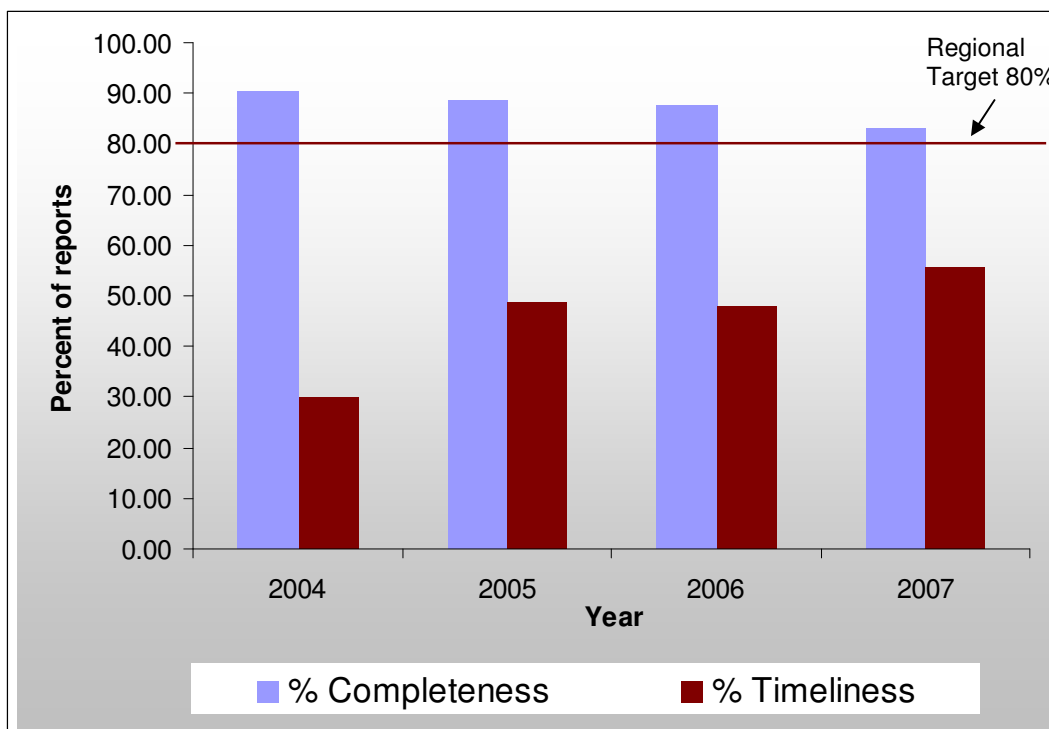




Completeness and Timeliness of Measles Surveillance Data Reporting to WHO EURO, 2004-2007(Sep)



At the regional level, **completeness** of reporting is defined as >80% of monthly reports being received by WHO; **timeliness** is defined as >80% of monthly reports being received by WHO before the 25th of the following month.

WHO Europe has been monitoring the timeliness and completeness of monthly measles surveillance reporting since 2004. Thus far, through the first nine months of 2007,

- Regional target of more than 80% of monthly measles reports received continue to be met, however there is no trend towards improvement.
- %Timeliness remains below 80% but there has been noticeable improvement in 4 years.

The European region has set a goal to eliminate measles and rubella from the region by 2010. Surveillance is a critical tool for monitoring progress towards this goal and directing resources where necessary to reach it. WHO Europe will continue to work with member states to improve the timeliness and completeness of national and regional surveillance.

