

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 2022—October 2023 (data as of 06 December 2023)

Country	Total Population in 2023 ¹	Incidence Rate November 2022–October 2023 (per 1 million population)	Total measles cases	Month and year of rash onset												Month & year of last report
				Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	
Albania	2 832 439	1.06	3	0	0	0	3	0	0	0	0	0	0	0	0	Oct-23
Andorra	80 088	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Armenia	2 777 971	175.31	487	0	0	0	11	87	48	66	86	83	43	38	25	Oct-23
Austria	8 958 961	17.52	157	0	0	1	49	54	15	2	13	17	5	1	0	Oct-23
Azerbaijan	10 412 652	5.19	54	0	0	0	0	0	1	2	0	1	13	37	-	Sep-23
Belarus	9 498 238	5.16	49	0	0	0	1	0	13	5	10	11	8	0	1	Oct-23
Belgium	11 686 140	3.51	41	1	5	0	0	1	4	7	10	0	5	4	4	Oct-23
Bosnia and Herzegovina	3 210 848	0.93	3	0	0	0	2	0	0	1	0	0	0	0	0	Oct-23
Bulgaria	6 687 717	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Croatia	4 008 617	0.25	1	0	0	0	0	0	0	0	0	0	0	0	1	Oct-23
Cyprus	1 260 138	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Czechia	10 495 295	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Denmark	5 910 913	1.35	8	0	0	0	0	1	0	0	0	1	6	0	0	Oct-23
Estonia	1 322 766	3.02	4	0	0	1	0	1	0	1	0	0	0	1	0	Oct-23
Finland	5 545 475	0.18	1	0	0	0	0	0	0	0	0	1	0	0	0	Oct-23
France	64 756 584	1.64	106	0	0	3	1	5	2	0	7	4	4	43	37	Oct-23
Georgia	3 728 282	7.51	28	0	0	2	0	4	1	1	0	5	2	5	8	Oct-23
Germany	83 294 633	0.71	59	2	1	1	1	4	9	7	3	8	12	4	7	Oct-23
Greece	10 341 277	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Hungary	10 156 239	0.10	1	0	0	0	0	0	0	0	0	1	0	0	0	Oct-23
Iceland	375 319	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Ireland	5 056 935	1.58	8	1	0	0	0	0	0	0	0	1	4	2	0	Oct-23
Israel	9 174 520	1.31	12	0	0	0	0	0	0	1	0	1	0	6	4	Oct-23
Italy	58 870 763	0.44	26	3	1	1	1	2	1	1	1	1	3	9	2	Oct-23
Kazakhstan	19 606 634	627.54	12304	0	-	0	7	109	153	600	1047	965	1564	3303	4556	Oct-23
Kyrgyzstan	6 735 348	540.28	3639	0	11	4	6	79	252	399	484	552	356	556	940	Oct-23
Latvia	1 830 212	0.55	1	0	0	0	0	0	1	0	0	0	0	0	0	Oct-23
Lithuania	2 718 352	0.74	2	0	0	0	0	0	0	0	0	0	0	0	2	Oct-23
Luxembourg	654 768	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Malta	535 065	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Monaco	36 298	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Montenegro	626 485	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Netherlands (Kingdom of the)	17 618 299	0.62	11	5	0	0	0	0	0	0	0	2	1	0	3	Oct-23
North Macedonia	2 085 679	0.48	1	0	0	0	0	1	0	0	0	0	0	0	0	Oct-23
Norway	5 474 360	0.37	2	0	0	0	0	0	0	0	0	0	2	0	0	Oct-23
Poland	41 026 068	0.73	30	4	6	1	0	1	3	9	2	0	3	0	1	Oct-23
Portugal	10 247 605	0.10	1	0	0	1	0	0	0	0	0	0	0	0	0	Oct-23
Republic of Moldova	3 435 931	0.29	1	0	0	0	0	0	0	1	0	0	0	0	0	Oct-23
Romania	19 892 812	49.31	981	0	3	5	17	60	72	74	66	170	267	193	54	Oct-23
Russian Federation	144 444 359	42.45	6131	14	67	195	392	533	625	875	790	895	926	327	492	Oct-23
San Marino	33 642	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Serbia	7 149 077	7.27	52	0	0	25	16	7	3	0	0	1	0	0	0	Oct-23
Slovakia	5 795 199	1.04	6	0	0	2	1	0	3	0	0	0	0	0	0	Oct-23
Slovenia	2 119 675	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Spain	47 519 628	0.21	10	0	1	1	1	0	0	1	0	0	1	4	1	Oct-23
Sweden	10 612 086	1.04	11	0	0	0	0	1	2	1	0	2	5	0	0	Oct-23
Switzerland	8 796 669	4.55	40	0	1	4	1	1	4	15	5	0	1	2	6	Oct-23
Tajikistan	10 143 543	53.04	538	33	17	76	127	97	79	51	20	23	7	7	1	Oct-23
Türkiye	85 816 199	53.63	4602	18	25	193	340	447	507	638	876	700	385	267	206	Oct-23
Turkmenistan	6 516 100	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Ukraine	36 744 634	1.52	56	3	2	1	2	7	7	3	4	9	10	5	3	Oct-23
United Kingdom	67 736 802	2.32	157	1	1	12	9	14	28	33	22	12	5	8	12	Oct-23
Uzbekistan	35 163 944	23.03	810	0	0	0	8	27	4	48	38	103	143	188	251	Oct-23
Region	931 558 283	32.67	30434	85	141	529	996	1543	1837	2842	3484	3569	3781	5010	6617	

