

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 December 2018—November 2019 (data as of 08 January 2020)

Country	Total Population in 2019 ¹	Incidence Rate December 2018–November 2019 (per 1 million population)	Total measles cases	Month and year of rash onset												Month & year of last report
				Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	
Albania	2 880 917	176.33	508	27	73	64	138	110	72	18	2	4	0	0	0	Nov-19
Andorra	77 142	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Armenia	2 957 731	2.70	8	1	0	2	2	0	0	0	0	0	1	2	0	Nov-19
Austria	8 955 102	16.64	149	1	25	33	1	32	35	6	7	4	2	1	2	Nov-19
Azerbaijan	10 047 718	30.65	308	47	131	79	19	20	9	3	0	0	0	0	-	Oct-19
Belarus	9 452 411	20.74	196	5	14	20	18	20	66	37	15	1	0	0	0	Nov-19
Belgium	11 539 328	40.90	472	6	18	85	66	33	93	61	25	14	10	31	30	Nov-19
Bosnia and Herzegovina	3 301 000	424.11	1400	0	2	34	291	430	376	186	58	19	3	1	-	Oct-19
Bulgaria	7 000 119	171.57	1201	0	2	65	229	278	263	214	76	35	15	11	13	Nov-19
Croatia	4 130 304	11.62	48	0	0	1	0	0	4	6	10	4	13	10	-	Oct-19
Cyprus	1 198 575	5.01	6	0	1	0	0	3	1	1	0	0	0	0	0	Nov-19
Czech Republic	10 689 209	56.32	602	27	68	167	181	88	34	23	9	3	0	2	-	Oct-19
Denmark	5 771 876	2.77	16	1	2	3	6	2	1	1	0	0	0	0	0	Nov-19
Estonia	1 325 648	19.61	26	0	4	5	2	0	6	7	1	1	0	0	0	Nov-19
Finland	5 532 156	2.89	16	6	3	3	0	2	0	0	0	0	0	0	2	Nov-19
France	65 129 728	41.07	2675	61	122	209	320	343	557	472	315	112	57	59	48	Nov-19
Georgia	3 996 765	1100.39	4398	482	1096	1029	792	540	280	136	26	4	1	6	6	Nov-19
Germany	83 517 045	6.18	516	17	109	80	125	64	37	21	19	22	11	5	6	Nov-19
Greece	10 473 455	4.30	45	1	1	5	5	12	5	0	0	6	9	1	0	Nov-19
Hungary	9 684 679	2.48	24	1	2	5	4	2	9	0	1	0	0	0	0	Nov-19
Iceland	339 031	23.60	8	0	0	3	4	0	0	0	1	0	0	0	0	Nov-19
Ireland	4 882 495	17.20	84	1	6	17	21	4	10	3	2	1	8	7	4	Nov-19
Israel	8 519 377	187.57	1598	580	296	167	248	203	57	26	11	3	3	0	4	Nov-19
Italy	60 550 075	27.89	1689	76	180	173	229	311	237	219	151	78	19	7	9	Nov-19
Kazakhstan	18 551 427	690.19	12804	456	1516	1898	1918	1963	1828	954	586	402	283	424	576	Nov-19
Kyrgyzstan	6 415 850	400.41	2569	323	543	543	563	374	101	51	24	18	22	2	5	Nov-19
Latvia	1 906 743	2.10	4	2	0	0	0	0	0	1	1	0	0	0	-	Oct-19
Lithuania	2 759 627	306.93	847	16	22	131	396	178	76	14	14	0	0	0	0	Nov-19
Luxembourg	615 729	38.98	24	0	0	0	18	4	1	0	0	0	0	1	0	Nov-19
Malta	440 372	72.67	32	0	0	0	3	13	11	3	1	0	0	0	1	Nov-19
Monaco	38 964	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Montenegro	627 987	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Netherlands	17 097 130	4.80	82	2	4	4	10	2	13	17	10	17	2	0	1	Nov-19
North Macedonia	2 083 459	910.51	1897	13	146	275	356	428	467	166	31	12	2	1	0	Nov-19
Norway	5 378 857	3.16	17	0	0	1	7	4	2	1	0	2	0	0	0	Nov-19
Poland	37 887 768	39.83	1509	147	184	250	200	289	249	124	41	9	5	6	5	Nov-19
Portugal	10 226 187	2.05	21	12	2	2	2	0	2	1	0	0	0	0	0	Nov-19
Republic of Moldova	4 043 263	22.26	90	4	3	2	13	3	14	19	11	10	2	2	7	Nov-19
Romania	19 364 557	90.16	1746	130	263	303	188	110	148	123	110	80	112	100	79	Nov-19
Russian Federation	145 872 256	27.79	4054	59	389	639	616	549	727	488	252	166	110	38	21	Nov-19
San Marino	33 860	324.87	11	0	0	0	1	9	0	0	1	0	0	0	0	Nov-19
Serbia	8 772 235	3.08	27	7	1	1	1	3	8	1	0	0	0	1	4	Nov-19
Slovakia	5 457 013	66.15	361	49	41	44	84	87	37	7	5	7	0	0	0	Nov-19
Slovenia	2 078 654	12.51	26	0	0	0	0	6	8	3	1	1	0	0	7	Nov-19
Spain	46 736 776	6.14	287	6	11	11	24	67	99	34	13	12	6	1	3	Nov-19
Sweden	10 036 379	2.19	22	2	0	1	4	7	3	2	2	0	1	0	0	Nov-19
Switzerland	8 591 365	25.49	219	2	9	50	65	54	29	2	0	2	4	0	2	Nov-19
Tajikistan	9 321 018	0.75	7	0	0	1	0	1	4	0	0	0	0	1	0	Nov-19
Turkey	83 429 615	33.69	2811	26	53	294	544	591	606	306	158	76	39	53	65	Nov-19
Turkmenistan	5 942 089	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Ukraine	43 993 638	1529.99	67310	10182	13760	11559	8869	8686	7929	3443	1447	737	372	214	112	Nov-19
United Kingdom	67 530 172	12.59	850	11	81	80	109	118	129	114	87	42	28	46	5	Nov-19
Uzbekistan	32 981 716	59.85	1974	11	108	120	270	426	272	299	271	161	36	-	-	Sep-19
Region	930 166 592	124.27	115594	12800	19291	18458	16962	16469	14915	7613	3795	2065	1176	1033	1017	

