

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 2017 — November 2018 (data as of 16 January 2019)

Country	Total Population in 2018 ¹	Incidence Rate Dec 17 - Nov 18 (per 1 million population) ²	Total measles cases	Month and year of rash onset												Month & year of last report
				Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	
Albania	2 919 422	493.93	1442	3	63	164	345	359	245	134	45	13	17	20	34	Nov-18
Andorra	68 915	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Armenia	3 034 998	5.93	18	0	0	2	14	1	0	0	0	0	1	0	0	Nov-18
Austria	8 613 647	8.94	77	1	7	8	14	16	11	6	1	3	6	0	4	Nov-18
Azerbaijan	10 070 075	2.38	24	0	0	0	0	0	0	0	0	0	0	0	24	Nov-18
Belarus	9 429 102	24.92	235	0	1	17	41	53	58	13	23	12	7	5	5	Nov-18
Belgium	11 513 025	9.21	106	1	1	6	9	11	24	22	3	11	14	4	-	Oct-18
Bosnia and Herzegovina	3 782 297	23.80	90	0	5	7	14	13	34	13	4	0	0	0	0	Nov-18
Bulgaria	6 992 150	1.86	13	0	1	0	2	1	1	1	7	0	0	0	0	Nov-18
Croatia	4 194 538	5.48	23	0	0	0	0	1	2	16	3	1	0	0	0	Nov-18
Cyprus	1 198 198	12.52	15	1	5	7	2	0	0	0	0	0	0	0	0	Nov-18
Czech Republic	10 563 111	18.27	193	4	16	22	38	39	24	10	3	6	6	6	19	Nov-18
Denmark	5 732 713	1.05	6	0	0	0	3	0	0	0	0	1	2	0	0	Nov-18
Estonia	1 302 401	7.68	10	0	0	0	4	6	0	0	0	0	0	0	0	Nov-18
Finland	5 556 439	1.44	8	0	0	0	0	1	3	0	0	3	0	0	1	Nov-18
France	65 205 671	44.80	2921	65	237	515	760	620	250	190	81	29	38	76	60	Nov-18
Georgia	3 973 681	448.20	1781	60	125	159	158	221	253	211	163	60	47	105	219	Nov-18
Germany	80 560 850	6.72	541	19	29	34	61	100	89	102	42	25	25	8	7	Nov-18
Greece	10 871 762	233.45	2538	346	466	454	501	371	249	112	29	8	2	0	0	Nov-18
Hungary	9 754 429	1.33	13	0	2	5	6	0	0	0	0	0	0	0	0	Nov-18
Iceland	336 938	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Ireland	4 790 845	19.20	92	3	9	19	19	4	1	1	7	16	6	4	3	Nov-18
Israel	8 455 489	261.01	2207	0	0	0	9	34	35	74	76	140	336	934	569	Nov-18
Italy	59 788 104	42.62	2548	113	213	297	374	467	429	277	126	75	50	76	51	Nov-18
Kazakhstan	18 256 484	6.57	120	0	0	0	0	1	0	-	1	-	4	8	106	Nov-18
Kyrgyzstan	6 213 441	121.19	753	2	30	15	33	69	80	99	60	29	74	112	150	Nov-18
Latvia	1 935 780	11.88	23	5	8	2	0	2	3	0	1	1	0	1	0	Nov-18
Lithuania	2 817 402	3.55	10	0	0	0	0	0	0	1	0	1	0	0	8	Nov-18
Luxembourg	591 126	6.77	4	0	0	0	0	1	0	0	0	2	0	0	1	Nov-18
Malta	421 387	11.87	5	0	0	0	0	0	0	0	5	0	0	0	0	Nov-18
Monaco	38 166	0.00	0	-	0	0	0	0	-	0	0	0	0	0	0	Nov-18
Montenegro	626 240	324.16	203	0	2	14	54	60	47	16	10	0	0	0	-	Oct-18
Netherlands	17 084 531	1.29	22	0	0	2	2	0	3	10	1	4	0	0	0	Nov-18
Norway	5 387 342	2.23	12	0	0	4	2	1	2	0	1	2	0	0	0	Nov-18
Poland	38 522 728	3.43	132	6	21	8	6	19	11	13	17	11	4	16	0	Nov-18
Portugal	10 229 432	15.35	157	0	0	4	108	13	0	3	1	3	2	2	21	Nov-18
Republic of Moldova	4 044 534	83.08	336	0	2	1	0	2	23	10	1	245	20	11	21	Nov-18
Romania	19 105 089	70.45	1346	329	101	102	105	111	104	111	100	92	63	54	74	Nov-18
Russian Federation	143 261 490	16.06	2301	187	296	296	321	253	239	282	154	135	68	42	28	Nov-18
San Marino	32 241	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Serbia	8 742 764	624.63	5461	392	901	1230	1522	684	447	170	49	16	15	23	12	Nov-18
Slovakia	5 434 237	97.16	528	8	1	0	2	3	23	87	262	63	26	22	31	Nov-18
Slovenia	2 073 018	4.82	10	1	2	0	0	0	3	3	0	0	0	1	0	Nov-18
Spain	46 116 884	4.97	229	11	6	14	52	50	41	25	15	6	4	4	1	Nov-18
Sweden	9 987 062	5.21	52	16	12	3	1	4	3	2	5	1	3	1	1	Nov-18
Switzerland	8 523 590	5.75	49	0	7	6	6	3	3	2	1	4	4	12	1	Nov-18
Tajikistan	9 046 723	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
The former Yugoslav Republic of Macedonia	2 085 315	23.98	50	1	5	5	1	0	1	3	24	7	2	1	0	Nov-18
Turkey	81 086 257	6.63	538	5	2	5	51	77	161	65	85	63	1	0	23	Nov-18
Turkmenistan	5 565 070	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Ukraine	44 170 002	1006.02	44436	1400	3030	3099	2618	3812	5629	4882	3877	2517	1848	3808	7916	Nov-18
United Kingdom	65 912 569	14.93	984	46	55	81	149	202	155	100	82	55	16	21	22	Nov-18
Uzbekistan	31 064 765	0.55	17	0	0	0	0	0	2	7	7	0	1	0	0	Nov-18
Region	917 084 469	79.25	72679	3025	5661	6607	7407	7685	8688	7073	5372	3660	2712	5377	9412	

