	0.1	1	1	0	0	13	0	100%	100%	Aug	100%	0.14	100%
Belarus	9 536 760	1.0	10	9	0	1	0	0	100%	100%	Aug	0.0%	NA	NA
Belgium	10 770 406	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Bosnia and Herzegovina	3 747 213	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Bulgaria	7 401 269	1.8	13	0	0	13	0	0	100%	100%	Aug	0.0%	NA	NA
Croatia	4 388 603	0	0	0	0	0	0	0	13%	13%	Jul	-	0.00	-
Cyprus	1 128 260	0	0	0	0	0	0	0	100%	88%	Aug	-	0.00	-
Czech Republic	10 547 860	0.5	5	4	1	0	0	0	100%	100%	Aug	100%	0.00	40.0%
Denmark	5 589 464	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Estonia	1 339 829	0	0	0	0	0	0	0	100%	100%	Aug	-	0.00	-
Finland	5 397 248	0	0	0	0	0	0	0	100%	88%	Aug	-	0.00	-
France	63 417 636	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Georgia	4 305 661	13.2	57	2	1	54	0	0	100%	88%	Aug	0.0%	NA	NA
Germany	81 964 400	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Greece	11 418 997	0	0	0	0	0	0	0	75%	75%	Aug	-	0.00	-
Hungary	9 947 105	1.0	11	7	0	4	0	1	100%	100%	Aug	100%	NA	NA
Iceland	327 804	0	0	0	0	0	0	0	50%	50%	Aug	-	0.00	-
Ireland	4 579 823	2.6	12	0	3	9	0	0	100%	100%	Aug	11.1%	NA	NA
Israel	7 672 910	0.1	1	0	0	1	0	0	100%	100%	Aug	0.0%	0.00	0.0%
Italy	60 819 728	0	0	0	0	0	0	0	25%	25%	Apr	-	0.00	-
Kazakhstan	16 407 491	0.7	12	6	3	3	0	0	88%	63%	Aug	0.0%	0.00	0.0%
Kyrgyzstan	5 463 941	0.4	2	2	0	0	7	0	13%	13%	Apr	88.9%	0.13	11.1%
Latvia	2 233 986	2.2	8	3	2	3	0	3	100%	100%	Aug	100%	NA	NA
Lithuania	3 296 148	0	0	0	0	0	0	0	88%	88%	Aug	-	0.00	-
Luxembourg	521 080	1.9	1	1	0	0	0	0	88%	88%	Aug	100%	NA	NA
Malta	419 402	0	0	0	0	0	0	0	88%	88%	Aug	-	0.00	-
Monaco	38 222	0	0	0	0	0	0	0	100%	13%	Aug	-	0.00	-
Montenegro	632 737	0	0	0	0	0	0	0	75%	13%	Aug	-	0.00	-
Netherlands	16 694 725	0.1	1	1	0	0	0	0	63%	63%	Aug	0.0%	0.00	0.0%
Norway	4 951 344	0	1	1	0	0	0	1	75%	75%	Aug	100%	0.00	100%
Poland	38 315 208	119.9	4593	0	0	4593	0	0	100%	100%	Aug	0.0%	NA	NA
Portugal	10 686 443	0	0	0	0	0	0	0	100%	100%	Aug	-	0.00	-
Republic of Moldova	3 532 010	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Romania	21 397 044	970.1	20757	5649	15108	0	0	0	88%	88%	Aug	100%	NA	NA
Russian Federation	142 668 224	6.5	925	861	56	8	0	2	100%	100%	Aug	1.6%	NA	NA
San Marino	29 486	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Serbia	9 834 026	-	-	-	-	-	-	-	-	-	No Report	-	NA	NA
Slovakia	5 478 110	0.4	2	0	0	2	0	0	100%	100%	Aug	100%	0.00	100%
Slovenia	2 039 627	0	0	0	0	0	0	0	100%	100%	Aug	-	0.00	-
Spain	46 657 472	1.0	56	51	1	4	0	10	100%	100%	Aug	92.7%	0.00	87.5%
Sweden	9 477 964	5.2	50	38	12	0	0	1	75%	75%	Aug	100%	NA	NA
Switzerland	7 723 812	1.2	10	10	0	0	21	1	100%	100%	Aug	96.8%	NA	NA
Tajikistan	7 086 101	0.1	1	1	0	0	0	0	50%	50%	Jun	0.0%	0.00	0.0%
The former Yugoslav Republic of Macedonia	2 066 356	1.0	2	0	0	2	0	0	100%	75%	Aug	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	100%	63%	Aug	-	0.00	-
Ukraine	44 991 932	20.9	942	0	0	942	0	0	50%	13%	Apr	0.0%	NA	NA
United Kingdom	62 806 776	0.9	65	65	0	0	0	9	100%	100%	Aug	100%	0.00	90.8%
Uzbekistan	28 124 854	0	0	0	0	0	0	0	63%	25%	Jun	-	0.00	-
Total/Averages	901 823 640	30.5	27545	6718	15188	5639	76	30	70.0%	62.0%		48.6%	0.00	76.1%