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 and Kazakhstan.

¹Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2022 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 2022—October 2023 (data as of 06 December 2023)

Country	Total Population in 2023 ¹	Incidence Rate November 2022–October 2023 (per 1 million population)	Total rubella cases	Month and year of rash onset												Month & year of last report
				Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	
Albania	2 832 439	0.35	1	0	0	1	0	0	0	0	0	0	0	0	0	Oct-23
Andorra	80 088	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Armenia	2 777 971	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Austria	8 958 961	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Azerbaijan	10 412 652	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Sep-23
Belarus	9 498 238	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Belgium ²	11 686 140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 210 848	0.62	2	0	0	0	1	0	0	0	0	1	0	0	0	Oct-23
Bulgaria	6 687 717	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Croatia	4 008 617	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Sep-23
Cyprus	1 260 138	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Czechia	10 495 295	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Denmark ²	5 910 913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 322 766	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Finland	5 545 475	0.18	1	0	0	0	0	1	0	0	0	0	0	0	0	Oct-23
France ²	64 756 584	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 728 282	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Germany	83 294 633	0.10	8	0	1	0	1	1	0	0	0	0	2	3	0	Oct-23
Greece	10 341 277	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Hungary	10 156 239	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Iceland	375 319	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Ireland	5 056 935	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Israel	9 174 520	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Italy	58 870 763	0.03	2	0	0	1	0	1	0	0	0	0	0	0	0	Oct-23
Kazakhstan	19 606 634	0.20	4	0	-	0	0	1	3	0	0	0	0	0	0	Oct-23
Kyrgyzstan	6 735 348	1.48	10	0	1	2	3	1	3	0	0	0	0	0	0	Oct-23
Latvia	1 830 212	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Lithuania	2 718 352	0.74	2	1	0	0	0	0	0	0	0	1	0	0	0	Oct-23
Luxembourg	654 768	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Malta	535 065	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Monaco	36 298	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Montenegro	626 485	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Netherlands (Kingdom of the)	17 618 299	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
North Macedonia	2 085 679	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Norway	5 474 360	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Poland	41 026 068	6.14	252	13	22	19	13	22	29	22	27	20	26	20	19	Oct-23
Portugal	10 247 605	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Republic of Moldova	3 435 931	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Romania	19 892 812	0.05	1	0	0	0	0	0	0	0	0	1	0	0	0	Oct-23
Russian Federation	144 444 359	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
San Marino	33 642	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Serbia	7 149 077	0.00	0	-	-	0	0	0	0	0	0	0	0	0	0	Oct-23
Slovakia	5 795 199	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Slovenia	2 119 675	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Spain	47 519 628	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Sweden	10 612 086	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Switzerland	8 796 669	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Tajikistan	10 143 543	0.79	8	0	0	0	0	2	2	3	0	1	0	0	0	Oct-23
Türkiye	85 816 199	0.78	67	5	5	5	6	8	2	3	14	9	6	1	3	Oct-23
Turkmenistan	6 516 100	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Ukraine	36 744 634	0.24	9	1	0	0	1	0	1	0	2	0	1	2	1	Oct-23
United Kingdom	67 736 802	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-23
Uzbekistan	35 163 944	0.06	2	0	0	0	0	0	0	2	0	0	0	0	0	Oct-23
Region	931 558 283	0.40	369	20	29	28	25	37	40	30	43	33	35	26	23	

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 and Poland.

