

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

Highlighting in the WHO European Region:

- Measles outbreaks in the WHO European Region and Member States' responses
- Measles in the World Health Organization Region of the Americas – the European connection
- Measles and rubella supplementary immunization activity in Uzbekistan reaches over seven million children
- Outbreak of wild polio virus 1 in China: additional seven cases reported
- Acute flaccid paralysis (AFP) surveillance in the European Region

Summary

Measles outbreaks

During the period 1 January to 30 July 2011, 40 of 53 Member States in the WHO European Region reported 26 025 confirmed measles cases. This represents nearly a three-fold increase in cases compared to the same period in 2007. In response to the measles outbreaks, Member States are strengthening their surveillance activities according to national and regional guidelines, and some have revised their immunization programmes.

Outbreak of wild polio virus 1 in China

As of 19 October there are 18 confirmed polio cases. Half of the cases are in very young children (under 3 years of age) and half in young adults (19-31 years old). China has undertaken remarkable and swift efforts to date to control the outbreak.

Acute flaccid paralysis (AFP) surveillance in the European Region At the 25th meeting of the European Regional Certification Commission on the Eradication of Poliomyelitis (RCC), it was recommended that countries considered at high risk of transmission of wild poliovirus should comply with the same AFP surveillance criteria as countries with importations until they are no longer assessed to be at high risk. In order to facilitate rapid detection of polio cases, countries should continue their efforts to ensure routine and rapid transportation of specimens from the field to their designated national laboratory and the regional reference laboratories.

Measles outbreaks in the WHO European Region and Member States' responses

Since July 2011, the World Health Organization Regional Office for Europe (WHO\Europe) has received measles and rubella surveillance data from 15 of 53 Member States (Albania, Andorra, Azerbaijan, Belarus, Estonia, Georgia, Israel, Russian Federation, Serbia, Slovakia, Switzerland, The former Yugoslav Republic of Macedonia, Turkey, Turkmenistan and Ukraine). Of these Member States, 13 reported zero cases of measles in August. In August, the World Health Organization Regional Office for Europe did not receive surveillance data from the 27 Member States of the European Union who reported to the European Centre for Disease Prevention and Control (ECDC) through TESSy (The European Surveillance System).

According to case-based and aggregated routine surveillance reporting, and outbreak reports provided to the European Regional Office, as of 20 September 2011, covering the period 1 January to 30 July 2011, 40 of 53 Member States reported 26 074 confirmed measles cases. This represents nearly a three-fold increase in cases compared to the same period in 2007. The predominant genotype circulating in the European Region is D4, which has been endemic in some countries of the Region, such as the United Kingdom, since 2008.

The highest number of cases was reported from France with 14 025 for the first seven months of the year. In addition, there have been nine deaths reported (six in France and one each in Germany, Kyrgyzstan and Romania).

From the beginning of the year through July 2011, there have been 258 suspected rubella cases reported from 15 Member States; only 11 cases were laboratory confirmed.

In response to the measles outbreaks, Member States are strengthening their surveillance activities according to national and regional guidelines,



and some have revised their immunization programmes, including modifying their immunization calendars and offering free vaccine to older individuals. Additionally, social mobilization activities and advocacy for immunization among the general population and the health sector have been implemented in all countries.

On 13 October 2011, France launched a nationwide communication campaign to address the measles outbreak. The campaign targets: health care professionals to provide them with information about the outbreak and national measles vaccine recommendations; persons aged 15-30 years (the priority target age group) to encourage them to check their immunization status and, if they have not had two doses of a measles-containing vaccine, to get vaccinated; and mothers aged 40-60 years to recommend that they check their children's immunization cards and to sensitize them to the importance of two doses of vaccine for their children.

The WHO Regional Office for Europe hosted a one-day meeting on measles elimination in Istanbul on 13 October 2011 with more than 40 national immunization programme managers attending. The meeting focused on the current measles outbreaks in the European Region, highlighting the prevention and control measures implemented by Member States towards the measles elimination goal. Best practices were shared among countries, including Slovenia and Spain. Slovenia has reported 9 measles cases this year ranging in age from 5 to 49 years. The high reported (>95% for 1st and 2nd doses of measles-containing vaccines) measles coverage has ensured that there has been a limited chain of transmission from the first imported measles case.

In Spain, innovative efforts have been put into action to reach unimmunized individuals to stop the continued spread of virus. These include strengthening of vaccination strategies at a regional level to increase immunity in healthcare workers and other vulnerable groups, as well as implementing national communication strategies directed at healthcare workers.

The regional measles and rubella verification process for elimination was also reviewed and Turkey and Turkmenistan presented on their documentation efforts to date. WHO\Europe continues to work with Member States, providing recommendations, technical support, and analytic and programmatic feedback.

Measles and rubella supplementary immunization activity in Uzbekistan reaches over seven million children

Uzbekistan conducted a follow-up supplemental immunization activity (SIA) with one dose of measles-rubella (MR) vaccine targeting 7.55 million children between 1 and 14 years of age. The SIA was implemented to close the immunity gap in susceptible population accumulated during recent years of routine vaccine shortage and low routine coverage with a second dose of a measles-containing vaccine. The measles and rubella SIA contributed to strengthening the health system through enhanced partnerships within the country, improving the cold chain, strengthening injection safety and disease surveillance, and promoting the use of surveillance data for programme management.

The SIA was funded through the Measles Initiative and a donation of seven million doses of MR vaccine by the Serum Institute of India. Supplemental immunization activities are part of the regional strategic plan to eliminate measles and rubella by 2015; they provide an opportunity for individuals to receive a second dose of measles-containing vaccine. High quality SIAs can rapidly interrupt any transmission and reduce the proportion of susceptibles in a given population rapidly. In the context of high routine immunization coverage, they are a key strategy to eliminating indigenous measles transmission.

The SIA was conducted during 12-18 September 2011; administrative reported coverage was 99.5%. External observers deployed by WHO, as well as the Centers for Disease Control and Prevention of the United States of America (CDC) and UNICEF staff, reported a high level of preparedness by the health staff at all levels, proper vaccine handling, waste management and strong involvement of communities. A WHO-supported post-campaign coverage survey, conducted in five provinces of the country and the capital city Tashkent, confirmed the success of the SIA. The average national coverage estimated by lot quality assessment (LQA) methodology was 98.4%, which exceeds the target of 95%, even with a statistical margin of error.

Uzbekistan is also moving forward with other components of the strategy for measles elimination. In 2011, the Ministry of Health successfully secured



sufficient funding for procurement of a second dose of measles-containing vaccine for children aged six years; the Ministry aims at centralizing procurement of all routine vaccines by mid-2012. Uzbekistan intends to begin the measles elimination verification process soon and to lead the way in reaching the regional elimination goal.

