

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 2021—November 2022 (data as of 10 January 2023)

Country	Total Population in 2022 ¹	Incidence Rate December 2021–November 2022 (per 1 million population)	Total measles cases	Month and year of rash onset												Month & year of last report
				Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	
Albania	2 842 321	0.35	1	0	0	0	0	0	0	0	0	0	0	1	0	Nov-22
Andorra	79 824	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Armenia	2 780 469	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Austria	8 939 617	0.11	1	0	0	0	0	0	1	0	0	0	0	0	0	Nov-22
Azerbaijan	10 358 074	0.48	5	0	0	0	0	0	1	0	0	0	0	0	4	Nov-22
Belarus	9 534 955	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Belgium	11 655 930	1.29	15	3	0	0	1	1	2	3	0	0	2	2	1	Nov-22
Bosnia and Herzegovina	3 233 527	2.16	7	1	0	1	1	0	0	0	1	0	1	2	0	Nov-22
Bulgaria	6 781 953	0.15	1	0	0	0	0	1	0	0	0	0	0	0	0	Nov-22
Croatia	4 030 358	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Oct-22
Cyprus	1 251 489	0.80	1	1	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Czech Republic	10 493 986	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Denmark	5 882 262	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Estonia	1 326 062	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Finland	5 540 746	0.18	1	0	0	0	0	0	0	0	0	0	1	0	0	Nov-22
France	64 626 628	0.36	23	3	0	1	0	7	1	0	4	2	2	3	-	Oct-22
Georgia	3 744 386	3.20	12	0	1	1	0	1	1	3	2	0	0	3	0	Nov-22
Germany	83 369 843	0.17	14	1	2	3	1	1	2	1	1	1	0	1	0	Nov-22
Greece	10 384 971	0.10	1	0	0	0	0	1	0	0	0	0	0	0	0	Nov-22
Hungary	9 967 308	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Iceland	372 899	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Ireland	5 023 109	0.40	2	0	0	0	0	1	0	0	0	0	0	0	1	Nov-22
Israel	9 038 309	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Italy	59 037 474	0.17	10	1	1	1	2	0	1	0	1	0	1	2	-	Oct-22
Kazakhstan	19 397 998	0.52	10	0	0	0	0	0	0	0	0	3	1	6	0	Nov-22
Kyrgyzstan	6 630 623	1.66	11	1	1	0	7	1	0	0	0	0	1	0	0	Nov-22
Latvia	1 850 651	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Lithuania	2 750 055	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Luxembourg	647 599	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Malta	533 286	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Monaco	36 469	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Montenegro	627 083	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Netherlands	17 564 014	0.06	1	0	0	0	0	0	0	0	0	1	0	0	-	Oct-22
North Macedonia	2 093 599	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Norway	5 434 319	0.18	1	0	0	0	0	0	0	0	0	1	0	0	0	Nov-22
Poland	39 857 146	0.63	25	0	2	2	3	3	3	2	1	3	2	3	1	Nov-22
Portugal	10 270 865	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Republic of Moldova	3 272 996	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Romania	19 659 267	0.41	8	1	0	1	2	0	1	1	2	0	0	0	0	Nov-22
Russian Federation	144 713 314	0.35	50	0	4	0	3	5	3	6	0	6	3	6	14	Nov-22
San Marino	33 661	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Serbia	7 221 366	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Slovakia	5 643 453	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Slovenia	2 119 844	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Spain	47 558 630	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Sweden	10 549 347	0.38	4	0	0	0	0	0	1	3	0	0	0	0	0	Nov-22
Switzerland	8 740 472	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Tajikistan	9 952 787	44.61	444	10	17	22	49	46	40	49	50	33	48	47	33	Nov-22
Türkiye	85 341 241	1.25	107	10	2	1	9	11	7	11	12	6	9	16	13	Nov-22
Turkmenistan	6 430 771	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Ukraine	39 701 739	0.25	10	1	1	1	1	0	0	2	1	0	0	0	3	Nov-22
United Kingdom	67 508 936	0.71	48	0	1	0	0	0	3	23	13	3	1	3	1	Nov-22
Uzbekistan	34 627 653	0.23	8	0	0	0	0	4	2	2	0	0	0	0	0	Nov-22
Region	931 065 684	0.88	821	33	32	34	79	83	69	106	88	59	72	95	71	

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) and Serbia.

