

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 2018—October 2019 (data as of 29 November 2019)**

Country	Total Population in 2019 <sup>1</sup>	Incidence Rate November 2018–October 2019 (per 1 million population)	Total measles cases	Month and year of rash onset												Month & year of last report
				Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	
Albania	2 880 917	188.13	542	34	27	73	64	138	110	72	18	2	4	0	0	Oct-19
Andorra	77 142	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Armenia	2 957 731	2.70	8	0	1	0	2	2	0	0	0	0	0	1	2	Oct-19
Austria	8 955 102	16.86	151	4	1	25	33	1	32	35	6	7	4	2	1	Oct-19
Azerbaijan	10 047 718	33.04	332	24	47	131	79	19	20	9	3	0	0	0	0	Oct-19
Belarus	9 452 411	21.16	200	5	5	14	19	18	20	66	37	15	1	0	0	Oct-19
Belgium	11 539 328	38.82	448	6	6	18	85	66	33	93	61	25	14	10	31	Oct-19
Bosnia and Herzegovina	3 301 000	424.11	1400	0	0	2	34	291	430	376	186	58	19	3	1	Oct-19
Bulgaria	7 000 119	168.57	1180	0	0	2	65	229	278	263	214	76	35	15	3	Oct-19
Croatia	4 130 304	11.62	48	0	0	0	1	0	0	4	6	10	4	13	10	Oct-19
Cyprus	1 198 575	5.01	6	0	0	1	0	0	3	1	1	0	0	0	0	Oct-19
Czech Republic	10 689 209	58.19	622	20	27	68	167	181	88	34	23	9	3	0	2	Oct-19
Denmark	5 771 876	2.77	16	0	1	2	3	6	2	1	1	0	0	0	0	Oct-19
Estonia	1 325 648	19.61	26	0	0	4	5	2	0	6	7	1	1	0	0	Oct-19
Finland	5 532 156	2.89	16	2	6	3	3	0	2	0	0	0	0	0	0	Oct-19
France	65 129 728	41.23	2685	62	61	122	209	320	343	557	472	313	110	57	59	Oct-19
Georgia	3 996 765	1153.68	4611	219	482	1096	1029	792	540	280	136	26	4	1	6	Oct-19
Germany	83 517 045	6.15	514	9	17	109	80	126	66	38	20	19	20	10	-	Sep-19
Greece	10 473 455	4.20	44	0	1	1	5	5	12	5	0	0	6	9	0	Oct-19
Hungary	9 684 679	2.48	24	0	1	2	5	4	2	9	0	1	0	0	0	Oct-19
Iceland	339 031	23.60	8	0	0	0	3	4	0	0	0	1	0	0	0	Oct-19
Ireland	4 882 495	15.98	78	1	1	6	17	21	4	10	3	2	1	5	7	Oct-19
Israel	8 519 377	290.98	2479	901	580	296	167	247	201	55	24	4	3	1	0	Oct-19
Italy	60 550 075	28.70	1738	58	76	180	173	229	311	237	219	151	78	19	7	Oct-19
Kazakhstan	18 551 427	664.85	12334	106	456	1516	1898	1918	1963	1828	954	586	402	283	424	Oct-19
Kyrgyzstan	6 415 850	426.13	2734	173	323	542	542	562	374	101	51	24	18	22	2	Oct-19