Measles in the World Health Organization Region of the Americas – the European connection

The Americas Region of the World Health Organization (AMR) is the only region to have achieved measles elimination. Since November 2002, the interruption of measles transmission has been sustained, with periodic importation of measles from other regions and limited clusters of cases among the unimmunized. However, in 2011 the number of measles cases is the highest it has been since the Region achieved elimination, reporting 993 cases (four-fold increase since 2010). Most of the cases (about 739 at August 2011) are reported from Canada, primarily from a large

measles outbreak in Quebec, which began in January after virus importation from France. According to existing epidemiological and laboratory data, Latin American countries have also experienced outbreaks due to D4 and G3 measles virus genotypes (see Figure 1) as a result of cases imported from the European Region (France, Italy, Germany, Poland, United Kingdom and Europe unspecified).

Genotyping data has also confirmed exportation of measles viruses (D4) from Europe to Australia and Japan in 2011.

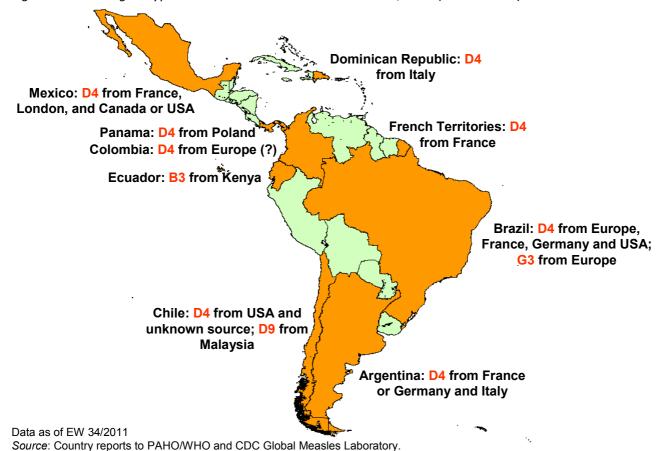


Figure 1: Measles genotypes in selected Latin American countries, 2011 (source: AMR)

No. 18 (October 2011)



Outbreak of wild polio virus 1 in China: additional cases reported

As of 19 October there are 18 confirmed polio cases; 12 in Hotan prefecture, 5 in Kashgar prefecture and 1 in Bazhou prefecture, all in the southern Xinjiang Uygur autonomous region, western China. Half of the cases are in very young children (under 3 years of age) and half in young adults (19-31 years old).

China has undertaken remarkable and swift efforts to date to control the outbreak. More than four million children were again vaccinated with oral poliovirus vaccine (OPV) from 8-12 October in Xinjiang Uyghur Autonomous Region. The campaign targeted children under age 15 in the five southern prefectures and the capital Urumqi, and children under age five in the northern prefectures.

Special strategies were used to proactively identify and vaccinate children in mobile, migrant and other high-risk groups. For example, 80% of posts in Urumqi were 'temporary' outside posts and vaccinators went house-to-house in areas with known higher concentrations of mobile and migrant people. Mobile teams were also used to reach very remote rural areas. Initial reported coverage is over 95%, which was confirmed by independent monitors reporting on the high quality of the vaccination.

WHO\Europe reminds all Member States of the European Region of the need to ensure enhanced polio surveillance for wild poliovirus importations and high coverage with polio vaccine. All travellers to and from countries or areas reporting wild poliovirus should be adequately vaccinated as per WHO's international travel and health recommendations [http://www.who.int/ith/en/].

Acute flaccid paralysis (AFP) surveillance in the European Region

At the 25th meeting of the European Regional Certification Commission on the Eradication of Poliomyelitis (RCC), held 23 - 25 August 2011, it was recommended that countries considered at high risk of transmission of wild poliovirus should comply with the same AFP surveillance criteria (non-polio AFP target rate of >2 per 100 000 population) as countries with importations until they are no longer assessed to be at high risk by the RCC.

From the data provided to WHO\Europe in January – September 2011, Kyrgyzstan is the only country in

this group meeting the AFP target rate criteria and having no "silent" territories at subnational level. Armenia, also reporting annualized nonpolio AFP rate of > 2 per 100 000, has five regions with an under 15 years of age population of more than 158 000 persons (accounting for 25% of the national population) that have not identified an AFP case. Significant areas of Bosnia and Herzegovina (35%), Georgia (37%) Greece (14%) and Turkey (21%) also remained silent through the first nine months of 2011. In these Member States, there is a concern that an imported virus would not be detected, unless AFP surveillance is improved.

Table 1: AFP Surveillance system performance, (Jan-Sep, 2011)

| Country | Population under 15 years | | non polio AFP rate under 15 years | faecal | Modified AFP surveillance index | Number of silent territories | Population of silent territories | % population of silent territories |
|------------------------|---------------------------------|-----|---|--------|---------------------------------------|------------------------------------|----------------------------------|------------------------------------|
| Armenia | 627,730 | 17 | 2.07 | 88 | 0.88 | | 158,147 | |
| Azerbaijan | 2,149,288 | 29 | 1.27 | 97 | 1.00 | 1/9 | 97,090 | 5% |
| Bosnia and Herzegovina | 559,388 | 5 | 0.23 | 40 | 0.14 | 2/3 | 196,741 | 35% |
| Montenegro | 119,197 | 1 | 1.09 | 0 | 1.00 | 0 | - | 0% |
| Georgia | 696,357 | 9 | 1.31 | 100 | 1.00 | 6/12 | 259,350 | 37% |
| Greece | 1,589,964 | 19 | 1.19 | 79 | 0.97 | 4/13 | 221,230 | 14% |
| Kyrgyzstan | 1,616,720 | 38 | 2.49 | 100 | 1.00 | 0/8 | - | 0% |
| Kazakhstan | 3,816,365 | 49 | 0.78 | 98 | 0.77 | 1/16 | 107,412 | 3% |
| Russian Federation | 21,216,854 | 290 | 1.19 | 92 | 0.95 | 13 / 89 | 599,699 | 3% |
| Tajikistan | 2,582,795 | 38 | 1.76 | 95 | 0.95 | 1/6 | 52,813 | 2% |
| Turkmenistan | 1,503,084 | 24 | 1.64 | 100 | 1.00 | 0/6 | - | 0% |
| Turkey | 19,895,020 | 142 | 0.71 | 82 | 0.64 | 34 / 84 | 4,123,235 | 21% |
| Ukraine | 6,327,164 | 91 | 1.38 | 98 | 1.00 | 3 / 27 | 343,020 | 5% |
| Uzbekistan | 7,886,091 | 157 | 1.86 | 96 | 0.96 | 0/14 | - | 0% |
| Total | 144,548,733 | | | | | | 13,265,728 | 9% |

^{*} data as of 5 October 2011; Data Source: AFP case-based data reported to CISID

No. 18 (October 2011) Page No. 4 of 9



In order to facilitate rapid detection of polio cases, countries should continue their efforts to ensure routine and rapid transportation of specimens from the field to their designated national laboratory and the regional reference laboratories.

