

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

Table 1: Reported measles cases for the period November 2017 — October 2018 (data as of 30 November 2018)

Country	Total Population in 2018 ¹	Incidence Rate Nov 17 - Oct 18 (per 1 million population) ²	Total measles cases	Month and year of rash onset												Month & year of last report
				Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	
Albania	2 919 422	484.00	1413	5	3	63	164	345	359	245	134	45	13	17	20	Oct-18
Andorra	68 915	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Armenia	3 034 998	5.93	18	0	0	0	2	14	1	0	0	0	0	1	0	Oct-18
Austria	8 613 647	9.52	82	8	1	7	8	14	16	11	6	1	3	6	1	Oct-18
Azerbaijan	10 070 075	0.20	2	0	0	0	0	0	0	0	0	0	0	0	2	Oct-18
Belarus	9 429 102	23.86	225	0	0	0	17	41	53	58	13	23	12	7	1	Oct-18
Belgium	11 513 025	9.47	109	3	1	1	6	9	11	24	22	3	11	14	4	Oct-18
Bosnia and Herzegovina	3 782 297	24.59	93	3	0	5	7	14	13	34	13	4	0	0	0	Oct-18
Bulgaria	6 992 150	1.14	8	0	0	1	0	2	1	1	0	3	0	0	0	Oct-18
Croatia	4 194 538	5.48	23	0	0	0	0	0	1	2	16	3	1	0	0	Oct-18
Cyprus	1 198 198	12.52	15	0	1	5	7	2	0	0	0	0	0	0	0	Oct-18
Czech Republic	10 563 111	16.95	179	9	1	5	8	15	10	68	41	6	5	7	4	Oct-18
Denmark	5 732 713	1.05	6	0	0	0	0	3	0	0	0	0	1	2	0	Oct-18
Estonia	1 302 401	7.68	10	0	0	0	0	4	6	0	0	0	0	0	0	Oct-18
Finland	5 556 439	1.26	7	0	0	0	0	0	1	3	0	0	3	0	0	Oct-18
France	65 205 671	43.91	2863	11	65	237	515	760	620	250	190	81	29	37	68	Oct-18
Georgia	3 973 681	396.36	1575	13	60	125	159	158	221	253	211	163	60	47	105	Oct-18
Germany	80 560 850	6.77	545	12	19	29	34	62	100	89	102	42	25	26	5	Oct-18
Greece	10 871 762	261.41	2842	304	346	466	454	501	371	249	112	29	8	2	0	Oct-18
Hungary	9 754 429	1.33	13	0	0	2	5	6	0	0	0	0	0	0	0	Oct-18
Iceland	336 938	2.97	1	1	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Ireland	4 790 845	20.46	98	9	3	9	19	19	4	1	1	7	16	6	4	Oct-18
Israel	8 455 489	154.22	1304	0	0	0	0	9	34	35	74	75	136	319	622	Oct-18
Italy	59 788 104	42.68	2552	66	113	213	296	374	467	428	275	127	69	49	75	Oct-18
Kazakhstan	18 256 484	0.77	14	0	0	0	0	0	1	0	-	1	-	4	8	Oct-18
Kyrgyzstan	6 213 441	93.51	581	2	2	30	15	33	69	75	99	60	29	74	93	Oct-18
Latvia	1 935 780	11.36	22	0	5	8	2	0	2	3	0	1	1	0	-	Sep-18
Lithuania	2 817 402	0.71	2	0	0	0	0	0	0	0	1	0	1	0	0	Oct-18
Luxembourg	591 126	6.77	4	1	0	0	0	0	1	0	0	0	2	0	0	Oct-18
Malta	421 387	11.87	5	0	0	0	0	0	0	0	0	5	0	0	0	Oct-18
Monaco	38 166	0.00	0	0	-	0	0	0	0	-	0	0	0	0	0	Oct-18
Montenegro	626 240	324.16	203	0	0	2	14	54	60	47	16	10	0	0	0	Oct-18
Netherlands	17 084 531	1.29	22	0	0	0	2	2	0	3	10	1	4	0	0	Oct-18
Norway	5 387 342	2.23	12	0	0	0	4	2	1	2	0	1	2	0	0	Oct-18
Poland	38 522 728	3.48	134	2	6	21	8	6	19	11	13	17	11	4	16	Oct-18
Portugal	10 229 432	13.20	135	0	0	0	4	108	13	0	3	1	3	3	0	Oct-18
Republic of Moldova	4 044 534	77.14	312	0	0	2	1	0	2	23	10	1	245	20	8	Oct-18
Romania	19 105 089	84.27	1610	338	329	101	102	105	111	104	111	100	92	63	54	Oct-18
Russian Federation	143 261 490	15.38	2204	194	188	292	292	316	252	218	218	93	111	23	7	Oct-18
San Marino	32 241	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Serbia	8 742 764	655.97	5735	286	392	901	1230	1522	684	447	170	49	16	15	23	Oct-18
Slovakia	5 434 237	90.17	490	0	8	1	0	2	3	23	87	262	63	26	15	Oct-18
Slovenia	2 073 018	4.82	10	0	1	2	0	0	0	3	3	0	0	0	1	Oct-18
Spain	46 116 884	4.99	230	1	11	6	14	53	51	41	25	14	6	4	4	Oct-18
Sweden	9 987 062	5.11	51	0	16	12	3	1	4	3	2	5	1	3	1	Oct-18
Switzerland	8 523 590	5.98	51	4	0	7	6	6	3	3	2	1	4	3	12	Oct-18
Tajikistan	9 046 723	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
The former Yugoslav Republic of Macedonia	2 085 315	23.98	50	0	1	5	5	1	0	1	3	24	7	2	1	Oct-18
Turkey	81 086 257	6.52	529	14	5	2	5	51	77	161	65	85	63	1	0	Oct-18
Turkmenistan	5 565 070	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Ukraine	44 170 002	849.47	37521	1001	1400	3030	3099	2618	3812	5629	4882	3877	2517	1848	3808	Oct-18
United Kingdom	65 912 569	15.46	1019	65	46	55	81	149	201	154	100	81	55	16	16	Oct-18
Uzbekistan	31 064 765	0.55	17	0	0	0	0	0	0	2	7	7	0	1	0	Oct-18
Total/Averages	917 084 469	70.82	64946	2352	3023	5645	6588	7381	7655	8704	7037	5308	3625	2650	4978	