Latvia	1 906 743	2.10	4	0	2	0	0	0	0	0	1	1	0	0	0	Oct-19
Lithuania	2 759 627	312.00	861	15	16	22	131	396	177	76	14	14	0	0	0	Oct-19
Luxembourg	615 729	40.60	25	1	0	0	0	18	4	1	0	0	0	0	1	Oct-19
Malta	440 372	70.40	31	0	0	0	0	3	13	11	3	1	0	0	0	Oct-19
Monaco	38 964	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Montenegro	627 987	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Netherlands	17 097 130	4.56	78	0	2	4	4	10	2	13	16	10	15	2	0	Oct-19
North Macedonia	2 083 459	912.90	1902	5	13	146	275	356	428	467	166	31	12	2	1	Oct-19
Norway	5 378 857	3.16	17	0	0	0	1	7	4	2	1	0	2	0	0	Oct-19
Poland	37 887 768	41.04	1555	88	147	184	250	200	258	244	123	41	9	5	6	Oct-19
Portugal	10 226 187	4.40	45	24	12	2	2	2	0	2	1	0	0	0	0	Oct-19
Republic of Moldova	4 043 263	25.72	104	21	4	3	2	13	3	14	19	11	10	2	2	Oct-19
Romania	19 364 557	90.27	1748	81	130	263	303	188	110	148	123	110	80	112	100	Oct-19
Russian Federation	145 872 256	25.81	3765	63	59	388	639	615	548	713	462	159	77	22	20	Oct-19
San Marino	33 860	324.87	11	0	0	0	0	1	9	0	0	1	0	0	0	Oct-19
Serbia	8 772 235	3.99	35	12	7	1	1	1	3	8	1	0	0	0	1	Oct-19
Slovakia	5 457 013	73.30	400	39	49	41	44	84	87	37	7	5	7	0	0	Oct-19
Slovenia	2 078 654	9.14	19	0	0	0	0	0	6	8	3	1	1	0	0	Oct-19
Spain	46 736 776	5.52	258	1	6	11	11	24	68	76	28	12	13	8	0	Oct-19
Sweden	10 036 379	2.29	23	1	2	0	1	4	7	3	2	2	0	1	0	Oct-19
Switzerland	8 591 365	25.37	218	1	2	9	50	65	54	29	2	0	2	4	0	Oct-19
Tajikistan	9 321 018	0.75	7	0	0	0	1	0	1	4	0	0	0	0	1	Oct-19
Turkey	83 429 615	33.19	2769	24	26	53	294	544	591	605	306	158	76	39	53	Oct-19
Turkmenistan	5 942 089	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Ukraine	43 993 638	1706.70	75084	7916	10182	13760	11559	8869	8686	7929	3443	1447	737	372	184	Oct-19
United Kingdom	67 530 172	12.51	845	26	11	81	80	109	118	128	114	87	43	26	22	Oct-19
Uzbekistan	32 981 716	59.85	1974	0	11	108	120	270	426	272	299	271	161	36	-	Sep-19
<b>Region</b>	<b>930 166 592</b>	<b>133.33</b>	<b>124022</b>	<b>9942</b>	<b>12800</b>	<b>19289</b>	<b>18456</b>	<b>16960</b>	<b>16437</b>	<b>14870</b>	<b>7576</b>	<b>3692</b>	<b>1972</b>	<b>1082</b>	<b>946</b>	