Data source: Monthly aggregated 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 5. Measles and rubella laboratory test results, January – August 2012 (data as of 1 October 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	8	0 (0.0)	0	8	0	0	0	0	100%	75.0%	Aug
Andorra											No Lab
Armenia	50	0 (0.0)	0	50	50	1 (2.0)	0	49	100%	87.5%	Aug
Austria	848	7 (1.0)	0	841	3762	9 (0.0)	0	3753	100%	100%	Aug
Azerbaijan	65	1 (2.0)	1	63	65	1 (2.0)	3	61	75.0%	37.5%	Jun
Belarus	251	19 (8.0)	0	232	246	12 (5.0)	0	232	100%	100%	Aug
Belgium	152	32 (21.0)	4	114	47	8 (17.0)	5	34	100%	100%	Aug
Bosnia and Herzegovina											No Report
Bulgaria	40	2 (5.0)	0	38	43	1 (2.0)	0	42	100%	75.0%	Aug
Croatia	1	1 (100.0)	0	0	1	0 (0.0)	0	1	100%	87.5%	Aug
Cyprus	1	1 (100.0)	0	0	0	0	0	0	100%	50.0%	Aug
Czech Republic	68	25 (37.0)	3	40	16	1 (6.0)	0	15	100%	100%	Aug
Denmark	571	12 (2.0)	11	548	326	48 (15.0)	18	260	100%	50.0%	Aug
Estonia	102	5 (5.0)	1	96	391	4 (1.0)	2	385	100%	100%	Aug
Finland	413	23 (6.0)	0	390	416	2 (0.0)	0	414	87.5%	87.5%	Aug
France	629	180 (29.0)	4	438	0	0	0	0	100%	87.5%	Aug
Georgia	91	0 (0.0)	1	90	92	2 (2.0)	7	83	100%	75.0%	Aug
Germany	223	47 (21.0)	1	174	31	1 (3.0)	0	30	100%	87.5%	Aug
Greece	8	0 (0.0)	0	8	122	18 (15.0)	0	104	100%	50.0%	Aug
Hungary	58	4 (7.0)	0	54	325	13 (4.0)	0	311	100%	100%	Aug
Iceland	40	0 (0.0)	0	40	71	2 (3.0)	0	69	100%	62.5%	Aug
Ireland	299	25 (8.0)	9	265	1248	5 (0.0)	7	1236	100%	87.5%	Aug
Israel	228	64 (28.0)	0	164	687	58 (8.0)	0	629	100%	100%	Aug
Italy	169	119 (70.0)	2	48	87	49 (56.0)	0	38	62.5%	0.0%	May
Kazakhstan	191	54 (28.0)	1	136	266	6 (2.0)	3	256	100%	100%	Aug
Kyrgyzstan	260	0 (0.0)	0	260	260	7 (3.0)	2	251	100%	100%	Aug
Latvia	291	15 (5.0)	7	269	283	17 (6.0)	8	258	100%	62.5%	Aug
Lithuania	7	2 (29.0)	3	2	6	0 (0.0)	0	6	100%	100%	Aug
Luxembourg	64	0 (0.0)	0	64	56	0 (0.0)	1	55	100%	100%	Aug
Malta	14	0 (0.0)	0	14	947	6 (1.0)	0	941	100%	62.5%	Aug
Monaco											No Lab
Montenegro											No Lab
Netherlands	34	4 (12.0)	0	30	32	0 (0.0)	0	32	62.5%	25.0%	May
Norway	44	5 (11.0)	0	39	24	1 (4.0)	0	23	100%	100%	Aug
Poland	147	49 (33.0)	4	94	57	12 (21.0)	0	45	100%	87.5%	Aug
Portugal	36	11 (31.0)	0	21	0	0	0	0	100%	100%	Aug
Republic of Moldova	50	11 (22.0)	0	39	50	2 (4.0)	0	48	100%	100%	Aug
Romania	5265	3000 (57.0)	48	2217	9787	6335 (65.0)	196	3256	100%	100%	Aug
Russian Federation	6617	2177 (33.0)	6	4434	4626	857 (19.0)	6	3763	100%	100%	Aug
San Marino											No Lab
Serbia	56	1 (2.0)	0	46	101	1 (1.0)	0	91	100%	87.5%	Aug
Slovakia	9	5 (56.0)	0	4	2	0 (0.0)	0	2	100%	87.5%	Aug
Slovenia	47	6 (13.0)	1	40	25	0 (0.0)	0	25	100%	100%	Aug
Spain											No Report
Sweden											No Report
Switzerland	41	34 (83.0)	1	6	13	13 (100.0)	0	0	100%	100%	Aug
Tajikistan	50	14 (28.0)	1	35	50	1 (2.0)	1	48	75.0%	37.5%	Jun
The former Yugoslav Republic of Macedonia	18	3 (17.0)	1	14	174	5 (3.0)	1	168	100%	12.5%	Aug
Turkey	657	4 (1.0)	4	649	657	21 (3.0)	16	620	37.5%	37.5%	Mar
Turkmenistan	46	0 (0.0)	0	41	46	0 (0.0)	0	41	100%	62.5%	Aug
Ukraine	879	485 (55.0)	12	382	531	150 (28.0)	1	380	100%	100%	Aug
United Kingdom	6019	1567 (26.0)	0	4452	1474	63 (4.0)	0	1411	100%	100%	Aug
Uzbekistan	11	0 (0.0)	0	11	11	0 (0.0)	0	11	100%	100%	Aug
Total / Average	25168	8014 (32%)	126	17000	27504	7732 (28%)	277	19477	93.6%	77.9%	

*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.