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, Poland (since Feb 2019), Serbia and Ukraine.

¹ Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2019 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 December 2018—November 2019 (data as of 08 January 2020)

Country	Total Population in 2019 ¹	Incidence Rate December 2018–November 2019 (per 1 million population)	Total rubella cases	Month and year of rash onset												Month & year of last report
				Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	
Albania	2 880 917	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Andorra	77 142	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Armenia	2 957 731	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Austria	8 955 102	0.22	2	0	0	1	0	0	0	1	0	0	0	0	0	Nov-19
Azerbaijan	10 047 718	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Belarus	9 452 411	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Belgium ²	11 539 328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 301 000	0.91	3	0	0	0	1	0	1	0	0	1	0	0	-	Oct-19
Bulgaria	7 000 119	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Croatia	4 130 304	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Oct-19
Cyprus	1 198 575	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Czech Republic	10 689 209	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Oct-19
Denmark ²	5 771 876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 325 648	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Finland	5 532 156	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
France ²	65 129 728	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 996 765	2.25	9	0	3	1	0	1	0	1	1	0	1	1	0	Nov-19
Germany	83 517 045	0.71	59	4	3	5	7	4	5	5	11	6	3	1	5	Nov-19
Greece	10 473 455	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Hungary	9 684 679	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Iceland	339 031	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Ireland	4 882 495	0.61	3	0	0	0	1	2	0	0	0	0	0	0	0	Nov-19
Israel	8 519 377	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Italy	60 550 075	0.33	20	0	2	2	2	0	4	5	0	2	2	0	1	Nov-19
Kazakhstan	18 551 427	0.27	5	0	1	1	0	0	0	0	0	0	3	0	0	Nov-19
Kyrgyzstan	6 415 850	0.62	4	0	0	0	2	1	0	0	0	0	0	0	1	Nov-19
Latvia	1 906 743	1.57	3	1	1	0	0	1	0	0	0	0	0	0	-	Oct-19
Lithuania	2 759 627	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Luxembourg	615 729	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Malta	440 372	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Monaco	38 964	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Montenegro	627 987	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Netherlands	17 097 130	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
North Macedonia	2 083 459	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Norway	5 378 857	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Poland	37 887 768	8.18	310	22	43	22	36	29	37	21	26	15	10	25	24	Nov-19
Portugal	10 226 187	0.29	3	0	1	0	0	0	0	0	0	0	0	1	1	Nov-19
Republic of Moldova	4 043 263	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Romania	19 364 557	0.21	4	0	0	0	0	1	0	0	1	0	2	0	-	Oct-19
Russian Federation	145 872 256	0.25	37	1	1	9	2	5	13	3	3	0	0	0	0	Nov-19
San Marino	33 860	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Serbia	8 772 235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No report
Slovakia	5 457 013	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Slovenia	2 078 654	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Oct-19
Spain	46 736 776	0.26	12	9	3	0	0	0	0	0	0	0	0	0	0	Nov-19
Sweden	10 036 379	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Switzerland	8 591 365	0.12	1	0	0	0	0	0	0	1	0	0	0	0	0	Nov-19
Tajikistan	9 321 018	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Turkey	83 429 615	0.52	43	-	0	3	3	9	9	4	2	5	3	2	3	Nov-19
Turkmenistan	5 942 089	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-19
Ukraine	43 993 638	3.34	147	13	17	32	14	17	12	2	6	15	12	7	0	Nov-19
United Kingdom	67 530 172	0.04	3	0	0	1	0	0	0	0	0	1	1	0	0	Nov-19
Uzbekistan	32 981 716	0.03	1	0	0	0	0	1	0	0	0	0	0	-	-	Sep-19
Region	930 166 592	0.72	669	50	75	77	68	71	81	43	50	45	37	37	35	