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy. Member States submitting aggregate data: Belgium, Bosnia and Herzegovina, Kazakhstan, Serbia, the former Yugoslav Republic of Macedonia, Ukraine.

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

² Incidence rates not achieving the target (<1 per million population) are highlighted in red.

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 November 2017 — October 2018 (data as of 30 November 2018)

Country	Total Population in 2018 ¹	Incidence Rate Nov 17 - Oct 18 (per 1 million population) ²	Total rubella cases	Month and year of rash onset												Month & year of last report	
				Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18		
Albania	2 919 422	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Andorra	68 915	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Armenia	3 034 998	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Austria	8 613 647	2.09	18	6	7	5	0	0	0	0	0	0	0	0	0	0	Oct-18
Azerbaijan	10 070 075	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Belarus	9 429 102	0.11	1	0	0	1	0	0	0	0	0	0	0	0	0	0	Oct-18
Belgium ³	11 513 025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 782 297	0.53	2	0	0	1	0	0	0	1	-	0	0	0	0	0	Oct-18
Bulgaria	6 992 150	0.14	1	0	0	0	0	0	1	0	0	0	0	0	0	0	Oct-18
Croatia	4 194 538	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Cyprus	1 198 198	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Czech Republic	10 563 111	0.19	2	0	0	0	1	0	0	0	0	1	0	0	0	0	Oct-18
Denmark ³	5 732 713	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 302 401	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Finland	5 556 439	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
France ³	65 205 671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 973 681	0.25	1	1	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Germany	80 560 850	0.72	58	4	2	7	3	5	5	3	8	6	6	6	3	3	Oct-18
Greece	10 871 762	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Hungary	9 754 429	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Iceland	336 938	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Ireland	4 790 845	0.63	3	0	0	0	1	0	1	0	0	1	0	0	0	0	Oct-18
Israel	8 455 489	0.24	2	0	0	0	0	1	0	0	0	0	0	0	1	1	Oct-18
Italy	59 788 104	0.40	24	2	2	1	2	2	4	2	2	3	2	2	0	0	Oct-18
Kazakhstan	18 256 484	0.05	1	0	0	0	0	0	0	0	-	0	-	0	1	1	Oct-18
Kyrgyzstan	6 213 441	1.61	10	1	1	4	0	3	0	0	1	0	0	0	0	0	Oct-18
Latvia	1 935 780	1.55	3	0	0	1	1	0	1	0	0	0	0	0	-	-	Sep-18
Lithuania	2 817 402	0.35	1	0	0	0	0	0	0	1	0	0	0	0	0	0	Oct-18
Luxembourg	591 126	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Malta	421 387	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Monaco ³	38 166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montenegro	626 240	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Netherlands	17 084 531	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Norway	5 387 342	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Poland	38 522 728	12.12	467	31	33	36	43	42	47	58	50	39	38	21	29	29	Oct-18
Portugal	10 229 432	0.49	5	0	0	0	1	0	0	0	2	0	1	1	0	0	Oct-18
Republic of Moldova	4 044 534	0.00	0	-	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Romania	19 105 089	0.37	7	0	0	1	0	1	1	0	1	1	1	1	0	0	Oct-18
Russian Federation	143 261 490	0.03	4	0	1	0	0	0	0	3	0	0	0	0	0	0	Oct-18
San Marino	32 241	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Serbia	8 742 764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Slovakia	5 434 237	0.18	1	0	0	0	0	0	0	0	0	0	0	0	1	1	Oct-18
Slovenia	2 073 018	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Spain	46 116 884	0.07	3	0	0	0	0	0	1	1	1	0	0	0	0	0	Oct-18
Sweden	9 987 062	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Switzerland	8 523 590	0.23	2	0	0	0	1	0	0	1	0	0	0	0	0	0	Oct-18
Tajikistan	9 046 723	0.00	0	-	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
The former Yugoslav Republic of Macedonia	2 085 315	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Turkey	81 086 257	0.15	12	0	0	1	0	4	3	1	1	0	1	1	0	0	Oct-18
Turkmenistan	5 565 070	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Ukraine	44 170 002	4.75	210	-	-	24	42	17	32	20	12	11	28	15	9	9	Oct-18
United Kingdom	65 912 569	0.05	3	1	0	0	1	0	0	0	0	0	0	1	0	0	Oct-18
Uzbekistan	31 064 765	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-18
Total/Averages	917 084 469	0.92	841	46	46	82	96	75	96	91	78	62	77	48	44		

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy. Member States submitting aggregate data: Bosnia and Herzegovina, Kazakhstan, Poland, the former Yugoslav Republic of Macedonia, Ukraine.