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.

<sup>1</sup> 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 November 2018—October 2019 (data as of 29 November 2019)**

Country	Total Population in 2019 <sup>1</sup>	Incidence Rate November 2018–October 2019 (per 1 million population)	Total rubella cases	Month and year of rash onset												Month & year of last report	
				Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19		
Albania	2 880 917	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Andorra	77 142	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Armenia	2 957 731	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Austria	8 955 102	0.22	2	0	0	0	1	0	0	0	1	0	0	0	0	0	Oct-19
Azerbaijan	10 047 718	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Belarus	9 452 411	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Belgium <sup>2</sup>	11 539 328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 301 000	1.21	4	1	0	0	0	1	0	1	0	0	1	0	0	0	Oct-19
Bulgaria	7 000 119	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Croatia	4 130 304	0.00	0	0	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	0	Oct-19
Czech Republic	10 689 209	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Denmark <sup>2</sup>	5 771 876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 325 648	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Finland	5 532 156	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
France <sup>2</sup>	65 129 728	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 996 765	2.25	9	0	0	3	1	0	1	0	1	1	0	1	1	0	Oct-19
Germany	83 517 045	0.63	53	2	4	3	5	7	4	5	5	10	5	3	-	Sep-19	
Greece	10 473 455	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Hungary	9 684 679	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Iceland	339 031	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Ireland	4 882 495	0.61	3	0	0	0	0	1	2	0	0	0	0	0	0	0	Oct-19
Israel	8 519 377	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Italy	60 550 075	0.33	20	1	0	2	2	2	0	4	5	0	2	2	0	0	Oct-19
Kazakhstan	18 551 427	0.27	5	0	0	1	1	0	0	0	0	0	0	3	0	0	Oct-19
Kyrgyzstan	6 415 850	0.47	3	0	0	0	0	2	1	0	0	0	0	0	0	0	Oct-19
Latvia	1 906 743	1.57	3	0	1	1	0	0	1	0	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	0	Oct-19
Luxembourg	615 729	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Malta	440 372	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Monaco	38 964	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Montenegro	627 987	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Netherlands	17 097 130	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
North Macedonia	2 083 459	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Norway	5 378 857	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Poland	37 887 768	8.18	310	24	22	43	22	36	29	37	21	26	15	10	25	0	Oct-19
Portugal	10 226 187	0.10	1	0	0	1	0	0	0	0	0	0	0	0	0	0	Oct-19
Republic of Moldova	4 043 263	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Romania	19 364 557	0.26	5	1	0	0	0	0	1	0	0	1	0	2	0	0	Oct-19
Russian Federation	145 872 256	0.23	34	1	1	1	9	2	5	9	3	3	0	0	0	0	Oct-19
San Marino	33 860	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-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	0	Oct-19
Slovenia	2 078 654	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Spain	46 736 776	0.26	12	0	9	3	0	0	0	0	0	0	0	0	0	0	Oct-19
Sweden	10 036 379	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Switzerland	8 591 365	0.12	1	0	0	0	0	0	0	0	1	0	0	0	0	0	Oct-19
Tajikistan	9 321 018	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Turkey	83 429 615	0.53	44	4	0	0	3	3	9	9	4	2	5	3	2	0	Oct-19
Turkmenistan	5 942 089	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-19
Ukraine	43 993 638	3.59	158	12	13	17	32	14	17	12	2	6	15	12	6	0	Oct-19
United Kingdom	67 530 172	0.04	3	0	0	0	1	0	0	0	0	0	1	1	0	0	Oct-19
Uzbekistan	32 981 716	0.03	1	0	0	0	0	0	1	0	0	0	0	0	-	0	Sep-19
<b>Region</b>	<b>930 166 592</b>	<b>0.72</b>	<b>671</b>	<b>46</b>	<b>50</b>	<b>75</b>	<b>77</b>	<b>68</b>	<b>71</b>	<b>77</b>	<b>43</b>	<b>49</b>	<b>44</b>	<b>37</b>	<b>34</b>		

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.

<sup>1</sup> Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2019 Revision.

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

**Table 3: Measles classification, reporting and surveillance performance, January—October 2019 (data as of 29 November 2019)**

