

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 January—December 2018 (data as of 01 February 2019)**

Country	Total Population in 2018 <sup>1</sup>	Incidence Rate Jan - Dec 2018 (per 1 million population)	Total measles cases	Month and year of rash onset												Month & year of last report
				Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	
Albania	2 934 363	499.60	1466	63	164	345	359	245	134	45	13	17	20	34	27	Dec-18
Andorra	76 953	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Armenia	2 934 152	6.48	19	0	2	14	1	0	0	0	0	1	0	0	1	Dec-18
Austria	8 751 820	8.80	77	7	8	14	16	11	6	1	3	6	0	4	1	Dec-18
Azerbaijan	9 923 914	7.15	71	0	0	0	0	0	0	0	0	0	0	24	47	Dec-18
Belarus	9 452 113	24.86	235	1	17	41	53	58	13	23	12	7	2	5	3	Dec-18
Belgium	11 498 519	10.44	120	1	6	9	11	24	22	3	11	14	4	8	7	Dec-18
Bosnia and Herzegovina	3 503 554	25.40	89	5	7	13	13	34	13	4	0	0	0	0	0	Dec-18
Bulgaria	7 036 848	1.85	13	1	0	2	1	1	1	7	0	0	0	0	0	Dec-18
Croatia	4 164 783	5.52	23	0	0	0	1	2	16	3	1	0	0	0	0	Dec-18
Cyprus	1 189 085	11.77	14	5	7	2	0	0	0	0	0	0	0	0	0	Dec-18
Czech Republic	10 625 250	18.73	199	16	22	38	39	24	10	3	6	6	6	19	10	Dec-18
Denmark	5 754 356	1.39	8	0	0	3	0	0	0	0	2	2	0	0	1	Dec-18
Estonia	1 306 788	7.65	10	0	0	4	6	0	0	0	0	0	0	0	0	Dec-18
Finland	5 542 517	2.71	15	0	0	0	1	3	0	0	3	0	0	2	6	Dec-18
France	65 233 271	44.66	2913	237	515	761	620	250	191	81	29	38	76	61	54	Dec-18
Georgia	3 907 131	563.84	2203	125	159	158	221	253	211	163	60	47	105	219	482	Dec-18
Germany	82 293 457	6.46	532	29	34	61	100	89	102	42	25	25	8	9	8	Dec-18
Greece	11 142 161	196.82	2193	466	454	501	371	249	112	29	8	2	0	0	1	Dec-18
Hungary	9 688 847	1.44	14	2	5	6	0	0	0	0	0	0	0	0	1	Dec-18
Iceland	337 780	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Ireland	4 803 748	18.74	90	9	19	19	4	1	1	7	16	6	4	3	1	Dec-18
Israel	8 452 841	345.33	2919	0	0	9	34	37	75	76	140	337	949	837	425	Dec-18
Italy	59 290 969	42.45	2517	214	297	374	467	429	276	126	77	54	81	54	68	Dec-18
Kazakhstan	18 403 860	31.30	576	0	0	0	1	0	-	1	-	4	8	106	456	Dec-18
Kyrgyzstan	6 132 932	164.36	1008	30	15	33	70	80	99	60	31	75	115	172	228	Dec-18
Latvia	1 929 938	10.36	20	8	2	0	2	3	0	1	1	0	1	0	2	Dec-18
Lithuania	2 876 475	10.43	30	0	0	0	0	0	1	0	1	0	0	15	13	Dec-18
Luxembourg	590 321	6.78	4	0	0	0	1	0	0	0	2	0	0	1	0	Dec-18
Malta	432 089	11.57	5	0	0	0	0	0	0	5	0	0	0	0	0	Dec-18
Monaco	38 897	0.00	0	0	0	0	0	-	0	0	0	0	0	0	0	Dec-18
Montenegro	629 219	322.62	203	2	14	54	60	47	16	10	0	0	0	0	0	Dec-18
Netherlands	17 084 459	1.40	24	0	2	2	0	3	10	1	4	0	0	0	2	Dec-18
Norway	5 353 363	2.24	12	0	4	2	1	2	0	1	2	0	0	0	0	Dec-18
Poland	38 104 832	8.79	335	20	7	6	24	12	15	21	12	4	34	84	96	Dec-18
Portugal	10 291 196	16.62	171	0	4	106	13	0	3	1	3	3	2	24	12	Dec-18
Republic of Moldova	4 041 065	84.14	340	2	1	0	2	23	10	1	245	20	11	21	4	Dec-18
Romania	19 580 634	55.51	1087	101	102	105	111	104	111	100	92	63	54	74	70	Dec-18
Russian Federation	143 964 709	15.67	2256	293	296	320	257	236	296	167	172	77	54	63	25	Dec-18
San Marino	33 557	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Serbia	8 762 027	579.32	5076	901	1230	1522	684	447	170	49	16	15	23	12	7	Dec-18
Slovakia	5 449 816	104.96	572	1	0	2	3	23	87	262	63	26	22	39	44	Dec-18
Slovenia	2 081 260	4.32	9	2	0	0	0	3	3	0	0	0	1	0	0	Dec-18
Spain	46 397 452	4.85	225	6	14	52	50	41	25	15	7	4	4	1	6	Dec-18
Sweden	9 982 709	3.81	38	12	3	1	4	3	2	5	1	3	1	1	2	Dec-18
Switzerland	8 544 034	5.97	51	7	6	6	3	3	2	1	4	4	12	1	2	Dec-18
Tajikistan	9 107 211	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
The former Yugoslav Republic of Macedonia	2 085 051	30.69	64	4	4	0	0	1	3	24	7	2	1	5	13	Dec-18
Turkey	81 916 871	6.80	557	2	5	51	77	161	65	85	63	1	0	22	25	Dec-18
Turkmenistan	5 851 466	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Ukraine	44 009 214	1209.25	53218	3030	3099	2618	3812	5629	4882	3877	2517	1848	3808	7916	10182	Dec-18
United Kingdom	66 573 504	14.32	953	55	81	150	202	155	100	82	54	16	21	26	11	Dec-18
Uzbekistan	32 364 996	0.68	22	0	0	0	0	2	7	7	0	1	0	0	5	Dec-18
<b>Region</b>	<b>922 458 377</b>	<b>89.54</b>	<b>82596</b>	<b>5657</b>	<b>6605</b>	<b>7404</b>	<b>7695</b>	<b>8688</b>	<b>7090</b>	<b>5389</b>	<b>3703</b>	<b>2728</b>	<b>5427</b>	<b>9862</b>	<b>12348</b>	

