

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 2021—October 2022 (data as of 01 December 2022)

Country	Total Population in 2022 ¹	Incidence Rate November 2021–October 2022 (per 1 million population)	Total measles cases	Month and year of rash onset												Month & year of last report
				Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	
Albania	2 842 321	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Andorra	79 824	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Armenia	2 780 469	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Austria	8 939 617	0.22	2	1	0	0	0	0	0	1	0	0	0	0	0	Oct-22
Azerbaijan	10 358 074	0.19	2	0	0	0	0	0	0	1	0	0	0	0	1	Oct-22
Belarus	9 534 955	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Belgium	11 655 930	1.29	15	1	3	0	0	1	1	2	3	0	0	2	2	Oct-22
Bosnia and Herzegovina	3 233 527	1.24	4	0	1	0	1	1	0	0	0	1	0	0	0	Oct-22
Bulgaria	6 781 953	0.15	1	0	0	0	0	0	1	0	0	0	0	0	0	Oct-22
Croatia	4 030 358	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Cyprus	1 251 489	0.80	1	0	1	0	0	0	0	0	0	0	0	0	0	Oct-22
Czech Republic	10 493 986	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Denmark	5 882 262	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Estonia	1 326 062	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Finland	5 540 746	0.18	1	0	0	0	0	0	0	0	0	0	0	1	0	Oct-22
France	64 626 628	0.36	23	0	3	0	1	0	7	1	0	4	2	2	3	Oct-22
Georgia	3 744 386	3.74	14	2	0	1	1	0	1	1	3	2	0	0	3	Oct-22
Germany	83 369 843	0.19	16	0	1	2	3	1	1	2	1	1	1	0	3	Oct-22
Greece	10 384 971	0.10	1	0	0	0	0	0	1	0	0	0	0	0	0	Oct-22
Hungary	9 967 308	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Iceland	372 899	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Ireland	5 023 109	1.19	6	0	0	0	0	0	3	0	2	1	0	0	0	Oct-22
Israel	9 038 309	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Italy	59 037 474	0.19	11	1	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	0	3	1	6	Oct-22
Kyrgyzstan	6 630 623	1.66	11	0	1	1	0	7	1	0	0	1	0	0	0	Oct-22
Latvia	1 850 651	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Lithuania	2 750 055	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Luxembourg	647 599	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Malta	533 286	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Monaco	36 469	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Montenegro	627 083	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Netherlands	17 564 014	0.06	1	0	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	-	Sep-22
Norway	5 434 319	0.18	1	0	0	0	0	0	0	0	0	0	1	0	0	Oct-22
Poland	39 857 146	0.63	25	1	0	2	2	3	3	3	2	1	3	2	3	Oct-22
Portugal	10 270 865	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Republic of Moldova	3 272 996	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Romania	19 659 267	0.31	6	0	1	0	1	2	0	1	1	0	0	0	0	Oct-22
Russian Federation	144 713 314	0.25	36	0	0	4	0	3	5	3	6	0	6	3	6	Oct-22
San Marino	33 661	0.00	0	0	0	0	0	0	0	0	0	0	-	-	-	Jul-22
Serbia	7 221 366	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Slovakia	5 643 453	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Slovenia	2 119 844	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Spain	47 558 630	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Sweden	10 549 347	0.38	4	0	0	0	0	0	0	1	3	0	0	0	0	Oct-22
Switzerland	8 740 472	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Tajikistan	9 952 787	40.79	406	0	10	17	22	49	46	40	49	50	33	48	42	Oct-22
Türkiye	85 341 241	1.16	99	7	10	2	1	9	11	7	11	12	6	9	14	Oct-22
Turkmenistan	6 430 771	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Ukraine	39 701 739	0.23	9	2	1	1	1	1	0	0	2	1	0	0	0	Oct-22
United Kingdom	67 508 936	0.67	45	0	0	1	0	0	0	3	23	13	2	1	2	Oct-22
Uzbekistan	34 627 653	0.23	8	0	0	0	0	0	4	2	2	0	0	0	0	Oct-22
Region	931 065 684	0.81	758	15	33	32	34	79	85	69	108	88	58	70	87	

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 November 2021—October 2022 (data as of 01 December 2022)

