

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 March 2018—February 2019 (data as of 28 March 2019)

Country	Total Population in 2018 ¹	Incidence Rate Mar 2018–Feb 2019 (per 1 million population)	Total measles cases	Month and year of rash onset												Month & year of last report
				Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	
Albania	2 934 363	468.93	1376	345	359	245	134	45	13	17	20	34	27	73	64	Feb-19
Andorra	76 953	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Armenia	2 934 152	6.48	19	14	1	0	0	0	0	1	0	0	1	0	2	Feb-19
Austria	8 751 820	13.71	120	14	16	11	6	1	3	6	0	4	1	25	33	Feb-19
Azerbaijan	9 923 914	29.12	289	0	0	0	0	0	0	0	0	24	47	131	87	Feb-19
Belarus	9 452 113	26.45	250	41	53	58	13	23	12	7	2	5	5	14	17	Feb-19
Belgium	11 498 519	18.87	217	9	11	24	22	3	11	14	4	8	7	18	86	Feb-19
Bosnia and Herzegovina	3 503 554	32.25	113	13	13	34	13	4	0	0	0	0	0	2	34	Feb-19
Bulgaria	7 036 848	8.95	63	2	1	1	1	7	0	0	0	0	0	0	51	Feb-19
Croatia	4 164 783	5.52	23	0	1	2	16	3	1	0	0	0	0	0	0	Feb-19
Cyprus	1 189 085	2.52	3	2	0	0	0	0	0	0	0	0	0	1	0	Feb-19
Czech Republic	10 625 250	32.47	345	38	39	24	10	3	6	6	6	20	27	50	116	Feb-19
Denmark	5 754 356	2.09	12	3	0	0	0	0	2	2	0	0	1	2	2	Feb-19
Estonia	1 306 788	14.54	19	4	6	0	0	0	0	0	0	0	0	4	5	Feb-19
Finland	5 542 517	3.79	21	0	1	3	0	0	3	0	0	2	6	3	3	Feb-19
France	65 233 271	37.93	2474	761	620	250	191	81	29	38	76	61	54	125	188	Feb-19
Georgia	3 907 131	772.18	3017	158	221	253	211	163	60	47	105	219	482	1098	-	Jan-19
Germany	82 293 457	7.70	634	61	101	89	102	42	25	25	8	9	17	108	47	Feb-19
Greece	11 142 161	114.52	1276	501	371	249	112	29	8	2	0	0	1	1	2	Feb-19
Hungary	9 688 847	1.44	14	6	0	0	0	0	0	0	0	0	1	2	5	Feb-19
Iceland	337 780	2.96	1	0	0	0	0	0	0	0	0	0	0	0	1	Feb-19
Ireland	4 803 748	14.36	69	17	4	1	1	7	15	2	1	1	1	3	16	Feb-19
Israel	8 452 841	418.91	3541	9	34	37	75	76	140	337	957	897	575	278	126	Feb-19
Italy	59 290 969	42.13	2498	391	498	461	317	147	79	56	83	58	76	172	160	Feb-19
Kazakhstan	18 403 860	216.80	3990	0	1	0	-	1	-	4	8	106	456	1516	1898	Feb-19
Kyrgyzstan	6 132 932	333.12	2043	33	70	80	99	60	31	75	115	173	322	531	454	Feb-19
Latvia	1 929 938	5.18	10	0	2	3	0	1	1	0	1	0	2	0	0	Feb-19
Lithuania	2 876 475	14.60	42	0	0	0	1	0	1	0	0	15	16	9	-	Jan-19
Luxembourg	590 321	6.78	4	0	1	0	0	0	2	0	0	1	0	0	0	Feb-19
Malta	432 089	11.57	5	0	0	0	0	5	0	0	0	0	0	0	0	Feb-19
Monaco	38 897	0.00	0	0	0	-	0	0	0	0	0	0	0	0	0	Feb-19
Montenegro	629 219	297.19	187	54	60	47	16	10	0	0	0	0	0	0	0	Feb-19
Netherlands	17 084 459	1.70	29	2	0	3	10	1	4	0	0	0	2	4	3	Feb-19
North Macedonia	2 085 051	105.99	221	0	0	1	3	24	7	2	1	5	13	165	-	Jan-19
Norway	5 353 363	1.68	9	2	1	2	0	1	2	0	0	0	0	0	1	Feb-19
Poland	38 104 832	11.31	431	6	24	12	15	21	12	4	34	87	135	81	0	Feb-19
Portugal	10 291 196	16.62	171	106	13	0	3	1	3	3	2	24	12	2	2	Feb-19
Republic of Moldova	4 041 065	84.38	341	0	2	23	10	1	245	20	11	21	4	3	1	Feb-19
Romania	19 580 634	66.75	1307	105	111	104	111	100	92	72	65	81	130	261	75	Feb-19
Russian Federation	143 964 709	15.36	2212	320	257	236	296	167	172	77	54	63	25	239	306	Feb-19
San Marino	33 557	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Serbia	8 762 027	336.34	2947	1522	684	447	170	49	16	15	23	12	7	1	1	Feb-19
Slovakia	5 449 816	118.17	644	1	2	23	83	263	63	26	22	39	49	41	32	Feb-19
Slovenia	2 081 260	3.36	7	0	0	3	3	0	0	0	1	0	0	0	0	Feb-19
Spain	46 397 452	4.87	226	52	50	41	25	15	7	4	4	1	6	11	10	Feb-19
Sweden	9 982 709	2.40	24	1	4	3	2	5	1	3	1	1	2	0	1	Feb-19
Switzerland	8 544 034	10.53	90	6	3	3	2	1	4	4	12	1	2	9	43	Feb-19
Tajikistan	9 107 211	0.11	1	0	0	0	0	0	0	0	0	0	0	0	1	Feb-19
Turkey	81 916 871	6.81	558	51	86	160	65	85	63	1	0	22	25	0	-	Jan-19
Turkmenistan	5 851 466	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Ukraine	44 009 214	1645.29	72408	2618	3812	5629	4882	3877	2517	1848	3808	7916	10182	13760	11559	Feb-19
United Kingdom	66 573 504	13.86	923	150	202	155	100	82	54	16	21	26	11	71	35	Feb-19
Uzbekistan	32 364 996	1.30	42	0	0	2	7	7	0	1	0	0	6	9	10	Feb-19
Region	922 458 377	114.11	105266	7418	7735	8719	7127	5411	3704	2735	5445	9936	12736	18823	15477	