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 2019 Revision.

² Country does not have a comprehensive rubella surveillance system.

Table 3: Measles classification, reporting and surveillance performance, January—November 2019 (data as of 08 January 2020)

Country	Total Population in 2019 ¹	2018 (as of 08 January 2020)			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	2 880 917	508.54	1466	3	481	378	0	103	349	22	2	100%	91%	Nov-19	87%	12.1	100%	99%
Andorra	77 142	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Nov-19	-	0.0	-	-
Armenia	2 957 731	6.44	19	0	7	7	0	0	128	5	0	100%	100%	Nov-19	100%	4.3	86%	100%
Austria	8 955 102	8.66	77	0	148	137	11	0	61	18	0	100%	100%	Nov-19	81%	0.7	99%	10%
Azerbaijan	10 047 718	7.14	71	0	261	240	21	0	52	1	0	91%	91%	Oct-19	99%	0.5	99%	98%
Belarus ⁷	9 452 411	24.97	236	0	191	191	0	0	337	0	0	100%	100%	Nov-19	100%	3.6	0%	0%
Belgium	11 539 328	10.19	117	0	466	369	54	43	-	0	0	100%	100%	Nov-19	-	-	-	-
Bosnia and Herzegovina	3 301 000	26.78	89	0	1400	179	0	1221	-	0	0	91%	36%	Oct-19	-	-	-	-
Bulgaria	7 000 119	1.84	13	0	1201	1087	68	46	-	8	0	100%	100%	Nov-19	96%	-	2%	100%
Croatia	4 130 304	5.53	23	0	48	48	0	0	0	10	0	91%	91%	Oct-19	100%	0.0	94%	0%
Cyprus	1 198 575	11.77	14	0	6	5	1	0	-	1	0	100%	100%	Nov-19	100%	-	100%	0%
Czech Republic	10 689 209	20.35	217	0	575	495	40	40	-	15	0	91%	91%	Oct-19	95%	-	94%	0%
Denmark	5 771 876	1.39	8	0	15	15	0	0	-	4	0	100%	100%	Nov-19	100%	-	93%	0%
Estonia	1 325 648	7.56	10	0	26	25	0	1	122	12	0	100%	100%	Nov-19	99%	9.2	100%	100%
Finland	5 532 156	2.72	15	0	10	10	0	0	-	8	0	100%	91%	Nov-19	100%	-	90%	0%
France	65 129 728	44.91	2919	4	2614	1559	402	653	-	157	2	100%	100%	Nov-19	87%	-	86%	0%
Georgia	3 996 765	550.35	2203	3	3916	2555	124	1237	465	3	2	100%	91%	Nov-19	71%	11.6	99%	96%
Germany	83 517 045	6.52	542	0	499	395	78	26	-	74	0	100%	73%	Nov-19	94%	-	67%	0%
Greece	10 473 455	208.42	2193	2	44	27	1	16	2	17	0	100%	100%	Nov-19	64%	0.0	100%	0%
Hungary	9 684 679	1.44	14	0	23	23	0	0	0	10	1	100%	100%	Nov-19	100%	0.0	91%	100%
Iceland	339 031	0.00	0	-	8	8	0	0	-	2	0	100%	100%	Nov-19	100%	-	100%	100%
Ireland	4 882 495	16.19	78	0	83	42	7	34	-	10	0	100%	100%	Nov-19	78%	-	63%	60%
Israel	8 519 377	377.14	3161	0	1018	628	301	89	-	0	0	100%	82%	Nov-19	88%	-	0%	49%
Italy	60 550 075	44.30	2686	9	1613	1399	82	132	279	79	1	100%	91%	Nov-19	95%	0.5	84%	0%
Kazakhstan	18 551 427	31.44	576	0	12348	7326	4162	860	-	0	0	100%	100%	Nov-19	-	-	-	-
Kyrgyzstan ⁷	6 415 850	175.13	1104	2	2246	62	1239	945	649	2	0	100%	100%	Nov-19	6%	10.1	99%	99%