Country	Total Population in 2022 ¹	Incidence Rate November 2021–October 2022 (per 1 million population)	Total rubella cases	Month and year of rash onset												Month & year of last report
				Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	
Albania	2 842 321	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Andorra	79 824	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Armenia	2 780 469	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Austria	8 939 617	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Azerbaijan	10 358 074	0.39	4	0	0	0	0	0	2	0	0	1	0	1	0	Oct-22
Belarus	9 534 955	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-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	Oct-22
Bulgaria	6 781 953	0.15	1	1	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Croatia	4 030 358	0.00	0	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	Oct-22
Czech Republic	10 493 986	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-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	Oct-22
Finland	5 540 746	0.18	1	0	0	0	0	0	1	0	0	0	0	0	0	Oct-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	Oct-22
Germany	83 369 843	0.10	8	0	0	2	0	0	0	0	2	1	1	2	0	Oct-22
Greece	10 384 971	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Hungary	9 967 308	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Iceland	372 899	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Ireland	5 023 109	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Israel	9 038 309	0.11	1	0	1	0	0	0	0	0	0	0	0	0	0	Oct-22
Italy	59 037 474	0.07	4	0	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	Oct-22
Kyrgyzstan	6 630 623	0.15	1	0	0	0	0	0	0	0	0	0	0	0	1	Oct-22
Latvia	1 850 651	0.54	1	0	0	0	0	0	0	0	0	0	0	0	1	Oct-22
Lithuania	2 750 055	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Luxembourg	647 599	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Malta	533 286	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Monaco	36 469	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Montenegro	627 083	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Netherlands	17 564 014	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
North Macedonia	2 093 599	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Sep-22
Norway	5 434 319	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Poland	39 857 146	3.14	125	4	4	8	3	14	15	8	13	11	13	12	20	Oct-22
Portugal	10 270 865	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Republic of Moldova	3 272 996	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Romania	19 659 267	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Russian Federation	144 713 314	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
San Marino	33 661	0.00	0	0	0	0	0	0	0	0	0	0	-	-	-	Jul-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	Oct-22
Slovenia	2 119 844	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Spain	47 558 630	0.04	2	0	0	0	0	0	0	0	0	0	2	0	0	Oct-22
Sweden	10 549 347	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Switzerland	8 740 472	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Tajikistan	9 952 787	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Türkiye	85 341 241	0.40	34	1	3	0	3	7	3	2	6	5	0	1	3	Oct-22
Turkmenistan	6 430 771	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Ukraine	39 701 739	0.25	10	1	1	3	0	0	0	1	2	0	1	0	1	Oct-22
United Kingdom	67 508 936	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Uzbekistan	34 627 653	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Oct-22
Region	931 065 684	0.21	192	7	9	13	7	21	21	11	23	19	18	17	26	

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—October 2022 (data as of 01 December 2022)