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

² Incidence rates not achieving the target (<1 per million population) are highlighted in red.

³ Country does not have a comprehensive rubella surveillance system.

Table 3: Measles classification, reporting and surveillance performance, January — October 2018 (data as of 30 November 2018)

Country	Total Population in 2018 ¹	2017 (as of 30 November 2018)				2018													
		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	Report			Surveillance Indicators ⁷			
							Lab confirmed	Epi-Link	Clinically compatible ⁴				Completeness ⁵	Timeliness ⁵	Month & year of last report	Laboratory investigation rate ⁸	Rate of discarded cases ⁶	Origin of Infection ⁵	Timeliness of investigation ⁵
Albania ⁸	2 919 422	0.69	12	0	397.34	1405	1308	0	97	1227	13	2	100%	40%	Oct-18	97%	42.0	100.0%	78%
Andorra	68 915	0.00	0	-	0.00	0	0	0	0	0	0	0	100%	100%	Oct-18	-	0.0	-	-
Armenia	3 034 998	0.00	1	0	4.67	18	18	0	0	212	1	0	100%	80%	Oct-18	100%	7.0	83.3%	100%
Austria	8 613 647	9.64	94	0	5.22	73	66	6	1	24	19	0	100%	100%	Oct-18	78%	0.3	100.0%	16%
Azerbaijan	10 070 075	0.00	0	0	0.17	2	0	0	2	110	0	0	100%	100%	Oct-18	98%	1.1	0	100%
Belarus ⁸	9 429 102	0.00	1	0	19.80	225	225	0	0	389	1	0	100%	50%	Oct-18	100%	4.1	0.4%	0
Belgium	11 513 025	31.88	367	0	7.60	105	86	18	1	-	0	0	100%	100%	Oct-18	-	-	-	-
Bosnia and Herzegovina	3 782 297	7.14	27	0	19.83	90	45	0	45	-	0	0	100%	50%	Oct-18	-	-	-	-
Bulgaria	6 992 150	23.45	165	1	0.36	8	8	0	0	-	5	0	100%	100%	Oct-18	100%	-	100.0%	100%
Croatia	4 194 538	1.67	7	0	2.78	23	23	0	0	4	9	0	100%	90%	Oct-18	100%	0.1	100.0%	0
Cyprus	1 198 198	0.83	4	0	6.26	14	14	0	0	-	5	0	100%	100%	Oct-18	100%	-	100.0%	0
Czech Republic	10 563 111	13.44	146	0	10.81	169	168	1	0	-	32	0	100%	80%	Oct-18	0%	-	100.0%	0
Denmark	5 732 713	0.35	4	0	0.58	6	6	0	0	-	2	0	100%	100%	Oct-18	100%	-	100.0%	0
Estonia	1 302 401	0.00	1	0	4.48	10	10	0	0	51	3	0	100%	100%	Oct-18	100%	3.9	100.0%	100%
Finland	5 556 439	0.72	10	0	0.60	7	7	0	0	-	3	0	100%	100%	Oct-18	100%	-	42.9%	0
France	65 205 671	7.50	518	1	34.47	2787	1354	560	873	-	90	3	100%	100%	Oct-18	80%	-	83.3%	0
Georgia	3 973 681	23.66	96	0	314.99	1502	1171	78	253	449	0	2	100%	60%	Oct-18	87%	11.3	89.3%	97%
Germany	80 560 850	10.80	936	1	4.77	514	430	54	30	-	53	0	100%	100%	Oct-18	92%	-	90.9%	0
Greece	10 871 762	97.87	1067	2	167.79	2192	1233	492	467	69	3	2	100%	100%	Oct-18	74%	0.6	9.9%	0
Hungary	9 754 429	3.18	36	0	0.60	13	13	0	0	20	6	0	100%	100%	Oct-18	100%	0.2	92.3%	91%
Iceland	336 938	2.97	3	0	0.00	0	0	0	0	-	0	-	100%	100%	Oct-18	-	-	-	-
Ireland	4 790 845	5.22	25	0	14.26	86	73	2	11	-	4	0	100%	100%	Oct-18	98%	-	70.9%	86%
Israel	8 455 489	1.77	16	0	128.22	1304	444	761	99	-	3	0	100%	70%	Oct-18	82%	-	0.2%	88%
Italy	59 788 104	89.50	5396	5	32.34	2373	1823	158	392	187	53	7	100%	100%	Oct-18	84%	0.3	88.3%	0
Kazakhstan	18 256 484	0.11	2	0	0.64	14	13	0	1	-	0	0	80%	80%	Oct-18	-	-	-	-
Kyrgyzstan ⁸	6 213 441	0.48	5	0	76.58	577	456	86	35	647	6	2	100%	70%	Oct-18	74%	10.4	100.0%	84%
Latvia	1 935 780	2.07	5	0	5.17	17	17	0	0	-	5	0	90%	90%	Sep-18	100%	-	29.4%	100%
Lithuania	2 817 402	0.00	2	0	0.00	2	2	0	0	-	2	0	100%	90%	Oct-18	100%	-	100.0%	50%