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

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

Tables 1–4, criteria for date of case inclusion may differ in accordance with Member States' surveillance systems.

Table 2: Reported rubella cases for the period March 2018—February 2019 (data as of 28 March 2019)

Country	Total Population in 2018 ¹	Incidence Rate Mar 2018–Feb 2019 (per 1 million population)	Total rubella cases	Month and year of rash onset												Month & year of last report
				Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	
Albania	2 934 363	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Andorra	76 953	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Armenia	2 934 152	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Austria	8 751 820	0.11	1	0	0	0	0	0	0	0	0	0	0	0	1	Feb-19
Azerbaijan	9 923 914	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Belarus	9 452 113	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Belgium ²	11 498 519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 503 554	0.57	2	0	0	1	-	0	0	0	0	1	0	0	0	Feb-19
Bulgaria	7 036 848	0.14	1	0	1	0	0	0	0	0	0	0	0	0	0	Feb-19
Croatia	4 164 783	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Cyprus	1 189 085	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Czech Republic	10 625 250	0.09	1	0	0	0	0	1	0	0	0	0	0	0	-	Jan-19
Denmark ²	5 754 356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 306 788	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Finland	5 542 517	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
France ²	65 233 271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 907 131	0.77	3	0	0	0	0	0	0	0	0	0	0	3	-	Jan-19
Germany	82 293 457	0.66	54	5	5	3	8	6	5	6	4	2	4	3	3	Feb-19
Greece	11 142 161	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Hungary	9 688 847	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Iceland	337 780	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Ireland	4 803 748	0.62	3	0	1	0	0	1	0	0	1	0	0	0	0	Feb-19
Israel	8 452 841	0.24	2	1	0	0	0	0	0	0	1	0	0	0	0	Feb-19
Italy	59 290 969	0.37	22	2	4	2	2	3	1	2	0	2	0	3	1	Feb-19
Kazakhstan	18 403 860	0.16	3	0	0	0	-	0	-	0	1	0	0	1	1	Feb-19
Kyrgyzstan	6 132 932	0.65	4	3	0	0	1	0	0	0	0	0	0	0	0	Feb-19
Latvia	1 929 938	0.52	1	0	1	0	0	0	0	0	0	0	0	0	0	Feb-19
Lithuania	2 876 475	0.35	1	0	0	1	0	0	0	0	0	0	0	0	-	Jan-19
Luxembourg	590 321	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Malta	432 089	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Monaco	38 897	0.00	0	-	-	-	-	-	-	-	-	0	0	0	0	Feb-19
Montenegro	629 219	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Netherlands	17 084 459	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
North Macedonia	2 085 051	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Jan-19
Norway	5 353 363	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Poland	38 104 832	11.55	440	42	47	58	50	39	36	22	27	26	24	44	25	Feb-19
Portugal	10 291 196	0.49	5	0	0	0	2	0	1	1	0	0	0	1	0	Feb-19
Republic of Moldova	4 041 065	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Romania	19 580 634	0.41	8	1	1	0	2	1	1	1	0	1	0	0	0	Feb-19
Russian Federation	143 964 709	0.08	12	0	0	2	1	0	0	1	0	1	1	1	5	Feb-19
San Marino	33 557	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Serbia	8 762 027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No report
Slovakia	5 449 816	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Slovenia	2 081 260	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Spain	46 397 452	0.34	16	0	1	1	1	0	0	0	0	0	10	3	0	Feb-19
Sweden	9 982 709	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Switzerland	8 544 034	0.12	1	0	0	1	0	0	0	0	0	0	0	0	0	Feb-19
Tajikistan	9 107 211	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Turkey	81 916 871	0.20	16	4	4	1	1	0	1	1	0	4	0	0	-	Jan-19
Turkmenistan	5 851 466	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Ukraine	44 009 214	4.95	218	17	32	20	12	11	28	15	9	12	13	17	32	Feb-19
United Kingdom	66 573 504	0.02	1	0	0	0	0	0	0	1	0	0	0	0	0	Feb-19
Uzbekistan	32 364 996	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Feb-19
Region	922 458 377	0.88	815	75	97	90	80	62	73	50	43	49	52	76	68	