Table 1: Classification of suspected measles and rubella cases, Jan-Sept, 2007

Country	Measles								Rubella							
	Total suspected	Classification					% Timeli-ness	% complete-ness	Total suspected	Classification					% Timeli-ness	% complete-ness
		Lab confirmed	Epi-Link	Clinical	Discarded	Pending				Lab confirmed	Epi-Link	Clinical	Discarded	Pending		
Albania*	33	21	0	0	12	0	100%	100%	-	-	-	-	-	-	0%	0%
Andorra	0	0	0	0	0	0	55%	100%	0	0	0	0	0	0	55%	100%
Armenia	6	0	0	0	0	6	0%	44%	-	-	-	-	-	-	0%	0%
Austria	3	2	0	0	0	1	88%	100%	-	-	-	-	-	-	0%	0%
Azerbaijan	0	0	0	0	0	0	33%	88%	3	1	0	0	0	2	22%	88%
Belarus	0	0	0	0	0	0	44%	44%	0	0	0	0	0	0	11%	11%
Belgium	6	1	0	4	0	1	77%	100%	-	-	-	-	-	-	0%	0%
Bosnia and Herzegovina	No Report	-	-	-	-	-	0%	0%	-	-	-	-	-	-	0%	0%
Bulgaria	1	0	0	0	0	1	100%	100%	-	-	-	-	-	-	0%	0%
Croatia	6	0	0	0	0	6	100%	100%	41	25	1	2	13	0	33%	33%
Cyprus	0	0	0	0	0	0	77%	100%	0	0	0	0	0	0	77%	77%
Czech Republic*	2	2	0	0	0	0	33%	100%	-	-	-	-	-	-	0%	0%
Denmark*	3	3	0	0	1	0	100%	100%	0	0	0	0	0	0	11%	11%
Estonia	1	1	0	0	0	0	100%	100%	0	0	0	0	0	0	22%	22%
Finland	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	0%	0%
France	31	16	0	13	0	2	66%	100%	-	-	-	-	-	-	0%	0%
Georgia	32	2	0	0	0	30	22%	88%	165	0	0	0	0	165	11%	88%
Germany	446	206	173	67	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Greece	1	0	0	1	0	0	11%	66%	-	-	-	-	-	-	0%	0%
Hungary	2	0	0	0	1	1	100%	100%	4	0	0	0	0	4	77%	77%
Iceland	0	0	0	0	0	0	55%	88%	-	-	-	-	-	-	0%	0%
Ireland	56	9	2	44	0	1	100%	100%	16	3	2	4	0	7	100%	100%
Israel	69	16	0	1	0	52	11%	100%	-	-	-	-	-	-	0%	0%
Italy	62	0	0	0	0	62	0%	77%	-	-	-	-	-	-	0%	0%
Kazakhstan	5	3	1	1	0	0	11%	22%	2	0	2	0	0	0	0%	11%
Kyrgyzstan	0	0	0	0	0	0	11%	22%	-	-	-	-	-	-	0%	0%
Latvia	0	0	0	0	0	0	77%	100%	7	1	0	4	0	2	66%	100%
Lithuania	0	0	0	0	0	0	88%	100%	13	0	0	0	0	13	55%	88%
Luxembourg	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Malta	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Monaco	No Report	-	-	-	-	-	0%	0%	-	-	-	-	-	-	0%	0%
Montenegro	0	0	0	0	0	0	22%	88%	0	0	0	0	0	0	44%	77%
Netherlands*	1	1	0	0	1	0	22%	66%	-	-	-	-	-	-	0%	0%
Norway*	20	17	3	0	0	0	77%	100%	-	-	-	-	-	-	0%	0%
Poland	38	28	1	6	0	3	88%	100%	0	0	0	0	0	0	11%	11%
Portugal	0	0	0	0	0	0	55%	100%	-	-	-	-	-	-	0%	0%
Republic of Moldova	7	7	0	0	0	0	11%	100%	-	-	-	-	-	-	0%	0%
Romania	334	330	0	4	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Russian Federation	165	155	0	8	0	2	100%	100%	-	-	-	-	-	-	0%	0%
San Marino	No Report	-	-	-	-	-	0%	0%	-	-	-	-	-	-	0%	0%
Serbia	174	147	0	0	0	27	22%	66%	-	-	-	-	-	-	0%	0%
Slovakia	4	0	0	0	0	4	77%	100%	3	0	0	0	3	0	55%	100%
Slovenia	0	0	0	0	0	0	100%	100%	-	-	-	-	-	-	0%	0%
Spain	272	243	22	7	0	0	88%	100%	-	-	-	-	-	-	0%	0%
Sweden	1	0	0	1	0	0	88%	100%	-	-	-	-	-	-	0%	0%
Switzerland	830	352	94	366	0	18	22%	100%	-	-	-	-	-	-	0%	0%
Tajikistan	0	0	0	0	0	0	11%	77%	179	98	0	0	0	81	11%	77%
The former Yugoslav Republic of Macedonia	No Report	-	-	-	-	-	0%	0%	-	-	-	-	-	-	0%	0%
Turkey	3	3	0	0	0	0	11%	66%	576	0	0	0	0	576	11%	77%
Turkmenistan	59	34	0	25	0	0	0%	88%	-	-	-	-	-	-	0%	0%
Ukraine	972	230	0	0	0	742	88%	88%	-	-	-	-	-	-	0%	0%
United Kingdom	638	629	9	0	0	0	55%	100%	-	-	-	-	-	-	0%	0%
Uzbekistan	859	212	0	3	0	644	44%	88%	0	0	0	0	0	0	44%	77%
TOTAL	5142	2670	305	551	15	1601			1009	128	5	10	16	850		