Luxembourg	591 126	1.69	4	0	0.00	3	3	0	0	-	3	0	100%	100%	Oct-18	100%	-	100.0%	100%
Malta	421 387	0.00	0	-	1.98	5	5	0	0	-	4	0	100%	100%	Oct-18	100%	-	100.0%	0
Monaco	38 166	0.00	0	-	0.00	0	0	0	0	0	0	-	90%	70%	Oct-18	-	0.0	-	-
Montenegro	626 240	0.00	0	0	250.17	203	176	4	23	69	15	0	100%	30%	Oct-18	93%	11.0	51.7%	95%
Netherlands	17 084 531	0.59	16	0	0.68	22	20	2	0	-	8	0	100%	100%	Oct-18	0%	-	100.0%	0
Norway	5 387 342	0.00	1	0	0.93	12	10	2	0	-	6	0	100%	100%	Oct-18	100%	-	83.3%	100%
Poland	38 522 728	1.38	63	0	2.06	126	99	7	20	-	31	0	100%	100%	Oct-18	83%	-	100.0%	100%
Portugal	10 229 432	3.13	34	1	10.10	135	126	0	9	346	11	0	100%	90%	Oct-18	96%	3.4	91.1%	74%
Republic of Moldova	4 044 534	0.00	0	0	61.81	312	176	136	0	55	12	0	100%	90%	Oct-18	100%	1.4	100.0%	100%
Romania	19 105 089	452.65	8673	23	40.39	943	768	156	19	-	17	22	100%	100%	Oct-18	98%	-	100.0%	100%
Russian Federation	143 261 490	6.09	898	0	10.21	1822	1753	57	12	2360	66	3	100%	100%	Oct-18	99%	1.6	100.0%	44%
San Marino	32 241	0.00	0	-	0.00	0	0	0	0	0	0	-	100%	80%	Oct-18	-	0.0	-	-
Serbia	8 742 764	80.29	702	1	482.02	5057	2638	0	2419	-	0	14	100%	100%	Oct-18	-	-	-	-
Slovakia	5 434 237	1.29	10	0	72.53	482	298	184	0	11	9	0	100%	100%	Oct-18	1%	0.2	98.8%	100%
Slovenia	2 073 018	2.89	8	0	2.41	9	9	0	0	-	3	0	100%	100%	Oct-18	89%	-	44.4%	100%
Spain	46 116 884	2.91	157	0	3.38	218	212	4	2	103	31	0	100%	100%	Oct-18	99%	0.2	18.3%	97%
Sweden	9 987 062	3.50	46	0	1.50	35	35	0	0	-	17	0	100%	100%	Oct-18	97%	-	97.1%	0
Switzerland	8 523 590	11.50	105	1	2.64	47	40	7	0	114	20	0	100%	100%	Oct-18	100%	1.3	95.7%	29%
Tajikistan	9 046 723	71.96	651	0	0.00	0	0	0	0	54	0	0	100%	90%	Oct-18	100%	0.6	-	87%
The former Yugoslav Republic of Macedonia	2 085 315	9.59	20	0	19.58	49	38	10	1	-	0	0	100%	70%	Oct-18	-	-	-	-
Turkey ⁸	81 086 257	0.81	69	0	4.67	510	508	1	1	2785	56	0	100%	60%	Oct-18	100%	3.4	20.2%	98%
Turkmenistan	5 565 070	0.00	0	-	0.00	0	0	0	0	45	0	0	100%	10%	Oct-18	100%	0.8	-	100%
Ukraine	44 170 002	108.26	4782	5	662.59	35120	5952	0	29168	-	0	15	100%	80%	Oct-18	-	-	-	-
United Kingdom	65 912 569	2.32	280	0	10.01	908	908	0	0	-	116	0	100%	90%	Oct-18	100%	-	97.9%	0
Uzbekistan	31 064 765	0.00	0	0	0.46	17	17	0	0	75	0	0	100%	90%	Oct-18	100%	0.2	100.0%	100%
Total/Averages	917 084 469	27.28	25465	41	53.46	59571	22804	2786	33981	9406	743	72	99.2%	86.8%		89.6%	2.0	23.5%	51.9%

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy. Member States submitting aggregate data: Belgium, Bosnia and Herzegovina, Kazakhstan, Serbia, the former Yugoslav Republic of Macedonia, Ukraine.

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

² Incidence rates not meeting the target (<1 per million population) are highlighted in red. 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 Rate of discarded cases not achieving the target (>=2 discarded cases per 100 000) are highlighted in red. Rate of discarded cases is not calculated for the countries submitting only confirmed measles cases.

⁷ Surveillance indicators could not be calculated for Member States submitting aggregate data. ⁸ Country classifies discard cases as "discarded, not measles, not rubella".

