

A monthly summary of the epidemiological data on selected Vaccine-preventable diseases in the European Region

Table 1: Reported measles cases for the period October 2016 — September 2017 (data as of 08 November 2017)

Country	Total Population in 2017 ¹	Incidence Rate Oct 16 - Sep 17 (per 1 million population) ²	Total measles cases	Month and year of rash onset												Month & year of last report
				Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	
Albania	2 911 428	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Andorra	68 727	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Armenia	3 031 670	0.0	0	0	0	0	0	0	0	0	0	-	0	0	0	Sep-17
Austria	8 592 400	10.6	91	3	1	4	33	29	7	2	7	0	2	2	1	Sep-17
Azerbaijan	9 973 697	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Belarus	9 458 535	0.7	7	5	1	0	0	0	1	0	0	0	0	0	0	Sep-17
Belgium	11 443 830	32.2	368	0	2	3	27	79	147	35	23	33	15	1	3	Sep-17
Bosnia and Herzegovina	3 792 759	5.8	22	-	-	-	2	7	2	3	-	2	3	1	2	Sep-17
Bulgaria	7 045 259	23.7	167	0	0	0	0	0	23	42	57	39	6	0	0	Sep-17
Croatia	4 209 815	1.7	7	0	0	0	2	5	0	0	0	0	0	0	0	Sep-17
Cyprus	1 187 575	2.5	3	0	0	0	0	0	0	0	2	1	0	0	0	Sep-17
Czech Republic	10 555 130	12.9	136	0	1	0	0	3	34	58	36	3	1	0	0	Sep-17
Denmark	5 711 837	0.9	5	0	0	1	0	0	1	0	0	0	0	3	0	Sep-17
Estonia	1 305 755	0.8	1	0	0	0	0	0	0	0	1	0	0	0	0	Sep-17
Finland	5 541 274	2.3	13	0	0	3	0	0	0	0	0	1	3	6	0	Sep-17
France	64 938 716	6.7	433	2	2	4	34	52	49	61	116	42	38	15	18	Sep-17
Georgia	3 972 532	6.0	24	0	2	0	0	0	0	2	0	1	1	9	9	Sep-17
Germany	80 636 124	11.8	954	16	31	11	89	176	192	189	125	39	46	32	8	Sep-17
Greece	10 892 931	19.1	208	0	0	0	0	0	0	0	3	2	13	93	97	Sep-17
Hungary	9 787 905	3.5	34	0	0	0	1	11	3	0	0	0	9	10	0	Sep-17
Iceland	334 303	6.0	2	0	0	0	0	0	2	0	0	0	0	0	0	Sep-17
Ireland	4 749 153	1.3	6	0	0	0	0	1	1	1	0	0	1	0	2	Sep-17
Israel	8 323 248	1.8	15	-	0	0	0	0	-	-	7	8	0	-	-	Jul-17
Italy	59 797 978	82.4	4926	79	83	89	287	462	898	803	730	589	532	230	144	Sep-17
Kazakhstan	18 064 470	0.1	2	0	0	0	0	0	0	-	1	1	0	0	0	Sep-17
Kyrgyzstan	6 124 945	0.2	1	0	0	-	0	1	0	0	0	0	0	0	0	Sep-17
Latvia	1 944 565	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Lithuania	2 830 582	0.7	2	0	0	0	0	0	1	0	0	1	0	0	0	Sep-17
Luxembourg	584 103	5.1	3	0	0	0	0	0	3	0	0	0	0	0	0	Sep-17
Malta	420 521	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Monaco	38 010	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Sep-17
Montenegro	626 250	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Netherlands	17 032 845	0.9	15	0	0	4	0	0	0	2	6	2	1	0	0	Sep-17
Norway	5 330 800	0.2	1	0	0	0	0	0	0	0	0	0	1	0	0	Sep-17
Poland	38 563 573	1.7	64	21	7	7	6	2	4	5	5	5	1	1	0	Sep-17
Portugal	10 264 797	3.3	34	0	0	0	0	2	10	18	4	0	0	0	0	Sep-17
Republic of Moldova	4 054 640	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Romania	19 237 513	252.4	4856	426	614	506	484	852	1325	100	156	100	100	102	91	Sep-17
Russian Federation	143 375 006	2.4	350	21	52	23	17	13	17	14	49	52	41	27	24	Sep-17
San Marino	32 104	0.0	0	-	-	-	0	0	0	0	0	0	0	0	0	Sep-17
Serbia	8 776 940	2.7	24	0	5	8	0	6	0	0	4	1	0	0	0	Sep-17
Slovakia	5 432 157	0.4	2	0	0	0	0	0	0	2	0	0	0	0	0	Sep-17
Slovenia	2 071 252	2.9	6	0	0	0	2	4	0	0	0	0	0	0	0	Sep-17
Spain	46 070 146	3.5	163	2	6	2	10	29	22	10	39	31	5	6	1	Sep-17
Sweden	9 920 624	2.8	28	0	0	0	2	8	8	3	3	0	0	2	2	Sep-17
Switzerland	8 454 083	13.5	114	2	4	12	16	26	17	10	0	0	1	10	16	Sep-17
Tajikistan	8 858 115	77.3	685	1	24	11	44	67	97	228	149	51	11	2	0	Sep-17
The former Yugoslav Republic of Macedonia	2 083 308	5.3	11	0	0	0	0	0	0	0	0	0	0	-	11	Sep-17
Turkey	80 417 526	0.2	19	0	-	-	1	0	4	14	0	0	-	-	-	Jun-17
Turkmenistan	5 502 586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Ukraine	44 405 055	43.6	1937	8	44	24	25	14	43	89	311	461	428	242	248	Sep-17
United Kingdom	65 511 098	3.1	202	37	14	1	10	1	8	17	35	27	22	14	16	Sep-17
Uzbekistan	30 690 914	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Total/Averages	914 981 109	17.42	15941	623	893	713	1092	1850	2919	1708	1869	1492	1281	808	693	

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy.