¹ Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2022 Revision.

² Country does not have a comprehensive rubella surveillance system.

Table 3: Measles classification, reporting and surveillance performance, January—October 2023 (data as of 06 December 2023)

Country	Total Population in 2023 ¹	2022 (as of 06 December 2023)			2023													
		Incidence Rate (per 1 million population)	Total measles cases ²	Total measles deaths	Total measles cases ²	Classification			Discarded measles	Imported cases	Measles deaths	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	2 832 439	0.35	1	0	3	3	0	0	9	0	0	100%	90%	Oct-23	100%	0.3	100%	100%
Andorra	80 088	0.00	0	-	0	0	0	0	0	-	-	100%	70%	Oct-23	-	0.0	-	-
Armenia	2 777 971	0.00	0	-	487	479	8	0	811	342	1	100%	100%	Oct-23	100%	29.2	100%	100%
Austria	8 958 961	0.11	1	0	157	156	1	0	29	5	0	100%	80%	Oct-23	90%	0.3	97%	0%
Azerbaijan	10 412 652	0.10	1	0	54	40	13	1	115	5	0	90%	70%	Sep-23	99%	1.1	96%	100%
Belarus ⁷	9 498 238	0.00	0	-	49	49	0	0	290	0	0	100%	70%	Oct-23	100%	3.1	0%	0%
Belgium	11 686 140	1.46	17	0	35	21	7	7	-	-	0	100%	90%	Oct-23	-	-	-	-
Bosnia and Herzegovina	3 210 848	1.86	6	0	3	1	0	2	-	-	0	100%	60%	Oct-23	-	-	-	-
Bulgaria	6 687 717	0.15	1	0	0	0	0	0	-	-	-	100%	100%	Oct-23	-	-	-	-
Croatia	4 008 617	0.00	0	-	1	1	0	0	0	1	0	90%	70%	Oct-23	100%	0.0	100%	0%
Cyprus	1 260 138	0.00	0	-	0	0	0	0	-	-	-	100%	80%	Oct-23	-	-	-	-
Czechia	10 495 295	0.00	0	-	0	0	0	0	-	-	-	100%	90%	Oct-23	-	-	-	-
Denmark	5 910 913	0.00	0	-	8	4	4	0	-	2	0	100%	80%	Oct-23	100%	-	75%	0%
Estonia	1 322 766	0.00	0	-	4	4	0	0	205	4	0	100%	100%	Oct-23	100%	15.5	100%	100%
Finland	5 545 475	0.18	1	0	1	1	0	0	-	1	0	100%	70%	Oct-23	100%	-	100%	0%
France	64 756 584	0.29	19	0	106	93	8	5	-	26	0	100%	100%	Oct-23	100%	-	92%	0%
Georgia	3 728 282	3.20	12	0	28	27	0	1	37	8	0	100%	90%	Oct-23	98%	1.0	86%	92%
Germany	83 294 633	0.18	15	0	56	51	3	2	-	20	0	100%	90%	Oct-23	96%	-	84%	0%
Greece	10 341 277	0.00	0	-	0	0	0	0	0	-	-	100%	90%	Oct-23	-	0.0	-	-
Hungary	10 156 239	0.00	0	-	1	1	0	0	4	1	0	100%	100%	Oct-23	100%	0.0	100%	20%
Iceland	375 319	0.00	0	-	0	0	0	0	-	-	-	100%	90%	Oct-23	-	-	-	-
Ireland	5 056 935	0.40	2	0	7	1	3	3	-	2	0	100%	90%	Oct-23	25%	-	71%	57%
Israel	9 174 520	0.00	0	-	12	9	1	2	-	0	0	100%	70%	Oct-23	100%	-	0%	92%
Italy	58 870 763	0.25	15	0	22	19	0	3	32	7	0	100%	90%	Oct-23	94%	0.1	77%	0%
Kazakhstan	19 606 634	0.21	4	0	12304	11513	550	241	-	-	0	100%	60%	Oct-23	-	-	-	-