As of 20 October 2011, there are 238 AFP cases with specimens collected for laboratory investigation pending results (available at the Laboratory Data Management System - LDMS). Of these cases, only 66 cases (28%) have ≤ 28 days since onset of paralysis; 63 cases (26%) have between 29 and 50 days;

and no laboratory results are available for 109 cases (46%) that have more than 50 days since onset of paralysis. Delays could be caused by different reasons (e.g. untimely transportation of specimens to a laboratory or a failure to report results). Specimens pending investigation pose a risk of late detection or missing of polio cases, which can lead to increased spread. Member States of the European Region remain at continuing risk of importations of wild poliovirus and the emergence of a circulating vaccine-derived polio virus until global eradication is certified.

70 60 50 ₹; 40

Figure 2: Number of days lab result is pending since onset of paralysis by country, Jan-Sep, 2011

■ 51+ days 29-50 days 30 ■ 0-28 days 20 10

*data from LDMS as of 20 October 2011

No. 18 (October 2011)



Table 2. Classification of reported suspected measles cases, January—August 2011 (data as of 1 Oct 2011)

| Table 2. Classi | | leported | Suspected | | | 363, 00 | illual y | Aug | ust 201 | | | Surveillance Indicators | | | | |
|--|----------------------------------|---|-------------------------------|----------------|----------|-----------------------|-----------|--------------------------|-------------------|------------|-------------------------|--|----------------|---------------------|--|--|
| | | la sidence | | Classification | | | | | | Report | ing | Surveillance Indicators (Please see page 4 for detail) | | | | |
| Country | Total Population ¹ | Incidence Rate per 1 million population (Jan-Aug) | Total confirmed measles | Lab confirmed | Epi-Link | Clinical ² | Discarded | Importation ³ | Complete- ness | Timeliness | Month of last report | Laboratory investigation rate | detection rate | Source of infection | | |
| Albania | 3 184 761 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% | 63% | Aug | - | 0.00 | - | | |
| Andorra | 67 722 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% | 50% | Aug | - | 0.00 | - | | |
| Armenia | 3 099 249 | 0.0 | 0 | 0 | 0 | 0 | 16 | 0 | 75% | 100% | Jul | 100.0% | 0.52 | 100.0% | | |
| Austria | 8 407 841 | 8.7 | 93 | 19 | 5 | 69 | 0 | 20 | 75% | 75% | Jul | 31.8% | NA | NA | | |
| Azerbaijan | 9 035 054 | 0.0 | 0 | 0 | 0 | 0 | 8 | 0 | 100% | 75% | Aug | 100.0% | 0.09 | 100.0% | | |
| Belarus* | 9 541 951 | 0.3 | 3 | 3 | 0 67 | 0 | 0 | 0 | 100% | 50% | Aug | 100.0% | 0.00 | 0.0% | | |
| Belgium Bosnia and Herzegovina* | 10 741 473 3 752 989 | 45.4 | 516 | 296 | - | 153 | 22 | 28 | 50% | 50% | Jul No Report | 111.0% | NA NA | NA NA | | |
| Bulgaria* | 7 450 501 | 19.6 | 146 | 124 | 0 | 22 | 0 | 0 | 88% | 50% | Jul | 84.9% | NA | NA NA | | |
| Croatia | 4 402 729 | 1.1 | 7 | 5 | 2 | 0 | 0 | 2 | 75% | 50% | Jul | 100.0% | NA | NA | | |
| Cyprus | 888 534 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 88% | 88% | Jul | - | 0.00 | - | | |
| Czech Republic | 10 442 510 | 2.6 | 31 | 25 | 0 | 6 | 0 | 4 | 88% | 88% | Jul | 80.6% | NA | NA | | |
| Denmark . | 5 491 148 | 14.0 | 78 | 71 | 7 | 0 | 0 | 1 | 88% | 88% | Jul | 100.0% | NA | NA | | |
| Estonia | 1 338 887 | 1.5 | 7 | 7 | 0 | 0 | 0 | 5 | 100% | 100% | Aug | 100.0% | NA | NA | | |
| Finland | 5 364 898 | 3.0 | 19 | 19 | 0 | 0 | 0 | 3 | 88% | 88% | Jul | 100.0% | NA | NA | | |
| France | 62 916 416 | 222.8 | 14025 | 4532 | 772 | 8721 | 146 | 9 | 63% | 38% | Jun | 40.9% | NA | NA | | |
| Georgia* | 4 184 100 | 7.6 | 32 | 7 | 8 | 17 | 0 | 0 | 100% | 75% | Aug | 29.2% | NA | NA | | |