Country	Total Population in 2022 ¹	2021 (as of 01 December 2022)			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	-	0	0	0	0	4	-	-	100%	100%	Oct-22	100%	0.1	-	100%
Andorra	79 824	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Oct-22	-	0.0	-	-
Armenia	2 780 469	0.00	0	-	0	0	0	0	19	-	-	100%	60%	Oct-22	100%	0.7	-	100%
Austria	8 939 617	0.11	1	0	1	1	0	0	4	0	0	100%	100%	Oct-22	40%	0.0	100%	0%
Azerbaijan	10 358 074	0.19	2	0	2	1	0	1	149	0	0	100%	100%	Oct-22	99%	1.4	50%	97%
Belarus ⁷	9 534 955	0.31	3	0	0	0	0	0	265	-	-	100%	90%	Oct-22	100%	2.8	-	0%
Belgium	11 655 930	0.60	7	0	11	6	1	4	-	-	0	100%	90%	Oct-22	-	-	-	-
Bosnia and Herzegovina	3 233 527	0.61	2	0	3	0	0	3	-	-	0	100%	40%	Oct-22	-	-	-	-
Bulgaria	6 781 953	0.00	0	-	1	1	0	0	-	0	0	100%	100%	Oct-22	100%	-	100%	100%
Croatia	4 030 358	0.00	0	-	0	0	0	0	0	-	-	100%	30%	Oct-22	-	0.0	-	-
Cyprus	1 251 489	0.80	1	0	0	0	0	0	-	-	-	100%	90%	Oct-22	-	-	-	-
Czech Republic	10 493 986	0.00	0	-	0	0	0	0	-	-	-	100%	100%	Oct-22	-	-	-	-
Denmark	5 882 262	0.00	0	-	0	0	0	0	-	-	-	100%	100%	Oct-22	-	-	-	-
Estonia	1 326 062	0.00	0	-	0	0	0	0	103	-	-	100%	100%	Oct-22	100%	7.8	-	97%
Finland	5 540 746	0.54	3	0	1	1	0	0	-	0	0	100%	100%	Oct-22	100%	-	0	0%
France	64 626 628	0.25	16	0	20	15	0	5	-	6	0	100%	80%	Oct-22	85%	-	85%	0%
Georgia	3 744 386	1.33	5	0	12	8	0	4	31	0	0	100%	100%	Oct-22	98%	0.8	100%	93%
Germany	83 369 843	0.08	7	0	15	9	0	6	-	4	0	100%	90%	Oct-22	60%	-	80%	0%
Greece	10 384 971	0.00	0	-	1	0	0	1	0	0	0	100%	90%	Oct-22	0%	0.0	100%	0%
Hungary	9 967 308	0.00	0	-	0	0	0	0	0	-	-	100%	90%	Oct-22	-	0.0	-	-
Iceland	372 899	0.00	0	-	0	0	0	0	-	-	-	100%	90%	Oct-22	-	-	-	-
Ireland	5 023 109	0.00	0	-	6	1	0	5	-	0	0	100%	100%	Oct-22	50%	-	17%	50%
Israel	9 038 309	0.00	0	-	0	0	0	0	-	-	-	100%	80%	Oct-22	-	-	-	-
Italy	59 037 474	0.14	8	0	9	6	1	2	14	2	0	100%	100%	Oct-22	95%	0.0	67%	0%
Kazakhstan	19 397 998	0.10	2	0	10	4	0	6	-	-	0	100%	90%	Oct-22	-	-	-	-
Kyrgyzstan ⁷	6 630 623	0.61	4	0	10	1	0	9	46	0	0	100%	100%	Oct-22	86%	0.7	0	82%
Latvia	1 850 651	0.00	0	-	0	0	0	0	-	-	-	100%	40%	Oct-22	-	-	-	-