Table 4: Rubella classification, reporting and surveillance performance, January — October 2018 (data as of 30 November 2018)

Country	Total Population in 2018 ¹	2017 (as of 30 November 2018)		2018													
		Incidence Rate (per 1 million population) ²	Total rubella cases ³	Annualized Incidence Rate (per 1 million population) ²	Total rubella cases ³	Classification			Discarded Rubella	Imported cases	Report			Surveillance Indicators ⁷			
						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 ⁸	2 919 422	0.00	0	0.00	0	0	0	0	1227	0	100%	40%	Oct-18	100%	42.0	-	72%
Andorra	68 915	0.00	0	0.00	0	0	0	0	0	0	100%	100%	Oct-18	-	0.0	-	-
Armenia	3 034 998	0.00	0	0.00	0	0	0	0	0	0	100%	80%	Oct-18	-	0.0	-	-
Austria	8 613 647	4.53	42	0.48	5	5	0	0	-	0	100%	100%	Oct-18	100%	-	100%	0%
Azerbaijan	10 070 075	0.00	0	0.00	0	0	0	0	61	0	100%	100%	Oct-18	100%	0.6	-	100%
Belarus ⁹	9 429 102	0.11	1	0.00	1	1	0	0	389	1	100%	50%	Oct-18	100%	4.1	100%	0%
Belgium ⁹	11 513 025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 782 297	0.26	1	0.44	2	0	0	2	-	0	90%	40%	Oct-18	-	-	-	-
Bulgaria	6 992 150	0.00	0	0.12	1	0	0	1	-	0	100%	100%	Oct-18	0%	-	0%	100%
Croatia	4 194 538	0.00	0	0.00	0	0	0	0	-	0	100%	80%	Oct-18	-	-	-	-
Cyprus	1 198 198	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Oct-18	-	-	-	-
Czech Republic	10 563 111	0.09	2	0.16	2	1	1	0	-	0	100%	50%	Oct-18	100%	-	100%	0%
Denmark ⁹	5 732 713	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 302 401	0.00	0	0.00	0	0	0	0	11	0	100%	100%	Oct-18	100%	0.8	-	100%
Finland	5 556 439	0.18	1	0.00	0	0	0	0	-	0	100%	100%	Oct-18	-	-	-	-
France ⁹	65 205 671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 973 681	1.26	5	0.00	0	0	0	0	68	0	100%	30%	Oct-18	75%	1.7	-	96%
Germany	80 560 850	0.91	74	0.52	52	11	0	41	-	2	100%	100%	Oct-18	21%	-	56%	0%
Greece	10 871 762	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Oct-18	-	-	-	-
Hungary	9 754 429	0.00	0	0.00	0	0	0	0	7	0	100%	70%	Oct-18	100%	0.1	-	100%
Iceland	336 938	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Oct-18	-	-	-	-
Ireland	4 790 845	0.00	0	0.52	3	0	0	3	-	0	100%	100%	Oct-18	33%	-	33%	67%
Israel	8 455 489	0.00	0	0.20	2	1	0	1	-	0	100%	60%	Oct-18	100%	-	0%	100%
Italy	59 788 104	1.12	68	0.26	20	6	3	11	12	1	100%	100%	Oct-18	86%	0.0	65%	0%
Kazakhstan	18 256 484	0.00	0	0.05	1	1	0	0	-	0	80%	70%	Oct-18	-	-	-	-