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 and Ukraine.

<sup>1</sup>Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2017 Revision.

Tables 1-4 are based on monthly data as reported by Member States' surveillance system. Criteria for case inclusion per month may differ between Member States.

**Table 2: Reported rubella cases for the period January—December 2018 (data as of 01 February 2019)**

Country	Total Population in 2018 <sup>1</sup>	Incidence Rate Jan - Dec 2018 (per 1 million population)	Total rubella cases	Month and year of rash onset												Month & year of last report
				Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	
Albania	2 934 363	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Andorra	76 953	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Armenia	2 934 152	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Austria	8 751 820	0.69	6	6	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Azerbaijan	9 923 914	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Belarus	9 452 113	0.11	1	1	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Belgium <sup>2</sup>	11 498 519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 503 554	0.86	3	1	0	0	0	1	-	0	0	0	0	1	0	Dec-18
Bulgaria	7 036 848	0.14	1	0	0	0	1	0	0	0	0	0	0	0	0	Dec-18
Croatia	4 164 783	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Cyprus	1 189 085	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Czech Republic	10 625 250	0.19	2	0	1	0	0	0	0	1	0	0	0	0	0	Dec-18
Denmark <sup>2</sup>	5 754 356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 306 788	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Finland	5 542 517	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
France <sup>2</sup>	65 233 271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 907 131	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Germany	82 293 457	0.69	57	7	3	5	5	3	8	6	6	6	4	2	2	Dec-18
Greece	11 142 161	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Hungary	9 688 847	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Iceland	337 780	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Ireland	4 803 748	0.83	4	0	1	0	1	0	0	1	0	0	1	0	0	Dec-18
Israel	8 452 841	0.24	2	0	0	1	0	0	0	0	0	0	1	0	0	Dec-18
Italy	59 290 969	0.39	23	1	2	2	4	2	2	3	2	2	0	2	1	Dec-18
Kazakhstan	18 403 860	0.05	1	0	0	0	0	0	-	0	-	0	1	0	0	Dec-18
Kyrgyzstan	6 132 932	1.30	8	4	0	3	0	0	1	0	0	0	0	0	0	Dec-18
Latvia	1 929 938	1.55	3	1	1	0	1	0	0	0	0	0	-	0	0	Dec-18
Lithuania	2 876 475	0.35	1	0	0	0	0	1	0	0	0	0	0	0	0	Dec-18
Luxembourg	590 321	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Malta	432 089	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Monaco	38 897	0.00	0	-	-	-	-	-	-	-	-	-	-	0	0	Dec-18
Montenegro	629 219	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Netherlands	17 084 459	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Norway	5 353 363	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Poland	38 104 832	11.81	450	36	43	42	47	58	50	39	36	22	27	26	24	Dec-18
Portugal	10 291 196	0.49	5	0	1	0	0	0	2	0	1	1	0	0	0	Dec-18
Republic of Moldova	4 041 065	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Romania	19 580 634	0.41	8	1	0	1	1	0	1	1	1	1	0	1	0	Dec-18
Russian Federation	143 964 709	0.04	6	0	0	0	0	2	1	0	0	1	0	1	1	Dec-18
San Marino	33 557	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Serbia	8 762 027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Slovakia	5 449 816	0.18	1	0	0	0	0	0	0	0	0	0	1	0	0	Dec-18
Slovenia	2 081 260	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Spain	46 397 452	0.28	13	0	0	0	1	1	1	0	0	0	0	0	10	Dec-18
Sweden	9 982 709	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Switzerland	8 544 034	0.23	2	0	1	0	0	1	0	0	0	0	0	0	0	Dec-18
Tajikistan	9 107 211	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
The former Yugoslav Republic of Macedonia	2 085 051	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Turkey	81 916 871	0.20	16	1	0	4	3	1	1	0	1	1	0	4	0	Dec-18
Turkmenistan	5 851 466	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
Ukraine	44 009 214	5.34	235	24	42	17	32	20	12	11	28	15	9	12	13	Dec-18
United Kingdom	66 573 504	0.03	2	0	1	0	0	0	0	0	0	1	0	0	0	Dec-18
Uzbekistan	32 364 996	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Dec-18
<b>Region</b>	<b>922 458 377</b>	<b>0.92</b>	<b>850</b>	<b>83</b>	<b>96</b>	<b>75</b>	<b>96</b>	<b>90</b>	<b>79</b>	<b>62</b>	<b>75</b>	<b>50</b>	<b>44</b>	<b>49</b>	<b>51</b>	

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.