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

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

² Country does not have a comprehensive rubella surveillance system.

Table 3: Measles classification, reporting and surveillance performance, January—February 2019 (data as of 28 March 2019)

Country	Total Population in 2018 ¹	2018 (as of 28 March 2019)			2019													
		Incidence Rate (per 1 million population)	Total measles cases ²	Total measles death	Total measles cases ²	Classification			Discarded Measles	Imported cases	Measles Death	Report			Surveillance Indicators ⁶			
						Lab confirmed	Epi-Link	Clinically compatible ³				Completeness ⁴	Timeliness ⁴	Month & year of last report	Laboratory investigation rate ⁴	Rate of discarded cases ⁵	Origin of infection ⁴	Timeliness of investigation ⁴
Albania ⁷	2 934 363	499.60	1466	3	137	127	0	10	113	4	2	100%	100%	Feb-19	96%	3.9	100%	100%
Andorra	76 953	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Feb-19	-	0.0	-	-
Armenia	2 934 152	6.48	19	0	2	2	0	0	26	2	0	100%	100%	Feb-19	100%	0.9	100%	100%
Austria	8 751 820	8.80	77	0	58	52	6	0	23	6	0	100%	100%	Feb-19	83%	0.3	100%	11%
Azerbaijan	9 923 914	7.15	71	0	218	200	0	18	23	1	0	100%	100%	Feb-19	92%	0.2	91%	99%
Belarus ⁷	9 452 113	25.07	237	0	31	31	0	0	41	0	0	100%	100%	Feb-19	100%	0.4	0%	0%
Belgium	11 498 519	10.44	120	0	104	88	12	4	-	0	0	100%	100%	Feb-19	-	-	-	-
Bosnia and Herzegovina	3 503 554	25.40	89	0	36	11	0	25	-	0	0	100%	100%	Feb-19	-	-	-	-
Bulgaria	7 036 848	1.85	13	0	51	36	15	0	-	1	0	100%	100%	Feb-19	100%	-	100%	100%
Croatia	4 164 783	5.52	23	0	0	0	0	0	0	-	-	100%	100%	Feb-19	-	0.0	-	-
Cyprus	1 189 085	11.77	14	0	1	1	0	0	-	1	0	100%	100%	Feb-19	100%	-	100%	0%
Czech Republic	10 625 250	20.42	217	0	166	102	33	31	-	13	0	100%	100%	Feb-19	100%	-	8%	0%
Denmark	5 754 356	1.39	8	0	4	4	0	0	-	2	0	100%	100%	Feb-19	100%	-	100%	0%
Estonia	1 306 788	7.65	10	0	9	9	0	0	14	6	0	100%	100%	Feb-19	100%	1.1	67%	100%
Finland	5 542 517	2.71	15	0	6	6	0	0	-	2	0	100%	100%	Feb-19	100%	-	33%	0%
France	65 233 271	44.66	2913	3	313	170	58	85	-	36	0	100%	100%	Feb-19	89%	-	90%	0%
Georgia	3 907 131	563.84	2203	3	1098	695	28	375	104	0	0	50%	0%	Jan-19	68%	2.7	99%	94%
Germany	82 293 457	6.59	542	0	155	109	40	6	-	22	0	100%	50%	Feb-19	95%	-	62%	0%
Greece	11 142 161	196.82	2193	2	3	2	1	0	1	3	0	100%	100%	Feb-19	100%	0.0	100%	0%
Hungary	9 688 847	1.44	14	0	7	7	0	0	0	6	0	100%	100%	Feb-19	100%	0.0	100%	100%
Iceland	337 780	0.00	0	-	1	1	0	0	-	1	0	100%	100%	Feb-19	100%	-	100%	100%
Ireland	4 803 748	16.24	78	0	19	13	4	2	-	2	0	100%	100%	Feb-19	100%	-	63%	79%