¹ Source: "World Population Prospects: The 2015 Revision", New York, United Nations.

² Incidence not meeting the target (<1) is highlighted in red.

Member States submitting aggregate data: Bosnia and Herzegovina, Kazakhstan, Republic of Moldova, San Marino, Serbia, the former Yugoslav Republic of Macedonia, Turkmenistan, Ukraine.

For tables 1-4, the reporting of these data by year and month are based on cases with disease onset date during the above 12-month period and corresponding month. Where the disease onset date was unavailable, cases with the date of notification reported during these respective time periods were included as date of onset. These reports produced by national or partner agencies may differ if other dates (e.g. date of case reporting) were used.

Table 2: Reported rubella cases for the period October 2016 — September 2017 (data as of 08 November 2017)

Country	Total Population in 2017 ¹	Incidence Rate Oct 16 - Sep 17 (per 1 million population) ²	Total rubella cases	Month and year of rash onset												Month & year of last report
				Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	
Albania	2 911 428	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Andorra	68 727	0.0	0	0	0	0	0	0	0	0	0	-	0	0	0	Sep-17
Armenia	3 031 670	0.0	0	0	0	0	0	0	0	0	0	-	0	0	0	Sep-17
Austria	8 592 400	3.0	26	0	0	0	0	6	18	1	1	0	0	0	0	Sep-17
Azerbaijan	9 973 697	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Belarus	9 458 535	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Belgium ³	11 443 830	-	-	-	-	-	-	-	-	-	-	-	-	-	-	See footnote
Bosnia and Herzegovina	3 792 759	0.3	1	-	-	-	0	0	-	0	-	0	0	1	0	Sep-17
Bulgaria	7 045 259	0.3	2	0	1	1	0	0	0	0	0	0	0	0	0	Sep-17
Croatia	4 209 815	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Cyprus	1 187 575	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Czech Republic	10 555 130	0.2	2	0	0	0	0	0	1	1	0	0	0	0	0	Sep-17
Denmark ³	5 711 837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	See footnote
Estonia	1 305 755	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Finland	5 541 274	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
France ³	64 938 716	-	-	-	-	-	-	-	-	-	-	-	-	-	-	See footnote
Georgia	3 972 532	1.5	6	1	0	1	1	1	0	0	0	1	1	0	0	Sep-17
Germany	80 636 124	0.9	72	5	7	4	6	4	7	12	7	7	5	5	3	Sep-17
Greece	10 892 931	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Hungary	9 787 905	0.0	0	0	0	0	0	-	-	0	0	0	0	0	0	Sep-17
Iceland	334 303	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Ireland	4 749 153	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Israel	8 323 248	0.0	0	-	0	0	0	0	-	-	0	0	0	-	-	Jul-17
Italy	59 797 978	1.1	64	2	4	2	3	8	11	12	12	7	1	0	2	Sep-17
Kazakhstan	18 064 470	0.1	1	0	1	0	0	0	0	-	0	0	0	0	0	Sep-17
Kyrgyzstan	6 124 945	0.3	2	0	0	-	0	1	1	0	0	0	0	0	0	Sep-17
Latvia	1 944 565	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Lithuania	2 830 582	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Luxembourg	584 103	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Malta	420 521	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Monaco	38 010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Montenegro	626 250	0.0	0	0	0	0	0	0	0	0	0	0	0	0	-	Aug-17
Netherlands	17 032 845	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Norway	5 330 800	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Poland	38 563 573	20.5	789	81	64	76	49	39	45	43	114	44	92	74	68	Sep-17
Portugal	10 264 797	0.5	5	0	1	0	0	1	1	0	0	0	0	0	2	Sep-17
Republic of Moldova	4 054 640	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Romania	19 237 513	0.6	12	1	2	2	0	2	-	1	2	0	1	1	0	Sep-17
Russian Federation	143 375 006	0.0	7	0	0	1	0	0	1	1	2	0	1	1	0	Sep-17
San Marino	32 104	-	-	-	-	-	0	0	0	0	0	0	0	0	0	Sep-17
Serbia	8 776 940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Slovakia	5 432 157	0.2	1	0	0	0	0	0	1	0	0	0	0	0	0	Sep-17
Slovenia	2 071 252	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Spain	46 070 146	0.0	1	0	0	0	0	0	0	0	0	0	1	0	0	Sep-17
Sweden	9 920 624	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Switzerland	8 454 083	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	Sep-17
Tajikistan	8 858 115	0.1	1	0	0	0	1	0	-	0	0	0	0	0	0	Sep-17
The former Yugoslav Republic of Macedonia	2 083 308	0.0	0	0	0	0	0	0	0	0	0	0	0	-	0	Sep-17
Turkey	80 417 526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Turkmenistan	5 502 586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Ukraine	44 405 055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
United Kingdom	65 511 098	0.0	2	0	1	0	0	0	0	1	0	0	0	0	0	Sep-17
Uzbekistan	30 690 914	0.0	1	0	-	0	0	0	0	0	1	0	0	0	0	Sep-17
Total/Averages	914 981 109	1.09	995	90	81	87	60	62	86	72	139	59	102	82	75	

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy.