*Imported lab confirmed measles cases: Albania = 21(import related); Czech Republic=1; Denmark=2; Netherlands=1; Norway=2
 Data source: Monthly aggregate and case-based data reported by Member States to WHO/Europe and/or EUVAC.NET.

Table 2: Measles and rubella laboratory test results, Jan-Sept 2007

Country	Specimen						
	Collected	Tested for measles	Positive for measles (%)	Negative for measles	Tested for rubella	Positive for rubella (%)	Negative for rubella
Albania	34	34	22 (65)	12	0	0	0
Andorra	No Lab						
Armenia	126	53	1 (2)	52	126	83 (66)	41
Austria	4909	690	6 (1)	684	4219	41 (1)	4178
Azerbaijan	32	13	0 (0)	13	19	1 (5)	18
Belarus	99	96	9 (9)	87	99	16 (16)	83
Belgium	54	58	18 (31)	39	38	2 (5)	36
Bosnia and Herzegovina	No Report						
Bulgaria	57	57	3 (5)	54	57	2 (4)	55
Croatia	32	0	0	0	32	21 (66)	11
Cyprus	0	0	0	0	0	0	0
Czech Republic	54	26	6 (23)	18	53	6 (11)	47
Denmark	No Report						
Estonia	433	154	3 (2)	150	436	8 (2)	427
Finland	471	93	0 (0)	93	378	0 (0)	378
France	No Report						
Georgia	13	6	2 (33)	4	7	0 (0)	6
Germany	No Report						
Greece	380	62	1 (2)	61	318	69 (22)	249
Hungary	542	27	1 (4)	25	40	1 (3)	39
Iceland	No Report						
Israel	693	52	21 (40)	31	297	47 (16)	250
Italy	83	0	0	0	0	0	0
Kazakhstan	162	137	12 (9)	123	154	68 (44)	78
Kyrgyzstan	257	257	78 (30)	169	257	5 (2)	243
Latvia	129	31	0 (0)	30	99	0 (0)	99
Lithuania	10	12	0 (0)	10	10	0 (0)	10
Luxembourg	155	104	0 (0)	103	52	6 (12)	39
Malta	1027	9	2 (22)	6	990	41 (4)	931
Montenegro	No Lab						
Netherlands	44	49	16 (33)	33	19	0 (0)	19
Norway	56	37	6 (16)	31	21	2 (10)	19
Poland	83	82	15 (18)	62	82	22 (27)	59
Portugal	31	2	0 (0)	2	0	0	0
Republic of Moldova	54	54	10 (19)	44	54	2 (4)	52
Romania	851	766	346 (45)	416	483	5 (1)	476
Russian Federation	2611	2506	187 (7)	2282	1997	416 (21)	1527
San Marino	No Lab						
Serbia	151	59	45 (76)	12	91	1 (1)	90
Slovakia	34	13	1 (8)	12	24	0 (0)	24
Slovenia	240	51	2 (4)	46	193	2 (1)	190
Spain	729	897	357 (40)	348	648	1 (0)	591
Sweden	No Report						
Switzerland	No Lab						
Tajikistan	276	93	0 (0)	93	275	171 (62)	103
The former Yugoslav Republic of Macedonia	No Report						
Turkey	922	922	2 (0)	915	921	251 (27)	604
Turkmenistan	197	197	38 (19)	133	197	7 (4)	165
Ukraine	847	800	228 (29)	487	588	103 (18)	476
United Kingdom	3732	2730	644 (24)	1986	803	35 (4)	740
Uzbekistan	287	270	212 (79)	51	87	17 (20)	69
Total	20897	11499	2294 (20)	8717	14164	1452 (10)	10453

Source: Monthly lab data provided by laboratories of the Regional Measles and Rubella Lab Network

Website: <http://www.euro.who.int/vaccine>; CISID: <http://data.euro.who.int/cisid>; email: measles@euro.who.int