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy. Member States submitting aggregate data: Belgium, Bosnia and Herzegovina, Kazakhstan, Serbia, the former Yugoslav Republic of Macedonia, Ukraine.

¹ Data source: "World Population Prospects: The 2015 Revision", New York, United Nations.

² Incidence rates not achieving the target (<1 per million population) are highlighted in red.

For tables 1-4, the reporting of these data by year and month are based on cases with disease onset date during the above 12-month period and corresponding month. Where the disease onset date was unavailable, cases with the date of notification reported during these respective time periods were included as date of onset. These reports produced by national or partner agencies may differ if other dates (e.g. date of case reporting) were used.

Table 2: Reported rubella cases for the period December 2017 — November 2018 (data as of 16 January 2019)

Country	Total Population in 2018 ¹	Incidence Rate Dec 17 - Nov 18 (per 1 million population) ²	Total rubella cases	Month and year of rash onset												Month & year of last report
				Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	
Albania	2 919 422	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Andorra	68 915	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Armenia	3 034 998	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Austria	8 613 647	1.39	12	7	5	0	0	0	0	0	0	0	0	0	0	Nov-18
Azerbaijan	10 070 075	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Belarus	9 429 102	0.11	1	0	1	0	0	0	0	0	0	0	0	0	0	Nov-18
Belgium ³	11 513 025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 782 297	0.79	3	0	1	0	0	0	1	-	0	0	0	0	1	Nov-18
Bulgaria	6 992 150	0.14	1	0	0	0	0	1	0	0	0	0	0	0	0	Nov-18
Croatia	4 194 538	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Cyprus	1 198 198	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Czech Republic	10 563 111	0.19	2	0	0	1	0	0	0	0	1	0	0	0	0	Nov-18
Denmark ³	5 732 713	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 302 401	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Finland	5 556 439	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
France ³	65 205 671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 973 681	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Germany	80 560 850	0.70	56	2	7	3	5	5	3	8	6	6	6	4	1	Nov-18
Greece	10 871 762	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Hungary	9 754 429	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Iceland	336 938	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Ireland	4 790 845	0.83	4	0	0	1	0	1	0	0	1	0	0	1	0	Nov-18
Israel	8 455 489	0.24	2	0	0	0	1	0	0	0	0	0	0	1	0	Nov-18
Italy	59 788 104	0.40	24	2	1	2	2	4	2	2	3	2	2	0	2	Nov-18
Kazakhstan	18 256 484	0.05	1	0	0	0	0	0	0	-	0	-	0	1	0	Nov-18
Kyrgyzstan	6 213 441	1.45	9	1	4	0	3	0	0	1	0	0	0	0	0	Nov-18
Latvia	1 935 780	1.55	3	0	1	1	0	1	0	0	0	0	0	-	0	Nov-18
Lithuania	2 817 402	0.35	1	0	0	0	0	0	1	0	0	0	0	0	0	Nov-18
Luxembourg	591 126	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Malta	421 387	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Monaco	38 166	0.00	0	-	-	-	-	-	-	-	-	-	-	-	0	Nov-18
Montenegro	626 240	0.00	0	0	0	0	0	0	0	0	0	0	0	0	-	Oct-18
Netherlands	17 084 531	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Norway	5 387 342	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Poland	38 522 728	11.92	459	33	36	43	42	47	58	50	39	36	22	27	26	Nov-18
Portugal	10 229 432	0.49	5	0	0	1	0	0	0	2	0	1	1	0	0	Nov-18
Republic of Moldova	4 044 534	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Romania	19 105 089	0.37	7	0	1	0	1	1	0	1	1	1	1	0	-	Oct-18
Russian Federation	143 261 490	0.03	5	1	0	0	0	0	3	1	0	0	0	0	0	Nov-18
San Marino	32 241	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Serbia	8 742 764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No Report
Slovakia	5 434 237	0.18	1	0	0	0	0	0	0	0	0	0	0	1	0	Nov-18
Slovenia	2 073 018	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Spain	46 116 884	0.07	3	0	0	0	0	1	1	1	0	0	0	0	0	Nov-18
Sweden	9 987 062	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Switzerland	8 523 590	0.23	2	0	0	1	0	0	1	0	0	0	0	0	0	Nov-18
Tajikistan	9 046 723	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
The former Yugoslav Republic of Macedonia	2 085 315	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Turkey	81 086 257	0.20	16	-	1	-	4	3	1	1	-	1	1	-	4	Nov-18
Turkmenistan	5 565 070	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Ukraine	44 170 002	4.94	218	-	24	42	17	32	20	12	11	28	15	9	8	Nov-18
United Kingdom	65 912 569	0.03	2	0	0	1	0	0	0	0	0	0	1	0	0	Nov-18
Uzbekistan	31 064 765	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	Nov-18
Region	917 084 469	0.91	837	46	82	96	75	96	91	79	62	75	49	44	42	

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy. Member States submitting aggregate data: Bosnia and Herzegovina, Kazakhstan, Poland, the former Yugoslav Republic of Macedonia, Ukraine.