<sup>1</sup> Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2017 Revision.

<sup>2</sup> Country does not have a comprehensive rubella surveillance system.

**Table 3: Measles classification, reporting and surveillance performance, January—December 2018 (data as of 01 February 2019)**

Country	Total Population in 2018 <sup>1</sup>	2017 (as of 01 February 2019)			2018														
		Incidence Rate (per 1 million population)	Total measles cases <sup>2</sup>	Total measles death	Incidence Rate (per 1 million population)	Total measles cases <sup>2</sup>	Classification			Discarded Measles	Imported cases	Measles Death	Report			Surveillance Indicators <sup>6</sup>			
							Lab confirmed	Epi-Link	Clinically compatible <sup>3</sup>				Completeness <sup>4</sup>	Timeliness <sup>4</sup>	Month & year of last report	Laboratory investigation rate <sup>4</sup>	Rate of discarded cases <sup>5</sup>	Origin of infection <sup>4</sup>	Timeliness of investigation <sup>4</sup>
Albania <sup>7</sup>	2 934 363	4.10	12	0	499.60	1466	1367	0	99	1268	13	3	100%	50%	Dec-18	97%	43.2	100%	79%
Andorra	76 953	0.00	0	-	0.00	0	0	0	0	0	0	-	100%	100%	Dec-18	-	0.0	-	-
Armenia	2 934 152	0.34	1	0	6.48	19	19	0	0	239	2	0	100%	83%	Dec-18	100%	8.1	84%	100%
Austria	8 751 820	10.76	94	0	8.80	77	70	6	1	25	22	0	100%	100%	Dec-18	79%	0.3	100%	15%
Azerbaijan	9 923 914	0.00	0	0	7.15	71	55	0	16	132	0	0	100%	100%	Dec-18	94%	1.3	77%	100%
Belarus <sup>7</sup>	9 452 113	0.11	1	0	24.86	235	234	0	1	430	1	0	100%	58%	Dec-18	100%	4.5	0%	0%
Belgium	11 498 519	32.11	367	0	10.44	120	94	21	5	-	0	0	100%	92%	Dec-18	-	-	-	-
Bosnia and Herzegovina	3 503 554	7.70	27	0	25.40	89	45	0	44	-	0	0	100%	58%	Dec-18	-	-	-	-
Bulgaria	7 036 848	23.29	165	1	1.85	13	13	0	0	-	6	0	100%	100%	Dec-18	100%	-	77%	100%
Croatia	4 164 783	1.67	7	0	5.52	23	23	0	0	4	9	0	100%	92%	Dec-18	100%	0.1	100%	0%
Cyprus	1 189 085	3.39	4	0	11.77	14	14	0	0	-	5	0	100%	100%	Dec-18	100%	-	100%	0%
Czech Republic	10 625 250	14.03	149	0	18.73	199	196	2	1	-	35	0	100%	83%	Dec-18	87%	-	86%	0%
Denmark	5 754 356	0.70	4	0	1.39	8	8	0	0	-	4	0	100%	100%	Dec-18	100%	-	100%	0%
Estonia	1 306 788	0.76	1	0	7.65	10	10	0	0	57	3	0	100%	100%	Dec-18	100%	4.4	100%	100%
Finland	5 542 517	1.81	10	0	2.71	15	15	0	0	-	4	0	100%	100%	Dec-18	100%	-	33%	0%
France	65 233 271	7.97	518	1	44.66	2913	1449	580	884	-	102	3	100%	100%	Dec-18	81%	-	83%	0%
Georgia	3 907 131	24.54	96	0	563.84	2203	1660	100	443	508	0	3	100%	58%	Dec-18	83%	13.0	99%	96%
Germany	82 293 457	11.40	936	1	6.46	532	447	54	31	-	59	0	100%	100%	Dec-18	92%	-	81%	0%
Greece	11 142 161	95.61	1067	2	196.82	2193	1234	492	467	70	3	2	100%	100%	Dec-18	74%	0.6	10%	0%
Hungary	9 688 847	3.70	36	0	1.44	14	14	0	0	22	7	0	100%	100%	Dec-18	100%	0.2	93%	92%
Iceland	337 780	8.95	3	0	0.00	0	0	0	0	-	0	-	100%	100%	Dec-18	-	-	-	-
Ireland	4 803 748	5.25	25	0	18.74	90	73	2	15	-	4	0	100%	100%	Dec-18	94%	-	71%	84%
Israel	8 452 841	1.92	16	0	345.33	2919	1190	1468	261	-	3	0	100%	75%	Dec-18	82%	-	0%	91%