| Germany | 81 935 976 | 16.2 | 1343 | 728 | 509 | 106 | 1 | 16 | 50% | 50% | Jun | 87.2% | NA | NA | | |
| Greece | 11 203 121 | 2.9 | 37 | 32 | 1 | 4 | 0 | 5 | 88% | 75% | Jul | 91.7% | NA | NA | | |
| Hungary | 9 953 518 | 0.0 | 2 | 2 | 0 | 0 | 0 | 2 | 88% | 88% | Jul | 100.0% | 0.00 | 100.0% | | |
| Iceland | 335 063 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 88% | 75% | Jul | - | 0.00 | - | | |
| Ireland | 4 656 634 | 17.4 | 88 | 41 | 13 | 34 | 3 | 7 | 75% | 75% | Jun | 67.9% | NA | NA | | |
| Israel* | 7 397 700 | 1.2 | 9 | 5 | 0 | 4 | 0 | 0 | 100% | 100% | Aug | 55.6% | NA | NA | | |
| Italy | 60 280 504 | 22.0 | 1330 | 481 | 53 | 796 | 5 | 2 | 38% | 25% | Jul | 38.5% | NA | NA | | |
| Kazakhstan* | 15 868 221 | 1.9 | 30 | 24 | 0 | 6 | 0 | 0 | 38% | 13% | Mar | 80.0% | NA | NA NA | | |
| Kyrgyzstan Latvia | 5 617 475 | 39.3 0.4 | 221 | 221 1 | 0 | 0 | 366 0 | 0 | 100% | 13% | Aug Jun | 100.0% | 0.00 | NA | | |
| Latvia Lithuania | 2 231 358 3 228 015 | 1.2 | 7 | 7 | 0 | 0 | 0 | 3 | 38% 88% | 25% 75% | Jul | 100.0% | NA | 100.0% NA | | |
| Luxembourg | 497 368 | 6.0 | 5 | 5 | 0 | 0 | 0 | 2 | 75% | 75% | Jul | 100.0% | NA NA | NA NA | | |
| Malta | 411 349 | 4.9 | 2 | 2 | 0 | 0 | 0 | 0 | 88% | 88% | Jul | 100.0% | NA | NA NA | | |
| Monaco | 37 785 | - | - | _ | - | - | - | - | - | - | No Report | - | NA | NA | | |
| Montenegro* | 626 067 | 8.0 | 5 | 5 | 0 | 0 | 0 | 0 | 63% | 50% | Jun | 100.0% | NA | NA | | |
| Netherlands | 16 710 858 | 1.9 | 47 | 30 | 16 | 1 | 0 | 15 | 38% | 25% | Jun | 96.8% | NA | NA | | |
| Norway | 4 895 307 | 6.3 | 37 | 37 | 0 | 0 | 2 | 6 | 50% | 50% | Jul | 100.0% | NA | NA | | |
| Poland | 37 995 500 | 0.4 | 19 | 13 | 0 | 6 | 15 | 2 | 75% | 50% | Jun | 76.5% | 0.04 | 100.0% | | |
| Portugal | 10 752 590 | 0.0 | 0 | 0 | 0 | 0 | 2 | 0 | 88% | 50% | Jul | 100.0% | 0.02 | 100.0% | | |
| Republic of Moldova | 3 549 163 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 38% | 13% | Mar | - | 0.00 | - | | |
| Romania | 21 107 516 | 102.0 | 2156 | 779 | 1316 | 61 | 133 | 4 | 25% | 0% | Jun | 94.9% | NA | NA | | |
| Russian Federation | 139 872 928 | 1.1 | 166 | 162 | 3 | 1 | 51 | 15 | 100% | 100% | Aug | 100.9% | NA | NA | | |
| San Marino | 29 332 | - | - | - | - | - | - | - | - | - | No Report | - | NA | NA | | |
| Serbia* | 9 855 875 | 35.1 | 346 | 71 | 13 | 262 | 0 | 0 | 100% | 63% | Aug | 21.3% | NA | NA | | |
| Slovakia | 5 417 394 | | 2 | 2 | 0 | 0 | 0 | 2 | 100% | 100% | Aug | 100.0% | 0.00 | 100.0% | | |
| Slovenia | 2 029 418 | 2.5 | 9 | 9 | 0 | 0 | 0 | 4 | 100% | 88% | Aug | 100.0% | NA | NA | | |
| Spain | 45 724 660 | 58.3 | 2745 | 2122 | 345 | 278 | 2 | 81 | 88% | 88% | Jul | 90.3% | NA | NA 100.00/ | | |
| Sweden | 9 335 463 | 0.6 | 23 | 23 | 0 | 154 | 0 | 17 | 88% | 88% | Jul | 100.0% | 0.00 | 100.0% | | |
| Switzerland Tajikistan* | 7 622 415 7 203 979 | 77.7 | 640 | 399 | 87 | 154 | 92 | 48 | 100% | 88% | Aug No Report | 75.8% | NA NA | NA NA | | |
| The former Yugoslav Republic of Macedonia* | 2 044 005 | 355.7 | 727 | 51 | 241 | 435 | 0 | 0 | 100% | 88% | Aug | 10.5% | NA NA | NA NA | | |
| Turkey | 76 582 128 | 1.2 | 105 | 105 | 0 | 0 | 0 | 11 | 100% | 88% | Aug | 100.0% | NA | NA | | |
| Turkmenistan | 5 243 476 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% | 13% | Aug | - | 0.00 | - | | |
| Ukraine* | 45 167 108 | | 12 | 12 | 0 | 0 | 0 | 0 | 88% | 88% | Aug | 100.0% | 0.00 | 0.0% | | |
| J. 11 411 10 | | | | 686 | 1 | 0 | 3 | 74 | | | | 100.0% | NA | NA | | |
| United Kinadom | 62 230 620 | 9.9 | b8/ | non | | | | /4 | (3% | /3% | Jun | 100.176 | INA | | | |
| United Kingdom Uzbekistan* | 62 230 620 28 110 756 | 9.9 11.2 | 687 316 | 172 | 0 | 144 | 0 | 0 | 75% 50% | 75% 13% | Jun Apr | 54.4% | NA NA | NA NA | | |