Latvia	1 906 743	10.89	21	0	2	2	0	0	-	2	0	91%	91%	Oct-19	100%	-	100%	100%
Lithuania	2 759 627	11.78	33	0	831	831	0	0	-	15	0	100%	91%	Nov-19	100%	-	100%	68%
Luxembourg	615 729	6.62	4	0	24	24	0	0	25	3	0	100%	100%	Nov-19	100%	4.1	96%	100%
Malta	440 372	11.38	5	0	32	32	0	0	-	0	0	100%	100%	Nov-19	100%	-	100%	0%
Monaco	38 964	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Nov-19	-	0.0	-	-
Montenegro	627 987	323.35	203	0	0	0	0	0	38	-	-	100%	36%	Nov-19	100%	6.1	-	92%
Netherlands	17 097 130	1.41	24	0	80	66	14	0	-	19	0	100%	100%	Nov-19	100%	-	75%	0%
North Macedonia	2 083 459	30.73	64	0	1884	648	689	547	-	0	5	100%	55%	Nov-19	-	-	-	-
Norway	5 378 857	2.25	12	0	17	14	3	0	-	8	0	100%	82%	Nov-19	100%	-	88%	100%
Poland	37 887 768	10.31	391	0	1362	911	108	343	-	0	0	100%	100%	Nov-19	-	-	-	-
Portugal	10 226 187	16.67	171	0	9	9	0	0	74	5	0	100%	100%	Nov-19	95%	0.7	56%	88%
Republic of Moldova	4 043 263	83.91	340	0	86	65	21	0	28	23	0	100%	100%	Nov-19	100%	0.7	99%	98%
Romania	19 364 557	327.95	6397	22	1616	1221	361	34	-	3	5	100%	100%	Nov-19	98%	-	100%	99%
Russian Federation	145 872 256	15.71	2290	1	3995	3741	232	22	4307	211	0	100%	100%	Nov-19	100%	3.0	100%	41%
San Marino	33 860	0.00	0	-	11	11	0	0	0	1	0	100%	100%	Nov-19	100%	0.0	100%	100%
Serbia	8 772 235	576.64	5076	14	20	18	0	2	-	0	0	100%	91%	Nov-19	-	-	-	-
Slovakia	5 457 013	104.90	572	0	312	267	41	4	13	8	0	100%	100%	Nov-19	100%	0.2	100%	100%
Slovenia	2 078 654	4.33	9	0	26	26	0	0	-	13	0	100%	100%	Nov-19	100%	-	85%	100%
Spain	46 736 776	4.84	226	0	281	260	8	13	300	37	0	100%	100%	Nov-19	98%	0.6	99%	82%
Sweden	10 036 379	3.81	38	0	20	19	1	0	-	12	0	100%	100%	Nov-19	100%	-	95%	0%
Switzerland	8 591 365	5.98	51	0	217	169	44	4	302	40	1	100%	100%	Nov-19	99%	3.5	86%	41%
Tajikistan	9 321 018	0.00	0	-	7	7	0	0	94	0	0	100%	100%	Nov-19	100%	1.0	100%	97%
Turkey ⁷	83 429 615	8.70	716	0	2785	2298	487	0	5317	19	3	100%	73%	Nov-19	100%	6.4	7%	96%
Turkmenistan	5 942 089	0.00	0	-	0	0	0	0	48	-	-	100%	100%	Nov-19	100%	0.8	-	98%
Ukraine	43 993 638	1202.77	53218	15	57128	6478	22	50628	-	0	20	100%	100%	Nov-19	-	-	-	-
United Kingdom	67 530 172	14.19	953	0	839	838	1	0	-	109	1	100%	100%	Nov-19	100%	-	99%	2%
Uzbekistan	32 981 716	0.86	28	0	1963	396	0	1567	232	0	1	82%	82%	Sep-19	29%	0.7	26%	100%
Region	930 166 592	95.69	88693	75	102794	35561	8623	58610	13222	986	44	99%	93%		86%	2.7	74%	66%

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, Poland (since Feb 2019), Serbia and Ukraine.