Country	Total Population in 2019 <sup>1</sup>	2018 (as of 29 November 2019)			2019													
		Incidence Rate (per 1 million population)	Total measles cases <sup>2</sup>	Total measles death	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>	2 880 917	508.54	1466	3	481	378	0	103	345	22	2	100%	90%	Oct-19	87%	12.0	100%	99%
Andorra	77 142	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Oct-19	-	0.0	-	-
Armenia	2 957 731	6.44	19	0	7	7	0	0	119	5	0	100%	100%	Oct-19	100%	4.0	86%	100%
Austria	8 955 102	8.66	77	0	146	135	11	0	61	17	0	100%	100%	Oct-19	81%	0.7	99%	10%
Azerbaijan	10 047 718	7.14	71	0	261	240	21	0	52	1	0	100%	100%	Oct-19	99%	0.5	99%	98%
Belarus <sup>7</sup>	9 452 411	24.97	236	0	190	190	0	0	318	0	0	100%	100%	Oct-19	100%	3.4	0%	0%
Belgium	11 539 328	10.19	117	0	436	358	42	36	-	0	0	100%	100%	Oct-19	-	-	-	-
Bosnia and Herzegovina	3 301 000	26.78	89	0	1400	179	0	1221	-	0	0	100%	40%	Oct-19	-	-	-	-
Bulgaria	7 000 119	1.84	13	0	1180	1068	67	45	-	7	0	100%	100%	Oct-19	96%	-	2%	100%
Croatia	4 130 304	5.53	23	0	48	48	0	0	0	10	0	100%	100%	Oct-19	100%	0.0	92%	0%
Cyprus	1 198 575	11.77	14	0	6	5	1	0	-	1	0	100%	100%	Oct-19	100%	-	100%	0%
Czech Republic	10 689 209	20.35	217	0	575	495	40	40	-	15	0	100%	100%	Oct-19	95%	-	94%	0%
Denmark	5 771 876	1.39	8	0	15	15	0	0	-	4	0	100%	100%	Oct-19	100%	-	93%	0%
Estonia	1 325 648	7.56	10	0	26	25	0	1	114	12	0	100%	100%	Oct-19	99%	8.6	100%	100%
Finland	5 532 156	2.72	15	0	8	8	0	0	-	6	0	100%	90%	Oct-19	100%	-	88%	0%
France	65 129 728	44.91	2919	4	2562	1533	392	637	-	155	2	100%	100%	Oct-19	87%	-	86%	0%
Georgia	3 996 765	550.35	2203	3	3910	2552	124	1234	457	3	2	100%	90%	Oct-19	71%	11.4	99%	96%
Germany	83 517 045	6.52	542	0	488	386	77	25	-	71	0	90%	70%	Sep-19	94%	-	66%	0%
Greece	10 473 455	208.42	2193	2	43	26	1	16	2	17	0	100%	100%	Oct-19	64%	0.0	93%	0%
Hungary	9 684 679	1.44	14	0	23	23	0	0	0	10	1	100%	100%	Oct-19	100%	0.0	91%	100%
Iceland	339 031	0.00	0	-	8	8	0	0	-	2	0	100%	100%	Oct-19	100%	-	100%	100%
Ireland	4 882 495	16.19	78	0	76	40	6	30	-	9	0	100%	100%	Oct-19	81%	-	64%	62%
Israel	8 519 377	377.14	3161	0	998	612	298	88	-	0	0	100%	80%	Oct-19	87%	-	0%	50%
Italy	60 550 075	44.30	2686	9	1604	1394	81	129	266	77	1	100%	90%	Oct-19	95%	0.4	84%	0%
Kazakhstan	18 551 427	31.44	576	0	11772	6881	4054	837	-	0	0	100%	100%	Oct-19	-	-	-	-
Kyrgyzstan <sup>7</sup>	6 415 850	175.13	1104	2	2238	57	1238	943	602	0	0	100%	100%	Oct-19	5%	9.4	99%	99%