¹ Population 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 December 2021—November 2022 (data as of 10 January 2023)

Country	Total Population in 2022 ¹	Incidence Rate December 2021–November 2022 (per 1 million population)	Total rubella cases	Month and year of rash onset												Month & year of last report
				Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	
Albania	2 842 321	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Andorra	79 824	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Armenia	2 780 469	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Austria	8 939 617	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Azerbaijan	10 358 074	0.39	4	0	0	0	0	2	0	0	1	0	1	0	0	Nov-22
Belarus	9 534 955	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Belgium ²	11 655 930	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 233 527	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Bulgaria	6 781 953	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Croatia	4 030 358	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Oct-22
Cyprus	1 251 489	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Czech Republic	10 493 986	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Denmark ²	5 882 262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 326 062	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Finland	5 540 746	0.18	1	0	0	0	0	1	0	0	0	0	0	0	0	Nov-22
France ²	64 626 628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 744 386	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Germany	83 369 843	0.08	7	0	2	0	0	0	0	2	1	1	1	0	0	Nov-22
Greece	10 384 971	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Hungary	9 967 308	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Iceland	372 899	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Ireland	5 023 109	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Israel	9 038 309	0.11	1	1	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Italy	59 037 474	0.07	4	0	0	1	0	0	0	0	1	1	1	0	-	Oct-22
Kazakhstan	19 397 998	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Kyrgyzstan	6 630 623	0.15	1	0	0	0	0	0	0	0	0	0	0	1	0	Nov-22
Latvia	1 850 651	0.54	1	0	0	0	0	0	0	0	0	0	0	1	0	Nov-22
Lithuania	2 750 055	0.36	1	0	0	0	0	0	0	0	0	0	0	0	1	Nov-22
Luxembourg	647 599	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Malta	533 286	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Monaco	36 469	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Montenegro	627 083	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Netherlands	17 564 014	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
North Macedonia	2 093 599	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Norway	5 434 319	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Poland	39 857 146	3.44	137	4	8	3	14	15	8	13	11	13	12	20	16	Nov-22
Portugal	10 270 865	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Republic of Moldova	3 272 996	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Romania	19 659 267	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Russian Federation	144 713 314	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
San Marino	33 661	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Serbia	7 221 366	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No report
Slovakia	5 643 453	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Slovenia	2 119 844	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Spain	47 558 630	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Sweden	10 549 347	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Switzerland	8 740 472	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Tajikistan	9 952 787	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Türkiye	85 341 241	0.45	38	3	0	3	7	3	2	6	5	0	1	3	5	Nov-22
Turkmenistan	6 430 771	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Ukraine	39 701 739	0.23	9	1	3	0	0	0	1	2	0	1	0	1	0	Nov-22
United Kingdom	67 508 936	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Uzbekistan	34 627 653	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-22
Region	931 065 684	0.22	204	9	13	7	21	21	11	23	19	16	16	26	22	

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 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—November 2022 (data as of 10 January 2023)