Lithuania	2 750 055	0.00	0	-	0	0	0	0	-	-	-	100%	100%	Oct-22	-	-	-	-
Luxembourg	647 599	0.00	0	-	0	0	0	0	0	-	-	100%	100%	Oct-22	-	0.0	-	-
Malta	533 286	0.00	0	-	0	0	0	0	-	-	-	100%	60%	Oct-22	-	-	-	-
Monaco	36 469	0.00	0	-	0	0	0	0	0	-	-	100%	90%	Oct-22	-	0.0	-	-
Montenegro	627 083	0.00	0	-	0	0	0	0	5	-	-	100%	100%	Oct-22	100%	0.8	-	20%
Netherlands	17 564 014	0.00	0	-	1	1	0	0	-	1	0	100%	100%	Oct-22	100%	-	100%	0%
North Macedonia	2 093 599	0.00	0	-	0	0	0	0	-	-	-	90%	60%	Sep-22	-	-	-	-
Norway	5 434 319	0.00	0	-	1	1	0	0	-	1	0	100%	100%	Oct-22	100%	-	100%	100%
Poland	39 857 146	0.37	14	0	24	5	0	19	-	-	0	100%	100%	Oct-22	-	-	-	-
Portugal	10 270 865	0.00	0	-	0	0	0	0	8	-	-	100%	60%	Oct-22	88%	0.1	-	25%
Republic of Moldova	3 272 996	0.00	0	-	0	0	0	0	45	-	-	100%	100%	Oct-22	100%	1.4	-	100%
Romania	19 659 267	0.05	1	0	5	5	0	0	-	0	0	100%	90%	Oct-22	100%	-	100%	80%
Russian Federation	144 713 314	0.01	1	0	36	35	1	0	2009	16	0	100%	100%	Oct-22	100%	1.4	100%	29%
San Marino	33 661	0.00	0	-	0	0	0	0	0	-	-	70%	60%	Jul-22	-	0.0	-	-
Serbia	7 221 366	0.14	1	0	0	0	0	0	-	-	-	100%	100%	Oct-22	-	-	-	-
Slovakia	5 643 453	0.00	0	-	0	0	0	0	3	-	-	100%	100%	Oct-22	100%	0.1	-	100%
Slovenia	2 119 844	0.00	0	-	0	0	0	0	-	-	-	100%	100%	Oct-22	-	-	-	-
Spain	47 558 630	0.04	2	0	0	0	0	0	14	-	-	100%	80%	Oct-22	93%	0.0	-	71%
Sweden	10 549 347	0.00	0	-	4	2	2	0	-	1	0	100%	100%	Oct-22	100%	-	100%	25%
Switzerland	8 740 472	0.00	0	-	0	0	0	0	65	-	-	100%	100%	Oct-22	100%	0.7	-	5%
Tajikistan	9 952 787	1.03	10	0	396	396	0	0	102	293	0	100%	100%	Oct-22	100%	1.0	83%	100%
Türkiye ⁷	85 341 241	0.60	51	0	82	69	0	13	1042	0	0	100%	100%	Oct-22	100%	1.2	57%	97%
Turkmenistan ⁷	6 430 771	0.00	0	-	0	0	0	0	112	-	-	100%	100%	Oct-22	100%	1.7	-	100%
Ukraine	39 701 739	0.37	16	0	6	2	0	4	29	0	0	100%	100%	Oct-22	77%	0.1	83%	97%
United Kingdom	67 508 936	0.03	2	0	45	45	0	0	-	9	0	100%	100%	Oct-22	100%	-	100%	0%
Uzbekistan	34 627 653	0.00	0	-	8	8	0	0	87	0	0	100%	10%	Oct-22	100%	0.3	100%	100%
Region	931 065 684	0.17	159	0	710	623	5	82	4156	333	0	99%	88%		99%	0.8	81%	59%