Data source: Monthly aggregate and case-based data reported by Member States to WHO/Europe and/or EUVAC.NET.

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

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

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 years 2010 and 2011.



Table 3. Classification of reported suspected rubella cases, January—August 2011 (data as of 1 Oct 2011)

| Country | | | | Classification | | | | | | Reportir | ng | | llance Inc see page 4 fo | |
|--|----------------------------------|--|-------------------------------|----------------|----------|-----------------------|-----------|--------------------------|-------------------|------------|-------------------------|----------------------------------|-----------------------------|---------------------|
| | Total Population ¹ | Annualized Incidence Rate per 1 million population | Total confirmed Rubella | Lab confirmed | Epi-Link | Clinical ² | Discarded | Importation ³ | Complete- ness | Timeliness | Month of last report | Laboratory investigation rate | Detection rate | Source of infection |
| Albania | 3 184 761 | 1.6 | 5 | 1 | 0 | 4 | 0 | 0 | 100% | 75% | Aug | 0.0% | - | - |
| Andorra | 67 722 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% | 38% | Aug | - | 0.00 | - |
| Armenia | 3 099 249 | 0.0 | 0 | 0 | 0 | 0 | 7 | 0 | 100% | 100% | Mar | 93.8% | 0.23 | 228.6% |
| Austria | 8 407 841 | 0.1 | 2 | 0 | 0 | 2 | 0 | 1 | 75% | 25% | Jul | 50.0% | 0.00 | 100.0% |
| Azerbaijan | 9 035 054 | 0.0 | 0 | 0 | 0 | 0 | 6 | 0 | 100% | 75% | Aug | 100.0% | 0.07 | 100.0% |
| Belarus | 9 541 951 | 0.7 | 7 | 7 | 0 | 0 | 0 | 0 | 100% | 50% | Aug | 0.0% | 0.00 | 0.0% |
| Belgium | 10 741 473 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Bosnia and Herzegovina | 3 752 989 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Bulgaria | 7 450 501 | 4.4 | 33 | 1 | 0 | 32 | 0 | 0 | 75% | 25% | Jun | 0.0% | | - |
| Croatia | 4 402 729 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% | 25% | Jul | - | 0.00 | - |
| Cyprus | 888 534 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 88% | 63% | Jul | - | 0.00 | - |
| Czech Republic | 10 442 510 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 75% | 38% | Jul | - | 0.00 | - |
| Denmark | 5 491 148 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Estonia | 1 338 887 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% | 75% | Aug | - | 0.00 | - |
| Finland | 5 364 898 | 0.0 | 1 | 0 | 0 | 1 | 0 | 1 | 88% | 50% | Jul | 100.0% | 0.00 | 100.0% |
| France | 62 916 416 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Georgia | 4 184 100 | 11.5 | 48 | 2 | 0 | 46 | 0 | 0 | 100% | 75% | Aug | 0.0% | - | - |
| Germany | 81 935 976 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Greece | 11 203 121 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 63% | 25% | Jul | - | 0.00 | - |
| Hungary | 9 953 518 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 88% | 38% | Jul | - | 0.00 | - |
| Iceland | 335 063 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 88% | 50% | Jul | - | 0.00 | - |
| Ireland | 4 656 634 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 75% | 38% | Jun | - | 0.00 | - |
| Israel | 7 397 700 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% | 50% | Aug | - | 0.00 | - |
| Italy | 60 280 504 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 13% | 0% | Jan | - | 0.00 | - |
| Kazakhstan | 15 868 221 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Kyrgyzstan | 5 617 475 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Latvia | 2 231 358 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% | 13% | Jun | - | 0.00 | - |
| Lithuania | 3 228 015 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 75% | 38% | Jul | - | 0.00 | - |
| Luxembourg | 497 368 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 88% | 38% | Jul | - | 0.00 | - |
| Malta | 411 349 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 88% | 63% | Jul | - | 0.00 | - |
| Monaco | 37 785 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Montenegro | 626 067 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 50% | 38% | Apr | - | 0.00 | - |
| Netherlands | 16 710 858 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 38% | 0% | Jun | - | 0.00 | - |
| Norway | 4 895 307 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 63% | 25% | Jul | - | 0.00 | - |
| Poland | 37 995 500 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 13% | 0% | Apr | - | 0.00 | - |
| Portugal | 10 752 590 | 0.0 | 0 | 0 | 0 | 0 | 2 | 0 | 75% | 25% | Jul | 0.0% | 0.02 | 0.0% |
| Republic of Moldova | 3 549 163 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 38% | 13% | Mar | - | 0.00 | - |
| Romania | 21 107 516 | 0.0 | 0 | 0 | 0 | 0 | 90 | 0 | 38% | 0% | Jul | 98.9% | 0.43 | 100.0% |
| Russian Federation | 139 872 928 | - | - | - | - | - | - | - | - | - | No Report | 100.0% | - | - |
| San Marino | 29 332 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Serbia | 9 855 875 | | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Slovakia | 5 417 394 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 100% | 63% | Aug | - | 0.00 | - |
| Slovenia | 2 029 418 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 38% | 0% | Jun | - | 0.00 | - |
| Spain | 45 724 660 | 0.0 | 0 | 0 | 0 | 0 | 1 | 0 | 75% | 38% | Jul | 100.0% | 0.00 | 100.0% |
| Sweden | 9 335 463 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 88% | 50% | Jul | - | 0.00 | - |
| Switzerland | 7 622 415 | 0.0 | 0 | 0 | 0 | 0 | 22 | 0 | 88% | 25% | Jul | 90.9% | 0.29 | 9.1% |
| Tajikistan | 7 203 979 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| The former Yugoslav Republic of Macedonia | 2 044 005 | 2.0 | 4 | 0 | 0 | 4 | 0 | 0 | 100% | 75% | Aug | 0.0% | - | |
| Turkey | 76 582 128 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Turkmenistan | 5 243 476 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| Ukraine | 45 167 108 | - | - | - | - | - | - | - | - | - | No Report | - | - | - |
| United Kingdom | 62 230 620 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 75% | 38% | Jul | - | 0.00 | - |
| Uzbekistan | 28 110 756 | 0.7 | 20 | 0 | 0 | 20 | 0 | 0 | 13% | 0% | Mar | 0.0% | 0.00 | 0.0% |
| Total/Averages | 896 071 408 | 0.1 | 120 | 11 | 0 | 109 | 128 | 2 | 51.2% | 25.9% | | 51.9% | 0.00 | 47.6% |

Data source: Monthly aggregate and case-based data reported by Member States to WHO/Europe and/or EUVAC.NET.

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

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

 $^{^{\}rm 2}\,\text{Cases}$ with missing classification are classified as "Clinical".



Table 4. Measles and rubella laboratory test results, January—August 2011 (data as of 1 Oct 2011)