Country	Total Population in 2022 ¹	2021 (as of 10 January 2023)			2022													
		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	2 842 321	0.00	0	-	1	1	0	0	4	0	0	100%	100%	Nov-22	100%	0.1	100%	100%
Andorra	79 824	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Nov-22	-	0.0	-	-
Armenia	2 780 469	0.00	0	-	0	0	0	0	26	-	-	100%	64%	Nov-22	100%	0.9	-	100%
Austria	8 939 617	0.11	1	0	1	1	0	0	4	0	0	100%	100%	Nov-22	40%	0.0	100%	0%
Azerbaijan	10 358 074	0.19	2	0	5	1	0	4	161	0	0	100%	100%	Nov-22	98%	1.6	20%	98%
Belarus ⁷	9 534 955	0.31	3	0	0	0	0	0	332	-	-	100%	91%	Nov-22	100%	3.5	-	0%
Belgium	11 655 930	0.60	7	0	12	7	1	4	-	-	0	100%	91%	Nov-22	-	-	-	-
Bosnia and Herzegovina	3 233 527	0.61	2	0	6	0	0	6	-	-	0	100%	36%	Nov-22	-	-	-	-
Bulgaria	6 781 953	0.00	0	-	1	1	0	0	-	0	0	100%	100%	Nov-22	100%	-	100%	100%
Croatia	4 030 358	0.00	0	-	0	0	0	0	0	-	-	91%	27%	Oct-22	-	0.0	-	-
Cyprus	1 251 489	0.80	1	0	0	0	0	0	-	-	-	100%	91%	Nov-22	-	-	-	-
Czech Republic	10 493 986	0.00	0	-	0	0	0	0	-	-	-	100%	100%	Nov-22	-	-	-	-
Denmark	5 882 262	0.00	0	-	0	0	0	0	-	-	-	100%	100%	Nov-22	-	-	-	-
Estonia	1 326 062	0.00	0	-	0	0	0	0	109	-	-	100%	100%	Nov-22	100%	8.2	-	97%
Finland	5 540 746	0.54	3	0	1	1	0	0	-	0	0	100%	100%	Nov-22	100%	-	0	0%
France	64 626 628	0.25	16	0	20	15	0	5	-	6	0	91%	73%	Oct-22	85%	-	85%	0%
Georgia	3 744 386	1.33	5	0	12	8	0	4	42	0	0	100%	100%	Nov-22	98%	1.1	100%	93%
Germany	83 369 843	0.08	7	0	13	8	0	5	-	4	0	100%	91%	Nov-22	62%	-	85%	0%
Greece	10 384 971	0.00	0	-	1	0	0	1	0	0	0	100%	91%	Nov-22	0%	0.0	100%	0%
Hungary	9 967 308	0.00	0	-	0	0	0	0	0	-	-	100%	91%	Nov-22	-	0.0	-	-
Iceland	372 899	0.00	0	-	0	0	0	0	-	-	-	100%	91%	Nov-22	-	-	-	-
Ireland	5 023 109	0.00	0	-	2	1	0	1	-	1	0	100%	100%	Nov-22	50%	-	100%	100%
Israel	9 038 309	0.00	0	-	0	0	0	0	-	-	-	100%	73%	Nov-22	-	-	-	-
Italy	59 037 474	0.14	8	0	9	6	1	2	14	2	0	91%	91%	Oct-22	95%	0.0	67%	0%
Kazakhstan	19 397 998	0.10	2	0	10	4	0	6	-	-	0	100%	91%	Nov-22	-	-	-	-
Kyrgyzstan ⁷	6 630 623	0.61	4	0	10	1	0	9	55	0	0	100%	100%	Nov-22	88%	0.8	0	85%
Latvia	1 850 651	0.00	0	-	0	0	0	0	-	-	-	100%	45%	Nov-22	-	-	-	-