Kyrgyzstan ⁸	6 213 441	0.64	4	1.07	8	8	0	0	647	0	100%	70%	Oct-18	60%	10.4	100%	84%
Latvia	1 935 780	0.00	0	0.86	3	3	0	0	-	1	90%	80%	Sep-18	100%	-	100%	33%
Lithuania	2 817 402	0.00	0	0.30	1	1	0	0	-	0	100%	90%	Oct-18	100%	-	100%	0%
Luxembourg	591 126	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Oct-18	-	-	-	-
Malta	421 387	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Oct-18	-	-	-	-
Monaco ⁹	38 166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montenegro	626 240	0.00	0	0.00	0	0	0	0	0	0	100%	30%	Oct-18	-	0.0	-	-
Netherlands	17 084 531	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Oct-18	-	-	-	-
Norway	5 387 342	0.00	0	0.00	0	0	0	0	-	0	100%	90%	Oct-18	-	-	-	-
Poland	38 522 728	12.36	476	8.72	403	3	2	398	-	0	100%	100%	Oct-18	-	-	-	-
Portugal	10 229 432	0.39	4	0.24	5	3	0	2	9	2	100%	90%	Oct-18	79%	0.1	100%	57%
Republic of Moldova	4 044 534	0.00	0	0.00	0	0	0	0	9	0	100%	80%	Oct-18	100%	0.2	-	100%
Romania	19 105 089	0.47	9	0.31	7	4	0	3	-	0	100%	80%	Oct-18	86%	-	100%	100%
Russian Federation	143 261 490	0.04	7	0.01	3	3	0	0	0	1	100%	100%	Oct-18	100%	0.0	100%	100%
San Marino	32 241	0.00	0	0.00	0	0	0	0	0	0	100%	80%	Oct-18	-	0.0	-	-
Serbia	8 742 764	-	-	-	-	-	-	-	-	-	-	-	No Report	-	-	-	-
Slovakia	5 434 237	0.00	0	0.15	1	0	0	1	-	0	100%	100%	Oct-18	0%	-	100%	100%
Slovenia	2 073 018	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Oct-18	-	-	-	-
Spain	46 116 884	0.00	1	0.05	3	2	0	1	6	0	100%	100%	Oct-18	89%	0.0	33%	89%
Sweden	9 987 062	0.00	0	0.00	0	0	0	0	1	0	100%	100%	Oct-18	100%	0.0	-	100%
Switzerland	8 523 590	0.12	1	0.20	2	2	0	0	28	0	100%	100%	Oct-18	93%	0.3	50%	10%
Tajikistan	9 046 723	0.11	1	0.00	0	0	0	0	23	0	100%	90%	Oct-18	100%	0.3	-	100%
The former Yugoslav Republic of Macedonia	2 085 315	0.00	0	0.00	0	0	0	0	-	0	100%	60%	Oct-18	-	-	-	-
Turkey ⁸	81 086 257	0.00	0	0.12	12	12	0	0	2785	0	100%	60%	Oct-18	100%	3.4	25%	100.0%
Turkmenistan	5 565 070	0.00	0	0.00	0	0	0	0	46	0	100%	10%	Oct-18	100%	0.8	-	100%
Ukraine	44 170 002	-	-	3.96	210	12	0	198	-	0	100%	70%	Oct-18	-	-	-	-
United Kingdom	65 912 569	0.00	3	0.01	2	2	0	0	-	1	100%	80%	Oct-18	100%	-	100%	0%
Uzbekistan	31 064 765	0.03	1	0.00	0	0	0	0	5	0	100%	90%	Oct-18	100%	0.0	-	100%
Total/Averages	917 084 469	0.75	701	0.67	749	81	6	662	5334	9	91.7%	75.8%		225.4%	1.2	11.5%	82.3%