¹ Source: "World Population Prospects: The 2015 Revision", New York, United Nations.

² Incidence not meeting the target (<1) is highlighted in red.

³ Belgium, Denmark, and France do not have comprehensive rubella surveillance systems.

Member States submitting aggregate data: Bosnia and Herzegovina, Kazakhstan, Republic of Moldova, San Marino, Serbia, the former Yugoslav Republic of Macedonia, Turkmenistan, Ukraine.

Table 3: Measles classification, reporting and surveillance performance, January — September 2017 (data as of 08 November 2017)

Country	Total Population in 2017 ¹	2016 (as of 08 November 2017)			2017														
		Incidence Rate (per 1 million population) ²	Total measles cases ³	Total measles death	Annualized Incidence Rate (per 1 million population) ²	Total measles cases ³	Classification			Discarded Measles	Imported cases	Measles Death	Reporting			Surveillance Indicators			
							Lab confirmed	Epi-Link	Clinically compatible ⁴				Completeness ⁵	Timeliness ⁵	Month & year of last report	Laboratory investigation rate ⁵	Rate of discarded cases ⁶	Origin of infection ⁵	Timeliness of investigation ⁵
Albania	2 911 428	0.0	0	-	0.0	0	0	0	0	0	0	0	100%	78%	Sep-17	-	0.00	-	-
Andorra	68 727	0.0	0	-	0.0	0	0	0	0	0	0	0	100%	67%	Sep-17	-	0.00	-	-
Armenia	3 031 670	0.7	2	0	0.0	0	0	0	0	48	0	0	89%	89%	Sep-17	100%	1.58	100%	98%
Austria	8 592 400	1.6	28	0	6.3	83	72	10	1	49	11	0	100%	100%	Sep-17	68%	0.57	95%	5%
Azerbaijan	9 973 697	0.0	0	0	0.0	0	0	0	0	69	0	0	100%	100%	Sep-17	100%	0.69	64%	61%
Belarus	9 458 535	1.6	29	0	0.0	1	1	0	0	224	1	0	100%	100%	Sep-17	100%	2.37	0%	0%
Belgium	11 443 830	0.4	5	0	23.8	363	0	0	363	0	0	0	100%	78%	Sep-17	0%	0.00	0	0
Bosnia and Herzegovina	3 792 759	11.9	45	0	4.4	22	0	0	22	0	0	0	89%	56%	Sep-17	0%	0.00	0	0
Bulgaria	7 045 259	0.1	1	0	17.7	167	87	67	13	3	1	1	89%	89%	Sep-17	95%	0.04	82%	100%
Croatia	4 209 815	0.0	4	0	1.2	7	7	0	0	1	0	0	100%	89%	Sep-17	100%	0.02	75%	0
Cyprus	1 187 575	0.0	0	-	0.6	3	3	0	0	0	2	0	100%	100%	Sep-17	100%	0.00	100%	0
Czech Republic	10 555 130	0.2	7	0	9.4	135	128	5	2	1	3	0	100%	100%	Sep-17	100%	0.01	99%	88%
Denmark	5 711 837	0.0	3	0	0.3	4	4	0	0	0	2	0	100%	100%	Sep-17	100%	0.00	100%	0
Estonia	1 305 755	0.0	2	0	0.0	1	1	0	0	29	1	0	100%	100%	Sep-17	100%	2.22	3%	100%
Finland	5 541 274	0.5	5	0	0.7	10	10	0	0	0	5	0	100%	78%	Sep-17	100%	0.00	70%	0
France	64 938 716	1.0	79	0	4.6	425	275	70	80	0	26	1	100%	100%	Sep-17	93%	0.00	90%	0%
Georgia	3 972 532	3.5	14	0	4.0	22	15	4	3	30	1	0	100%	78%	Sep-17	92%	0.76	96%	96%
Germany	80 636 124	3.4	328	0	7.8	896	614	244	38	0	55	1	100%	100%	Sep-17	92%	0.00	87%	0
Greece	10 892 931	0.0	0	-	14.1	208	176	28	4	25	3	0	100%	100%	Sep-17	98%	0.23	1%	0
Hungary	9 787 905	0.0	0	0	2.3	34	34	0	0	32	4	0	100%	67%	Sep-17	100%	0.33	61%	92%
Iceland	334 303	0.0	1	0	2.2	2	2	0	0	0	1	0	89%	67%	Sep-17	100%	0.00	50%	100%