Lithuania	2 750 055	0.00	0	-	0	0	0	0	-	-	-	100%	100%	Nov-22	-	-	-	-
Luxembourg	647 599	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Nov-22	-	0.0	-	-
Malta	533 286	0.00	0	-	0	0	0	0	-	-	-	100%	64%	Nov-22	-	-	-	-
Monaco	36 469	0.00	0	-	0	0	0	0	0	-	-	100%	91%	Nov-22	-	0.0	-	-
Montenegro	627 083	0.00	0	-	0	0	0	0	5	-	-	100%	100%	Nov-22	100%	0.8	-	20%
Netherlands	17 564 014	0.00	0	-	1	1	0	0	-	1	0	91%	91%	Oct-22	100%	-	100%	0%
North Macedonia	2 093 599	0.00	0	-	0	0	0	0	-	-	-	100%	55%	Nov-22	-	-	-	-
Norway	5 434 319	0.00	0	-	1	1	0	0	-	1	0	100%	100%	Nov-22	100%	-	100%	100%
Poland	39 857 146	0.37	14	0	25	5	0	20	-	-	0	100%	100%	Nov-22	-	-	-	-
Portugal	10 270 865	0.00	0	-	0	0	0	0	9	-	-	100%	64%	Nov-22	89%	0.1	-	22%
Republic of Moldova	3 272 996	0.00	0	-	0	0	0	0	62	-	-	100%	100%	Nov-22	100%	1.9	-	100%
Romania	19 659 267	0.05	1	0	7	5	1	1	-	0	0	100%	91%	Nov-22	83%	-	100%	57%
Russian Federation	144 713 314	0.01	1	0	50	49	1	0	2422	18	0	100%	100%	Nov-22	100%	1.7	100%	27%
San Marino	33 661	0.00	0	-	0	0	0	0	0	-	-	100%	55%	Nov-22	-	0.0	-	-
Serbia	7 221 366	0.14	1	0	0	0	0	0	-	-	-	100%	100%	Nov-22	-	-	-	-
Slovakia	5 643 453	0.00	0	-	0	0	0	0	3	-	-	100%	100%	Nov-22	100%	0.1	-	100%
Slovenia	2 119 844	0.00	0	-	0	0	0	0	-	-	-	100%	100%	Nov-22	-	-	-	-
Spain	47 558 630	0.04	2	0	0	0	0	0	20	-	-	100%	82%	Nov-22	95%	0.0	-	75%
Sweden	10 549 347	0.00	0	-	4	2	2	0	-	1	0	100%	100%	Nov-22	100%	-	100%	25%
Switzerland	8 740 472	0.00	0	-	0	0	0	0	73	-	-	100%	100%	Nov-22	100%	0.8	-	4%
Tajikistan	9 952 787	1.03	10	0	434	396	38	0	102	331	0	100%	100%	Nov-22	100%	1.0	85%	100%
Türkiye ⁷	85 341 241	0.60	51	0	97	84	0	13	1200	0	0	100%	100%	Nov-22	100%	1.4	55%	97%
Turkmenistan ⁷	6 430 771	0.00	0	-	0	0	0	0	130	-	-	100%	100%	Nov-22	100%	2.0	-	100%
Ukraine	39 701 739	0.37	16	0	9	3	0	6	31	0	0	100%	100%	Nov-22	78%	0.1	89%	98%
United Kingdom	67 508 936	0.03	2	0	48	48	0	0	-	11	0	100%	100%	Nov-22	100%	-	100%	0%
Uzbekistan	34 627 653	0.00	0	-	8	8	0	0	87	0	0	100%	9%	Nov-22	100%	0.3	100%	100%
Region	931 065 684	0.17	159	0	788	657	44	87	4891	376	0	99%	87%		99%	0.9	82%	57%