Monthly summary table 6: 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 (1-38 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 ⁴				Polio Compatible	Pending	Discarded	Wild Polio cases	VDPV/VAPP	Non polio AFP rate ³	Adequate Stool collection	Surv. Index ⁴	% Completeness	% Timeliness	Week of last report
Albania	4	4	0	0	0	4	0	0	0.56	100.0	0.56	6	6	0	0	0	6	0	0	1.15	100.0	1.00	87.0	64.0	38
Andorra	0	0	0	0	0	0	0	0	0.00	0.0	0.00	0	0	0	0	0	0	0	0	0.00	0.0	0.00	92.0	10.0	37
Armenia	21	21	1	0	0	21	0	0	3.37	90.5	0.90	24	24	2	0	4	20	0	0	4.24	95.8	0.96	95.0	97.0	39
Austria*	2	2	0	0	0	2	0	0	0.16	0.0	0.08	1	1	0	0	0	1	0	0	0.11	100.0	0.11	95.0	53.0	38
Azerbaijan*	37	37	0	0	0	37	0	0	1.88	97.3	1.00	29	29	0	0	6	23	0	0	1.52	96.6	0.97	95.0	97.0	38
Belarus	46	46	3	0	0	46	0	0	3.18	78.3	0.85	31	31	2	0	14	17	0	0	1.56	90.3	0.94	45.0	46.0	37
Belgium	3	3	0	0	0	3	0	0	0.17	0.0	0.00	2	2	0	0	0	2	0	0	0.15	0.0	0.00	85.0	25.0	38
Bosnia and Herzegovina*	8	8	1	0	0	8	0	0	1.44	50.0	0.75	5	3	0	0	3	2	0	0	0.49	100.0	0.49	62.0	35.0	38
Bulgaria	12	12	0	0	0	12	0	0	1.16	91.7	1.00	6	6	0	0	6	0	0	0	0.00	100.0	0.00	77.0	79.0	34
Croatia	0	0	0	0	0	0	0	0	0.00	0.0	0.00	2	2	0	0	0	2	0	0	0.41	0.0	0.21	45.0	15.0	27
Cyprus	4	4	0	0	0	4	0	0	2.05	100.0	1.00	3	3	0	0	1	2	0	0	1.37	100.0	1.00	87.0	89.0	39
Czech Republic	8	8	0	0	0	8	0	0	0.54	75.0	0.47	3	3	0	0	1	2	0	0	0.18	66.7	0.18	75.0	66.0	37
Estonia	0	0	0	0	0	0	0	0	0.00	0.0	0.00	1	1	0	0	0	1	0	0	0.63	0.0	0.00	87.0	89.0	39
Georgia*	10	10	1	0	0	9	0	1	1.26	100.0	1.00	11	11	1	0	0	10	0	1	1.87	100.0	1.00	95.0	97.0	38
Greece*	24	24	2	0	0	24	0	0	1.43	79.2	0.92	14	14	0	0	14	0	0	0	0.00	85.7	0.00	95.0	87.0	38
Hungary	7	7	0	0	0	7	0	0	0.48	28.6	0.21	9	9	0	0	2	7	0	0	0.64	55.6	0.43	85.0	58.0	37
Ireland	7	7	0	0	0	7	0	0	0.72	14.3	0.31	0	0	0	0	0	0	0	0	0.00	0.0	0.00	60.0	20.0	24
Israel	19	18	0	0	0	19	0	0	0.92	16.7	0.41	6	6	0	0	0	6	0	0	0.38	16.7	0.13	85.0	79.0	38
Italy	64	63	1	0	0	64	0	0	0.75	65.1	0.51	46	46	0	0	6	40	0	0	0.62	65.2	0.45	90.0	43.0	39
Kazakhstan	103	103	1	0	0	103	0	0	2.54	97.1	0.98	65	65	0	0	17	48	0	0	1.54	98.5	1.52	87.0	84.0	38
Kyrgyzstan*	68	65	2	0	0	68	0	0	4.19	100.0	1.00	35	34	0	0	13	22	0	0	1.80	97.1	1.00	70.0	71.0	38