Israel	8 452 841	371.47	3140	0	404	266	125	13	-	0	0	100%	100%	Feb-19	95%	-	0%	53%
Italy	59 290 969	45.30	2686	9	332	285	18	29	47	18	0	100%	100%	Feb-19	93%	0.1	92%	0%
Kazakhstan	18 403 860	31.30	576	0	3414	2672	569	173	-	0	0	100%	100%	Feb-19	-	-	-	-
Kyrgyzstan ⁷	6 132 932	179.85	1103	2	985	27	559	399	158	0	0	100%	100%	Feb-19	6%	2.6	97%	99%
Latvia	1 929 938	10.36	20	0	0	0	0	0	-	-	-	100%	100%	Feb-19	-	-	-	-
Lithuania	2 876 475	11.47	33	0	9	9	0	0	-	1	0	50%	50%	Jan-19	100%	-	100%	67%
Luxembourg	590 321	6.78	4	0	0	0	0	0	-	-	-	100%	100%	Feb-19	-	-	-	-
Malta	432 089	11.57	5	0	0	0	0	0	-	-	-	100%	100%	Feb-19	-	-	-	-
Monaco	38 897	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Feb-19	-	0.0	-	-
Montenegro	629 219	322.62	203	0	0	0	0	0	9	-	-	100%	50%	Feb-19	100%	1.4	-	100%
Netherlands	17 084 459	1.40	24	0	7	7	0	0	-	2	0	100%	100%	Feb-19	43%	-	71%	0%
North Macedonia	2 085 051	30.69	64	0	165	0	0	165	-	0	0	50%	50%	Jan-19	-	-	-	-
Norway	5 353 363	2.24	12	0	1	1	0	0	-	1	0	100%	100%	Feb-19	100%	-	100%	100%
Poland	38 104 832	9.89	377	0	81	60	8	13	-	15	0	100%	100%	Feb-19	82%	-	83%	100%
Portugal	10 291 196	16.62	171	0	4	3	0	1	22	1	0	100%	100%	Feb-19	100%	0.2	25%	96%
Republic of Moldova	4 041 065	84.14	340	0	4	4	0	0	7	2	0	100%	100%	Feb-19	100%	0.2	75%	91%
Romania	19 580 634	75.13	1471	22	336	242	88	6	-	1	1	100%	100%	Feb-19	98%	-	100%	100%
Russian Federation	143 964 709	15.67	2256	1	545	475	69	1	415	40	0	100%	100%	Feb-19	100%	0.3	100%	47%
San Marino	33 557	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Feb-19	-	0.0	-	-
Serbia	8 762 027	579.32	5076	14	2	2	0	0	-	0	0	100%	100%	Feb-19	-	-	-	-
Slovakia	5 449 816	104.96	572	0	73	61	8	4	8	2	0	100%	100%	Feb-19	93%	0.1	100%	100%
Slovenia	2 081 260	4.32	9	0	0	0	0	0	-	-	-	100%	100%	Feb-19	-	-	-	-
Spain	46 397 452	4.85	225	0	21	20	1	0	18	6	0	100%	100%	Feb-19	97%	0.0	48%	92%
Sweden	9 982 709	3.81	38	0	1	1	0	0	-	0	0	100%	100%	Feb-19	100%	-	0%	0%
Switzerland	8 544 034	5.97	51	0	52	31	20	1	49	11	0	100%	100%	Feb-19	99%	0.6	96%	50%
Tajikistan	9 107 211	0.00	0	-	1	1	0	0	8	0	0	100%	100%	Feb-19	100%	0.1	100%	89%
Turkey ⁷	81 916 871	6.93	568	0	0	0	0	0	0	-	-	50%	0%	Jan-19	-	0.0	-	-
Turkmenistan	5 851 466	0.00	0	-	0	0	0	0	10	-	-	100%	100%	Feb-19	100%	0.2	-	100%
Ukraine	44 009 214	1209.25	53218	15	25319	2389	0	22930	-	0	10	100%	100%	Feb-19	-	-	-	-
United Kingdom	66 573 504	14.32	953	0	106	106	0	0	-	14	0	100%	100%	Feb-19	100%	-	99%	3%
Uzbekistan	32 364 996	0.71	23	0	19	19	0	0	60	19	0	100%	100%	Feb-19	100%	0.2	100%	99%
Region	922 458 377	90.56	83540	74	34300	8347	1662	24291	1156	241	13	96%	92%		81%	0.2	85%	67%