Kyrgyzstan ⁷	6 735 348	3.47	23	0	3628	1409	1283	936	840	4	4	100%	100%	Oct-23	58%	12.5	0%	94%
Latvia	1 830 212	0.00	0	-	1	1	0	0	-	1	0	100%	90%	Oct-23	100%	-	100%	100%
Lithuania	2 718 352	0.00	0	-	2	2	0	0	-	1	0	100%	80%	Oct-23	100%	-	100%	100%
Luxembourg	654 768	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Oct-23	-	0.0	-	-
Malta	535 065	0.00	0	-	0	0	0	0	-	-	-	100%	80%	Oct-23	-	-	-	-
Monaco	36 298	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Oct-23	-	0.0	-	-
Montenegro	626 485	0.00	0	-	0	0	0	0	7	-	-	100%	100%	Oct-23	100%	1.1	-	86%
Netherlands (Kingdom of the)	17 618 299	0.34	6	0	6	5	1	0	-	3	0	100%	90%	Oct-23	100%	-	100%	0%
North Macedonia	2 085 679	0.00	0	-	1	1	0	0	0	0	0	100%	90%	Oct-23	100%	0.0	0	100%
Norway	5 474 360	0.18	1	0	2	2	0	0	-	1	0	100%	100%	Oct-23	100%	-	50%	100%
Poland	41 026 068	0.88	35	0	20	11	0	9	-	0	0	100%	90%	Oct-23	65%	-	100%	85%
Portugal	10 247 605	0.00	0	-	1	0	0	1	6	0	0	100%	100%	Oct-23	100%	0.1	0	86%
Republic of Moldova	3 435 931	0.00	0	-	1	1	0	0	96	1	0	100%	100%	Oct-23	100%	2.8	100%	99%
Romania	19 892 812	0.51	10	0	978	912	56	10	-	6	0	100%	60%	Oct-23	100%	-	100%	45%
Russian Federation	144 444 359	0.81	117	0	6050	5878	120	52	5066	188	0	100%	100%	Oct-23	100%	3.5	100%	44%
San Marino	33 642	0.00	0	-	0	0	0	0	0	-	-	100%	80%	Oct-23	-	0.0	-	-
Serbia ⁷	7 149 077	0.00	0	-	52	47	1	4	148	0	0	100%	90%	Oct-23	100%	2.1	92%	100%
Slovakia	5 795 199	0.00	0	-	6	6	0	0	3	2	0	100%	90%	Oct-23	89%	0.1	100%	100%
Slovenia	2 119 675	0.00	0	-	0	0	0	0	-	-	-	100%	100%	Oct-23	-	-	-	-
Spain	47 519 628	0.02	1	0	9	7	0	2	40	5	0	100%	100%	Oct-23	96%	0.1	100%	80%
Sweden	10 612 086	0.38	4	0	11	11	0	0	-	6	0	100%	100%	Oct-23	100%	-	91%	27%
Switzerland	8 796 669	0.11	1	0	39	30	3	6	91	0	0	100%	100%	Oct-23	100%	1.0	0	29%
Tajikistan	10 143 543	45.31	451	0	488	443	45	0	17	487	0	100%	50%	Oct-23	100%	0.2	100%	100%
Türkiye ⁷	85 816 199	1.50	128	0	4559	4546	2	11	6485	63	0	100%	20%	Oct-23	100%	7.6	79%	99%
Turkmenistan ⁷	6 516 100	0.00	0	-	0	0	0	0	116	-	-	100%	100%	Oct-23	100%	1.8	-	100%
Ukraine	36 744 634	0.28	11	0	51	44	0	7	127	0	0	100%	100%	Oct-23	100%	0.3	0%	99%
United Kingdom	67 736 802	0.74	50	0	155	155	0	0	-	24	0	100%	50%	Oct-23	100%	-	84%	0%
Uzbekistan	35 163 944	0.23	8	0	810	797	0	13	374	3	0	100%	70%	Oct-23	100%	1.1	5%	99%
Region	931 558 283	1.01	941	0	30208	26781	2109	1318	14948	1219	5	100%	85%		96%	2.8	69%	75%

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 and Kazakhstan.