Ireland	4 749 153	8.4	43	0	0.9	6	1	0	5	0	0	0	100%	100%	Sep-17	50%	0.00	33%	67%
Israel	8 323 248	1.0	10	0	1.4	15	15	0	0	0	0	0	56%	33%	Jul-17	60%	0.00	0	60%
Italy	59 797 978	13.7	862	0	58.2	4675	3651	449	575	337	37	4	89%	89%	Sep-17	88%	0.56	91%	0%
Kazakhstan	18 064 470	6.1	110	0	0.1	2	0	1	1	0	0	0	89%	67%	Sep-17	0%	0.00	0	0
Kyrgyzstan	6 124 945	0.0	0	0	0.1	1	1	0	0	113	0	0	100%	89%	Sep-17	100%	1.84	100%	0
Latvia	1 944 565	0.0	0	-	0.0	0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Lithuania	2 830 582	7.8	22	0	0.0	2	2	0	0	0	2	0	100%	89%	Sep-17	100%	0.00	100%	50%
Luxembourg	584 103	0.0	0	-	1.3	3	3	0	0	0	2	0	100%	100%	Sep-17	100%	0.00	67%	100%
Malta	420 521	0.0	0	-	0.0	0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Monaco	38 010	-	-	-	0.0	0	0	0	0	0	0	0	11%	11%	Sep-17	-	0.00	-	-
Montenegro	626 250	0.0	0	-	0.0	0	0	0	0	1	0	0	100%	78%	Sep-17	100%	0.16	100%	100%
Netherlands	17 032 845	0.1	6	0	0.3	11	10	1	0	1	5	0	100%	89%	Sep-17	100%	0.01	100%	0
Norway	5 330 800	0.0	0	-	0.0	1	1	0	0	0	1	0	100%	100%	Sep-17	100%	0.00	100%	100%
Poland	38 563 573	2.4	138	0	0.4	29	23	2	4	0	7	0	100%	100%	Sep-17	89%	0.00	100%	100%
Portugal	10 264 797	0.0	0	0	2.3	34	29	0	5	218	2	1	100%	89%	Sep-17	92%	2.12	100%	66%
Republic of Moldova	4 054 640	0.0	0	-	0.0	0	0	0	0	0	0	0	100%	56%	Sep-17	-	0.00	-	-
Romania	19 237 513	126.2	2432	12	128.6	3310	1138	2167	5	0	12	10	100%	100%	Sep-17	99%	0.00	100%	100%
Russian Federation	143 375 006	1.1	179	0	1.3	254	247	6	1	1755	13	0	100%	56%	Sep-17	100%	1.22	100%	11%
San Marino	32 104	-	-	-	0.0	0	0	0	0	0	0	0	100%	11%	Sep-17	-	0.00	-	-
Serbia	8 776 940	1.6	14	0	0.9	11	2	0	9	0	0	0	100%	89%	Sep-17	0%	0.00	0	0
Slovakia	5 432 157	0.0	0	0	0.0	2	2	0	0	4	2	0	100%	100%	Sep-17	67%	0.07	100%	67%
Slovenia	2 071 252	0.0	1	0	1.8	6	6	0	0	0	1	0	100%	100%	Sep-17	100%	0.00	100%	100%
Spain	46 070 146	0.6	38	0	2.2	153	145	7	1	105	19	1	100%	89%	Sep-17	99%	0.23	46%	81%
Sweden	9 920 624	0.0	3	0	1.4	28	28	0	0	9	9	0	100%	100%	Sep-17	100%	0.09	100%	0
Switzerland	8 454 083	6.3	66	0	7.9	96	72	19	5	97	7	1	100%	100%	Sep-17	95%	1.15	48%	52%
Tajikistan	8 858 115	5.9	52	0	9.7	649	248	401	0	133	535	0	100%	78%	Sep-17	100%	1.50	79%	100%
The former Yugoslav Republic of Macedonia	2 083 308	0.0	0	-	4.0	11	11	0	0	0	0	0	89%	67%	Sep-17	0%	0.00	0	0
Turkey	80 417 526	0.1	9	0	0.2	19	14	4	1	0	0	0	67%	0%	Jun-17	93%	0.00	0	0
Turkmenistan	5 502 586	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report	-	-	-	-
Ukraine	44 405 055	2.0	90	0	31.4	1861	497	0	1364	0	0	0	100%	100%	Sep-17	0%	0.00	0	0
United Kingdom	65 511 098	8.1	571	1	1.2	150	150	0	0	1	45	0	100%	100%	Sep-17	100%	0.00	81%	5%
Uzbekistan	30 690 914	0.0	1	0	0.0	0	0	0	0	38	0	0	100%	44%	Sep-17	100%	0.12	97%	3%
Total/Averages	914 981 109	5.4	5200	13	10.6	13712	7725	3485	2502	3323	815	20	93.5%	80.3%		78.0%	0.36	76.9%	31.6%