¹ Data source: "World Population Prospects: The 2015 Revision", New York, United Nations.

² Incidence rates not achieving the target (<1 per million population) are highlighted in red.

³ Country does not have a comprehensive rubella surveillance system.

Table 3: Measles classification, reporting and surveillance performance, January — November 2018 (data as of 16 January 2019)

Country	Total Population in 2018 ¹	2017 (as of 16 January 2019)			2018														
		Incidence Rate (per 1 million population) ²	Total measles cases ³	Total measles death	Annualized Incidence Rate (per 1 million population) ²	Total measles cases ³	Classification			Discarded Measles	Imported cases	Measles Death	Report			Surveillance Indicators ⁷			
							Lab confirmed	Epi-Link	Clinically compatible ⁴				Completeness ⁵	Timeliness ⁵	Month & year of last report	Laboratory investigation rate ⁸	Rate of discarded cases ⁶	Origin of infection ⁵	Timeliness of investigation ⁵
Albania ⁸	2 919 422	0.69	12	0	447.75	1439	1340	0	99	1252	13	3	100%	45%	Nov-18	97%	42.9	100.0%	79%
Andorra	68 915	0.00	0	-	0.00	0	0	0	0	0	0	-	100%	100%	Nov-18	-	0.0	-	-
Armenia	3 034 998	0.00	1	0	5.13	18	18	0	0	225	1	0	100%	82%	Nov-18	100%	7.4	83.3%	100%
Austria	8 613 647	9.64	94	0	5.85	76	69	6	1	24	21	0	100%	100%	Nov-18	79%	0.3	100.0%	15%
Azerbaijan	10 070 075	0.00	0	0	2.18	24	13	0	11	127	0	0	100%	100%	Nov-18	93%	1.3	54.2%	100%
Belarus ⁸	9 429 102	0.00	1	0	22.75	235	231	0	4	415	1	0	100%	55%	Nov-18	100%	4.4	0.4%	0%
Belgium	11 513 025	31.88	367	0	8.36	105	86	18	1	-	0	0	91%	91%	Oct-18	-	-	-	-
Bosnia and Herzegovina	3 782 297	7.14	27	0	21.81	90	45	0	45	-	0	0	100%	55%	Nov-18	-	-	-	-
Bulgaria	6 992 150	23.45	165	1	0.92	13	13	0	0	-	6	0	100%	100%	Nov-18	100%	-	76.9%	100%
Croatia	4 194 538	1.67	7	0	3.06	23	23	0	0	4	9	0	100%	91%	Nov-18	100%	0.1	100.0%	0%
Cyprus	1 198 198	0.83	4	0	6.89	14	14	0	0	-	5	0	100%	100%	Nov-18	100%	-	100.0%	0%
Czech Republic	10 563 111	13.63	149	0	13.36	189	187	1	1	-	35	0	100%	82%	Nov-18	90%	-	88.9%	0%
Denmark	5 732 713	0.35	4	0	0.64	6	6	0	0	-	2	0	100%	100%	Nov-18	100%	-	100.0%	0%
Estonia	1 302 401	0.00	1	0	4.93	10	10	0	0	56	3	0	100%	100%	Nov-18	100%	4.3	100.0%	100%
Finland	5 556 439	0.72	10	0	0.82	8	8	0	0	-	3	0	100%	100%	Nov-18	100%	-	37.5%	0%
France	65 205 671	7.50	518	1	38.81	2856	1392	575	889	-	95	3	100%	100%	Nov-18	80%	-	83.3%	0%
Georgia	3 973 681	23.66	96	0	397.01	1721	1323	88	310	470	0	2	100%	64%	Nov-18	85%	11.8	99.3%	96%
Germany	80 560 850	10.80	936	1	5.28	522	439	54	29	-	58	0	100%	100%	Nov-18	92%	-	81.2%	0%
Greece	10 871 762	97.87	1067	2	184.57	2192	1233	492	467	70	3	2	100%	100%	Nov-18	74%	0.6	9.9%	0%
Hungary	9 754 429	3.18	36	0	0.66	13	13	0	0	21	6	0	100%	100%	Nov-18	100%	0.2	92.3%	91%
Iceland	336 938	2.97	3	0	0.00	0	0	0	0	-	0	-	100%	100%	Nov-18	-	-	-	-
Ireland	4 790 845	5.22	25	0	16.26	89	73	2	14	-	4	0	100%	100%	Nov-18	95%	-	71.9%	85%