¹ Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2022 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—October 2023 (data as of 06 December 2023)

Country	Total Population in 2023 ¹	2022 (as of 06 December 2023)		2023												
		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	2 832 439	0.00	0	1	1	0	0	9	0	100%	90%	Oct-23	90%	0.3	100%	90%
Andorra	80 088	0.00	0	0	0	0	0	0	-	100%	70%	Oct-23	-	0.0	-	-
Armenia	2 777 971	0.00	0	0	0	0	0	0	-	100%	100%	Oct-23	-	0.0	-	-
Austria	8 958 961	0.00	0	0	0	0	0	-	-	100%	80%	Oct-23	-	-	-	-
Azerbaijan	10 412 652	0.39	4	0	0	0	0	54	-	90%	70%	Sep-23	100%	0.5	-	100%
Belarus ⁷	9 498 238	0.00	0	0	0	0	0	290	-	100%	70%	Oct-23	100%	3.1	-	0%
Belgium ⁸	11 686 140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 210 848	0.00	0	2	1	0	1	-	-	100%	60%	Oct-23	-	-	-	-
Bulgaria	6 687 717	0.00	0	0	0	0	0	-	-	100%	100%	Oct-23	-	-	-	-
Croatia	4 008 617	0.00	0	0	0	0	0	-	-	90%	70%	Sep-23	-	-	-	-
Cyprus	1 260 138	0.00	0	0	0	0	0	-	-	100%	80%	Oct-23	-	-	-	-
Czechia	10 495 295	0.00	0	0	0	0	0	-	-	100%	90%	Oct-23	-	-	-	-
Denmark ⁸	5 910 913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 322 766	0.00	0	0	0	0	0	58	-	100%	100%	Oct-23	100%	4.4	-	100%
Finland	5 545 475	0.18	1	1	1	0	0	-	0	100%	70%	Oct-23	100%	-	0%	0%
France ⁸	64 756 584	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 728 282	0.00	0	0	0	0	0	0	-	100%	100%	Oct-23	-	0.0	-	-
Germany	83 294 633	0.10	8	7	4	0	3	-	0	100%	80%	Oct-23	57%	-	71%	0%
Greece	10 341 277	0.00	0	0	0	0	0	-	-	100%	90%	Oct-23	-	-	-	-
Hungary	10 156 239	0.00	0	0	0	0	0	0	-	100%	90%	Oct-23	-	0.0	-	-
Iceland	375 319	0.00	0	0	0	0	0	-	-	100%	90%	Oct-23	-	-	-	-
Ireland	5 056 935	0.00	0	0	0	0	0	-	-	100%	100%	Oct-23	-	-	-	-
Israel	9 174 520	0.00	0	0	0	0	0	-	-	100%	70%	Oct-23	-	-	-	-
Italy	58 870 763	0.07	4	2	1	0	1	13	0	100%	90%	Oct-23	93%	0.0	100%	0%
Kazakhstan	19 606 634	0.00	0	4	3	1	0	-	-	100%	60%	Oct-23	-	-	-	-
Kyrgyzstan ⁷	6 735 348	0.30	2	9	9	0	0	840	1	100%	100%	Oct-23	49%	12.5	11%	93%
