Measles elimination status

2016 ND

2017 eliminated ✓

Source:European Regional Verification Commission for Measles and Rubella Elimination (RVC)
meeting report: www.euro.who.int/7thrvc
ND = Data not available

Measles and rubella surveillance

National case-based surveillance for measles, rubella and CRS

Lab confirmation for diagnosis of measles, rubella and CRS

Source: WHO/UNICEF Joint Reporting Form on Immunization, 2017

Measles and rubella immunization schedule, 2017

	Vaccine	Schedule	Year of introduction	
MCV1	MMR	15 months	MCV2	2001
MCV2	MMR	10 years	RCV	1995
Measles vaccination in school			No	

Source: Immunization schedule, WHO, Data and Statistics, Immunization Monitoring and Surveillance
(http://www.who.int/immunization/monitoring_surveillance/data/en/)
 MMR = measles-mumps-rubella vaccine; MCV1 = first dose measles-containing vaccine;
MCV2 = second dose measles-containing vaccine; RCV = rubella-containing vaccine

Definition used for an outbreak

ND

Source: Measles and rubella elimination Annual Status Update report, 2017
ND = Data not available

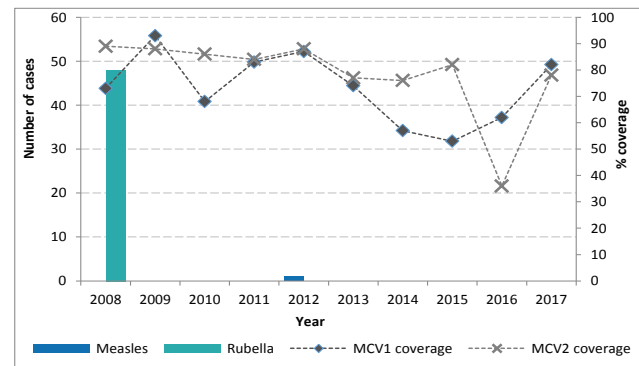## Rubella elimination status

2016 ND

2017 eliminated ✓

Source:European Regional Verification Commission for Measles and Rubella Elimination (RVC)
meeting report: www.euro.who.int/7thrvc
ND = Data not available

Demographic information, 2017

Total population	33 401
< 1 year old	277
< 5 years old	1385

Source: World Population Prospects: The 2017 Revision, New York, United Nations

Measles and rubella cases and immunization coverage, 2008–2017

Source: Disease incidence and immunization coverage (WUENIC), WHO, Data and Statistics,
Immunization Monitoring and Surveillance
(http://www.who.int/immunization/monitoring_surveillance/data/en/)
MCV1 = first dose of measles-containing vaccine
MCV2= second dose of measles-containing vaccine

Information on CRS, 2017

ND

Source: Measles and rubella elimination Annual Status Update report, 2017
CRS = congenital rubella syndrome
ND = Data not available

Measles and rubella elimination country profile
San Marino

World Health Organization
REGIONAL OFFICE FOR **Europe**

Measles incidence, epidemiologic and virologic characteristics, 2013-2017

	Suspected measles cases	Confirmed measles cases				Discarded as non-measles	Measles incidence	Genotypes detected
		Laboratory	Epi- linked	Clinically	Total			
2013	ND	ND	ND	ND	ND	ND	ND	ND
2014	ND	ND	ND	ND	ND	ND	ND	ND
2015	ND	ND	ND	ND	ND	ND	ND	ND
2016	ND	ND	ND	ND	ND	ND	ND	ND
2017	0	0	0	0	0	0	0	NA

Source: Measles and rubella elimination Annual Status Update report, 2013-2017
Incidence calculated per 1 million population
ND = Data not available; NA= Not applicable

Measles surveillance and laboratory performance indicators, 2013-2017

	Discarded non-measles rate	% 1st sub-national unit with ≥ 2 discarded cases	% cases with adequate laboratory investigation	% origin of infection known	# specimen tested for measles	% positive for measles	Rate of viral detection	% WHO and proficient labs
2013	ND	ND	ND	ND	ND	ND	ND	ND
2014	ND	ND	ND	ND	ND	ND	ND	ND
2015	ND	ND	ND	ND	ND	ND	ND	ND
2016	ND	ND	ND	ND	ND	ND	ND	ND
2017	ND	ND	ND	ND	ND	0%	ND	ND

Source: ASU 2013-2017
ND = Data not available; NA= Not applicable
A proficient laboratory is WHO accredited and/or has an established quality assurance programme with oversight by a WHO accredited laboratory

Rubella incidence, epidemiologic and virologic characteristics, 2013-2017

	Suspected rubella cases	Confirmed rubella cases				Discarded as non-rubella	Rubella incidence	Genotypes detected
		Laboratory	Epi- linked	Clinically	Total			
2013	ND	ND	ND	ND	ND	ND	ND	ND
2014	ND	ND	ND	ND	ND	ND	ND	ND
2015	ND	ND	ND	ND	ND	ND	ND	ND
2016	ND	ND	ND	ND	ND	ND	ND	ND
2017	0	0	0	0	0	0	0	NA

Source: Measles and rubella elimination Annual Status Update report, 2013-2017
Incidence calculated per 1 million population
ND = Data not available; NA= Not applicable

Rubella surveillance and laboratory performance indicators, 2013-2017

	Discarded non-rubella rate	% 1st sub-national unit with ≥ 2 discarded cases	% cases with adequate laboratory investigtion	% origin of infection known	# specimen tested for rubella	% positive for rubella	Rate of viral detection	% WHO and proficient labs
2013	ND	ND	ND	ND	ND	ND	ND	ND
2014	ND	ND	ND	ND	ND	ND	ND	ND
2015	ND	ND	ND	ND	ND	ND	ND	ND
2016	ND	ND	ND	ND	ND	ND	ND	ND
2017	ND	ND	ND	ND	ND	0%	ND	ND

Source: ASU 2013-2017
ND = Data not available; NA= Not applicable
A proficient laboratory is WHO accredited and/or has an established quality assurance programme with oversight by a WHO accredited laboratory

RVC comments, based on 2017 reporting

The Regional Verification Commission for Measles and Rubella Elimination (RVC) congratulates San Marino on providing an ASU for the first time and greatly appreciates the efforts taken. Based on received data and considering population size, the RVC concluded that endemic transmission of both measles and rubella has been interrupted in San Marino for a period of 3 years, and verified that measles and rubella have been eliminated. The RVC commends the national health authorities and public health system on this achievement.

Source: Regional Verification Commission for Measles and Rubella Elimination (RVC) meeting report (www.euro.who.int/7thrvc)

Surveillance performance indicators and targets

a. Rate of discarded cases: at least 2 discarded measles or rubella cases per 100 000 population

b. % cases with adequate laboratory investigation: ≥ 80%

c. % origin of infection known: ≥ 80%

d. Rate of viral detection: ≥ 80%

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