Italy	59 290 969	90.85	5393	5	42.45	2517	1926	176	415	222	62	7	100%	100%	Dec-18	84%	0.4	88%	0%
Kazakhstan	18 403 860	0.11	2	0	31.30	576	503	25	48	-	0	0	83%	83%	Dec-18	-	-	-	-
Kyrgyzstan <sup>7</sup>	6 132 932	0.83	5	0	164.36	1008	519	422	67	805	6	2	100%	75%	Dec-18	66%	13.1	100%	89%
Latvia	1 929 938	2.56	5	0	10.36	20	20	0	0	-	8	0	92%	92%	Dec-18	100%	-	40%	100%
Lithuania	2 876 475	0.69	2	0	10.43	30	30	0	0	-	30	0	100%	92%	Dec-18	100%	-	100%	77%
Luxembourg	590 321	6.86	4	0	6.78	4	4	0	0	-	4	0	100%	100%	Dec-18	100%	-	100%	100%
Malta	432 089	0.00	0	-	11.57	5	5	0	0	-	4	0	100%	100%	Dec-18	100%	-	100%	0%
Monaco	38 897	0.00	0	-	0.00	0	0	0	0	0	0	-	92%	75%	Dec-18	-	0.0	-	-
Montenegro	629 219	0.00	0	0	322.62	203	176	4	23	69	15	0	100%	33%	Dec-18	93%	11.0	52%	95%
Netherlands	17 084 459	0.94	16	0	1.40	24	23	1	0	-	9	0	100%	100%	Dec-18	91%	-	38%	0%
Norway	5 353 363	0.19	1	0	2.24	12	10	2	0	-	6	0	100%	100%	Dec-18	100%	-	83%	100%
Poland	38 104 832	1.65	63	0	8.79	335	210	18	107	-	88	0	100%	100%	Dec-18	68%	-	94%	100%
Portugal	10 291 196	3.29	34	1	16.62	171	160	2	9	407	12	0	100%	92%	Dec-18	97%	4.0	88%	82%
Republic of Moldova	4 041 065	0.00	0	0	84.14	340	194	146	0	58	15	0	100%	92%	Dec-18	100%	1.4	100%	100%
Romania	19 580 634	460.99	9072	24	55.51	1087	865	200	22	-	19	22	100%	100%	Dec-18	98%	-	100%	100%
Russian Federation	143 964 709	6.23	897	0	15.67	2256	2125	96	35	4845	101	1	100%	100%	Dec-18	99%	3.4	100%	31%
San Marino	33 557	0.00	0	-	0.00	0	0	0	0	0	0	-	100%	75%	Dec-18	-	0.0	-	-
Serbia	8 762 027	79.86	702	1	579.32	5076	2657	0	2419	-	0	14	100%	100%	Dec-18	-	-	-	-
Slovakia	5 449 816	1.84	10	0	104.96	572	372	200	0	17	15	0	100%	100%	Dec-18	3%	0.3	99%	100%
Slovenia	2 081 260	3.85	8	0	4.32	9	9	0	0	-	3	0	100%	100%	Dec-18	89%	-	44%	100%
Spain	46 397 452	3.39	157	0	4.85	225	220	4	1	134	35	0	100%	100%	Dec-18	97%	0.3	20%	96%
Sweden	9 982 709	4.64	46	0	3.81	38	36	2	0	-	18	0	100%	100%	Dec-18	97%	-	97%	0%
Switzerland	8 544 034	12.39	105	1	5.97	51	42	8	1	142	22	0	100%	100%	Dec-18	99%	1.7	96%	26%
Tajikistan	9 107 211	72.97	651	0	0.00	0	0	0	0	59	0	0	100%	83%	Dec-18	100%	0.6	-	88%
The former Yugoslav Republic of Macedonia	2 085 051	9.60	20	0	30.69	64	53	10	1	-	0	0	100%	67%	Dec-18	-	-	-	-
Turkey <sup>7</sup>	81 916 871	0.85	69	0	6.80	557	555	1	1	3232	57	0	100%	67%	Dec-18	100%	3.9	19%	97%
Turkmenistan	5 851 466	0.00	0	-	0.00	0	0	0	0	58	0	0	100%	17%	Dec-18	100%	1.0	-	100%
Ukraine	44 009 214	108.13	4782	5	1209.25	53218	7742	0	45476	-	0	15	100%	83%	Dec-18	-	-	-	-
United Kingdom	66 573 504	4.23	280	0	14.32	953	953	0	0	-	109	0	100%	92%	Dec-18	100%	-	98%	0%
Uzbekistan	32 364 996	0.00	0	0	0.68	22	22	0	0	135	0	0	100%	92%	Dec-18	100%	0.4	100%	99%
<b>Region</b>	<b>922 458 377</b>	<b>28.13</b>	<b>25863</b>	<b>42</b>	<b>89.54</b>	<b>82596</b>	<b>27661</b>	<b>4042</b>	<b>50893</b>	<b>12938</b>	<b>920</b>	<b>72</b>	<b>99.4%</b>	<b>87.9%</b>		<b>90.0%</b>	<b>2.7</b>	<b>20.0%</b>	<b>53.4%</b>