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy.

¹ Source: "World Population Prospects: The 2015 Revision", New York, United Nations.

² Incidence not meeting the target (<1) and countries not reporting monthly measles data are highlighted in red. The imported measles cases are excluded from the numerator while calculating the incidence rate.

³ All confirmed measles cases regardless of origin.

⁴ Unless specified as laboratory confirmed or epi-linked, cases are classified as clinically compatible.

⁵ Target (>=80%) not achieving are highlighted in Red.

⁶ Discard rate (>=2) not achieving are highlighted in Red.

Member States submitting aggregate data: Bosnia and Herzegovina, Kazakhstan, Republic of Moldova, San Marino, Serbia, the former Yugoslav Republic of Macedonia, Turkmenistan, Ukraine.

Table 4: Rubella classification, reporting and surveillance performance, January — September 2017 (data as of 08 November 2017)

Country	Total Population in 2017 ¹	2016 (as of 08 November 2017)		2017													
		Incidence Rate (per 1 million population) ²	Total rubella cases ³	Annualized Incidence Rate (per 1 million population) ²	Total rubella cases ³	Classification					Reporting			Surveillance Indicators			
						Lab confirmed	Epi-Link	Clinically compatible ⁴	Discarded Rubella	Imported cases	Completeness ⁵	Timeliness ⁵	Month & year of last report	Laboratory investigation rate ⁵	Rate of discarded cases ⁵	Origin of infection ⁵	Timeliness of investigation ⁵
Albania	2 911 428	0.0	0	0.0	0	0	0	0	0	0	100%	78%	Sep-17	-	0.00	-	-
Andorra	68 727	0.0	0	0.0	0	0	0	0	0	0	89%	67%	Sep-17	-	0.00	-	-
Armenia	3 031 670	0.0	0	0.0	0	0	0	0	6	0	89%	89%	Sep-17	100%	0.20	100%	100%
Austria	8 592 400	0.3	3	2.2	26	23	1	2	0	1	100%	100%	Sep-17	96%	0.00	100%	8%
Azerbaijan	9 973 697	0.0	0	0.0	0	0	0	0	44	0	100%	100%	Sep-17	100%	0.44	0%	68%
Belarus	9 458 535	0.0	0	0.0	0	0	0	0	224	0	100%	78%	Sep-17	0%	2.37	0%	0%
Belgium ⁷	11 443 830	-	-	-	-	-	-	-	-	-	-	-	See footnote	-	-	-	-
Bosnia and Herzegovina	3 792 759	0.0	0	0.2	1	0	0	1	0	0	78%	44%	Sep-17	0%	0.00	0%	0%
Bulgaria	7 045 259	0.4	3	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Croatia	4 209 815	0.0	2	0.0	0	0	0	0	0	0	100%	67%	Sep-17	-	0.00	-	-
Cyprus	1 187 575	0.0	0	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Czech Republic	10 555 130	0.0	0	0.1	2	2	0	0	0	1	100%	100%	Sep-17	100%	0.00	50%	0%
Denmark ⁷	5 711 837	-	-	-	-	-	-	-	-	-	-	-	See footnote	-	-	-	-
Estonia	1 305 755	0.0	0	0.0	0	0	0	0	12	0	100%	100%	Sep-17	92%	0.92	58%	100%
Finland	5 541 274	0.0	0	0.0	0	0	0	0	0	0	100%	89%	Sep-17	-	0.00	-	-
France ⁷	64 938 716	-	-	-	-	-	-	-	-	-	-	-	See footnote	-	-	-	-
Georgia	3 972 532	3.0	12	0.8	4	1	0	3	49	0	100%	78%	Sep-17	96%	1.23	96%	98%
Germany	80 636 124	1.2	96	0.5	56	11	5	40	0	0	100%	100%	Sep-17	22%	0.00	41%	0%
Greece	10 892 931	0.0	0	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Hungary	9 787 905	0.0	0	0.0	0	0	0	0	7	0	78%	56%	Sep-17	100%	0.07	100%	86%
Iceland	334 303	0.0	0	0.0	0	0	0	0	0	0	100%	67%	Sep-17	-	0.00	-	-
Ireland	4 749 153	0.2	1	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Israel	8 323 248	0.1	1	0.0	0	0	0	0	0	0	56%	33%	Jul-17	-	0.00	-	-
Italy	59 797 978	0.5	30	0.7	56	27	4	25	23	0	100%	89%	Sep-17	83%	0.04	70%	0%
Kazakhstan	18 064 470	0.2	4	0.0	0	0	0	0	0	0	89%	67%	Sep-17	-	0.00	-	-
Kyrgyzstan	6 124 945	0.3	2	0.2	2	2	0	0	1	0	100%	89%	Sep-17	100%	0.02	100%	0%
Latvia	1 944 565	0.0	0	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Lithuania	2 830 582	0.0	0	0.0	0	0	0	0	0	0	100%	89%	Sep-17	-	0.00	-	-
Luxembourg	584 103	0.0	0	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Malta	420 521	0.0	0	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Monaco	38 010	-	-	-	-	-	-	-	-	-	-	-	No Report	-	-	-	-
Montenegro	626 250	0.0	0	0.0	0	0	0	0	0	0	89%	67%	Aug-17	-	0.00	-	-
Netherlands	17 032 845	0.0	0	0.0	0	0	0	0	0	0	100%	89%	Sep-17	-	0.00	-	-
Norway	5 330 800	0.0	0	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Poland	38 563 573	29.7	1144	11.0	568	0	0	568	0	0	100%	100%	Sep-17	0%	0.00	0%	0%
Portugal	10 264 797	0.8	8	0.3	4	0	0	4	8	0	100%	44%	Sep-17	58%	0.08	100%	58%
Republic of Moldova	4 054 640	0.0	0	0.0	0	0	0	0	0	0	100%	56%	Sep-17	-	0.00	-	-
Romania	19 237 513	0.7	13	0.3	7	4	0	3	0	0	78%	56%	Sep-17	71%	0.00	100%	100%
Russian Federation	143 375 006	0.2	37	0.0	6	6	0	0	0	0	100%	56%	Sep-17	100%	0.00	100%	50%
San Marino	32 104	-	-	0.0	0	0	0	0	0	0	100%	11%	Sep-17	-	0.00	-	-
Serbia	8 776 940	-	-	-	-	-	-	-	-	-	-	-	No Report	-	-	-	-
Slovakia	5 432 157	0.0	0	0.1	1	0	0	1	1	0	100%	100%	Sep-17	50%	0.02	50%	50%
Slovenia	2 071 252	0.0	0	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Spain	46 070 146	0.0	2	0.0	1	1	0	0	12	1	100%	100%	Sep-17	100%	0.03	100%	100%
Sweden	9 920 624	0.0	0	0.0	0	0	0	0	0	0	100%	100%	Sep-17	-	0.00	-	-
Switzerland	8 454 083	0.0	0	0.0	0	0	0	0	18	0	100%	100%	Sep-17	89%	0.21	0%	17%
Tajikistan	8 858 115	0.1	1	0.1	1	1	0	0	11	0	89%	67%	Sep-17	100%	0.12	100%	100%
The former Yugoslav Republic of Macedonia	2 083 308	0.0	0	0.0	0	0	0	0	0	0	89%	67%	Sep-17	-	0.00	-	-
Turkey	80 417 526	-	-	-	-	-	-	-	-	-	-	-	No Report	-	-	-	-
Turkmenistan	5 502 586	-	-	-	-	-	-	-	-	-	-	-	No Report	-	-	-	-
Ukraine	44 405 055	-	-	-	-	-	-	-	-	-	-	-	No Report	-	-	-	-
United Kingdom	65 511 098	0.0	2	0.0	1	1	0	0	0	1	100%	100%	Sep-17	100%	0.00	100%	100%
Uzbekistan	30 690 914	0.0	0	0.0	1	1	0	0	1	0	100%	44%	Sep-17	100%	0.00	100%	0%
Total/Averages	914 981 109	1.5	1361	0.6	737	80	10	647	417	4	83.0%	70.0%		24.8%	0.05	20.2%	13.4%