| | | Specin | Reporting | | | | | | | | |
|--|--------------------------|--------------------------|----------------------|----------------------------|--------------------------|--------------------------------|----------------------|-------------------------|------------------------|----------------------|-------------------------|
| Country | 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 | Month of last report |
| Albania | 24 | 0 (0.0) | 0 | 24 | 5 | 1 (20.0) | 0 | 4 | 100.0% | 87.5% | Aug |
| Andorra | | | | | | | | | | | No Lab |
| Armenia | 28 | 0 (0.0) | 0 | 28 | 28 | 0 (0.0) | 2 | 26 | 100.0% | 100.0% | Aug |
| Austria | 932 | 62 (7.0) | 0 | 870 | 3825 | 3 (0.0) | 0 | 3822 | 100.0% | 100.0% | Aug |
| Azerbaijan | 13 | 0 (0.0) | 0 | 13 | 13 | 0 (0.0) | 0 | 13 | 87.5% | 37.5% | Jul |
| Belarus | 369 | 56 (15.0) | 11 | 282 | 273 | 23 (8.0) | 3 | 247 | 100.0% | 100.0% | Aug |
| Belgium | 618 | 301 (49.0) | 12 | 296 | 47 | 5 (11.0) | 2 | 33 | 100.0% | 100.0% | Aug |
| Bosnia and Herzegovina | | | | | | | | | #DIV/0! | #DIV/0! | No Report |
| Bulgaria | 67 | 34 (51.0) | 0 | 33 | 42 | 2 (5.0) | 0 | 40 | 100.0% | 75.0% | Aug |
| Croatia | 9 | 7 (78.0) | 0 | 2 | 9 | 0 (0.0) | 0 | 9 | 100.0% | 100.0% | Aug |
| Cyprus | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100.0% | 100.0% | Aug |
| Czech Republic | 31 | 17 (55.0) | 6 | 8 | 50 | 7 (14.0) | 1 | 42 | 100.0% | 87.5% | Aug |
| Denmark | 1113 | 188 (17.0) | 26 | 899 | 452 | 17 (4.0) | 68 | 367 | 100.0% | 37.5% | Aug |
| Estonia | 137 | 7 (5.0) | 2 | 128 | 407 | 3 (1.0) | 0 | 404 | 100.0% | 100.0% | Aug |
| Finland | 1138 | 124 (11.0) | 0 | 1013 | 397 | 7 (2.0) | 0 | 390 | 100.0% | 75.0% | Aug |
| France | 2848 | 1958 (69.0) | 12 | 878 | 0 | 0 | 0 | 0 | 100.0% | 62.5% | Aug |
| Georgia | 33 | 5 (15.0) | 0 | 28 | 35 | 4 (11.0) | 4 | 27 | 100.0% | 50.0% | Aug |
| Germany | 1008 | 649 (64.0) | 4 | 355 | 69 | 4 (6.0) | 3 | 62 | 100.0% | 100.0% | Aug |
| Greece | 115 | 25 (22.0) | 0 | 90 | 193 | 45 (23.0) | 0 | 148 | 100.0% | 37.5% | Aug |
| Hungary | 44 | 0 (0.0) | 0 | 44 | 271 | 6 (2.0) | 1 | 264 | 100.0% | 100.0% | Aug |
| Iceland | 38 | 0 (0.0) | 0 | 38 | 61 | 0 (0.0) | 0 | 61 | 100.0% | 62.5% | Aug |
| Ireland | 327 | 99 (30.0) | 17 | 211 | 1149 | 3 (0.0) | 13 | 1133 | 100.0% | 75.0% | Aug |
| Israel | 83 | 17 (20.0) | 0 | 66 | 479 | 47 (10.0) | 0 | 432 | 100.0% | 87.5% | Aug |
| Italy | 00 | FO (CO O) | 0 | 0.4 | 0.4 | 0 (0 0) | | 01 | #DIV/0! | #DIV/0! | No Report |
| Kazakhstan | 83 | 52 (63.0) | 3 | 24 | 24 | 0 (0.0) | 2 | 21 | 100.0% | 75.0% | Aug |
| Kyrgyzstan | 835 | 242 (29.0) | 8 | 583 | 746 | 6 (1.0) | 16 | 722 | 100.0% | 75.0% 75.0% | Aug |
| Latvia Lithuania | 182 10 | 2 (1.0) | 1 | 179 3 | 182 | 3 (2.0) | 2 | 177 | 100.0% | | Aug |
| | | 6 (60.0) | 1 | | 9 | 0 (0.0) | 0 | 9 | 100.0% | 100.0% | Aug |
| Luxembourg Malta | 97 5 | 10 (10.0) 4 (80.0) | 0 | 87 1 | 34 985 | 1 (3.0) | 0 | 32 979 | 100.0% | 100.0% | Aug |
| Monaco | 5 | 4 (60.0) | U | ı | 960 | 6 (1.0) | U | 979 | 100.0% | 100.0% | Aug No Lab |
| Montenegro | | | | | | | | | | | No Lab |
| Netherlands | 116 | 49 (42.0) | 0 | 67 | 115 | 3 (3.0) | 0 | 112 | 100.0% | 62.5% | Aug |
| Norway | 217 | 78 (36.0) | 1 | 138 | 31 | 1 (3.0) | 1 | 29 | 100.0% | | Aug |
| Poland | 55 | 30 (55.0) | 2 | 23 | 40 | 5 (13.0) | 1 | 34 | 100.0% | 100.0% | Aug |
| Portugal | 13 | 3 (23.0) | 0 | 8 | 0 | 0 | 0 | 0 | 100.0% | 100.0% | Aug |
| Republic of Moldova | 11 | 0 (0.0) | 0 | 11 | 11 | 0 (0.0) | 0 | 11 | 100.0% | 87.5% | Aug |
| Romania | 1526 | 1097 (72.0) | 22 | 407 | 463 | 47 (10.0) | 12 | 404 | 100.0% | 100.0% | Aug |
| Russian Federation | 2804 | 368 (13.0) | 7 | 2429 | 2507 | 246 (10.0) | 7 | 2254 | 100.0% | 87.5% | Aug |
| San Marino | | (.0.0) | | | | 5 (. 0.0) | | , | . 55.570 | 21.370 | No Lab |
| Serbia | 212 | 118 (56.0) | 3 | 91 | 293 | 1 (0.0) | 0 | 292 | 100.0% | 37.5% | Aug |
| Slovakia | 10 | 2 (20.0) | 0 | 8 | 12 | 6 (50.0) | 0 | 6 | 100.0% | 87.5% | Aug |
| Slovenia | 136 | 41 (30.0) | 6 | 89 | 14 | 0 (0.0) | 0 | 14 | 100.0% | 100.0% | Aug |
| Spain | 3348 | 1718 (51.0) | 60 | 500 | 27 | 7 (26.0) | 0 | 12 | 100.0% | 87.5% | Aug |
| Sweden | | (= -) | | | | | | | #DIV/0! | #DIV/0! | No Report |
| Switzerland | 484 | 435 (90.0) | 20 | 29 | 12 | 12 (100.0) | 0 | 0 | 100.0% | 100.0% | Aug |
| Tajikistan | 16 | 1 (6.0) | 0 | 15 | 16 | 0 (0.0) | 0 | 16 | 75.0% | 25.0% | Jul |
| The former Yugoslav Republic of Macedonia | 173 | 52 (30.0) | 18 | 103 | 105 | 0 (0.0) | 2 | 103 | 100.0% | 25.0% | Aug |
| Turkey | 5911 | 140 (2.0) | 86 | 5685 | 5274 | 217 (4.0) | 277 | 4780 | 100.0% | 75.0% | Aug |
| Turkmenistan | 37 | 0 (0.0) | 2 | 35 | 35 | 0 (0.0) | 0 | 35 | 100.0% | 62.5% | Aug |
| Ukraine | 527 | 69 (13.0) | 3 | 455 | 1014 | 608 (60.0) | 10 | 396 | 100.0% | 100.0% | Aug |
| United Kingdom | 3296 | 867 (26.0) | 0 | 2429 | 612 | 7 (1.0) | 0 | 605 | 100.0% | 62.5% | Aug |
| Uzbekistan | 231 | 168 (73.0) | 13 | 50 | 69 | 1 (1.0) | 3 | 65 | 100.0% | 50.0% | Aug |
| Total / Average | 29310 | 9101 (31%) | 346 | 18755 | 20435 | 1354 (7%) | 431 | 18632 | 99.2% | 79.3% | - 3 |
| *Specimen based data are | | • • | | | | | | | | | |