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 and Ukraine.

<sup>1</sup> Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2017 Revision.

<sup>2</sup> All confirmed measles cases regardless of origin. <sup>3</sup> Unless specified as laboratory confirmed or epi-linked, cases are classified as clinically compatible.

<sup>4</sup> Target (>=80%) not achieving are highlighted in red. <sup>5</sup> 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.

<sup>6</sup> Surveillance indicators can not be calculated for Member States submitting aggregate data.

<sup>7</sup>Country classifies discard cases as "discarded, not measles, not rubella".

**Table 4: Rubella classification, reporting and surveillance performance, January—December 2018 (data as of 01 February 2019)**

Country	Total Population in 2018 <sup>1</sup>	2017 (as of 01 February 2019)		2018													
		Incidence Rate (per 1 million population)	Total rubella cases <sup>2</sup>	Incidence Rate (per 1 million population)	Total rubella cases <sup>2</sup>	Classification			Discarded Rubella	Imported cases	Report			Surveillance Indicators <sup>6</sup>			
						Lab confirmed	Epi-Link	Clinically compatible <sup>3</sup>			Completeness <sup>4</sup>	Timeliness <sup>4</sup>	Month & year of last report	Laboratory investigation rate <sup>4</sup>	Rate of discarded cases <sup>5</sup>	Origin of infection <sup>4</sup>	Timeliness of investigation <sup>4</sup>
Albania <sup>7</sup>	2 934 363	0.00	0	0.00	0	0	0	0	1268	0	100%	50%	Dec-18	100%	43.2	-	74%
Andorra	76 953	0.00	0	0.00	0	0	0	0	0	0	100%	100%	Dec-18	-	0.0	-	-
Armenia	2 934 152	0.00	0	0.00	0	0	0	0	0	0	100%	83%	Dec-18	-	0.0	-	-
Austria	8 751 820	4.69	41	0.69	6	6	0	0	-	0	100%	100%	Dec-18	100%	-	100%	0%
Azerbaijan	9 923 914	0.00	0	0.00	0	0	0	0	69	0	100%	100%	Dec-18	100%	0.7	-	100%
Belarus <sup>7</sup>	9 452 113	0.11	1	0.11	1	1	0	0	430	1	100%	58%	Dec-18	99%	4.5	100%	0%
Belgium <sup>8</sup>	11 498 519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 503 554	0.29	1	0.86	3	0	0	3	-	0	92%	50%	Dec-18	-	-	-	-
Bulgaria	7 036 848	0.00	0	0.14	1	0	0	1	-	0	100%	100%	Dec-18	0%	-	0%	100%
Croatia	4 164 783	0.00	0	0.00	0	0	0	0	-	0	100%	83%	Dec-18	-	-	-	-
Cyprus	1 189 085	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Dec-18	-	-	-	-
Czech Republic	10 625 250	0.19	2	0.19	2	1	1	0	-	0	100%	58%	Dec-18	100%	-	100%	0%
Denmark <sup>8</sup>	5 754 356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 306 788	0.00	0	0.00	0	0	0	0	15	0	100%	100%	Dec-18	100%	1.1	-	100%
Finland	5 542 517	0.18	1	0.00	0	0	0	0	-	0	100%	100%	Dec-18	-	-	-	-
France <sup>8</sup>	65 233 271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 907 131	1.28	5	0.00	0	0	0	0	77	0	100%	33%	Dec-18	74%	2.0	-	96%
Germany	82 293 457	0.90	74	0.69	57	14	0	43	-	3	100%	100%	Dec-18	25%	-	58%	0%
Greece	11 142 161	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Dec-18	-	-	-	-