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

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

² All confirmed measles cases regardless of origin.

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

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

⁵ 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.

⁶ Surveillance indicators can not be calculated for Member States submitting aggregate data.

⁷ Country classifies discard cases as "discarded, not measles, not rubella".

Table 4: Rubella classification, reporting and surveillance performance, January—February 2019 (data as of 28 March 2019)

Country	Total Population in 2018 ¹	2018 (as of 28 March 2019)		2019												
		Incidence Rate (per 1 million population)	Total rubella cases ²	Total rubella cases ²	Classification			Discarded Rubella	Imported cases	Report			Surveillance Indicators ⁶			
					Lab confirmed	Epi-Link	Clinically compatible ³			Completeness ⁴	Timeliness ⁴	Month & year of last report	Laboratory investigation rate ⁴	Rate of discarded cases ⁵	Origin of infection ⁴	Timeliness of investigation ⁴
Albania ⁷	2 934 363	0.00	0	0	0	0	0	113	-	100%	100%	Feb-19	100%	3.9	-	100%
Andorra	76 953	0.00	0	0	0	0	0	0	-	100%	100%	Feb-19	-	0.0	-	-
Armenia	2 934 152	0.00	0	0	0	0	0	0	-	100%	100%	Feb-19	-	0.0	-	-
Austria	8 751 820	0.69	6	1	1	0	0	-	0	100%	100%	Feb-19	100%	-	100%	0%
Azerbaijan	9 923 914	0.00	0	0	0	0	0	1	-	100%	100%	Feb-19	100%	0.0	-	100%
Belarus ⁷	9 452 113	0.21	2	0	0	0	0	41	-	100%	100%	Feb-19	100%	0.4	-	0%
Belgium ⁸	11 498 519	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 503 554	0.86	3	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Bulgaria	7 036 848	0.14	1	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Croatia	4 164 783	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Cyprus	1 189 085	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Czech Republic	10 625 250	0.19	2	0	0	0	0	-	-	50%	50%	Jan-19	-	-	-	-
Denmark ⁸	5 754 356	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 306 788	0.00	0	0	0	0	0	1	-	100%	100%	Feb-19	100%	0.1	-	100%
Finland	5 542 517	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
France ⁸	65 233 271	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 907 131	0.00	0	3	3	0	0	0	0	50%	0%	Jan-19	100%	0.0	100%	100%
Germany	82 293 457	0.70	58	6	1	0	5	-	0	100%	50%	Feb-19	17%	-	50%	0%
Greece	11 142 161	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Hungary	9 688 847	0.00	0	0	0	0	0	0	-	100%	100%	Feb-19	-	0.0	-	-
Iceland	337 780	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Ireland	4 803 748	0.83	4	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Israel	8 452 841	0.24	2	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Italy	59 290 969	0.35	21	4	1	0	3	2	0	100%	100%	Feb-19	67%	0.0	100%	0%