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy.

¹ Source: World Population Prospects: The 2015 Revision, New York, United Nations.

² Incidence not meeting the target (<1) and countries not reporting monthly rubella data are highlighted in red. The imported rubella cases are excluded from the numerator while calculating the incidence rate.

³ All confirmed rubella cases regardless of origin. ⁴ Unless specified as laboratory confirmed or epi-linked, cases are classified as clinically compatible.

⁵ Target (>=80%) not achieving are highlighted in Red. ⁶ Discard rate (>=2) not achieving are highlighted in Red.

⁷ Belgium, Denmark, and France do not have comprehensive rubella surveillance systems.

Member States submitting aggregate data: Bosnia and Herzegovina, Kazakhstan, Republic of Moldova, San Marino, Serbia, the former Yugoslav Republic of Macedonia, Turkmenistan, Ukraine.

Table 5: Measles and rubella laboratory test results, January — September 2017 (data as of 08 November 2017)

Country	Measles				Rubella				Reporting to CISID / MRLDMS		
	Total specimens tested ¹	Positive for measles (%) ¹	Genotypes reported to MeaNS ²	% sequencing reported within 60 days ²	Total specimens tested ¹	Positive for rubella (%) ¹	Genotypes reported to RubeNS ³	% sequencing reported within 60 days ³	% Completeness	% Timeliness	Month of last report
Albania	13	2 (15.0)	-	-	1	0 (0.0)	-	-	100%	78%	Sep-17
Andorra	-	-	-	-	-	-	-	-	-	-	No Lab
Armenia	76	0 (0.0)	-	-	76	0 (0.0)	-	-	-	-	Jul-17
Austria	1002	55 (5.0)	B3, D8, H1	93%	4031	20 (0.0)	-	-	100%	100%	Sep-17
Azerbaijan	109	0 (0.0)	-	-	119	0 (0.0)	-	-	100%	100%	Sep-17
Belarus	232	3 (1.0)	D8	100%	230	0 (0.0)	-	-	100%	100%	Sep-17
Belgium	694	239 (34.0)	B3, D8	16%	57	4 (7.0)	-	-	89%	44%	Sep-17
Bosnia and Herzegovina	2	(0.0)	-	-	2	(0.0)	-	-	33%	33%	Apr-17
Bulgaria	230	134 (58.0)	B3	0%	145	0 (0.0)	-	-	100%	89%	Sep-17
Croatia	-	-	-	-	-	-	-	-	-	-	No Report
Cyprus	319	4 (1.0)	-	-	364	2 (1.0)	-	-	100%	56%	Sep-17
Czech Republic	277	125 (45.0)	-	-	2	2 (100.0)	-	-	100%	89%	Sep-17
Denmark	541	19 (4.0)	D8	100%	40	0 (0.0)	-	-	100%	100%	Sep-17
Estonia	73	1 (1.0)	-	-	193	0 (0.0)	-	-	89%	89%	Sep-17
Finland	131	20 (15.0)	B3, D8	100%	114	1 (1.0)	-	-	100%	89%	Sep-17
France	602	248 (41.0)	B3, D8	95%	189	35 (19.0)	-	-	100%	44%	Sep-17
Georgia	44	1 (2.0)	-	-	43	1 (2.0)	-	-	56%	11%	May-17
Germany	-	-	B3, D8	7%	-	-	-	-	-	-	No Report
Greece	321	253 (79.0)	B3	15%	0	0	-	-	-	-	Sep-17
Hungary	597	96 (16.0)	-	-	214	0 (0.0)	-	-	100%	89%	Sep-17
Iceland	-	-	-	-	-	-	-	-	-	-	No Report
Ireland	548	16 (3.0)	B3	100%	1292	3 (0.0)	-	-	100%	100%	Sep-17
Israel	401	86 (21.0)	B3, D8	69%	415	96 (23.0)	-	-	100%	100%	Sep-17
Italy	7266	5000 (69.0)	B3, D8, H1	70%	2061	53 (3.0)	-	-	100%	89%	Sep-17
Kazakhstan	43	3 (7.0)	D8, H1	100%	41	0 (0.0)	-	-	100%	100%	Sep-17
Kyrgyzstan	-	-	-	-	-	-	-	-	-	-	No Report
Latvia	157	2 (1.0)	-	-	198	5 (3.0)	-	-	100%	89%	Sep-17
Lithuania	70	3 (4.0)	-	-	66	0 (0.0)	-	-	100%	100%	Sep-17
Luxembourg	73	3 (4.0)	D8	100%	2	0 (0.0)	-	-	100%	100%	Sep-17
Malta	34	0 (0.0)	-	-	559	0 (0.0)	-	-	100%	89%	Sep-17
Monaco	-	-	-	-	-	-	-	-	-	-	No Lab
Montenegro	-	-	-	-	-	-	-	-	-	-	No Lab
Netherlands	62	23 (37.0)	B3, D8	92%	39	39 (100.0)	-	-	100%	100%	Sep-17
Norway	-	-	D8	0%	-	-	-	-	-	-	No Report
Poland	-	-	B3, D8	90%	-	-	-	-	-	-	No Report
Portugal	447	55 (12.0)	B3, D8	100%	0	0	-	-	78%	44%	Sep-17
Republic of Moldova	47	0 (0.0)	-	-	47	0 (0.0)	-	-	89%	89%	Sep-17
Romania	3929	3083 (78.0)	B3, D8	96%	787	9 (1.0)	-	-	100%	100%	Sep-17
Russian Federation	3087	451 (15.0)	B3, D8, H1	91%	3053	23 (1.0)	1H	0%	100%	100%	Sep-17
San Marino	-	-	-	-	-	-	-	-	-	-	No Lab
Serbia	37	4 (11.0)	B3	27%	38	2 (5.0)	-	-	100%	100%	Sep-17
Slovakia	20	4 (20.0)	-	-	12	0 (0.0)	-	-	100%	89%	Sep-17
Slovenia	90	19 (21.0)	B3	75%	7	0 (0.0)	-	-	100%	100%	Sep-17
Spain	-	-	B3, D8	28%	-	-	-	-	-	-	No Report
Sweden	995	73 (7.0)	B3, D8	93%	1285	4 (0.0)	-	-	100%	78%	Sep-17
Switzerland	171	101 (59.0)	B3, D8	41%	1	1 (100.0)	-	-	100%	100%	Sep-17
Tajikistan	399	245 (61.0)	H1	100%	156	4 (3.0)	-	-	67%	67%	Sep-17
The former Yugoslav Republic of Macedonia	3	0 (0.0)	-	-	53	1 (2.0)	-	-	33%	11%	Apr-17
Turkey	766	22 (3.0)	D8	100%	657	13 (2.0)	-	-	44%	33%	Apr-17
Turkmenistan	93	0 (0.0)	-	-	93	0 (0.0)	-	-	33%	33%	Sep-17
Ukraine	1293	694 (54.0)	B3, D8	26%	350	25 (7.0)	-	-	100%	100%	Sep-17
United Kingdom	2142	224 (10.0)	B3, D8, D9	96%	1172	5 (0.0)	2B	0%	100%	44%	Sep-17
Uzbekistan	63	0 (0.0)	-	-	63	1 (2.0)	-	-	100%	89%	Sep-17
Total / Average	27499	11311 (41%)		71%	18267	349 (2%)		0%	71.5%	60.4%	