Hungary	9 688 847	0.00	0	0.00	0	0	0	0	7	0	100%	75%	Dec-18	100%	0.1	-	100%
Iceland	337 780	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Dec-18	-	-	-	-
Ireland	4 803 748	0.00	0	0.83	4	0	0	4	-	0	100%	100%	Dec-18	25%	-	50%	75%
Israel	8 452 841	0.00	0	0.24	2	1	0	1	-	0	100%	67%	Dec-18	100%	-	0%	100%
Italy	59 290 969	1.15	68	0.39	23	7	3	13	21	1	100%	100%	Dec-18	85%	0.0	61%	0%
Kazakhstan	18 403 860	0.00	0	0.05	1	1	0	0	-	0	83%	75%	Dec-18	-	-	-	-
Kyrgyzstan <sup>7</sup>	6 132 932	0.66	4	1.30	8	8	0	0	805	0	100%	75%	Dec-18	51%	13.1	100%	86%
Latvia	1 929 938	0.00	0	1.55	3	3	0	0	-	1	92%	83%	Dec-18	100%	-	100%	33%
Lithuania	2 876 475	0.00	0	0.35	1	1	0	0	-	0	100%	92%	Dec-18	100%	-	100%	0%
Luxembourg	590 321	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Dec-18	-	-	-	-
Malta	432 089	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Dec-18	-	-	-	-
Monaco	38 897	-	-	0.00	0	0	0	0	0	0	17%	17%	Dec-18	-	0.0	-	-
Montenegro	629 219	0.00	0	0.00	0	0	0	0	0	0	100%	33%	Dec-18	-	0.0	-	-
Netherlands	17 084 459	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Dec-18	-	-	-	-
Norway	5 353 363	0.00	0	0.00	0	0	0	0	-	0	100%	92%	Dec-18	-	-	-	-
Poland	38 104 832	12.47	476	11.81	450	3	2	445	-	0	100%	100%	Dec-18	-	-	-	-
Portugal	10 291 196	0.39	4	0.49	5	3	0	2	11	2	100%	92%	Dec-18	81%	0.1	100%	56%
Republic of Moldova	4 041 065	0.00	0	0.00	0	0	0	0	16	0	100%	83%	Dec-18	100%	0.4	-	100%
Romania	19 580 634	0.46	9	0.41	8	5	0	3	-	0	92%	75%	Dec-18	75%	-	100%	100%
Russian Federation	143 964 709	0.05	7	0.04	6	5	1	0	0	0	100%	100%	Dec-18	100%	0.0	100%	67%
San Marino	33 557	0.00	0	0.00	0	0	0	0	0	0	100%	75%	Dec-18	-	0.0	-	-
Serbia	8 762 027	-	-	-	-	-	-	-	-	-	-	-	No Report	-	-	-	-
Slovakia	5 449 816	0.00	0	0.18	1	0	0	1	-	0	100%	100%	Dec-18	0%	-	100%	100%
Slovenia	2 081 260	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Dec-18	-	-	-	-
Spain	46 397 452	0.02	1	0.28	13	10	2	1	9	0	100%	100%	Dec-18	100%	0.0	8%	95%
Sweden	9 982 709	0.00	0	0.00	0	0	0	0	1	0	100%	100%	Dec-18	100%	0.0	-	100%
Switzerland	8 544 034	0.12	1	0.23	2	2	0	0	32	0	100%	100%	Dec-18	91%	0.4	50%	12%
Tajikistan	9 107 211	0.11	1	0.00	0	0	0	0	27	0	100%	92%	Dec-18	100%	0.3	-	100%
The former Yugoslav Republic of Macedonia	2 085 051	0.00	0	0.00	0	0	0	0	-	0	100%	67%	Dec-18	-	-	-	-
Turkey <sup>7</sup>	81 916 871	0.02	2	0.20	16	16	0	0	3232	0	100%	67%	Dec-18	96%	3.9	19%	97.1%
Turkmenistan	5 851 466	0.00	0	0.00	0	0	0	0	57	0	100%	17%	Dec-18	100%	1.0	-	100%
Ukraine	44 009 214	-	-	5.34	235	12	0	223	-	0	100%	75%	Dec-18	-	-	-	-
United Kingdom	66 573 504	0.05	3	0.03	2	2	0	0	-	1	100%	83%	Dec-18	100%	-	100%	0%
Uzbekistan	32 364 996	0.03	1	0.00	0	0	0	0	6	0	100%	92%	Dec-18	100%	0.0	-	100%
<b>Region</b>	<b>922 458 377</b>	<b>0.76</b>	<b>702</b>	<b>0.92</b>	<b>850</b>	<b>101</b>	<b>9</b>	<b>740</b>	<b>6083</b>	<b>9</b>	<b>91.8%</b>	<b>78.0%</b>		<b>90.0%</b>	<b>1.3</b>	<b>11.4%</b>	<b>82.0%</b>