Latvia	1 906 743	10.89	21	0	2	2	0	0	-	2	0	100%	100%	Oct-19	100%	-	100%	100%
Lithuania	2 759 627	11.78	33	0	830	830	0	0	-	15	0	100%	90%	Oct-19	100%	-	100%	68%
Luxembourg	615 729	6.62	4	0	24	24	0	0	24	3	0	100%	100%	Oct-19	100%	3.9	96%	100%
Malta	440 372	11.38	5	0	31	31	0	0	-	0	0	100%	100%	Oct-19	100%	-	100%	0%
Monaco	38 964	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Oct-19	-	0.0	-	-
Montenegro	627 987	323.35	203	0	0	0	0	0	34	-	-	100%	30%	Oct-19	100%	5.4	-	91%
Netherlands	17 097 130	1.41	24	0	76	63	13	0	-	19	0	100%	100%	Oct-19	87%	-	76%	0%
North Macedonia	2 083 459	30.73	64	0	1884	648	689	547	-	0	5	100%	50%	Oct-19	-	-	-	-
Norway	5 378 857	2.25	12	0	17	14	3	0	-	8	0	100%	80%	Oct-19	100%	-	88%	100%
Poland	37 887 768	10.31	391	0	1320	902	103	315	-	0	0	100%	100%	Oct-19	-	-	-	-
Portugal	10 226 187	16.67	171	0	9	9	0	0	67	5	0	100%	100%	Oct-19	96%	0.7	56%	88%
Republic of Moldova	4 043 263	83.91	340	0	79	60	19	0	27	23	0	100%	100%	Oct-19	100%	0.7	99%	98%
Romania	19 364 557	327.95	6397	22	1537	1176	329	32	-	3	5	100%	100%	Oct-19	98%	-	100%	99%
Russian Federation	145 872 256	15.71	2290	1	3643	3395	231	17	3344	207	0	100%	100%	Oct-19	100%	2.3	100%	44%
San Marino	33 860	0.00	0	-	11	11	0	0	0	1	0	100%	100%	Oct-19	100%	0.0	100%	100%
Serbia	8 772 235	576.64	5076	14	16	14	0	2	-	0	0	100%	90%	Oct-19	-	-	-	-
Slovakia	5 457 013	104.90	572	0	312	267	41	4	13	8	0	100%	100%	Oct-19	100%	0.2	100%	100%
Slovenia	2 078 654	4.33	9	0	19	19	0	0	-	13	0	100%	100%	Oct-19	100%	-	89%	100%
Spain	46 736 776	4.84	226	0	251	234	9	8	258	37	0	100%	100%	Oct-19	99%	0.6	98%	91%
Sweden	10 036 379	3.81	38	0	20	19	1	0	-	12	0	100%	100%	Oct-19	100%	-	95%	0%
Switzerland	8 591 365	5.98	51	0	215	167	44	4	277	37	1	100%	100%	Oct-19	99%	3.2	86%	42%
Tajikistan	9 321 018	0.00	0	-	7	7	0	0	75	0	0	100%	100%	Oct-19	100%	0.8	100%	96%
Turkey <sup>7</sup>	83 429 615	8.70	716	0	2719	2232	487	0	5051	18	3	100%	70%	Oct-19	100%	6.1	7%	96%
Turkmenistan	5 942 089	0.00	0	-	0	0	0	0	48	-	-	100%	100%	Oct-19	100%	0.8	-	98%
Ukraine	43 993 638	1202.77	53218	15	56986	6450	13	50523	-	0	20	100%	100%	Oct-19	-	-	-	-
United Kingdom	67 530 172	14.19	953	0	808	786	22	0	-	112	1	100%	100%	Oct-19	100%	-	99%	2%
Uzbekistan	32 981 716	0.86	28	0	1963	396	0	1567	232	0	1	90%	90%	Sep-19	29%	0.7	26%	100%
<b>Region</b>	<b>930 166 592</b>	<b>95.69</b>	<b>88693</b>	<b>75</b>	<b>101280</b>	<b>34419</b>	<b>8457</b>	<b>58404</b>	<b>11786</b>	<b>967</b>	<b>44</b>	<b>100%</b>	<b>93%</b>		<b>86%</b>	<b>2.4</b>	<b>73%</b>	<b>67%</b>