Kazakhstan	18 403 860	0.05	1	2	2	0	0	-	0	100%	100%	Feb-19	-	-	-	-
Kyrgyzstan ⁷	6 132 932	1.30	8	0	0	0	0	158	-	100%	100%	Feb-19	4%	2.6	-	97%
Latvia	1 929 938	1.55	3	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Lithuania	2 876 475	0.35	1	0	0	0	0	-	-	50%	50%	Jan-19	-	-	-	-
Luxembourg	590 321	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Malta	432 089	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Monaco	38 897	0.00	0	0	0	0	0	0	-	100%	100%	Feb-19	-	0.0	-	-
Montenegro	629 219	0.00	0	0	0	0	0	0	-	100%	50%	Feb-19	-	0.0	-	-
Netherlands	17 084 459	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
North Macedonia	2 085 051	0.00	0	0	0	0	0	-	-	50%	50%	Jan-19	-	-	-	-
Norway	5 353 363	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Poland	38 104 832	11.81	450	69	1	1	67	-	0	100%	100%	Feb-19	-	-	-	-
Portugal	10 291 196	0.49	5	1	0	0	1	1	0	100%	100%	Feb-19	50%	0.0	0%	50%
Republic of Moldova	4 041 065	0.00	0	0	0	0	0	1	-	100%	100%	Feb-19	100%	0.0	-	100%
Romania	19 580 634	0.46	9	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Russian Federation	143 964 709	0.04	6	6	6	0	0	0	0	100%	100%	Feb-19	100%	0.0	100%	17%
San Marino	33 557	0.00	0	0	0	0	0	0	-	100%	100%	Feb-19	-	0.0	-	-
Serbia	8 762 027	-	-	-	-	-	-	-	-	-	-	No report	-	-	-	-
Slovakia	5 449 816	0.00	0	0	0	0	0	0	-	100%	100%	Feb-19	-	0.0	-	-
Slovenia	2 081 260	0.00	0	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Spain	46 397 452	0.28	13	3	2	1	0	4	0	100%	100%	Feb-19	100%	0.0	0%	100%
Sweden	9 982 709	0.00	0	0	0	0	0	0	-	100%	100%	Feb-19	-	0.0	-	-
Switzerland	8 544 034	0.23	2	0	0	0	0	4	-	100%	100%	Feb-19	100%	0.0	-	0%
Tajikistan	9 107 211	0.00	0	0	0	0	0	4	-	100%	100%	Feb-19	100%	0.0	-	75%
Turkey ⁷	81 916 871	0.20	16	0	0	0	0	0	-	50%	0%	Jan-19	-	0.0	-	-
Turkmenistan	5 851 466	0.00	0	0	0	0	0	0	-	100%	100%	Feb-19	-	0.0	-	-
Ukraine	44 009 214	5.34	235	49	7	0	42	-	0	100%	100%	Feb-19	-	-	-	-
United Kingdom	66 573 504	0.03	2	0	0	0	0	-	-	100%	100%	Feb-19	-	-	-	-
Uzbekistan	32 364 996	0.00	0	0	0	0	0	0	-	100%	100%	Feb-19	-	0.0	-	-
Region	922 458 377	0.92	850	144	24	2	118	330	0	88%	84%		55%	0.1	71%	81%

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

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

² All confirmed rubella cases regardless of origin.

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

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

⁵ 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.

⁶ Surveillance indicators can not be calculated for Member States submitting aggregate data.

⁷ Country classifies discard cases as "discarded, not measles, not rubella".

⁸ Country does not have a comprehensive rubella surveillance system.

Table 5: Measles and rubella laboratory test results, January—February 2019 (data as of 28 March 2019)