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.

<sup>1</sup> Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2017 Revision.

<sup>2</sup> All confirmed rubella cases regardless of origin.

<sup>3</sup> Unless specified as laboratory confirmed or epi-linked, cases are classified as clinically compatible.

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

<sup>5</sup> 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.

<sup>6</sup> Surveillance indicators can not be calculated for Member States submitting aggregate data.

<sup>7</sup> Country classifies discard cases as "discarded, not measles, not rubella".

<sup>8</sup> Country does not have a comprehensive rubella surveillance system.

**Table 5: Measles and rubella laboratory test results, January—December 2018 (data as of 01 February 2019)**

Country	Measles				Rubella				Report		
	Total specimens tested <sup>1</sup>	Positive for measles (%) <sup>1</sup>	Genotypes reported to MeaNS <sup>2</sup>	Sequencing reported within 60 days <sup>2</sup>	Total specimens tested <sup>1</sup>	Positive for rubella (%) <sup>1</sup>	Genotypes reported to RubeNS <sup>3</sup>	Sequencing reported within 60 days <sup>3</sup>	Completeness <sup>4</sup>	Timeliness <sup>4</sup>	Month of last report
Albania	2633	1368 (52.0)	B3	0%	0	0	-	-	100%	<b>75%</b>	Dec-18
Andorra											No Lab
Armenia	259	19 (7.0)	D8	0%	259	0 (0.0)	-	-	100%	<b>50%</b>	Dec-18
Austria	1635	65 (4.0)	B3,D8	100%	5184	9 (0.0)	1E,2B	0%	100%	92%	Dec-18
Azerbaijan	184	0 (0.0)	-	-	259	0 (0.0)	-	-	83%	83%	Oct-18
Belarus	793	304 (38.0)	B3,D8	100%	475	4 (1.0)	2B	100%	100%	83%	Dec-18
Belgium	291	105 (36.0)	B3,D8	71%	109	8 (7.0)	-	-	83%	<b>33%</b>	Oct-18
Bosnia and Herzegovina	85	30 (35.0)	B3	67%	85	4 (5.0)	-	-	92%	92%	Dec-18
Bulgaria	208	20 (10.0)	B3,D8	20%	108	0 (0.0)	-	-	100%	83%	Dec-18
Croatia	75	-	B3,D8	86%	25	0 (0.0)	-	-	<b>50%</b>	<b>8%</b>	Jun-18
Cyprus	203	18 (9.0)	-	-	296	0 (0.0)	-	-	<b>75%</b>	<b>33%</b>	Sep-18
Czech Republic	547	194 (35.0)	D8	33%	25	7 (28.0)	-	-	100%	100%	Dec-18
Denmark	922	37 (4.0)	B3,D8	100%	43	2 (5.0)	-	-	100%	100%	Dec-18
Estonia	177	17 (10.0)	-	-	397	3 (1.0)	-	-	92%	92%	Dec-18
Finland	172	30 (17.0)	D8	43%	172	5 (3.0)	-	-	100%	92%	Dec-18
France	1658	568 (34.0)	B3,D8	4%	607	0 (0.0)	2B	0%	92%	<b>42%</b>	Nov-18
Georgia	-	-	-	-	-	-	-	-	-	-	No Report
Germany	-	-	B3,D8	3%	-	-	-	-	-	-	No Report
Greece	524	444 (85.0)	B3	7%	0	0	-	-	<b>50%</b>	<b>8%</b>	Jun-18
Hungary	277	30 (11.0)	B3,D8	100%	168	0 (0.0)	-	-	100%	92%	Dec-18
Iceland	-	-	-	-	-	-	-	-	-	-	No Report
Ireland	2052	170 (8.0)	B3,D8	100%	2381	0 (0.0)	-	-	100%	92%	Dec-18
Israel	4190	1546 (37.0)	D8	92%	4333	374 (9.0)	2B	100%	100%	<b>75%</b>	Dec-18
Italy	2552	1359 (53.0)	B3,D8	39%	1229	64 (5.0)	-	-	100%	83%	Dec-18
Kazakhstan	658	509 (77.0)	B3,D8	80%	165	1 (1.0)	-	-	100%	100%	Dec-18
Kyrgyzstan	879	476 (54.0)	B3	11%	816	7 (1.0)	-	-	100%	100%	Dec-18
Latvia	977	91 (9.0)	B3,D8	62%	785	11 (1.0)	-	-	100%	<b>50%</b>	Dec-18
Lithuania	134	38 (28.0)	-	-	95	2 (2.0)	-	-	100%	83%	Dec-18
Luxembourg	75	2 (3.0)	B3,D8	100%	0	0	-	-	100%	100%	Dec-18
Malta	127	18 (14.0)	B3,D8	25%	566	0 (0.0)	-	-	<b>75%</b>	<b>58%</b>	Sep-18
Monaco											No Lab
Montenegro	-	-	-	-	-	-	-	-			No Report
Netherlands	66	21 (32.0)	B3,D8	100%	60	0 (0.0)	-	-	100%	100%	Dec-18
Norway	-	-	B3,D8	100%	-	-	-	-	-	-	No Report
Poland	-	-	B3,D8	40%	-	-	-	-	-	-	No Report
Portugal	1268	185 (15.0)	B3,D8	22%	10	2 (20.0)	-	-	100%	83%	Dec-18
Republic of Moldova	300	199 (66.0)	B3,D8	0%	274	0 (0.0)	-	-	100%	92%	Dec-18
Romania	4791	3951 (82.0)	B3,D8	71%	747	11 (1.0)	-	-	100%	<b>75%</b>	Dec-18
Russian Federation	8454	3098 (37.0)	B3,D8	61%	7008	58 (1.0)	-	-	100%	92%	Dec-18
San Marino											No Lab
Serbia	4888	2698 (55.0)	B3,D8	0%	2255	14 (1.0)	-	-	100%	100%	Dec-18
Slovakia	254	80 (31.0)	B3,D8	0%	12	0 (0.0)	-	-	100%	92%	Dec-18
Slovenia	279	17 (6.0)	B3	100%	117	0 (0.0)	-	-	100%	92%	Dec-18
Spain	-	-	B3,D8,D4	32%	-	-	2B	100%	-	-	No Report
Sweden	2774	147 (5.0)	B3,D8	100%	1945	7 (0.0)	-	-	100%	<b>58%</b>	Dec-18
Switzerland	204	73 (36.0)	B3,D8	91%	6	6 (100.0)	-	-	100%	92%	Dec-18
Tajikistan	86	0 (0.0)	-	-	83	0 (0.0)	-	-	83%	83%	Dec-18
The former Yugoslav Republic of Macedonia	17	7 (41.0)	-	-	3	0 (0.0)	-	-	<b>25%</b>	<b>0%</b>	May-18
Turkey	6392	773 (12.0)	B3,D8	13%	5362	99 (2.0)	-	-	100%	<b>50%</b>	Dec-18
Turkmenistan	115	0 (0.0)	-	-	115	0 (0.0)	-	-	100%	100%	Dec-18
Ukraine	1073	533 (50.0)	B3,D8	3%	309	10 (3.0)	-	-	92%	<b>75%</b>	Nov-18
United Kingdom	5576	1079 (19.0)	B3,D8	95%	1367	7 (1.0)	-	-	100%	100%	Dec-18
Uzbekistan	181	22 (12.0)	D8	25%	181	0 (0.0)	-	-	100%	92%	Dec-18
<b>Region</b>	<b>59005</b>	<b>20358 (35%)</b>	<b>-</b>	<b>52%</b>	<b>38436</b>	<b>715 (2%)</b>	<b>-</b>	<b>44%</b>	<b>75.3%</b>	<b>61.8%</b>	

<sup>1</sup> Data source: monthly aggregated or specimen-based data reported to WHO/Europe.