Israel	8 455 489	1.77	16	0	238.94	2207	824	1162	221	-	3	0	100%	73%	Nov-18	79%	-	0.1%	88%
Italy	59 788 104	89.47	5393	5	36.46	2435	1874	164	397	203	57	7	100%	100%	Nov-18	85%	0.3	88.3%	0%
Kazakhstan	18 256 484	0.11	2	0	6.03	120	111	8	1	-	0	0	82%	82%	Nov-18	-	-	-	-
Kyrgyzstan ⁸	6 213 441	0.48	5	0	109.91	751	491	207	53	724	6	2	100%	73%	Nov-18	70%	11.7	100.0%	86%
Latvia	1 935 780	2.07	5	0	5.68	18	18	0	0	-	6	0	91%	91%	Nov-18	100%	-	33.3%	100%
Lithuania	2 817 402	0.00	2	0	0.00	10	10	0	0	-	10	0	100%	91%	Nov-18	100%	-	100.0%	70%
Luxembourg	591 126	1.69	4	0	0.00	4	4	0	0	-	4	0	100%	100%	Nov-18	100%	-	100.0%	100%
Malta	421 387	0.00	0	-	2.18	5	5	0	0	-	4	0	100%	100%	Nov-18	100%	-	100.0%	0%
Monaco	38 166	0.00	0	-	0.00	0	0	0	0	0	0	-	91%	73%	Nov-18	-	0.0	-	-
Montenegro	626 240	0.00	0	0	275.19	203	176	4	23	69	15	0	91%	27%	Oct-18	93%	11.0	51.7%	95%
Netherlands	17 084 531	0.59	16	0	0.75	22	20	2	0	-	8	0	100%	100%	Nov-18	0%	-	100.0%	0%
Norway	5 387 342	0.00	1	0	1.02	12	10	2	0	-	6	0	100%	100%	Nov-18	100%	-	83.3%	100%
Poland	38 522 728	1.38	63	0	2.26	126	99	7	20	-	31	0	100%	100%	Nov-18	83%	-	100.0%	100%
Portugal	10 229 432	3.13	34	1	13.08	157	148	0	9	376	11	0	100%	91%	Nov-18	97%	3.7	91.7%	75%
Republic of Moldova	4 044 534	0.00	0	0	72.98	336	193	143	0	54	14	0	100%	91%	Nov-18	100%	1.3	100.0%	100%
Romania	19 105 089	473.49	9072	24	47.93	1017	820	175	22	-	18	22	100%	100%	Nov-18	98%	-	100.0%	100%
Russian Federation	143 261 490	6.09	897	0	12.98	2114	1999	87	28	2996	85	0	100%	100%	Nov-18	99%	2.1	100.0%	39%
San Marino	32 241	0.00	0	-	0.00	0	0	0	0	0	0	-	100%	82%	Nov-18	-	0.0	-	-
Serbia	8 742 764	80.29	702	1	531.48	5069	2650	0	2419	-	0	14	100%	100%	Nov-18	-	-	-	-
Slovakia	5 434 237	1.29	10	0	85.69	520	331	189	0	12	12	0	100%	100%	Nov-18	2%	0.2	98.7%	100%
Slovenia	2 073 018	2.89	8	0	2.65	9	9	0	0	-	3	0	100%	100%	Nov-18	89%	-	44.4%	100%
Spain	46 116 884	2.91	157	0	3.70	218	217	1	0	116	32	0	100%	100%	Nov-18	97%	0.3	18.3%	97%
Sweden	9 987 062	3.50	46	0	1.65	36	35	1	0	-	18	0	100%	100%	Nov-18	97%	-	97.2%	0%
Switzerland	8 523 590	11.50	105	1	3.01	49	41	8	0	127	21	0	100%	100%	Nov-18	100%	1.5	95.9%	27%
Tajikistan	9 046 723	71.96	651	0	0.00	0	0	0	0	54	0	0	100%	82%	Nov-18	100%	0.6	-	87%
The former Yugoslav Republic of Macedonia	2 085 315	9.59	20	0	21.54	49	38	10	1	-	0	0	100%	64%	Nov-18	-	-	-	-
Turkey ⁸	81 086 257	0.81	69	0	5.39	533	531	1	1	2991	56	0	100%	64%	Nov-18	100%	3.7	19.3%	97%
Turkmenistan	5 565 070	0.00	0	-	0.00	0	0	0	0	45	0	0	100%	18%	Nov-18	100%	0.8	-	100%
Ukraine	44 170 002	108.26	4782	5	893.13	43036	6739	0	36297	-	0	15	100%	82%	Nov-18	-	-	-	-
United Kingdom	65 912 569	2.32	280	0	11.26	938	938	0	0	-	128	0	100%	91%	Nov-18	100%	-	97.9%	0%
Uzbekistan	31 064 765	0.00	0	0	0.50	17	17	0	0	104	0	0	100%	91%	Nov-18	100%	0.3	100.0%	100%
Region	917 084 469	27.71	25863	42	68.81	69654	24884	3407	41363	10535	813	70	99.0%	87.3%		89.9%	2.2	21.6%	53.0%