¹ Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2019 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—November 2019 (data as of 08 January 2020)

Country	Total Population in 2019 ¹	2018 (as of 08 January 2020)		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	2 880 917	0.00	0	0	0	0	0	349	-	100%	100%	Nov-19	99%	12.1	-	99%
Andorra	77 142	0.00	0	0	0	0	0	0	-	100%	100%	Nov-19	-	0.0	-	-
Armenia	2 957 731	0.00	0	0	0	0	0	0	-	100%	100%	Nov-19	-	0.0	-	-
Austria	8 955 102	0.67	6	2	1	1	0	-	0	100%	100%	Nov-19	100%	-	100%	0%
Azerbaijan	10 047 718	0.00	0	0	0	0	0	7	-	91%	91%	Oct-19	100%	0.1	-	100%
Belarus ⁷	9 452 411	0.21	2	0	0	0	0	337	-	100%	100%	Nov-19	100%	3.6	-	0%
Belgium ⁸	11 539 328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 301 000	0.90	3	3	0	0	3	-	0	91%	36%	Oct-19	-	-	-	-
Bulgaria	7 000 119	0.14	1	0	0	0	0	-	-	100%	100%	Nov-19	-	-	-	-
Croatia	4 130 304	0.00	0	0	0	0	0	-	-	91%	55%	Oct-19	-	-	-	-
Cyprus	1 198 575	0.00	0	0	0	0	0	-	-	100%	100%	Nov-19	-	-	-	-
Czech Republic	10 689 209	0.19	2	0	0	0	0	-	-	91%	27%	Oct-19	-	-	-	-
Denmark ⁸	5 771 876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 325 648	0.00	0	0	0	0	0	12	-	100%	100%	Nov-19	100%	0.9	-	100%
Finland	5 532 156	0.00	0	0	0	0	0	-	-	100%	91%	Nov-19	-	-	-	-
France ⁸	65 129 728	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 996 765	0.00	0	9	4	0	5	34	0	100%	91%	Nov-19	81%	0.9	100%	95%
Germany	83 517 045	0.70	58	55	14	2	39	-	3	100%	73%	Nov-19	26%	-	62%	0%
Greece	10 473 455	0.00	0	0	0	0	0	-	-	100%	100%	Nov-19	-	-	-	-
Hungary	9 684 679	0.00	0	0	0	0	0	0	-	100%	91%	Nov-19	-	0.0	-	-
Iceland	339 031	0.00	0	0	0	0	0	-	-	100%	82%	Nov-19	-	-	-	-
Ireland	4 882 495	0.00	0	3	0	0	3	-	0	100%	100%	Nov-19	67%	-	67%	67%
Israel	8 519 377	0.24	2	0	0	0	0	-	-	100%	82%	Nov-19	-	-	-	-
Italy	60 550 075	0.33	20	20	9	0	11	16	3	100%	91%	Nov-19	89%	0.0	90%	0%
Kazakhstan	18 551 427	0.05	1	5	5	0	0	-	0	100%	100%	Nov-19	-	-	-	-
Kyrgyzstan ⁷	6 415 850	1.27	8	4	4	0	0	649	0	100%	100%	Nov-19	5%	10.1	100%	98%