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—October 2022 (data as of 01 December 2022)

Country	Total Population in 2022 ¹	2021 (as of 01 December 2022)		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%	Oct-22	100%	0.1	-	100%
Andorra	79 824	0.00	0	0	0	0	0	0	-	100%	100%	Oct-22	-	0.0	-	-
Armenia	2 780 469	0.00	0	0	0	0	0	0	-	100%	60%	Oct-22	-	0.0	-	-
Austria	8 939 617	0.00	0	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
Azerbaijan	10 358 074	0.19	2	4	3	0	1	58	0	100%	100%	Oct-22	98%	0.6	0%	98%
Belarus ⁷	9 534 955	0.00	0	0	0	0	0	265	-	100%	90%	Oct-22	100%	2.8	-	0%
Belgium ⁸	11 655 930	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 233 527	0.31	1	0	0	0	0	-	-	100%	40%	Oct-22	-	-	-	-
Bulgaria	6 781 953	0.15	1	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
Croatia	4 030 358	0.00	0	0	0	0	0	-	-	100%	30%	Oct-22	-	-	-	-
Cyprus	1 251 489	0.00	0	0	0	0	0	-	-	100%	90%	Oct-22	-	-	-	-
Czech Republic	10 493 986	0.00	0	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
Denmark ⁸	5 882 262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 326 062	0.00	0	0	0	0	0	41	-	100%	100%	Oct-22	100%	3.1	-	100%
Finland	5 540 746	0.18	1	1	1	0	0	-	0	100%	100%	Oct-22	100%	-	0%	0%
France ⁸	64 626 628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 744 386	0.00	0	0	0	0	0	5	-	100%	100%	Oct-22	100%	0.1	-	100%
Germany	83 369 843	0.08	7	8	2	0	6	-	0	100%	90%	Oct-22	25%	-	38%	0%
Greece	10 384 971	0.00	0	0	0	0	0	-	-	100%	90%	Oct-22	-	-	-	-
Hungary	9 967 308	0.00	0	0	0	0	0	0	-	100%	90%	Oct-22	-	0.0	-	-
Iceland	372 899	0.00	0	0	0	0	0	-	-	100%	90%	Oct-22	-	-	-	-
Ireland	5 023 109	0.00	0	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
Israel	9 038 309	0.11	1	0	0	0	0	-	-	100%	80%	Oct-22	-	-	-	-
Italy	59 037 474	0.00	0	4	2	1	1	5	0	100%	100%	Oct-22	100%	0.0	75%	0%
Kazakhstan	19 397 998	0.00	0	0	0	0	0	-	-	100%	90%	Oct-22	-	-	-	-
Kyrgyzstan ⁷	6 630 623	0.15	1	1	1	0	0	46	0	100%	100%	Oct-22	98%	0.7	0%	74%
Latvia	1 850 651	0.00	0	1	1	0	0	-	0	100%	40%	Oct-22	100%	-	100%	0%
Lithuania	2 750 055	0.00	0	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
Luxembourg	647 599	0.00	0	0	0	0	0	0	-	100%	100%	Oct-22	-	0.0	-	-
Malta	533 286	0.00	0	0	0	0	0	-	-	100%	60%	Oct-22	-	-	-	-
Monaco	36 469	0.00	0	0	0	0	0	0	-	100%	90%	Oct-22	-	0.0	-	-
Montenegro	627 083	0.00	0	0	0	0	0	0	-	100%	90%	Oct-22	-	0.0	-	-
Netherlands	17 564 014	0.00	0	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
North Macedonia	2 093 599	0.00	0	0	0	0	0	-	-	90%	60%	Sep-22	-	-	-	-
Norway	5 434 319	0.00	0	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
Poland	39 857 146	1.31	50	117	2	0	115	-	-	100%	100%	Oct-22	-	-	-	-
Portugal	10 270 865	0.00	0	0	0	0	0	9	-	100%	60%	Oct-22	78%	0.1	-	44%
Republic of Moldova	3 272 996	0.00	0	0	0	0	0	1	-	100%	100%	Oct-22	100%	0.0	-	100%
Romania	19 659 267	0.05	1	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
Russian Federation	144 713 314	0.01	1	0	0	0	0	0	-	100%	100%	Oct-22	-	0.0	-	-
San Marino	33 661	0.00	0	0	0	0	0	0	-	70%	60%	Jul-22	-	0.0	-	-
Serbia	7 221 366	-	-	-	-	-	-	-	-	-	-	No report	-	-	-	-
Slovakia	5 643 453	0.00	0	0	0	0	0	0	-	100%	100%	Oct-22	-	0.0	-	-
Slovenia	2 119 844	0.00	0	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
Spain	47 558 630	0.00	0	2	0	0	2	3	0	100%	90%	Oct-22	100%	0.0	50%	100%
Sweden	10 549 347	0.00	0	0	0	0	0	0	-	100%	100%	Oct-22	-	0.0	-	-
Switzerland	8 740 472	0.00	0	0	0	0	0	38	-	100%	100%	Oct-22	97%	0.4	-	18%
Tajikistan	9 952 787	0.00	0	0	0	0	0	9	-	100%	100%	Oct-22	100%	0.1	-	100%
Türkiye ⁷	85 341 241	0.18	15	30	24	0	6	1042	0	100%	100%	Oct-22	100%	1.2	100%	97%
Turkmenistan ⁷	6 430 771	0.00	0	0	0	0	0	112	-	100%	100%	Oct-22	100%	1.7	-	100%
Ukraine	39 701 739	0.44	19	8	4	0	4	18	0	100%	100%	Oct-22	69%	0.0	88%	100%
United Kingdom	67 508 936	0.00	0	0	0	0	0	-	-	100%	100%	Oct-22	-	-	-	-
Uzbekistan	34 627 653	0.00	0	0	0	0	0	0	-	100%	10%	Oct-22	-	0.0	-	-
Region	931 065 684	0.11	100	176	40	1	135	1656	0	92%	81%		99%	0.3	76%	79%

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—October 2022 (data as of 01 December 2022)