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.

<sup>1</sup> Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2019 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—October 2019 (data as of 29 November 2019)**

Country	Total Population in 2019 <sup>1</sup>	2018 (as of 29 November 2019)		2019												
		Incidence Rate (per 1 million population)	Total rubella cases <sup>2</sup>	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>	2 880 917	0.00	0	0	0	0	0	345	-	100%	100%	Oct-19	99%	12.0	-	98%
Andorra	77 142	0.00	0	0	0	0	0	0	-	100%	100%	Oct-19	-	0.0	-	-
Armenia	2 957 731	0.00	0	0	0	0	0	0	-	100%	100%	Oct-19	-	0.0	-	-
Austria	8 955 102	0.67	6	2	1	1	0	0	0	100%	100%	Oct-19	100%	-	100%	0%
Azerbaijan	10 047 718	0.00	0	0	0	0	0	7	-	100%	100%	Oct-19	100%	0.1	-	100%
Belarus <sup>7</sup>	9 452 411	0.21	2	0	0	0	0	317	-	100%	100%	Oct-19	100%	3.4	-	0%
Belgium <sup>8</sup>	11 539 328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 301 000	0.90	3	3	0	0	3	-	0	100%	40%	Oct-19	-	-	-	-
Bulgaria	7 000 119	0.14	1	0	0	0	0	-	-	100%	100%	Oct-19	-	-	-	-
Croatia	4 130 304	0.00	0	0	0	0	0	-	-	100%	60%	Oct-19	-	-	-	-
Cyprus	1 198 575	0.00	0	0	0	0	0	-	-	100%	100%	Oct-19	-	-	-	-
Czech Republic	10 689 209	0.19	2	0	0	0	0	-	-	100%	30%	Oct-19	-	-	-	-
Denmark <sup>8</sup>	5 771 876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 325 648	0.00	0	0	0	0	0	12	-	100%	100%	Oct-19	100%	0.9	-	100%
Finland	5 532 156	0.00	0	0	0	0	0	-	-	100%	90%	Oct-19	-	-	-	-
France <sup>8</sup>	65 129 728	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 996 765	0.00	0	9	4	0	5	31	0	100%	90%	Oct-19	83%	0.8	100%	95%
Germany	83 517 045	0.70	58	47	13	2	32	-	3	90%	70%	Sep-19	27%	-	57%	0%
Greece	10 473 455	0.00	0	0	0	0	0	-	-	100%	100%	Oct-19	-	-	-	-
Hungary	9 684 679	0.00	0	0	0	0	0	0	-	100%	90%	Oct-19	-	0.0	-	-
Iceland	339 031	0.00	0	0	0	0	0	-	-	100%	80%	Oct-19	-	-	-	-
Ireland	4 882 495	0.00	0	3	0	0	3	-	0	100%	100%	Oct-19	67%	-	67%	67%
Israel	8 519 377	0.24	2	0	0	0	0	-	-	100%	80%	Oct-19	-	-	-	-
Italy	60 550 075	0.33	20	19	9	0	10	13	3	100%	90%	Oct-19	88%	0.0	89%	0%
Kazakhstan	18 551 427	0.05	1	5	5	0	0	-	0	100%	100%	Oct-19	-	-	-	-