Latvia	1 906 743	2.07	4	2	1	0	1	-	1	91%	91%	Oct-19	100%	-	100%	100%
Lithuania	2 759 627	0.36	1	0	0	0	0	-	-	100%	91%	Nov-19	-	-	-	-
Luxembourg	615 729	0.00	0	0	0	0	0	1	-	100%	100%	Nov-19	100%	0.2	-	100%
Malta	440 372	0.00	0	0	0	0	0	-	-	100%	100%	Nov-19	-	-	-	-
Monaco	38 964	0.00	0	0	0	0	0	0	-	100%	100%	Nov-19	-	0.0	-	-
Montenegro	627 987	0.00	0	0	0	0	0	0	-	100%	45%	Nov-19	-	0.0	-	-
Netherlands	17 097 130	0.00	0	0	0	0	0	-	-	100%	100%	Nov-19	-	-	-	-
North Macedonia	2 083 459	0.00	0	0	0	0	0	-	-	100%	73%	Nov-19	-	-	-	-
Norway	5 378 857	0.00	0	0	0	0	0	-	-	100%	73%	Nov-19	-	-	-	-
Poland	37 887 768	11.52	437	288	4	2	282	-	0	100%	100%	Nov-19	-	-	-	-
Portugal	10 226 187	0.49	5	3	0	0	3	9	0	100%	100%	Nov-19	75%	0.1	67%	75%
Republic of Moldova	4 043 263	0.00	0	0	0	0	0	1	-	100%	100%	Nov-19	100%	0.0	-	100%
Romania	19 364 557	0.46	9	4	4	0	0	-	0	91%	82%	Oct-19	100%	-	0%	100%
Russian Federation	145 872 256	0.04	6	36	36	0	0	0	4	100%	100%	Nov-19	100%	0.0	100%	42%
San Marino	33 860	0.00	0	0	0	0	0	0	-	100%	100%	Nov-19	-	0.0	-	-
Serbia	8 772 235	-	-	-	-	-	-	-	-	-	-	No report	-	-	-	-
Slovakia	5 457 013	0.00	0	0	0	0	0	0	-	100%	100%	Nov-19	-	0.0	-	-
Slovenia	2 078 654	0.00	0	0	0	0	0	-	-	91%	91%	Oct-19	-	-	-	-
Spain	46 736 776	0.26	12	3	2	1	0	11	0	100%	100%	Nov-19	100%	0.0	0%	100%
Sweden	10 036 379	0.00	0	0	0	0	0	0	-	100%	100%	Nov-19	-	0.0	-	-
Switzerland	8 591 365	0.23	2	1	1	0	0	27	1	100%	100%	Nov-19	96%	0.3	100%	7%
Tajikistan	9 321 018	0.00	0	0	0	0	0	36	-	100%	100%	Nov-19	100%	0.4	-	94%
Turkey ⁷	83 429 615	0.27	22	43	43	0	0	5317	2	100%	73%	Nov-19	100%	6.4	19%	96%
Turkmenistan	5 942 089	0.00	0	0	0	0	0	59	-	100%	100%	Nov-19	100%	1.0	-	100%
Ukraine	43 993 638	5.31	235	134	25	0	109	-	0	100%	100%	Nov-19	-	-	-	-
United Kingdom	67 530 172	0.03	2	3	3	0	0	-	0	100%	100%	Nov-19	100%	-	100%	0%
Uzbekistan	32 981 716	0.00	0	1	1	0	0	0	0	82%	82%	Sep-19	100%	0.0	100%	100%
Region	930 166 592	0.90	838	619	157	6	456	6865	14	91%	83%		90%	1.5	65%	90%