Latvia	1 830 212	0.54	1	0	0	0	0	-	-	100%	90%	Oct-23	-	-	-	-
Lithuania	2 718 352	0.36	1	1	1	0	0	-	0	100%	70%	Oct-23	100%	-	100%	100%
Luxembourg	654 768	0.00	0	0	0	0	0	0	-	100%	100%	Oct-23	-	0.0	-	-
Malta	535 065	0.00	0	0	0	0	0	-	-	100%	80%	Oct-23	-	-	-	-
Monaco	36 298	0.00	0	0	0	0	0	0	-	100%	100%	Oct-23	-	0.0	-	-
Montenegro	626 485	0.00	0	0	0	0	0	0	-	100%	100%	Oct-23	-	0.0	-	-
Netherlands (Kingdom of the)	17 618 299	0.00	0	0	0	0	0	-	-	100%	90%	Oct-23	-	-	-	-
North Macedonia	2 085 679	0.00	0	0	0	0	0	0	-	100%	90%	Oct-23	-	0.0	-	-
Norway	5 474 360	0.00	0	0	0	0	0	-	-	100%	100%	Oct-23	-	-	-	-
Poland	41 026 068	3.69	147	217	10	3	204	-	-	100%	80%	Oct-23	-	-	-	-
Portugal	10 247 605	0.00	0	0	0	0	0	4	-	100%	100%	Oct-23	100%	0.0	-	0%
Republic of Moldova	3 435 931	0.00	0	0	0	0	0	0	-	100%	100%	Oct-23	-	0.0	-	-
Romania	19 892 812	0.00	0	1	1	0	0	-	1	100%	70%	Oct-23	100%	-	100%	100%
Russian Federation	144 444 359	0.00	0	0	0	0	0	0	-	100%	100%	Oct-23	-	0.0	-	-
San Marino	33 642	0.00	0	0	0	0	0	0	-	100%	80%	Oct-23	-	0.0	-	-
Serbia ⁷	7 149 077	-	-	0	0	0	0	148	-	100%	90%	Oct-23	99%	2.1	-	98%
Slovakia	5 795 199	0.00	0	0	0	0	0	0	-	100%	90%	Oct-23	-	0.0	-	-
Slovenia	2 119 675	0.00	0	0	0	0	0	-	-	100%	100%	Oct-23	-	-	-	-
Spain	47 519 628	0.00	0	0	0	0	0	4	-	100%	100%	Oct-23	100%	0.0	-	75%
Sweden	10 612 086	0.00	0	0	0	0	0	0	-	100%	100%	Oct-23	-	0.0	-	-
Switzerland	8 796 669	0.00	0	0	0	0	0	42	-	100%	100%	Oct-23	100%	0.5	-	31%
Tajikistan	10 143 543	0.00	0	8	8	0	0	0	8	100%	50%	Oct-23	100%	0.0	100%	100%
Türkiye ⁷	85 816 199	0.47	40	57	57	0	0	6485	0	100%	20%	Oct-23	100%	7.6	95%	99%
Turkmenistan ⁷	6 516 100	0.00	0	0	0	0	0	116	-	100%	100%	Oct-23	100%	1.8	-	100%
Ukraine	36 744 634	0.23	9	8	3	0	5	71	0	100%	100%	Oct-23	100%	0.2	0%	100%
United Kingdom	67 736 802	0.00	0	0	0	0	0	-	-	100%	50%	Oct-23	-	-	-	-
Uzbekistan	35 163 944	0.00	0	2	2	0	0	0	0	100%	70%	Oct-23	100%	0.0	0%	100%
Region	931 558 283	0.23	217	320	102	4	214	8134	10	94%	80%		95%	1.6	75%	94%