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) and Serbia.

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—November 2022 (data as of 10 January 2023)

Country	Total Population in 2022 ¹	2021 (as of 10 January 2023)		2022												
		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	2 842 321	0.00	0	0	0	0	0	4	-	100%	100%	Nov-22	100%	0.1	-	100%
Andorra	79 824	0.00	0	0	0	0	0	0	-	100%	100%	Nov-22	-	0.0	-	-
Armenia	2 780 469	0.00	0	0	0	0	0	0	-	100%	64%	Nov-22	-	0.0	-	-
Austria	8 939 617	0.00	0	0	0	0	0	-	-	100%	100%	Nov-22	-	-	-	-
Azerbaijan	10 358 074	0.19	2	4	3	0	1	62	0	100%	100%	Nov-22	97%	0.6	0%	98%
Belarus ⁷	9 534 955	0.00	0	0	0	0	0	332	-	100%	91%	Nov-22	100%	3.5	-	0%
Belgium ⁸	11 655 930	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 233 527	0.31	1	0	0	0	0	-	-	100%	36%	Nov-22	-	-	-	-
Bulgaria	6 781 953	0.15	1	0	0	0	0	-	-	100%	100%	Nov-22	-	-	-	-
Croatia	4 030 358	0.00	0	0	0	0	0	-	-	91%	27%	Oct-22	-	-	-	-
Cyprus	1 251 489	0.00	0	0	0	0	0	-	-	100%	91%	Nov-22	-	-	-	-
Czech Republic	10 493 986	0.00	0	0	0	0	0	-	-	100%	100%	Nov-22	-	-	-	-
Denmark ⁸	5 882 262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 326 062	0.00	0	0	0	0	0	43	-	100%	100%	Nov-22	100%	3.2	-	100%
Finland	5 540 746	0.18	1	1	1	0	0	-	0	100%	100%	Nov-22	100%	-	0%	0%
France ⁸	64 626 628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 744 386	0.00	0	0	0	0	0	7	-	100%	100%	Nov-22	100%	0.2	-	100%
Germany	83 369 843	0.08	7	7	2	0	5	-	0	100%	91%	Nov-22	29%	-	29%	0%
Greece	10 384 971	0.00	0	0	0	0	0	-	-	100%	91%	Nov-22	-	-	-	-
Hungary	9 967 308	0.00	0	0	0	0	0	0	-	100%	91%	Nov-22	-	0.0	-	-
Iceland	372 899	0.00	0	0	0	0	0	-	-	100%	91%	Nov-22	-	-	-	-
Ireland	5 023 109	0.00	0	0	0	0	0	-	-	100%	100%	Nov-22	-	-	-	-
Israel	9 038 309	0.11	1	0	0	0	0	-	-	100%	73%	Nov-22	-	-	-	-
Italy	59 037 474	0.00	0	4	2	1	1	5	0	91%	91%	Oct-22	100%	0.0	75%	0%
Kazakhstan	19 397 998	0.00	0	0	0	0	0	-	-	100%	91%	Nov-22	-	-	-	-