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 2019 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—November 2019 (data as of 08 January 2020)

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	723	381 (53)	B3	0%	1	1 (100)	-	-	100%	91%	Nov-19
Andorra											No lab
Armenia	140	7 (5)	D8	0%	140	0 (0)	-	-	100%	64%	Nov-19
Austria	1906	128 (7)	B3,D8	100%	6550	0 (0)	-	-	100%	100%	Nov-19
Azerbaijan	387	304 (79)	B3	0%	120	9 (8)	-	-	100%	73%	Nov-19
Belarus	620	234 (38)	B3,D8	44%	380	0 (0)	-	-	100%	100%	Nov-19
Belgium	1013	395 (39)	B3,D8	46%	106	15 (14)	-	-	100%	9%	Nov-19
Bosnia and Herzegovina	411	280 (68)	B3	83%	384	1 (0)	-	-	82%	82%	Sep-19
Bulgaria	1684	1084 (64)	B3,D8	0%	447	0 (0)	-	-	100%	91%	Nov-19
Croatia	254	88 (35)	B3,D8	100%	7	0 (0)	-	-	100%	0%	Nov-19
Cyprus	198	7 (4)	-	-	324	1 (0)	-	-	91%	36%	Oct-19
Czech Republic	1324	675 (51)	-	-	448	71 (16)	-	-	100%	100%	Nov-19
Denmark	1289	66 (5)	B3,D8	62%	28	2 (7)	-	-	100%	100%	Nov-19
Estonia	605	46 (8)	D8	45%	362	1 (0)	-	-	100%	100%	Nov-19
Finland	201	36 (18)	D8	100%	202	1 (0)	-	-	100%	100%	Nov-19
France	1985	758 (38)	B3,D8,H1	6%	0	-	-	-	91%	9%	Oct-19
Georgia	2193	1670 (76)	D8	7%	367	27 (7)	-	-	100%	82%	Nov-19
Germany	-	-	B3,D8	15%	-	-	-	-	-	-	No report
Greece	34	12 (35)	B3,D8	86%	0	-	-	-	100%	18%	Nov-19
Hungary	340	49 (14)	B3,D8	92%	146	0 (0)	-	-	100%	100%	Nov-19
Iceland	-	-	B3	0%	-	-	-	-	-	-	No report
Ireland	1648	108 (7)	B3,D8	79%	2336	432 (18)	-	-	100%	100%	Nov-19
Israel	3940	923 (23)	B3,D8	33%	4151	183 (4)	-	-	100%	91%	Nov-19
Italy	4129	2356 (57)	B3,D8	32%	1780	85 (5)	-	-	91%	82%	Oct-19
Kazakhstan	8751	7308 (84)	B3,D8	55%	1566	5 (0)	-	-	100%	91%	Nov-19
Kyrgyzstan	104	61 (59)	B3	17%	103	1 (1)	-	-	91%	91%	Nov-19
Latvia	285	13 (5)	D8	100%	348	4 (1)	-	-	100%	91%	Nov-19
Lithuania	4135	817 (20)	D8	0%	234	2 (1)	-	-	100%	100%	Nov-19
Luxembourg	429	2 (0)	D8	100%	0	-	-	-	100%	100%	Nov-19
Malta	179	48 (27)	B3,D8	17%	610	0 (0)	-	-	100%	55%	Nov-19
Monaco											No lab
Montenegro	-	-	-	-	-	-	-	-	-	-	No report
Netherlands	178	75 (42)	D8	93%	149	0 (0)	-	-	100%	100%	Nov-19
North Macedonia	397	188 (47)	-	-	0	-	-	-	27%	9%	Mar-19
Norway	33	27 (82)	B3,D8	100%	0	-	-	-	100%	27%	Nov-19
Poland	-	-	D8	37%	-	-	-	-	-	-	No report
Portugal	270	28 (10)	B3,D8	33%	9	1 (11)	-	-	91%	91%	Nov-19
Republic of Moldova	98	66 (67)	D8	0%	96	0 (0)	-	-	100%	100%	Nov-19
Romania	2624	2175 (83)	B3,D8	93%	428	3 (1)	-	-	100%	82%	Nov-19
Russian Federation	9067	4135 (46)	B3,D8	16%	6806	92 (1)	2B,1E	78%	100%	91%	Nov-19
San Marino											No lab
Serbia	79	21 (27)	B3,D8	20%	79	1 (1)	-	-	91%	91%	Nov-19
Slovakia	131	90 (69)	B3	0%	19	0 (0)	-	-	100%	100%	Nov-19
Slovenia	296	58 (20)	B3,D8	85%	251	3 (1)	-	-	100%	100%	Nov-19
Spain	-	-	B3,D8	32%	-	-	-	-	-	-	No report
Sweden	1527	56 (4)	B3,D8	100%	1816	7 (0)	-	-	100%	91%	Nov-19
Switzerland	535	244 (46)	B3,D8	96%	6	6 (100)	-	-	100%	91%	Nov-19
Tajikistan	133	3 (2)	-	-	131	0 (0)	-	-	100%	100%	Nov-19
Turkey	13750	3288 (24)	B3	54%	11008	169 (2)	-	-	100%	64%	Nov-19
Turkmenistan	115	0 (0)	-	-	115	0 (0)	-	-	100%	100%	Nov-19
Ukraine	1421	724 (51)	B3,D8	0%	871	27 (3)	-	-	100%	100%	Nov-19
United Kingdom	4837	858 (18)	B3,D8	42%	1093	4 (0)	-	-	100%	82%	Nov-19
Uzbekistan	1005	687 (68)	B3,D8	0%	1005	1 (0)	-	-	100%	82%	Nov-19
Region	75403	30579 (41)	-	34%	45022	1155 (3)	-	78%	82%	67%	

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.