Country	Measles				Rubella				Report ¹		
	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	228	122 (54)	-	-	1	1 (100)	-	-	100%	100%	Feb-19
Andorra											No lab
Armenia	10	0 (0)	-	-	10	0 (0)	-	-	50%	50%	Jan-19
Austria	406	50 (12)	D8	100%	972	0 (0)	-	-	100%	100%	Feb-19
Azerbaijan	-	-	-	-	-	-	-	-	-	-	No report
Belarus	97	44 (45)	D8	100%	77	0 (0)	-	-	100%	100%	Feb-19
Belgium	-	-	-	-	-	-	-	-	-	-	No report
Bosnia and Herzegovina	47	36 (77)	B3	100%	44	0 (0)	-	-	100%	100%	Feb-19
Bulgaria	125	57 (46)	-	-	75	0 (0)	-	-	100%	100%	Feb-19
Croatia	0	-	-	-	0	-	-	-	50%	0%	Jan-19
Cyprus	-	-	-	-	-	-	-	-	-	-	No report
Czech Republic	350	199 (57)	-	-	88	16 (18)	-	-	100%	100%	Feb-19
Denmark	321	18 (6)	B3,D8	100%	7	1 (14)	-	-	100%	100%	Feb-19
Estonia	72	10 (14)	-	-	45	0 (0)	-	-	100%	100%	Feb-19
Finland	82	27 (33)	D8	100%	82	0 (0)	-	-	100%	100%	Feb-19
France	-	-	B3,D8	100%	-	-	-	-	-	-	No report
Georgia	1048	805 (77)	D8	100%	179	3 (2)	-	-	100%	100%	Feb-19
Germany	-	-	D8	100%	-	-	-	-	-	-	No report
Greece	-	-	-	-	-	-	-	-	-	-	No report
Hungary	59	15 (25)	D8	100%	31	0 (0)	-	-	100%	100%	Feb-19
Iceland	-	-	-	-	-	-	-	-	-	-	No report
Ireland	330	32 (10)	-	-	381	0 (0)	-	-	100%	100%	Feb-19
Israel	1230	408 (33)	D8	100%	1264	37 (3)	-	-	100%	50%	Feb-19
Italy	919	563 (61)	B3,D8	39%	240	5 (2)	-	-	100%	100%	Feb-19
Kazakhstan	3113	2670 (86)	B3,D8	100%	507	2 (0)	-	-	100%	100%	Feb-19
Kyrgyzstan	55	40 (73)	-	-	54	0 (0)	-	-	100%	100%	Feb-19
Latvia	30	2 (7)	-	-	46	1 (2)	-	-	100%	100%	Feb-19
Lithuania	413	143 (35)	-	-	99	0 (0)	-	-	100%	100%	Feb-19
Luxembourg	17	0 (0)	-	-	0	-	-	-	100%	100%	Feb-19
Malta	1	0 (0)	-	-	60	0 (0)	-	-	50%	50%	Jan-19
Monaco											No lab
Montenegro	-	-	-	-	-	-	-	-	-	-	No report
Netherlands	15	6 (40)	D8	100%	11	0 (0)	-	-	100%	100%	Feb-19
North Macedonia	397	188 (47)	-	-	0	-	-	-	100%	50%	Feb-19
Norway	-	-	D8	100%	-	-	-	-	-	-	No report
Poland	-	-	-	-	-	-	-	-	-	-	No report
Portugal	115	16 (14)	D8	50%	5	0 (0)	-	-	100%	100%	Feb-19
Republic of Moldova	17	5 (29)	-	-	15	0 (0)	-	-	100%	100%	Feb-19
Romania	466	377 (81)	B3,D8	100%	94	0 (0)	-	-	100%	100%	Feb-19
Russian Federation	1699	856 (50)	-	-	1247	16 (1)	-	-	100%	100%	Feb-19
San Marino											No lab
Serbia	27	2 (7)	-	-	27	1 (4)	-	-	100%	100%	Feb-19
Slovakia	52	30 (58)	-	-	0	-	-	-	100%	100%	Feb-19
Slovenia	17	0 (0)	-	-	17	0 (0)	-	-	100%	100%	Feb-19
Spain	-	-	B3,D8	67%	-	-	-	-	-	-	No report
Sweden	264	6 (2)	B3,D8	100%	268	2 (1)	-	-	100%	100%	Feb-19
Switzerland	94	47 (50)	B3,D8	100%	0	-	-	-	100%	100%	Feb-19
Tajikistan	-	-	-	-	-	-	-	-	-	-	No report
Turkey	479	60 (13)	-	-	404	5 (1)	-	-	50%	50%	Jan-19
Turkmenistan	8	0 (0)	-	-	8	0 (0)	-	-	100%	100%	Feb-19
Ukraine	288	139 (48)	B3,D8	100%	169	9 (5)	-	-	100%	100%	Feb-19
United Kingdom	421	127 (30)	D8	100%	89	0 (0)	-	-	100%	100%	Feb-19
Uzbekistan	82	20 (24)	-	-	82	0 (0)	-	-	100%	100%	Feb-19
Region	13394	7120 (53)	-	92%	6698	99 (1)	-	-	68%	65%	

¹ Data source: Monthly aggregated or specimen-based data reported to WHO/Europe.

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.

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 tables 1-4.

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