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

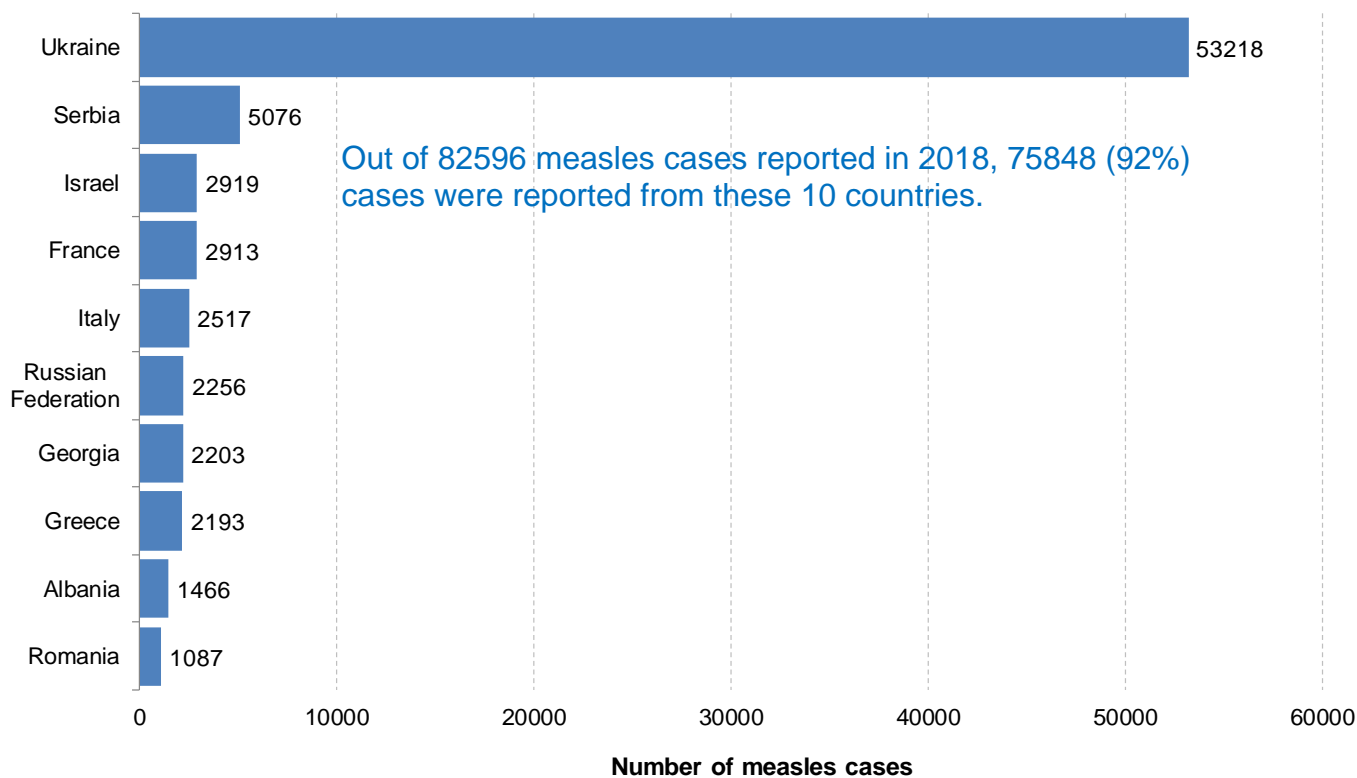
<sup>3</sup> RubeNS: <http://www.who-rubella.org/>. Timeliness of sequence reporting relates to the time between specimen collection and reporting to RubeNS.

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

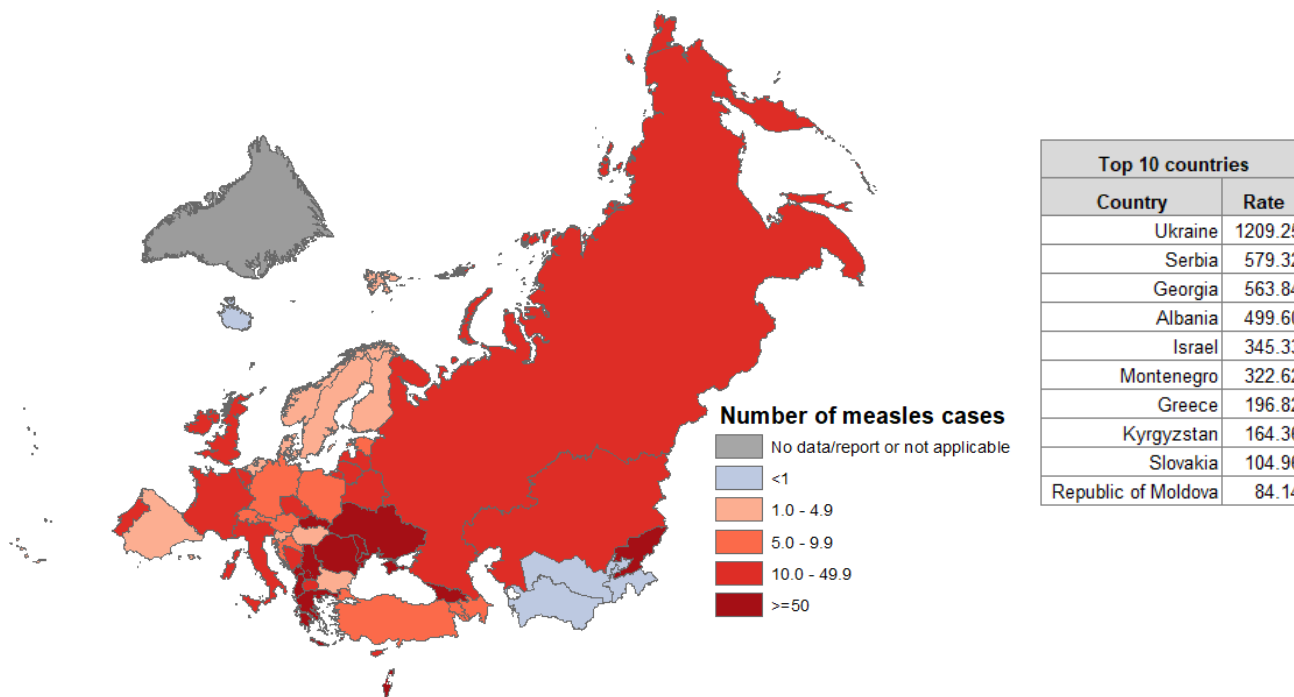
*NB: Specimen based data are not population based, and should not be interpreted as indicators for epidemiological surveillance. Laboratories may have received more than 1 clinical sample or may have conducted more than 1 test for a given case reported in Table 1.*



**Figure 1: Ten countries with the highest numbers of measles cases in the WHO European Region, January—December 2018 (data as of 01 February 2019)\***



**Figure 2: Map of measles incidence rate per million in the WHO European Region, January—December 2018 (data as of 01 February 2019)\***



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 borderlines for which there may not yet be full agreement. © WHO 2019. All rights reserved.

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

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