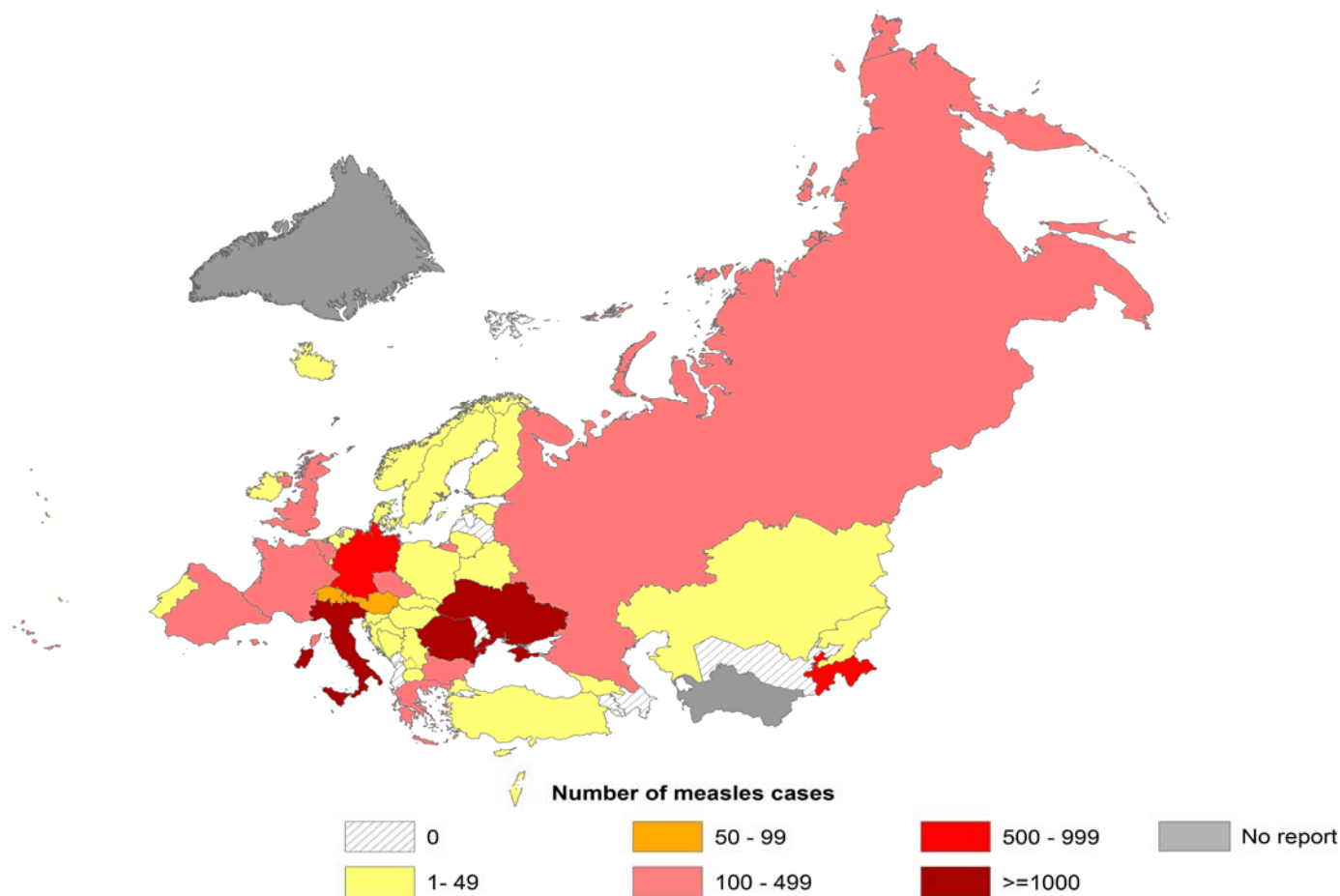
¹ Data source: Aggregated monthly data provided by regional measles and rubella laboratory network (MR Labnet) to WHO/Europe. Some countries are only reporting to specimen-based MR lab data management system (MR LDMS).