Kyrgyzstan <sup>7</sup>	6 415 850	1.27	8	3	3	0	0	602	0	100%	100%	Oct-19	3%	9.4	100%	99%
Latvia	1 906 743	2.07	4	2	1	0	1	-	1	100%	100%	Oct-19	100%	-	100%	100%
Lithuania	2 759 627	0.36	1	0	0	0	0	-	-	100%	90%	Oct-19	-	-	-	-
Luxembourg	615 729	0.00	0	0	0	0	0	1	-	100%	100%	Oct-19	100%	0.2	-	100%
Malta	440 372	0.00	0	0	0	0	0	-	-	100%	100%	Oct-19	-	-	-	-
Monaco	38 964	0.00	0	0	0	0	0	0	-	100%	100%	Oct-19	-	0.0	-	-
Montenegro	627 987	0.00	0	0	0	0	0	0	-	100%	40%	Oct-19	-	0.0	-	-
Netherlands	17 097 130	0.00	0	0	0	0	0	-	-	100%	100%	Oct-19	-	-	-	-
North Macedonia	2 083 459	0.00	0	0	0	0	0	-	-	100%	70%	Oct-19	-	-	-	-
Norway	5 378 857	0.00	0	0	0	0	0	-	-	100%	70%	Oct-19	-	-	-	-
Poland	37 887 768	11.52	437	264	4	2	258	-	0	100%	100%	Oct-19	-	-	-	-
Portugal	10 226 187	0.49	5	1	0	0	1	9	0	100%	100%	Oct-19	70%	0.1	100%	90%
Republic of Moldova	4 043 263	0.00	0	0	0	0	0	1	-	100%	100%	Oct-19	100%	0.0	-	100%
Romania	19 364 557	0.46	9	4	4	0	0	-	0	100%	90%	Oct-19	100%	-	0%	100%
Russian Federation	145 872 256	0.04	6	32	32	0	0	0	4	100%	100%	Oct-19	100%	0.0	100%	47%
San Marino	33 860	0.00	0	0	0	0	0	0	-	100%	100%	Oct-19	-	0.0	-	-
Serbia	8 772 235	-	-	-	-	-	-	-	-	-	-	No report	-	-	-	-
Slovakia	5 457 013	0.00	0	0	0	0	0	0	-	100%	100%	Oct-19	-	0.0	-	-
Slovenia	2 078 654	0.00	0	0	0	0	0	-	-	100%	100%	Oct-19	-	-	-	-
Spain	46 736 776	0.26	12	3	2	1	0	11	0	100%	100%	Oct-19	100%	0.0	0%	100%
Sweden	10 036 379	0.00	0	0	0	0	0	0	-	100%	100%	Oct-19	-	0.0	-	-
Switzerland	8 591 365	0.23	2	1	1	0	0	22	1	100%	100%	Oct-19	96%	0.3	100%	9%
Tajikistan	9 321 018	0.00	0	0	0	0	0	34	-	100%	100%	Oct-19	100%	0.4	-	94%
Turkey <sup>7</sup>	83 429 615	0.27	22	40	40	0	0	5051	2	100%	70%	Oct-19	87%	6.1	20%	96%
Turkmenistan	5 942 089	0.00	0	0	0	0	0	59	-	100%	100%	Oct-19	100%	1.0	-	100%
Ukraine	43 993 638	5.31	235	133	25	0	108	-	0	100%	100%	Oct-19	-	-	-	-
United Kingdom	67 530 172	0.03	2	3	3	0	0	-	0	100%	100%	Oct-19	100%	-	100%	0%
Uzbekistan	32 981 716	0.00	0	1	1	0	0	0	0	90%	90%	Sep-19	100%	0.0	100%	100%
<b>Region</b>	<b>930 166 592</b>	<b>0.90</b>	<b>838</b>	<b>575</b>	<b>148</b>	<b>6</b>	<b>421</b>	<b>6515</b>	<b>14</b>	<b>92%</b>	<b>84%</b>		<b>81%</b>	<b>1.4</b>	<b>64%</b>	<b>90%</b>