Kyrgyzstan ⁷	6 630 623	0.15	1	1	1	0	0	55	0	100%	100%	Nov-22	100%	0.8	0%	80%
Latvia	1 850 651	0.00	0	1	1	0	0	-	0	100%	45%	Nov-22	100%	-	100%	0%
Lithuania	2 750 055	0.00	0	1	1	0	0	-	0	100%	100%	Nov-22	0%	-	100%	0%
Luxembourg	647 599	0.00	0	0	0	0	0	0	-	100%	100%	Nov-22	-	0.0	-	-
Malta	533 286	0.00	0	0	0	0	0	-	-	100%	64%	Nov-22	-	-	-	-
Monaco	36 469	0.00	0	0	0	0	0	0	-	100%	91%	Nov-22	-	0.0	-	-
Montenegro	627 083	0.00	0	0	0	0	0	0	-	100%	91%	Nov-22	-	0.0	-	-
Netherlands	17 564 014	0.00	0	0	0	0	0	-	-	100%	100%	Nov-22	-	-	-	-
North Macedonia	2 093 599	0.00	0	0	0	0	0	-	-	100%	55%	Nov-22	-	-	-	-
Norway	5 434 319	0.00	0	0	0	0	0	-	-	100%	100%	Nov-22	-	-	-	-
Poland	39 857 146	1.31	50	133	2	0	131	-	-	100%	100%	Nov-22	-	-	-	-
Portugal	10 270 865	0.00	0	0	0	0	0	11	-	100%	64%	Nov-22	82%	0.1	-	36%
Republic of Moldova	3 272 996	0.00	0	0	0	0	0	1	-	100%	100%	Nov-22	100%	0.0	-	100%
Romania	19 659 267	0.05	1	0	0	0	0	-	-	100%	100%	Nov-22	-	-	-	-
Russian Federation	144 713 314	0.01	1	0	0	0	0	0	-	100%	100%	Nov-22	-	0.0	-	-
San Marino	33 661	0.00	0	0	0	0	0	0	-	100%	55%	Nov-22	-	0.0	-	-
Serbia	7 221 366	-	-	-	-	-	-	-	-	-	-	No report	-	-	-	-
Slovakia	5 643 453	0.00	0	0	0	0	0	0	-	100%	100%	Nov-22	-	0.0	-	-
Slovenia	2 119 844	0.00	0	0	0	0	0	-	-	100%	100%	Nov-22	-	-	-	-
Spain	47 558 630	0.00	0	0	0	0	0	8	-	100%	91%	Nov-22	75%	0.0	-	75%
Sweden	10 549 347	0.00	0	0	0	0	0	0	-	100%	100%	Nov-22	-	0.0	-	-
Switzerland	8 740 472	0.00	0	0	0	0	0	40	-	100%	100%	Nov-22	95%	0.5	-	23%
Tajikistan	9 952 787	0.00	0	0	0	0	0	9	-	100%	100%	Nov-22	100%	0.1	-	100%
Türkiye ⁷	85 341 241	0.18	15	35	29	0	6	1200	0	100%	100%	Nov-22	100%	1.4	100%	97%
Turkmenistan ⁷	6 430 771	0.00	0	0	0	0	0	130	-	100%	100%	Nov-22	100%	2.0	-	100%
Ukraine	39 701 739	0.44	19	8	4	0	4	20	0	100%	100%	Nov-22	71%	0.1	88%	100%
United Kingdom	67 508 936	0.00	0	0	0	0	0	-	-	100%	100%	Nov-22	-	-	-	-
Uzbekistan	34 627 653	0.00	0	0	0	0	0	0	-	100%	9%	Nov-22	-	0.0	-	-
Region	931 065 684	0.11	100	195	46	1	148	1927	0	92%	81%		99%	0.4	79%	78%