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	3	0 (0)	-	-	0	-	-	-	90%	60%	Sep-22
Andorra											No lab
Armenia	-	-	-	-	-	-	-	-	-	-	No report
Austria	1031	1 (0)	D8	100%	4152	0 (0)	-	-	100%	100%	Oct-22
Azerbaijan	156	0 (0)	-	-	62	2 (3)	-	-	100%	100%	Oct-22
Belarus	-	-	-	-	-	-	-	-	-	-	No report
Belgium	-	-	B3	100%	-	-	-	-	-	-	No report
Bosnia and Herzegovina	11	0 (0)	-	-	9	1 (11)	-	-	40%	40%	Aug-22
Bulgaria	29	1 (3)	-	-	27	0 (0)	-	-	80%	50%	Aug-22
Croatia	0	-	-	-	0	-	-	-	20%	20%	Feb-22
Cyprus	40	0 (0)	-	-	73	0 (0)	-	-	80%	50%	Aug-22
Czech Republic	17	4 (24)	-	-	32	2 (6)	-	-	100%	90%	Oct-22
Denmark	261	3 (1)	-	-	27	7 (26)	-	-	100%	90%	Oct-22
Estonia	49	0 (0)	-	-	3	0 (0)	-	-	100%	90%	Oct-22
Finland	12	0 (0)	-	-	12	0 (0)	-	-	90%	80%	Sep-22
France	-	-	B3	100%	-	-	-	-	-	-	No report
Georgia	58	9 (16)	-	-	55	6 (11)	-	-	90%	20%	Sep-22
Germany	103	9 (9)	B3	100%	52	2 (4)	-	-	100%	90%	Oct-22
Greece	0	-	-	-	0	-	-	-	30%	10%	Mar-22
Hungary	79	0 (0)	-	-	89	0 (0)	-	-	100%	100%	Oct-22
Iceland	-	-	-	-	-	-	-	-	-	-	No report
Ireland	481	4 (1)	-	-	1957	3 (0)	-	-	100%	70%	Oct-22
Israel	-	-	-	-	-	-	-	-	-	-	No report
Italy	84	16 (19)	B3	100%	7	0 (0)	-	-	100%	100%	Oct-22
Kazakhstan	15	4 (27)	-	-	18	0 (0)	-	-	100%	60%	Oct-22
Kyrgyzstan	0	-	-	-	0	-	-	-	10%	10%	Sep-22
Latvia	121	4 (3)	-	-	95	4 (4)	-	-	100%	100%	Oct-22
Lithuania	16	0 (0)	-	-	16	0 (0)	-	-	100%	100%	Oct-22
Luxembourg	21	0 (0)	-	-	0	-	-	-	90%	90%	Oct-22
Malta	36	0 (0)	-	-	513	0 (0)	-	-	80%	20%	Aug-22
Monaco											No lab
Montenegro	-	-	-	-	-	-	-	-	-	-	No report
Netherlands	13	3 (23)	B3	100%	9	0 (0)	-	-	70%	70%	Oct-22
North Macedonia	-	-	-	-	-	-	-	-	-	-	No report
Norway	1	1 (100)	B3	100%	0	-	-	-	100%	80%	Oct-22
Poland	-	-	-	-	-	-	-	-	-	-	No report
Portugal	10	0 (0)	-	-	3	0 (0)	-	-	90%	90%	Oct-22
Republic of Moldova	52	0 (0)	-	-	53	0 (0)	-	-	100%	100%	Oct-22
Romania	81	6 (7)	-	-	78	0 (0)	-	-	60%	20%	Jun-22
Russian Federation	2748	92 (3)	B3,D8	96%	2737	26 (1)	-	-	100%	100%	Oct-22
San Marino											No lab
Serbia	16	0 (0)	-	-	16	0 (0)	-	-	60%	60%	Oct-22
Slovakia	20	0 (0)	-	-	4	0 (0)	-	-	100%	100%	Oct-22
Slovenia	28	1 (4)	-	-	7	0 (0)	-	-	100%	100%	Oct-22
Spain	-	-	-	-	-	-	-	-	-	-	No report
Sweden	907	14 (2)	B3	100%	1800	21 (1)	-	-	100%	90%	Oct-22
Switzerland	66	6 (9)	-	-	8	8 (100)	-	-	100%	100%	Oct-22
Tajikistan	-	-	-	-	-	-	-	-	-	-	No report
Türkiye	654	52 (8)	-	-	638	43 (7)	-	-	50%	30%	Aug-22
Turkmenistan	112	0 (0)	-	-	112	0 (0)	-	-	100%	100%	Oct-22
Ukraine	15	0 (0)	-	-	15	3 (20)	-	-	100%	80%	Oct-22
United Kingdom	1827	70 (4)	B3	100%	1090	0 (0)	-	-	100%	100%	Oct-22
Uzbekistan	66	5 (8)	-	-	66	1 (2)	-	-	50%	40%	May-22
Region	9239	305 (3)	-	99%	13835	129 (1)	-	-	62%	53%	

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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