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.

<sup>1</sup> Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2019 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—October 2019 (data as of 29 November 2019)**

Country	Measles				Rubella				Report <sup>1</sup>		
	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	721	381 (53)	B3	0%	1	1 (100)	-	-	100%	90%	Oct-19
Andorra											No lab
Armenia	101	4 (4)	D8	0%	101	0 (0)	-	-	80%	60%	Aug-19
Austria	1771	128 (7)	B3,D8	100%	6116	0 (0)	-	-	100%	100%	Oct-19
Azerbaijan	386	304 (79)	B3	0%	108	8 (7)	-	-	100%	70%	Oct-19
Belarus	601	234 (39)	B3,D8	73%	361	0 (0)	-	-	100%	100%	Oct-19
Belgium	203	104 (51)	B3,D8	61%	23	3 (13)	-	-	20%	0%	Feb-19
Bosnia and Herzegovina	411	280 (68)	B3	83%	384	1 (0)	-	-	90%	90%	Sep-19
Bulgaria	1633	1052 (64)	B3,D8	0%	411	0 (0)	-	-	90%	90%	Sep-19
Croatia	28	14 (50)	B3,D8	100%	2	0 (0)	-	-	60%	0%	Jun-19
Cyprus	198	7 (4)	-	-	324	1 (0)	-	-	100%	40%	Oct-19
Czech Republic	1306	667 (51)	-	-	437	69 (16)	-	-	100%	100%	Oct-19
Denmark	1239	65 (5)	B3,D8	62%	27	2 (7)	-	-	100%	100%	Oct-19
Estonia	581	46 (8)	D8	45%	322	1 (0)	-	-	100%	100%	Oct-19
Finland	185	32 (17)	D8	100%	186	1 (1)	-	-	100%	100%	Oct-19
France	1985	758 (38)	B3,D8,H1	6%	0	-	-	-	100%	10%	Oct-19
Georgia	2180	1669 (77)	D8	7%	359	27 (8)	-	-	100%	80%	Oct-19
Germany	-	-	B3,D8	15%	-	-	-	-	-	-	No report
Greece	10	4 (40)	B3,D8	86%	0	-	-	-	80%	10%	Aug-19
Hungary	335	49 (15)	B3,D8	92%	131	0 (0)	-	-	100%	100%	Oct-19
Iceland	-	-	B3	0%	-	-	-	-	-	-	No report
Ireland	1539	104 (7)	B3,D8	81%	2152	432 (20)	-	-	100%	100%	Oct-19
Israel	3834	916 (24)	D8	25%	3998	158 (4)	-	-	100%	90%	Oct-19
Italy	4129	2356 (57)	B3,D8	32%	1780	85 (5)	-	-	100%	90%	Oct-19
Kazakhstan	8253	6870 (83)	B3,D8	90%	1496	5 (0)	-	-	100%	90%	Oct-19
Kyrgyzstan	97	59 (61)	-	-	96	1 (1)	-	-	90%	90%	Oct-19
Latvia	259	11 (4)	D8	100%	316	4 (1)	-	-	100%	90%	Oct-19
Lithuania	4116	817 (20)	D8	0%	216	2 (1)	-	-	100%	100%	Oct-19
Luxembourg	422	2 (0)	D8	100%	0	-	-	-	100%	100%	Oct-19
Malta	122	45 (37)	B3,D8	17%	321	0 (0)	-	-	60%	50%	Jun-19
Monaco											No lab
Montenegro	-	-	-	-	-	-	-	-	-	-	No report
Netherlands	102	42 (41)	D8	92%	86	0 (0)	-	-	60%	60%	Jun-19
North Macedonia	397	188 (47)	-	-	0	-	-	-	20%	10%	Feb-19
Norway	33	27 (82)	B3,D8	100%	0	-	-	-	100%	20%	Oct-19
Poland	-	-	D8	37%	-	-	-	-	-	-	No report
Portugal	258	28 (11)	B3,D8	33%	9	1 (11)	-	-	90%	90%	Oct-19
Republic of Moldova	92	61 (66)	D8	0%	90	0 (0)	-	-	100%	100%	Oct-19
Romania	2517	2094 (83)	B3,D8	93%	400	3 (1)	-	-	100%	80%	Oct-19
Russian Federation	8650	4034 (47)	B3,D8	14%	6395	87 (1)	2B,1E	78%	100%	90%	Oct-19
San Marino											No lab
Serbia	72	18 (25)	B3,D8	20%	72	1 (1)	-	-	90%	90%	Oct-19
Slovakia	130	90 (69)	B3	0%	18	0 (0)	-	-	100%	100%	Oct-19
Slovenia	268	51 (19)	B3,D8	85%	231	3 (1)	-	-	100%	100%	Oct-19
Spain	-	-	B3,D8	32%	-	-	-	-	-	-	No report
Sweden	1405	56 (4)	B3,D8	100%	1672	7 (0)	-	-	100%	90%	Oct-19
Switzerland	507	237 (47)	B3,D8	96%	5	5 (100)	-	-	100%	90%	Oct-19
Tajikistan	37	1 (3)	-	-	37	0 (0)	-	-	40%	40%	Apr-19
Turkey	13147	3201 (24)	B3	54%	10513	153 (1)	-	-	100%	70%	Oct-19
Turkmenistan	104	0 (0)	-	-	104	0 (0)	-	-	100%	100%	Oct-19
Ukraine	1402	721 (51)	B3,D8	0%	852	27 (3)	-	-	100%	100%	Oct-19
United Kingdom	3720	732 (20)	B3,D8	41%	584	1 (0)	-	-	80%	80%	Aug-19
Uzbekistan	819	538 (66)	B3,D8	0%	819	1 (0)	-	-	100%	80%	Oct-19
<b>Region</b>	<b>70305</b>	<b>29097 (41)</b>	<b>-</b>	<b>34%</b>	<b>41555</b>	<b>1090 (3)</b>	<b>-</b>	<b>78%</b>	<b>76%</b>	<b>65%</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 tables 1-4.