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 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—November 2022 (data as of 10 January 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	4	1 (25)	-	-	0	-	-	-	100%	64%	Nov-22
Andorra											No lab
Armenia	-	-	-	-	-	-	-	-	-	-	No report
Austria	1140	1 (0)	D8	100%	4590	0 (0)	-	-	100%	100%	Nov-22
Azerbaijan	168	0 (0)	-	-	65	2 (3)	-	-	100%	100%	Nov-22
Belarus	-	-	-	-	-	-	-	-	-	-	No report
Belgium	-	-	B3	100%	-	-	-	-	-	-	No report
Bosnia and Herzegovina	11	0 (0)	-	-	9	0 (0)	-	-	36%	36%	Aug-22
Bulgaria	41	1 (2)	-	-	39	0 (0)	-	-	100%	55%	Nov-22
Croatia	0	-	-	-	0	-	-	-	18%	18%	Feb-22
Cyprus	40	0 (0)	-	-	73	0 (0)	-	-	73%	45%	Aug-22
Czech Republic	17	4 (24)	-	-	36	2 (6)	-	-	100%	91%	Nov-22
Denmark	286	3 (1)	-	-	30	8 (27)	-	-	100%	91%	Nov-22
Estonia	57	0 (0)	-	-	3	0 (0)	-	-	100%	91%	Nov-22
Finland	12	0 (0)	-	-	12	0 (0)	-	-	82%	73%	Sep-22
France	-	-	B3	100%	-	-	-	-	-	-	No report
Georgia	58	9 (16)	-	-	55	6 (11)	-	-	82%	18%	Sep-22
Germany	109	9 (8)	B3	100%	58	2 (3)	-	-	100%	91%	Nov-22
Greece	0	-	-	-	0	-	-	-	27%	9%	Mar-22
Hungary	83	0 (0)	-	-	83	0 (0)	-	-	100%	100%	Nov-22
Iceland	-	-	-	-	-	-	-	-	-	-	No report
Ireland	519	5 (1)	-	-	2147	3 (0)	-	-	100%	73%	Nov-22
Israel	-	-	-	-	-	-	-	-	-	-	No report
Italy	94	21 (22)	B3	100%	9	0 (0)	-	-	100%	100%	Nov-22
Kazakhstan	18	4 (22)	D8	100%	19	0 (0)	-	-	100%	55%	Nov-22
Kyrgyzstan	0	-	-	-	0	-	-	-	9%	9%	Sep-22
Latvia	141	6 (4)	-	-	104	4 (4)	-	-	100%	100%	Nov-22
Lithuania	19	0 (0)	-	-	19	0 (0)	-	-	100%	100%	Nov-22
Luxembourg	21	0 (0)	-	-	0	-	-	-	82%	82%	Oct-22
Malta	36	0 (0)	-	-	513	0 (0)	-	-	73%	18%	Aug-22
Monaco											No lab
Montenegro	-	-	-	-	-	-	-	-	-	-	No report
Netherlands	19	8 (42)	B3	100%	9	0 (0)	-	-	73%	73%	Nov-22
North Macedonia	-	-	-	-	-	-	-	-	-	-	No report
Norway	1	1 (100)	B3	100%	0	-	-	-	100%	82%	Nov-22
Poland	-	-	-	-	-	-	-	-	-	-	No report
Portugal	10	0 (0)	-	-	3	0 (0)	-	-	82%	82%	Oct-22
Republic of Moldova	70	0 (0)	-	-	71	0 (0)	-	-	100%	100%	Nov-22
Romania	94	6 (6)	-	-	91	0 (0)	-	-	100%	27%	Nov-22
Russian Federation	3157	117 (4)	B3,D8	92%	3141	30 (1)	-	-	100%	100%	Nov-22
San Marino											No lab
Serbia	19	0 (0)	-	-	19	0 (0)	-	-	64%	64%	Nov-22
Slovakia	21	0 (0)	-	-	5	0 (0)	-	-	100%	100%	Nov-22
Slovenia	33	2 (6)	-	-	8	0 (0)	-	-	100%	100%	Nov-22
Spain	-	-	-	-	-	-	-	-	-	-	No report
Sweden	1008	14 (1)	B3	100%	2014	24 (1)	-	-	100%	91%	Nov-22
Switzerland	74	8 (11)	-	-	6	6 (100)	-	-	100%	100%	Nov-22
Tajikistan	-	-	-	-	-	-	-	-	-	-	No report
Türkiye	1443	101 (7)	-	-	1286	79 (6)	-	-	100%	36%	Nov-22
Turkmenistan	127	0 (0)	-	-	127	0 (0)	-	-	100%	100%	Nov-22
Ukraine	16	0 (0)	-	-	16	3 (19)	-	-	100%	73%	Nov-22
United Kingdom	1984	74 (4)	B3	100%	1116	0 (0)	-	-	100%	100%	Nov-22
Uzbekistan	96	6 (6)	-	-	96	1 (1)	-	-	100%	36%	Nov-22
Region	11046	401 (4)	-	98%	15872	170 (1)	-	-	64%	52%	

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-gmrii.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.

Contact us: Vaccine-preventable Diseases and Immunization Programme, WHO Regional Office for Europe

Tel.: +45 45 33 70 00 E-mail: eumeasles@who.int and/or ucddata@who.intWeb site: <https://www.who.int/europe/health-topics/vaccines-and-immunization> © World Health Organization, 2023.