Latvia	1	1	0	0	0	1	0	0	0.32	100.0	0.32	2	2	0	0	0	2	0	0	0.84	100.0	0.84	90.0	74.0	38
Lithuania	10	10	0	0	0	10	0	0	2.04	100.0	1.00	12	10	0	0	0	12	0	0	3.29	80.0	0.90	80.0	82.0	39
Malta	0	0	0	0	0	0	0	0	0.00	0.0	0.00	0	0	0	0	0	0	0	0	0.00	0.0	0.00	65.0	10.0	38
Montenegro*	3	3	0	0	0	3	0	0	2.49	66.7	1.00	2	2	0	0	0	2	0	0	2.22	50.0	0.50	85.0	84.0	38
Norway	12	12	0	0	0	12	0	0	1.31	41.7	0.67	10	10	0	0	5	5	0	0	0.73	30.0	0.51	87.0	28.0	39
Poland	36	36	2	0	0	36	0	0	0.64	80.6	0.57	18	17	1	0	5	13	0	0	0.31	52.9	0.18	90.0	82.0	39
Portugal	8	7	1	0	0	8	0	0	0.50	42.9	0.43	6	6	0	0	1	5	0	0	0.42	16.7	0.21	30.0	20.0	36
Republic of Moldova	8	8	0	0	0	8	0	0	1.35	100.0	1.00	5	5	1	0	0	5	0	0	1.14	100.0	1.00	90.0	87.0	39
Romania	18	18	0	0	0	18	0	0	0.55	100.0	0.55	11	11	0	0	4	7	0	0	0.29	100.0	0.29	95.0	89.0	39
Russian Federation*	360	358	33	0	0	360	0	0	1.65	92.7	0.95	296	295	33	0	138	158	0	0	0.95	93.9	0.89	97.0	100.0	39
Serbia	10	10	1	0	0	10	0	0	0.58	90.0	0.58	10	10	0	0	0	10	0	0	0.78	80.0	0.62	87.0	89.0	38
Slovakia	2	2	0	0	0	2	0	0	0.24	100.0	0.24	2	2	0	0	1	1	0	0	0.16	100.0	0.16	85.0	66.0	38
Slovenia	0	0	0	0	0	0	0	0	0.00	0.0	0.00	0	0	0	0	0	0	0	0	0.00	0.0	0.00	95.0	61.0	39
Spain	34	34	0	0	0	34	0	0	0.49	38.2	0.30	15	15	0	0	2	13	0	0	0.24	26.7	0.19	97.0	74.0	39
Switzerland	6	3	0	0	0	6	0	0	0.52	66.7	0.34	4	3	0	0	0	4	0	0	0.46	0.0	0.15	82.0	35.0	39
Tajikistan*	55	52	0	0	0	55	0	0	2.16	96.2	0.96	48	48	0	0	16	32	0	0	1.67	97.9	1.63	70.0	69.0	38
The former Yugoslav Republic of Macedonia	2	2	1	0	0	2	0	0	0.56	100.0	0.56	2	2	0	0	1	1	0	0	0.38	100.0	0.38	85.0	71.0	38
Turkey	197	196	3	0	0	240	0	1	1.02	80.6	0.87	135	135	3	0	23	112	0	0	0.78	77.0	0.64	72.0	74.0	38
Turkmenistan	33	33	0	0	0	33	0	0	2.25	100.0	1.00	26	26	0	0	7	19	0	0	1.72	96.2	1.65	40.0	41.0	36
Ukraine*	127	127	31	0	0	125	0	2	1.92	97.6	1.00	88	85	16	0	23	64	0	1	1.30	96.5	0.99	80.0	82.0	38
Uzbekistan*	200	197	4	0	0	200	0	0	2.49	96.4	0.96	177	172	1	0	59	118	0	0	1.97	98.8	0.99	75.0	76.0	38
Average/Total	1569	1551	88	0	0	1609	0	4	1.20	87.00	0.91	1168	1152	60	0	372	794	0	2	0.89	88.00	0.81	80.0	62.0	

¹ 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) exists to detect polioviruses 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.