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy. Member States submitting aggregate data: Belgium, Bosnia and Herzegovina, Kazakhstan, Serbia, the former Yugoslav Republic of Macedonia, Ukraine.

¹ Data source: "World Population Prospects: The 2015 Revision", New York, United Nations.

² Incidence rates not meeting the target (<1 per million population) are highlighted in red. Imported measles cases are excluded from the numerator while calculating the incidence rate.

³ All confirmed measles cases regardless of origin. ⁴ Unless specified as laboratory confirmed or epi-linked, cases are classified as clinically compatible.

⁵ Target (>=80%) not achieving are highlighted in red. ⁶ 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.

⁷ Surveillance indicators can not be calculated for Member States submitting aggregate data. ⁸ Country classifies discard cases as "discarded, not measles, not rubella".

Table 4: Rubella classification, reporting and surveillance performance, January — November 2018 (data as of 16 January 2019)

Country	Total Population in 2018 ¹	2017 (as of 16 January 2019)		2018													
		Incidence Rate (per 1 million population) ²	Total rubella cases ³	Annualized Incidence Rate (per 1 million population) ²	Total rubella cases ³	Classification			Discarded Rubella	Imported cases	Report			Surveillance Indicators ⁷			
						Lab confirmed	Epi-Link	Clinically compatible ⁴			Completeness ⁵	Timeliness ⁵	Month & year of last report	Laboratory investigation rate ⁵	Rate of discarded cases ⁶	Origin of infection ⁵	Timeliness of investigation ⁵
Albania ⁸	2 919 422	0.00	0	0.00	0	0	0	0	1252	0	100%	45%	Nov-18	100%	42.9	-	0%
Andorra	68 915	0.00	0	0.00	0	0	0	0	0	0	100%	100%	Nov-18	-	0.0	-	-
Armenia	3 034 998	0.00	0	0.00	0	0	0	0	0	0	100%	82%	Nov-18	-	0.0	-	-
Austria	8 613 647	4.53	42	0.53	5	5	0	0	-	0	100%	100%	Nov-18	100%	-	100%	0%
Azerbaijan	10 070 075	0.00	0	0.00	0	0	0	0	65	0	100%	100%	Nov-18	100%	0.6	-	100%
Belarus ⁹	9 429 102	0.11	1	0.00	1	1	0	0	415	1	100%	55%	Nov-18	99%	4.4	100%	0%
Belgium ⁹	11 513 025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	3 782 297	0.26	1	0.73	3	0	0	3	-	0	91%	45%	Nov-18	-	-	-	-
Bulgaria	6 992 150	0.00	0	0.13	1	0	0	1	-	0	100%	100%	Nov-18	0%	-	0%	100%
Croatia	4 194 538	0.00	0	0.00	0	0	0	0	-	0	100%	82%	Nov-18	-	-	-	-
Cyprus	1 198 198	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Nov-18	-	-	-	-
Czech Republic	10 563 111	0.09	2	0.17	2	1	1	0	-	0	100%	55%	Nov-18	100%	-	100%	0%
Denmark ⁹	5 732 713	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Estonia	1 302 401	0.00	0	0.00	0	0	0	0	15	0	100%	100%	Nov-18	100%	1.2	-	100%
Finland	5 556 439	0.18	1	0.00	0	0	0	0	-	0	100%	100%	Nov-18	-	-	-	-
France ⁹	65 205 671	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	3 973 681	1.26	5	0.00	0	0	0	0	71	0	100%	36%	Nov-18	73%	1.8	-	96%
Germany	80 560 850	0.91	74	0.59	54	12	0	42	-	2	100%	100%	Nov-18	22%	-	57%	0%
Greece	10 871 762	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Nov-18	-	-	-	-
Hungary	9 754 429	0.00	0	0.00	0	0	0	0	7	0	100%	73%	Nov-18	100%	0.1	-	100%
Iceland	336 938	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Nov-18	-	-	-	-
Ireland	4 790 845	0.00	0	0.77	4	0	0	4	-	0	100%	100%	Nov-18	25%	-	50%	75%
Israel	8 455 489	0.00	0	0.22	2	1	0	1	-	0	100%	64%	Nov-18	100%	-	0%	100%
Italy	59 788 104	1.12	68	0.32	22	6	3	13	18	1	100%	100%	Nov-18	86%	0.0	64%	0%
Kazakhstan	18 256 484	0.00	0	0.05	1	1	0	0	-	0	82%	73%	Nov-18	-	-	-	-
Kyrgyzstan ⁸	6 213 441	0.64	4	1.18	8	8	0	0	724	0	100%	73%	Nov-18	54%	11.7	100%	1%
Latvia	1 935 780	0.00	0	0.95	3	3	0	0	-	1	91%	82%	Nov-18	100%	-	100%	33%
Lithuania	2 817 402	0.00	0	0.33	1	1	0	0	-	0	100%	91%	Nov-18	100%	-	100%	0%
Luxembourg	591 126	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Nov-18	-	-	-	-
Malta	421 387	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Nov-18	-	-	-	-
Monaco	38 166	-	-	0.00	0	0	0	0	0	0	9%	9%	Nov-18	-	0.0	-	-
Montenegro	626 240	0.00	0	0.00	0	0	0	0	0	0	91%	27%	Oct-18	-	0.0	-	-
Netherlands	17 084 531	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Nov-18	-	-	-	-
Norway	5 387 342	0.00	0	0.00	0	0	0	0	-	0	100%	91%	Nov-18	-	-	-	-
Poland	38 522 728	12.36	476	10.14	426	3	2	421	-	0	100%	100%	Nov-18	-	-	-	-
Portugal	10 229 432	0.39	4	0.27	5	3	0	2	10	2	100%	91%	Nov-18	80%	0.1	100%	53%
Republic of Moldova	4 044 534	0.00	0	0.00	0	0	0	0	15	0	100%	82%	Nov-18	100%	0.4	-	100%
Romania	19 105 089	0.47	9	0.34	7	4	0	3	-	0	91%	73%	Oct-18	86%	-	100%	100%
Russian Federation	143 261 490	0.04	7	0.02	4	3	1	0	0	1	100%	100%	Nov-18	100%	0.0	100%	100%
San Marino	32 241	0.00	0	0.00	0	0	0	0	0	0	100%	82%	Nov-18	-	0.0	-	-
Serbia	8 742 764	-	-	-	-	-	-	-	-	-	-	-	No Report	-	-	-	-
Slovakia	5 434 237	0.00	0	0.17	1	0	0	1	-	0	100%	100%	Nov-18	0%	-	100%	100%
Slovenia	2 073 018	0.00	0	0.00	0	0	0	0	-	0	100%	100%	Nov-18	-	-	-	-
Spain	46 116 884	0.00	1	0.06	3	2	0	1	6	0	100%	100%	Nov-18	89%	0.0	33%	89%
Sweden	9 987 062	0.00	0	0.00	0	0	0	0	1	0	100%	100%	Nov-18	100%	0.0	-	100%
Switzerland	8 523 590	0.12	1	0.22	2	2	0	0	30	0	100%	100%	Nov-18	91%	0.4	50%	13%
Tajikistan	9 046 723	0.11	1	0.00	0	0	0	0	25	0	100%	91%	Nov-18	100%	0.3	-	100%
The former Yugoslav Republic of Macedonia	2 085 315	0.00	0	0.00	0	0	0	0	-	0	100%	64%	Nov-18	-	-	-	-
Turkey ⁸	81 086 257	0.02	2	0.18	16	16	0	0	2991	0	100%	64%	Nov-18	95%	3.7	19%	0.5%
Turkmenistan	5 565 070	0.00	0	0.00	0	0	0	0	46	0	100%	18%	Nov-18	100%	0.8	-	100%
Ukraine	44 170 002	-	-	4.52	218	12	0	206	-	0	100%	73%	Nov-18	-	-	-	-
United Kingdom	65 912 569	0.00	3	0.01	2	2	0	0	-	1	100%	82%	Nov-18	100%	-	100%	0%
Uzbekistan	31 064 765	0.03	1	0.00	0	0	0	0	5	0	100%	91%	Nov-18	100%	0.0	-	100%
Region	917 084 469	0.75	703	0.78	791	86	7	698	5696	9	91.6%	77.2%		90.3%	1.2	11.5%	5.3%

Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy. Member States submitting aggregate data: Bosnia and Herzegovina, Kazakhstan, Poland, the former Yugoslav Republic of Macedonia and Ukraine.

¹ Data source: World Population Prospects: The 2015 Revision, New York, United Nations.

² Incidence rates not meeting the target (<1 per million population) are highlighted in red. Imported rubella cases are excluded from the numerator while calculating the incidence rate.

³ All confirmed rubella cases regardless of origin.

⁴ Unless specified as laboratory confirmed or epi-linked, cases are classified as clinically compatible.

⁵ Target (>=80%) not achieving are highlighted in red.

⁶ 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.

⁷ Surveillance indicators can not be calculated for Member States submitting aggregate data. ⁸ Country classifies discard cases as "discarded, not measles, not rubella". ⁹ Country does not have a comprehensive rubella surveillance system.

Table 5: Measles and rubella laboratory test results, January — November 2018 (data as of 16 January 2019)

Country	Measles				Rubella				Report		
	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	2581	1337 (52.0)	B3	0%	0	0	-	-	100%	73%	Nov-18
Andorra											No Lab
Armenia	247	18 (7.0)	D8	0%	247	0 (0.0)	-	-	100%	55%	Nov-18
Austria	1533	64 (4.0)	B3,D8	100%	4865	9 (0.0)	1E,2B	0%	100%	100%	Nov-18
Azerbaijan	184	0 (0.0)	-	-	259	0 (0.0)	-	-	91%	91%	Oct-18
Belarus	763	299 (39.0)	B3,D8	100%	449	4 (1.0)	2B	100%	100%	91%	Nov-18
Belgium	291	105 (36.0)	B3,D8	69%	109	8 (7.0)	-	-	91%	36%	Oct-18
Bosnia and Herzegovina	84	30 (36.0)	B3	67%	84	4 (5.0)	-	-	91%	91%	Nov-18
Bulgaria	206	20 (10.0)	B3	100%	106	0 (0.0)	-	-	100%	91%	Nov-18
Croatia	75	-	B3,D8	86%	25	0 (0.0)	-	-	55%	9%	Jun-18
Cyprus	203	18 (9.0)	-	-	296	0 (0.0)	-	-	82%	36%	Sep-18
Czech Republic	515	180 (35.0)	D8	50%	21	5 (24.0)	-	-	100%	100%	Nov-18
Denmark	898	36 (4.0)	B3,D8	100%	39	2 (5.0)	-	-	100%	100%	Nov-18
Estonia	165	17 (10.0)	-	-	362	3 (1.0)	-	-	91%	91%	Nov-18
Finland	115	18 (16.0)	D8	43%	115	5 (4.0)	-	-	100%	100%	Nov-18
France	1658	568 (34.0)	B3,D8	5%	607	0 (0.0)	2B	0%	100%	45%	Nov-18
Georgia	-	-	-	-	-	-	-	-	-	-	No Report
Germany	-	-	-	-	-	-	-	-	-	-	No Report
Greece	524	444 (85.0)	B3	7%	0	0	-	-	55%	9%	Jun-18
Hungary	255	27 (11.0)	B3,D8	100%	162	0 (0.0)	-	-	100%	100%	Nov-18
Iceland	-	-	-	-	-	-	-	-	-	-	No Report
Ireland	1971	167 (8.0)	B3,D8	100%	2224	0 (0.0)	-	-	100%	100%	Nov-18
Israel	3028	1209 (40.0)	D8	93%	3184	355 (11.0)	2B	100%	100%	82%	Nov-18
Italy	2363	1284 (54.0)	B3,D8	40%	1139	63 (6.0)	-	-	100%	91%	Nov-18
Kazakhstan	185	112 (61.0)	B3,D8	76%	88	1 (1.0)	-	-	100%	100%	Nov-18
Kyrgyzstan	832	449 (54.0)	B3	11%	778	7 (1.0)	-	-	100%	100%	Nov-18
Latvia	905	75 (8.0)	B3,D8	67%	723	11 (2.0)	-	-	91%	55%	Oct-18
Lithuania	68	17 (25.0)	-	-	50	2 (4.0)	-	-	100%	91%	Nov-18
Luxembourg	66	1 (2.0)	B3,D8	100%	0	0	-	-	100%	100%	Nov-18
Malta	127	18 (14.0)	B3,D8	25%	566	0 (0.0)	-	-	82%	64%	Sep-18
Monaco											No Lab
Montenegro	-	-	-	-	-	-	-	-			No Report
Netherlands	63	20 (32.0)	B3,D8	100%	58	0 (0.0)	-	-	100%	100%	Nov-18
Norway	-	-	B3,D8	100%	-	-	-	-	-	-	No Report
Poland	-	-	D8	44%	-	-	-	-	-	-	No Report
Portugal	1118	157 (14.0)	B3,D8	22%	4	2 (50.0)	-	-	100%	82%	Nov-18
Republic of Moldova	294	196 (67.0)	B3,D8	0%	268	0 (0.0)	-	-	100%	100%	Nov-18
Romania	4716	3904 (83.0)	B3,D8	71%	719	10 (1.0)	-	-	100%	73%	Nov-18
Russian Federation	7390	2783 (38.0)	B3,D8	61%	6251	63 (1.0)	-	-	100%	100%	Nov-18
San Marino											No Lab
Serbia	4863	2684 (55.0)	B3,D8	0%	2222	14 (1.0)	-	-	100%	100%	Nov-18
Slovakia	229	75 (33.0)	D8	0%	10	0 (0.0)	-	-	100%	100%	Nov-18
Slovenia	270	17 (6.0)	B3	100%	111	0 (0.0)	-	-	100%	100%	Nov-18
Spain	-	-	B3,D8,D4	34%	-	-	-	-	-	-	No Report
Sweden	2672	139 (5.0)	B3,D8	100%	1811	7 (0.0)	-	-	100%	64%	Nov-18
Switzerland	187	70 (37.0)	B3,D8	91%	7	7 (100.0)	-	-	100%	100%	Nov-18
Tajikistan	78	0 (0.0)	-	-	75	0 (0.0)	-	-	82%	82%	Nov-18
The former Yugoslav Republic of Macedonia	17	7 (41.0)	-	-	3	0 (0.0)	-	-	27%	0%	May-18
Turkey	5934	729 (12.0)	B3,D8	13%	4983	99 (2.0)	-	-	100%	45%	Nov-18
Turkmenistan	111	0 (0.0)	-	-	111	0 (0.0)	-	-	100%	100%	Nov-18
Ukraine	1073	533 (50.0)	B3,D8	3%	309	10 (3.0)	-	-	100%	82%	Nov-18
United Kingdom	5401	1066 (20.0)	B3,D8	96%	1333	7 (1.0)	-	-	100%	100%	Nov-18
Uzbekistan	136	17 (13.0)	D8	25%	136	0 (0.0)	-	-	100%	91%	Nov-18
Region	54394	18927 (35%)	-	57%	34909	698 (2%)	-	29%	76.2%	64.5%	