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy. Member States submitting aggregate data: Bosnia and Herzegovina, Kazakhstan, Poland, the former Yugoslav Republic of Macedonia and Ukraine.

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

² Incidence rates not meeting the target (<1 per million population) are highlighted in red. 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 Rate of discarded cases not achieving the target (>=2 discarded cases per 100 000) are highlighted in red. Rate of discarded cases is not calculated for the countries submitting only confirmed rubella cases.

⁷ Surveillance indicators could not be calculated for Member States submitting aggregate data.

⁸ Country classifies discard cases as "discarded, not measles, not rubella".

⁹ Country does not have a comprehensive rubella surveillance system.

Table 5: Measles and rubella laboratory test results, January — October 2018 (data as of 30 November 2018)

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 ⁴	% Timeliness ⁴	Month of last report
Albania	2532	1307 (52.0)	B3	0%	0	0	-	-	100%	70%	Oct-18
Andorra											No Lab
Armenia	227	18 (8.0)	D8	0%	227	0 (0.0)	-	-	100%	50%	Oct-18
Austria	1377	60 (4.0)	B3,D8	100%	4407	9 (0.0)	1E,2B	0%	100%	100%	Oct-18
Azerbaijan	184	0 (0.0)	-	-	259	0 (0.0)	-	-	100%	100%	Oct-18
Belarus	705	282 (40.0)	B3,D8	100%	424	3 (1.0)	2B	100%	100%	90%	Oct-18
Belgium	291	105 (36.0)	B3,D8	69%	109	8 (7.0)	-	-	100%	40%	Oct-18
Bosnia and Herzegovina	82	30 (37.0)	B3	67%	82	4 (5.0)	-	-	100%	90%	Oct-18
Bulgaria	202	20 (10.0)	B3	100%	102	0 (0.0)	-	-	100%	90%	Oct-18
Croatia	75	-	B3,D8	86%	25	0 (0.0)	-	-	60%	10%	Jun-18
Cyprus	203	18 (9.0)	-	-	296	0 (0.0)	-	-	90%	40%	Sep-18
Czech Republic	482	163 (34.0)	D8	50%	0	0	-	-	100%	100%	Oct-18
Denmark	851	36 (4.0)	B3,D8	100%	38	2 (5.0)	-	-	100%	100%	Oct-18
Estonia	155	17 (11.0)	-	-	326	3 (1.0)	-	-	90%	90%	Oct-18
Finland	107	16 (15.0)	D8	43%	107	5 (5.0)	-	-	100%	100%	Oct-18
France	1551	540 (35.0)	B3,D8	5%	559	0 (0.0)	2B	0%	100%	40%	Oct-18
Georgia	-	-	-	-	-	-	-	-	-	-	No Report
Germany	-	-	-	-	-	-	-	-	-	-	No Report
Greece	524	444 (85.0)	B3	7%	0	0	-	-	60%	10%	Jun-18
Hungary	246	27 (11.0)	B3,D8	100%	157	0 (0.0)	-	-	100%	100%	Oct-18
Iceland	-	-	-	-	-	-	-	-	-	-	No Report
Ireland	1837	163 (9.0)	B3,D8	100%	2016	0 (0.0)	-	-	100%	100%	Oct-18
Israel	1771	789 (45.0)	D8	94%	1894	339 (18.0)	2B	100%	100%	80%	Oct-18
Italy	2211	1218 (55.0)	B3,D8	40%	1054	62 (6.0)	-	-	100%	90%	Oct-18
Kazakhstan	60	14 (23.0)	B3,D8	33%	56	1 (2.0)	-	-	100%	100%	Oct-18
Kyrgyzstan	788	417 (53.0)	B3	0%	734	7 (1.0)	-	-	100%	100%	Oct-18
Latvia	905	75 (8.0)	B3,D8	64%	723	11 (2.0)	-	-	100%	60%	Oct-18
Lithuania	46	7 (15.0)	-	-	41	2 (5.0)	-	-	100%	90%	Oct-18
Luxembourg	59	1 (2.0)	B3,D8	100%	0	0	-	-	100%	100%	Oct-18
Malta	127	18 (14.0)	B3,D8	25%	566	0 (0.0)	-	-	90%	70%	Sep-18
Monaco											No Lab
Montenegro	-	-	-	-	-	-	-	-			No Report
Netherlands	60	20 (33.0)	B3,D8	100%	56	0 (0.0)	-	-	100%	100%	Oct-18
Norway	-	-	B3,D8	100%	-	-	-	-	-	-	No Report
Poland	-	-	D8	44%	-	-	-	-	-	-	No Report
Portugal	1048	127 (12.0)	B3,D8	22%	4	2 (50.0)	-	-	100%	80%	Oct-18
Republic of Moldova	267	175 (66.0)	B3,D8	0%	240	0 (0.0)	-	-	100%	100%	Oct-18
Romania	4626	3856 (83.0)	B3,D8	70%	682	9 (1.0)	-	-	100%	70%	Oct-18
Russian Federation	6873	2682 (39.0)	B3,D8	62%	5734	58 (1.0)	-	-	100%	100%	Oct-18
San Marino											No Lab
Serbia	4813	2672 (56.0)	B3,D8	0%	2172	14 (1.0)	-	-	100%	100%	Oct-18
Slovakia	203	62 (31.0)	D8	0%	4	0 (0.0)	-	-	100%	100%	Oct-18
Slovenia	255	17 (7.0)	B3	100%	104	0 (0.0)	-	-	100%	100%	Oct-18
Spain	-	-	B3,D8,D4	39%	-	-	-	-	-	-	No Report
Sweden	2534	137 (5.0)	B3,D8	100%	1655	6 (0.0)	-	-	100%	60%	Oct-18
Switzerland	173	67 (39.0)	B3,D8	94%	8	8 (100.0)	-	-	100%	100%	Oct-18
Tajikistan	75	0 (0.0)	-	-	72	0 (0.0)	-	-	100%	80%	Oct-18
The former Yugoslav Republic of Macedonia	17	7 (41.0)	-	-	3	0 (0.0)	-	-	30%	0%	May-18
Turkey	5419	690 (13.0)	B3,D8	13%	4468	87 (2.0)	-	-	100%	50%	Oct-18
Turkmenistan	90	0 (0.0)	-	-	90	0 (0.0)	-	-	100%	80%	Aug-18
Ukraine	1026	503 (49.0)	B3,D8	3%	275	10 (4.0)	-	-	100%	80%	Oct-18
United Kingdom	4818	1005 (21.0)	B3,D8	98%	1072	7 (1.0)	-	-	100%	100%	Oct-18
Uzbekistan	106	17 (16.0)	D8	33%	106	0 (0.0)	-	-	100%	90%	Oct-18
Total / Average	50001	17839 (36%)	-	58%	30947	657 (2%)	-	29%	77.7%	64.2%	

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.

⁴ Target (>=80%) not achieving are highlighted in red.

**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: Ten countries with the highest numbers of measles cases in the WHO European Region in the previous 12-months November 2017 to October 2018 (data as of 30 November 2018)*