*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 lab data provided by laboratories of the regional measles and rubella lab network.



| Table 5: Classificatio | sification of AFP cases, surveillance performance and weekly reporting to WHO | | | | | | | | | | | O EURO by country, 2010-2011, WHO European Region | | | | | | | | | | | | | | |
|---|---|--|---|----------------------------|---------------------|----------|-----------|------------------|--------------|------------------------------------|---------------------------------|---|------------------------|------------------------------------|----------------------------|---------------------|---------|-----------|------------------|-----------|------------------------------------|---------------------------------|--------------------------|-----------------------|--------------|---------------------|
| | 2010 (1-53 weeks) | | | | | | | | | | | 2011 (1-39 weeks) | | | | | | | | | | | | | | |
| | | der | S ₂ | | Cl | assifica | ion | | | | nder age | ്യ Classificaion | | | | | | Rates | | F | Reportin | g | | | | |
| Countries | AFP Cases un 15 year of ag | AFP Cases¹ AFP cases und 15 year of ag | AFP Cases¹ AFP cases under 15 year of age | Hot AFP Cases ² | Polio Compatible | Pending | Discarded | Wild Polio cases | VDPV/VAPP | Non polio AFP rate ³ | Adequate Stool collection | Surv. Index ⁵ | AFP Cases ¹ | AFP cases under 15 years of age | Hot AFP Cases ² | Polio Compatible | Pending | Discarded | Wild Polio cases | VDPV/VAPP | Non polio AFP rate ³ | Adequate Stool collection | Surv. Index ⁵ | % Completenes s | % Timeliness | Week of last report |
| Albania | 13 | 13 | 0 | 0 | 0 | 13 | 0 | 0 | 1.79 | 100.0 | 1.00 | 3 | 3 | 0 | 0 | 2 | 1 | 0 | 0 | 0.18 | 100.0 | 0.2 | 82.0 | 35.0 | 37 | |
| 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 | 0.0 | 90.0 | 17.0 | 36 | |
| Armenia | 13 | 13 | 1 | 0 | 0 | 13 | 0 | 0 | 2.08 | 61.5 | 0.62 | 17 | 17 | 2 | 0 | 7 | 10 | 0 | 0 | 2.07 | 88.2 | 0.9 | 97.0 | 69.0 | 39 | |
| Austria | 3 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0.24 | 0.0 | 0.00 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0.11 | 0.0 | 0.1 | 95.0 | 30.0 | 38 | |
| Azerbaijan | 29 | 29 | 0 | 0 | 0 | 29 | 0 | 0 | 1.36 | 100.0 | 1.00 | 29 | 29 | 0 | 0 | 8 | 21 | 0 | 0 | 1.27 | 96.6 | 1.0 | 87.0 | 84.0 | 39 | |
| Belarus | 41 | 41 | 2 | 0 | 0 | 41 | 0 | 0 | 2.92 | 92.7 | 0.98 | 33 | 33 | 2 | 0 | 15 | 18 | 0 | 0 | 1.67 | 78.8 | 0.9 | 47.0 | 48.0 | 37 | |
| Belgium | 3 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0.17 | 0.0 | 0.06 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0.07 | 0.0 | 0.0 | 62.0 | 38.0 | 32 | |
| Bosnia and Herzegovina | 6 | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 1.05 | 66.7 | 0.83 | 5 | 5 | 1 | 0 | 4 | 1 | 0 | 0 | 0.23 | 40.0 | 0.1 | 87.0 | 56.0 | 38 | |
| Bulgaria | 13 | 13 | 2 | 0 | 0 | 13 | 0 | 0 | 1.28 | 92.3 | 0.92 | 10 | 10 | 0 | 0 | 8 | 2 | 0 | 0 | 0.26 | 90.0 | 0.3 | 35.0 | 33.0 | 39 | |
| Croatia | 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 | 0.0 | 90.0 | 20.0 | 36 | |
| Cyprus | 7 | 7 | 0 | 0 | 0 | 7 | 0 | 0 | 4.56 | 85.7 | 0.86 | 2 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | | 100.0 | 0.0 | 90.0 | 92.0 | 37 | |
| Czech Republic | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0.14 | 100.0 | 0.14 | 4 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0.35 | 100.0 | 0.4 | 75.0 | 71.0 | 38 | |
| Estonia | 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 | 0.0 | 87.0 | 89.0 | 39 | |
| Georgia | 7 | 7 | 0 | 0 | 0 | 7 | 0 | 0 | 0.99 | 100.0 | 0.99 | 9 | 9 | 1 | 0 | 2 | 7 | 0 | 0 | 1.31 | 100.0 | 1.0 | 90.0 | 92.0 | 38 | |
| Germany | 11 | 10 | 0 | 0 | 0 | 11 | 0 | 0 | 0.10 | 10.0 | 0.03 | 10 | 40 | | | 4.0 | | | | 0.00 | 70.0 | | | 50.0 | 00 | |
| Greece | 20 | 20 | 1 | 0 | 0 | 20 | 0 | 0 | 1.26 | 40.0 | 0.60 | 19 | 19 | 2 | 0 | 19 | 0 | 0 | 0 | 0.00 | 78.9 | 0.0 | 60.0 | 56.0 | 39 | |
| Hungary | 13 | 13 | 0 | 0 | 0 | 13 | 0 | 0 | 0.88 | 38.5 | 0.54 | 6 | 6 | 0 | 0 | 4 | 2 | 0 | 0 | 0.18 | 16.7 | 0.1 | 90.0 | 58.0 | 37 | |
| Ireland | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0.21 | 50.0 | 0.10 | 6 | 6 | 0 | 0 | 3 | 3 | 0 | 0 | 0.40 | 16.7 | 0.2 | 75.0 | 23.0 | 30 | |