² MeaNS: <http://www.who-measles.org/>. Timeliness of sequence reporting relates to the time between specimen collection and reporting to MeaNS.

³ RubeNS: <http://www.who-rubella.org/>. Timeliness of sequence reporting relates to the time between specimen collection and reporting to RubeNS.

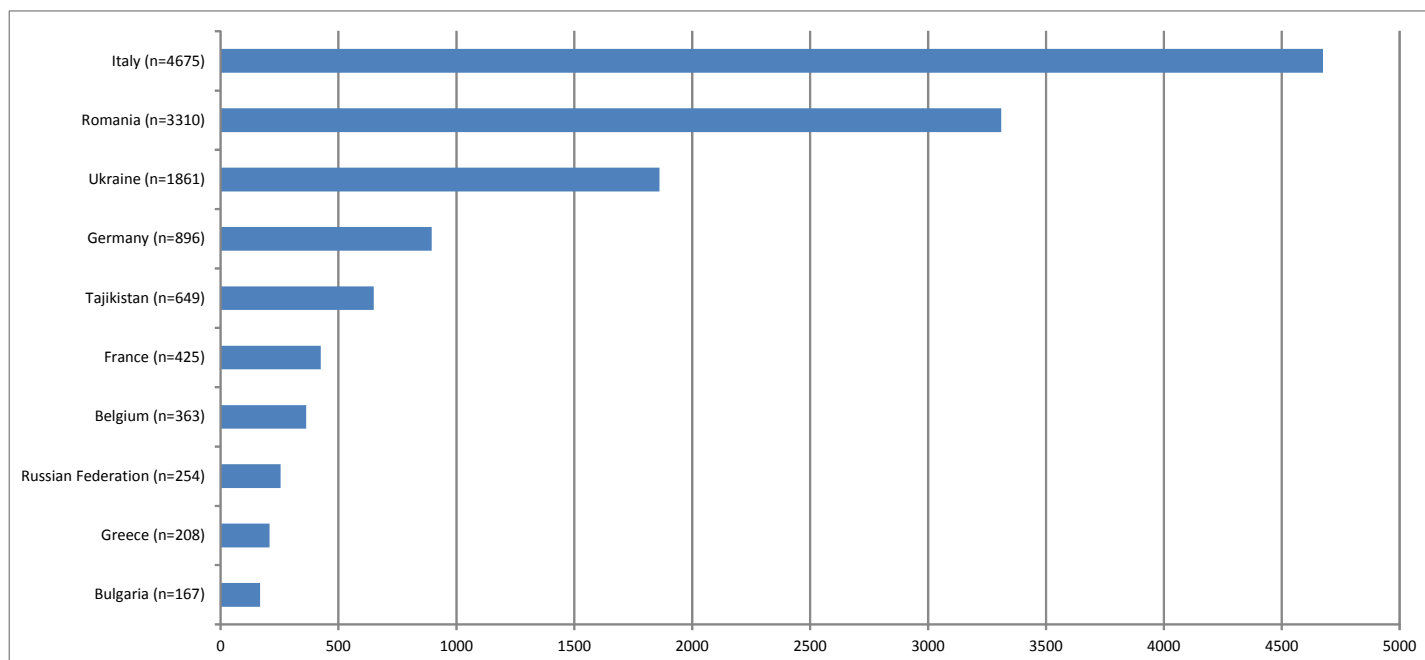
*Specimen based data are not population based, and should not be interpreted as indicators for epidemiological surveillance. Laboratories may have received more than 1 clinical sample or may have conducted more than 1 test for a given case reported in Table 1.

Figure 1: Map of Measles Cases in European Region, 2017 (n=13712) (data as of 08 November 2017)*



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement. © WHO 2017. All rights reserved.

Figure 2: Top 10 Countries with Measles Cases in European Region, 2017 (data as of 08 November 2017)*



*2017 measles cases reported in period from 01-January till 30-September.