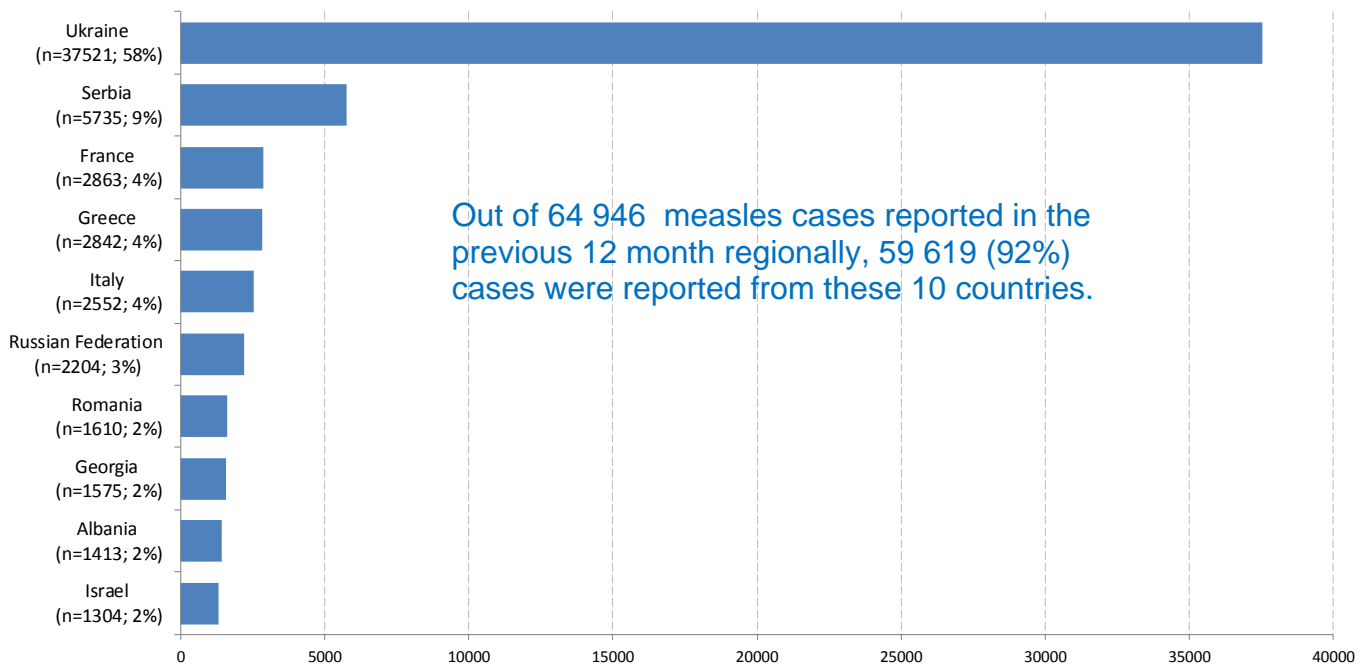


Figure 2: Measles cases by month of onset in the WHO European Region, November 2017 to October 2018 (data as of 30)

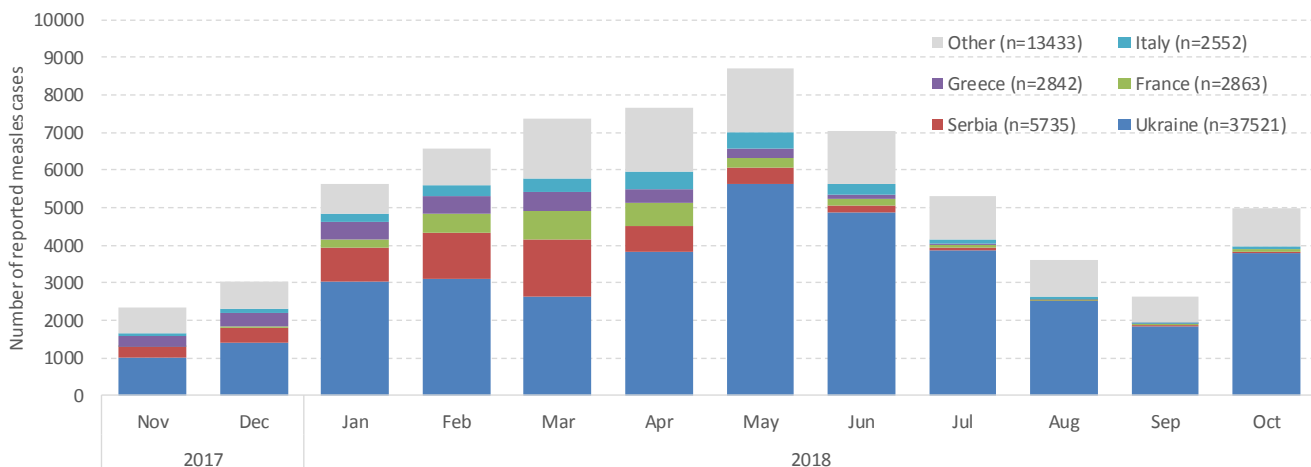
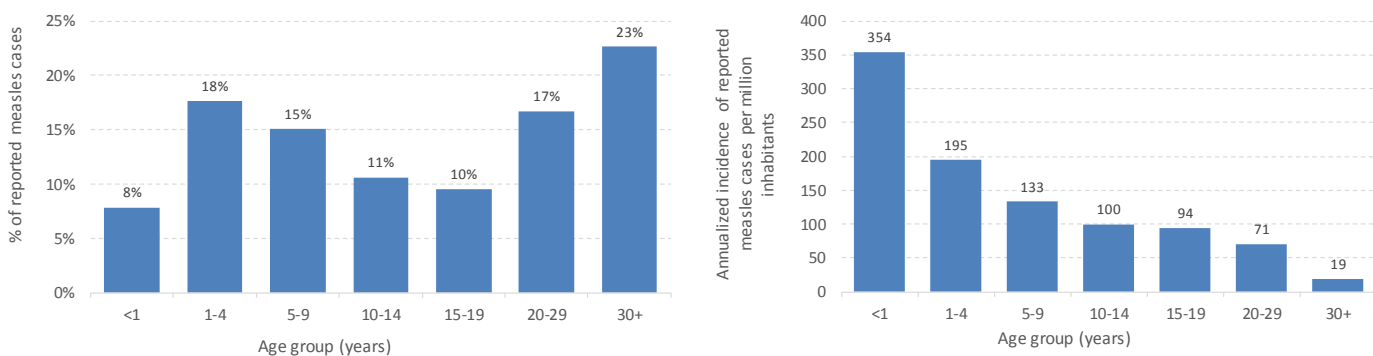


Figure 3: Age distribution of measles cases by proportion (left) and annualized incidence rate (right) in the WHO European Region, January to October 2018 (data as of 30 November 2018)* (n=59 571)**



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

**The age was not known in 7 cases.