¹ Data source: monthly aggregated or specimen-based data reported to WHO/Europe.

² MeaNS: <http://www.who-measles.org/>. Timeliness of sequence reporting relates to the time between specimen collection and reporting to MeaNS.

³ RubeNS: <http://www.who-rubella.org/>. Timeliness of sequence reporting relates to the time between specimen collection and reporting to RubeNS.

⁴ Target (>=80%) not achieving are highlighted in red.

NB: Specimen based data are not population based, and should not be interpreted as indicators for epidemiological surveillance. Laboratories may have received more than 1 clinical sample or may have conducted more than 1 test for a given case reported in Table 1.

Figure 1: Ten countries with the highest numbers of measles cases in the WHO European Region in the previous 12 months December 2017 to November 2018 (data as of 16 January 2019)*

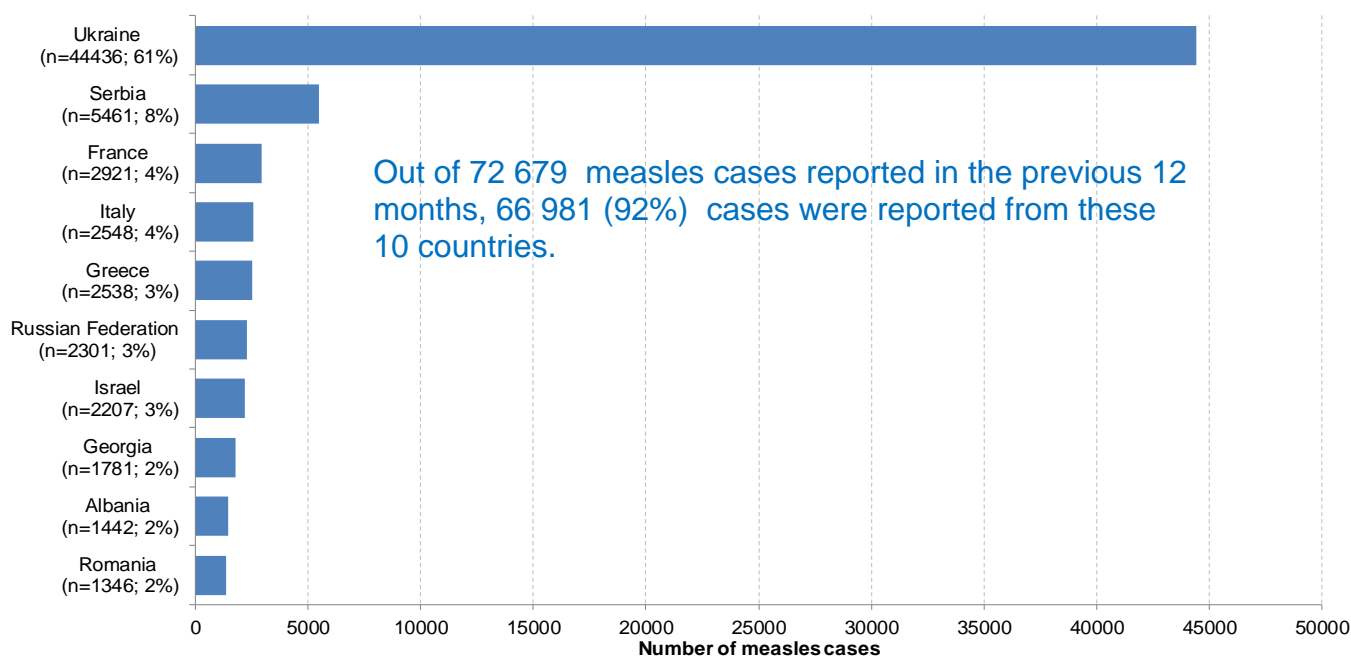


Figure 2: Measles cases by month of onset, Ukraine, January 2016 to November 2018 (data as of 16 January 2018)* (n=47 818)

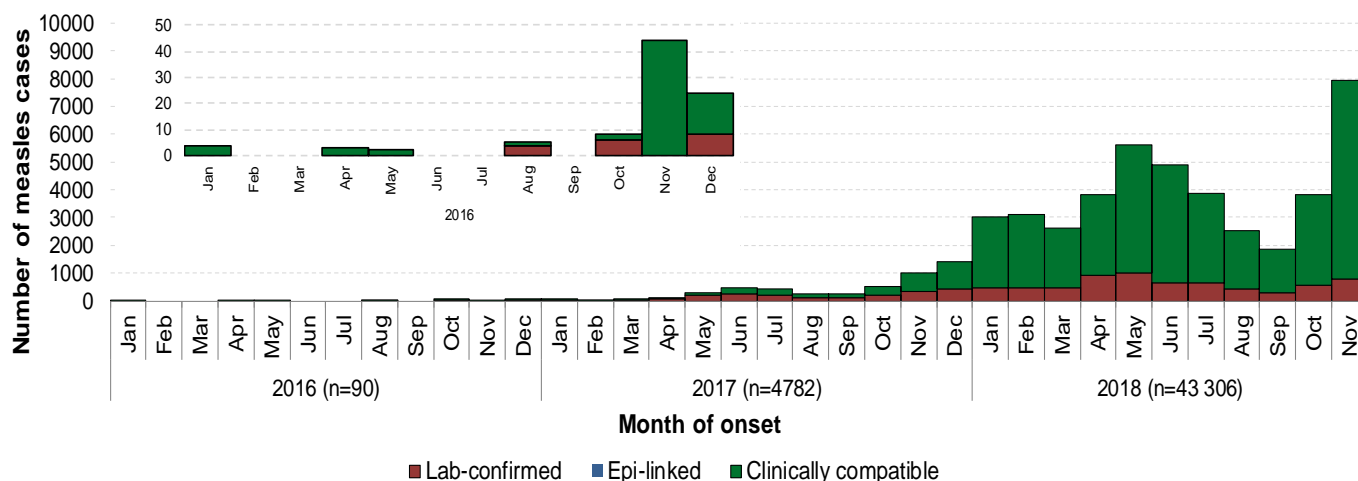
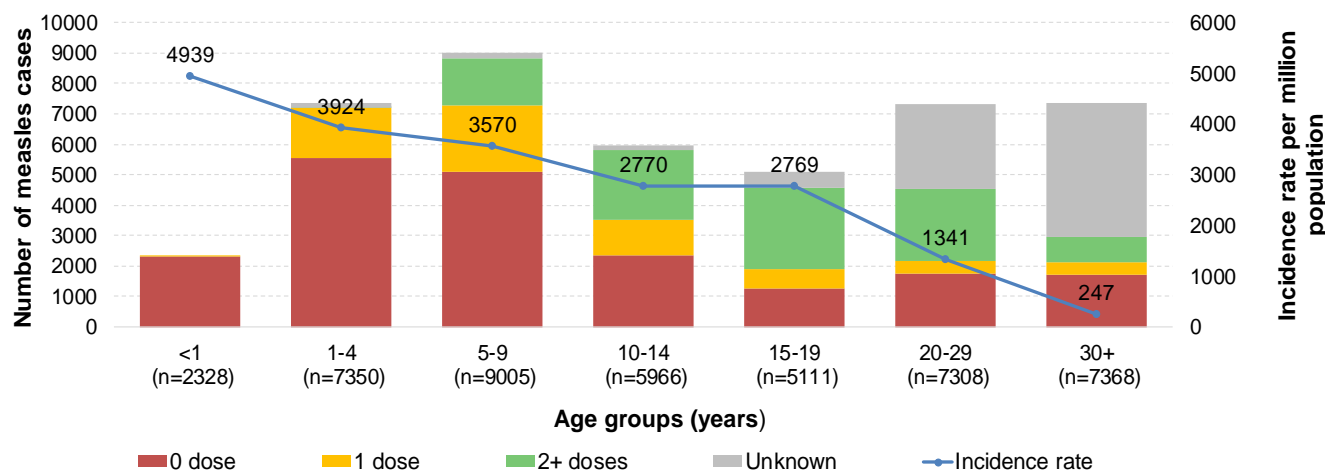


Figure 3: Measles cases and incidence rate by age group and vaccination status, Ukraine, December 2017 to November 2018 (data as of 16 January 2019)* (n=44 436)



*Data source: Monthly aggregated and case-based data reported by Member States to WHO/Europe or via ECDC/TESSy.

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 euccd@who.int

Web site: <http://www.euro.who.int/vaccine> © World Health Organization, 2019.