| Israel | 53 | 53 | 0 | 0 | 0 | 11 53 | 0 | 0 | 0.55 0.62 | 0.0 58.5 | 0.15 | 10 | 9 | 0 | 0 | 9 | 35 | 0 | 0 | 0.64 | 11.1 56.8 | 0.1 | 75.0 7.0 | 76.0 7.0 | 39 | |
| Italy Kazakhstan* | 113 | 112 | 4 | 0 | 0 | 112 | 1 | 0 | 2.98 | 99.1 | 0.99 | 49 | 49 | 0 | 0 | 26 | 23 | 0 | 0 | 0.78 | 98.0 | 0.8 | 20.0 | 17.0 | 25 | |
| Kyrgyzstan | 68 | 64 | 0 | 0 | 0 | 68 | 0 | 0 | 4.22 | 96.9 | 1.00 | 41 | 38 | 0 | 0 | 10 | 31 | 0 | 0 | | 100.0 | 1.0 | 15.0 | 15.0 | 38 | |
| Latvia | 5 | 5 | 0 | 0 | 0 | 5 | 0 | 0 | 1.61 | 100.0 | 1.00 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | | 100.0 | 0.0 | 90.0 | 82.0 | 39 | |
| Lithuania | 10 | 10 | 0 | 0 | 0 | 10 | 0 | 0 | 2.10 | 100.0 | 1.00 | 10 | 10 | 0 | 0 | 0 | 10 | 0 | 0 | | 100.0 | 1.0 | 95.0 | 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 | 0.0 | 87.0 | 12.0 | 35 | |
| Montenegro | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0.83 | 100.0 | 0.83 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1.09 | 0.0 | 1.0 | 85.0 | 87.0 | 39 | |
| Norway | 9 | 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0.99 | 55.6 | 0.77 | 6 | 6 | 0 | 0 | 4 | 2 | 0 | 0 | 0.29 | 16.7 | 0.2 | 77.0 | 23.0 | 34 | |
| Poland | 47 | 47 | 0 | 0 | 0 | 46 | 0 | 1 | 0.82 | 72.3 | 0.68 | 28 | 28 | 2 | 0 | 10 | 18 | 0 | 0 | 0.42 | 78.6 | 0.4 | 95.0 | 76.0 | 38 | |
| Portugal | 8 | 8 | 0 | 0 | 0 | 8 | 0 | 0 | 0.49 | 50.0 | 0.31 | 4 | 4 | 0 | 0 | 1 | 3 | 0 | 0 | 0.24 | 75.0 | 0.2 | 65.0 | 2.0 | 26 | |
| Republic of Moldova | 15 | 15 | 3 | 0 | 0 | 15 | 0 | 0 | 2.52 | 73.3 | 0.87 | 7 | 7 | 0 | 0 | 4 | 3 | 0 | 0 | 0.66 | 100.0 | 0.7 | 87.0 | 89.0 | 38 | |
| Romania | 16 | 16 | 1 | 0 | 0 | 16 | 0 | 0 | 0.50 | 100.0 | 0.50 | 15 | 15 | 0 | 0 | 2 | 13 | 0 | 0 | 0.53 | 100.0 | 0.5 | 87.0 | 84.0 | 39 | |
| Russian Federation* | 397 | 390 | 68 | 0 | 0 | 378 | 14 | 5 | 1.80 | 94.9 | 0.95 | 287 | 286 | 23 | 0 | 93 | 194 | 0 | 0 | 1.19 | 92.3 | 1.1 | 77.0 | 79.0 | 39 | |
| Serbia | 20 | 20 | 0 | 0 | 0 | 20 | 0 | 0 | 1.15 | 90.0 | 0.95 | 6 | 6 | 1 | 0 | 3 | 3 | 0 | 0 | 0.23 | 83.3 | 0.2 | 82.0 | 82.0 | 38 | |
| Slovakia | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0.12 | 0.0 | 0.00 | 2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0.32 | 100.0 | 0.3 | 72.0 | 64.0 | 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 | 0.0 | 95.0 | 74.0 | 39 | |
| Spain | 31 | 31 | 2 | 0 | 0 | 31 | 0 | 0 | 0.46 | | | 18 | 18 | 0 | 0 | 4 | 14 | 0 | 0 | 0.26 | 22.2 | 0.1 | 95.0 | 66.0 | 38 | |
| Switzerland | 9 | 9 | 0 | 0 | 0 | 9 | 0 | 0 | 0.78 | | 0.43 | 4 | 3 | 0 | 0 | 0 | 4 | 0 | 0 | 0.45 | 66.7 | 0.3 | 80.0 | 43.0 | 37 | |
| Tajikistan* The former Yugoslav Republic of | 712 7 | 585 7 | 0 | 58 0 | 0 | 193 7 | 460 0 | 0 | 7.50 1.95 | 100.0 | 1.00 | 3 | 38 | 1 | 0 | 9 | 2 | 0 | 0 | 0.74 | 94.7 | 0.7 | | 71.0 87.0 | 38 | |
| Macadonia Turkey | 221 | 215 | 6 | 0 | 0 | 240 | 0 | 2 | 1.10 | 74.0 | 0.79 | 142 | 142 | 2 | 0 | 33 | 109 | 0 | 0 | 0.71 | 82.4 | 0.6 | 87.0 | 89.0 | 39 | |
| Turkmenistan* | 50 | 50 | 0 | 0 | 0 | 46 | 3 | 1 | 3.06 | 100.0 | | 24 | 24 | 0 | 0 | 5 | 19 | 0 | 0 | | 100.0 | 1.6 | 50.0 | 51.0 | 38 | |
| Ukraine | 130 | 125 | 22 | 0 | 0 | 129 | 0 | 1 | 2.04 | 96.0 | | | 91 | 19 | 0 | 24 | 67 | 0 | 0 | 1.38 | 97.8 | 1.0 | | 84.0 | 37 | |
| Uzbekistan | 146 | 132 | 4 | 0 | 0 | 146 | 0 | 0 | 1.84 | 97.7 | 0.98 | | 157 | 3 | 0 | 47 | 113 | 0 | 0 | 1.86 | 96.2 | 1.0 | | 69.0 | 39 | |
| Average/Total | 2263 | 2098 | 116 | 58 | 0 | 1737 | 478 | 11 | 1.66 | 86.00 | 0.89 | | 1127 | 60 | 0 | 360 | 779 | 0 | 0 | 0.76 | 87.00 | 0.7 | 75.0 | 56.0 | | |
| AFP case of all ages (Denmark, | | | | | | | | | weden and l | Jnited Kingd | om do not re | port AFF | cases. H | ligh qua | lity surve | eillance | | | | | | | | | | |

Contact us: Vaccine-preventable Diseases and Immunization Programme , WHO Regional Office for Europe

Tel.: +45 39 17 1331' E-mail: vaccine@euro.who.int

Web site: http://www.euro.who.int @ World Health Organization, Regional Office for Europe, 2011.

Page No. 9 of 9 No. 18 (October 2011)

⁽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).

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

two stool samples collected with 14 days and 48 hours apart.

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