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 and Poland.

¹ Population source: United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2022 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—October 2023 (data as of 06 December 2023)

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	13	3 (23)	-	-	1	1 (100)	-	-	100%	80%	Oct-23
Andorra											No lab
Armenia	-	-	-	-	-	-	-	-	-	-	No report
Austria	1485	116 (8)	B3,D8	99%	4210	0 (0)	-	-	90%	70%	Oct-23
Azerbaijan	237	101 (43)	-	-	55	0 (0)	-	-	100%	100%	Oct-23
Belarus	-	-	D8	23%	-	-	-	-	-	-	No report
Belgium	40	8 (20)	B3,D8	93%	9	0 (0)	-	-	20%	20%	Aug-23
Bosnia and Herzegovina	17	1 (6)	-	-	13	1 (8)	-	-	50%	50%	Aug-23
Bulgaria	31	0 (0)	-	-	31	0 (0)	-	-	100%	50%	Oct-23
Croatia	4	0 (0)	D8	100%	0	-	-	-	50%	50%	May-23
Cyprus	57	0 (0)	-	-	118	0 (0)	-	-	100%	70%	Oct-23
Czechia	31	5 (16)	-	-	64	1 (2)	-	-	100%	100%	Oct-23
Denmark	479	26 (5)	B3,D8	100%	45	7 (16)	-	-	100%	100%	Oct-23
Estonia	82	10 (12)	B3,D8	100%	4	0 (0)	-	-	100%	100%	Oct-23
Finland	27	3 (11)	D8	100%	16	0 (0)	-	-	100%	100%	Oct-23
France	-	-	B3,D8	95%	-	-	-	-	-	-	No report
Georgia	54	19 (35)	B3,D8	67%	43	0 (0)	-	-	80%	60%	Aug-23
Germany	359	103 (29)	B3,D8	97%	228	5 (2)	-	-	100%	80%	Oct-23
Greece	-	-	-	-	-	-	-	-	-	-	No report
Hungary	113	7 (6)	D8	100%	89	0 (0)	-	-	100%	100%	Oct-23
Iceland	-	-	-	-	-	-	-	-	-	-	No report
Ireland	506	7 (1)	B3	100%	2000	8 (0)	-	-	100%	100%	Oct-23
Israel	236	47 (20)	B3	100%	578	204 (35)	-	-	100%	80%	Oct-23
Italy	182	46 (25)	D8	86%	18	0 (0)	-	-	100%	100%	Oct-23
Kazakhstan	13622	11711 (86)	B3,D8	48%	646	3 (0)	-	-	100%	90%	Oct-23
Kyrgyzstan	3301	1713 (52)	-	-	2031	10 (0)	-	-	100%	90%	Oct-23
Latvia	121	4 (3)	D8	100%	77	2 (3)	-	-	100%	100%	Oct-23
Lithuania	68	6 (9)	-	-	67	3 (4)	-	-	100%	100%	Oct-23
Luxembourg	32	0 (0)	D8	50%	0	-	-	-	100%	90%	Oct-23
Malta	39	4 (10)	-	-	828	7 (1)	-	-	100%	30%	Oct-23
Monaco											No lab
Montenegro	-	-	-	-	-	-	-	-	-	-	No report
Netherlands (Kingdom of the)	27	3 (11)	B3,D8	100%	9	0 (0)	-	-	100%	100%	Oct-23
North Macedonia	55	6 (11)	-	-	4	3 (75)	-	-	100%	50%	Oct-23
Norway	7	6 (86)	D8	100%	1	1 (100)	-	-	100%	100%	Oct-23
Poland	-	-	-	-	-	-	-	-	-	-	No report
Portugal	19	0 (0)	-	-	2	0 (0)	-	-	100%	60%	Oct-23
Republic of Moldova	96	1 (1)	-	-	96	0 (0)	-	-	90%	90%	Oct-23
Romania	1325	1146 (86)	D8	97%	157	1 (1)	-	-	100%	100%	Oct-23
Russian Federation	19177	10092 (53)	B3,D8	35%	16432	261 (2)	-	-	100%	100%	Oct-23
San Marino											No lab
Serbia	187	56 (30)	B3	100%	254	0 (0)	-	-	100%	100%	Oct-23
Slovakia	39	10 (26)	-	-	27	0 (0)	-	-	100%	100%	Oct-23
Slovenia	49	2 (4)	D8	100%	18	0 (0)	-	-	100%	90%	Oct-23
Spain	-	-	B3,D8	57%	-	-	-	-	-	-	No report
Sweden	1148	41 (4)	B3,D8	100%	1670	17 (1)	-	-	100%	100%	Oct-23
Switzerland	138	49 (36)	B3,D8	100%	6	5 (83)	-	-	100%	100%	Oct-23
Tajikistan	320	193 (60)	-	-	290	0 (0)	-	-	30%	30%	Mar-23
Türkiye	7051	1225 (17)	-	-	4597	81 (2)	-	-	100%	20%	Oct-23
Turkmenistan	114	0 (0)	-	-	114	1 (1)	-	-	100%	100%	Oct-23
Ukraine	96	15 (16)	-	-	79	3 (4)	-	-	100%	100%	Oct-23
United Kingdom	1268	161 (13)	B3,D8	96%	86	0 (0)	-	-	70%	70%	Oct-23
Uzbekistan	800	540 (68)	-	-	800	3 (0)	-	-	90%	80%	Sep-23
Region	53052	27486 (52)	-	75%	35813	628 (2)	-	-	73%	64%	

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: <https://who-gmrln.org/rubens2>. 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: 1) 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.

2) Numbers provided for 'Total specimens tested' and 'Positive for measles' (or rubella) may not be consistent with 'Genotypes reported' due to differences in data sources and reporting timeframes.

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