Measles and rubella elimination country profile
Armenia

World Health Organization
REGIONAL OFFICE FOR Europe

Measles elimination status

2016 eliminated

2017 eliminated

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

Rubella elimination status

2016 eliminated

2017 eliminated

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

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

Demographic information, 2017

Total population	2 930 450
< 1 year old	36 960
< 5 years old	198 239

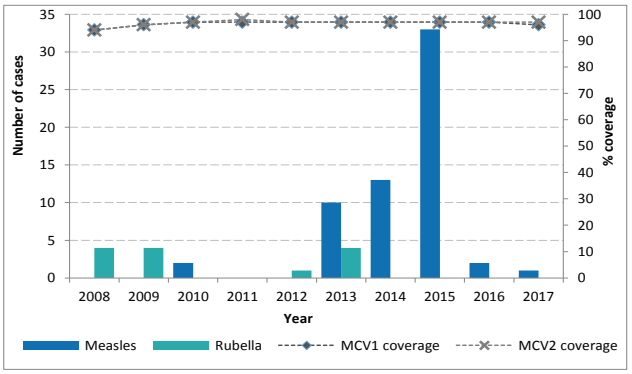
Source: World Population Prospects: The 2017 Revision, New York, United Nations

Measles and rubella immunization schedule, 2017

	Vaccine	Schedule	Year of introduction	
MCV1	MMR	1 year	MCV2	1986
MCV2	MMR	6 years	RCV	2002
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

Measles and rubella cases and immunization coverage, 2008–2017



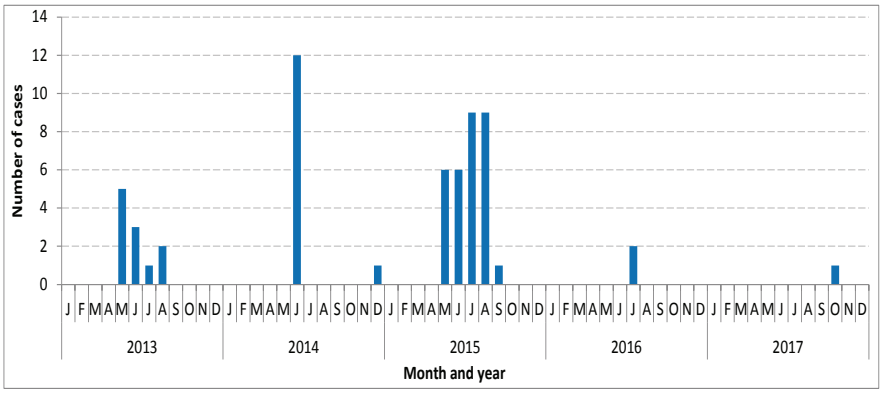
Source: Disease incidence and immunization coverage (WUENIC), WHO, Data and Statistics, Immunization Monitoring and Surveillance (http://www.who.int/immunization/monitoring_surveillance/data/en/)
MCV1 = first dose of measles-containing vaccine
MCV2= second dose of measles-containing vaccine

Definition used for an outbreak

Measles or rubella cases observed at the same time and linked by epidemiological characteristics

Source: Measles and rubella elimination Annual Status Update report, 2016

Confirmed measles cases by month of onset, 2013-2017



Source: CISID 2017

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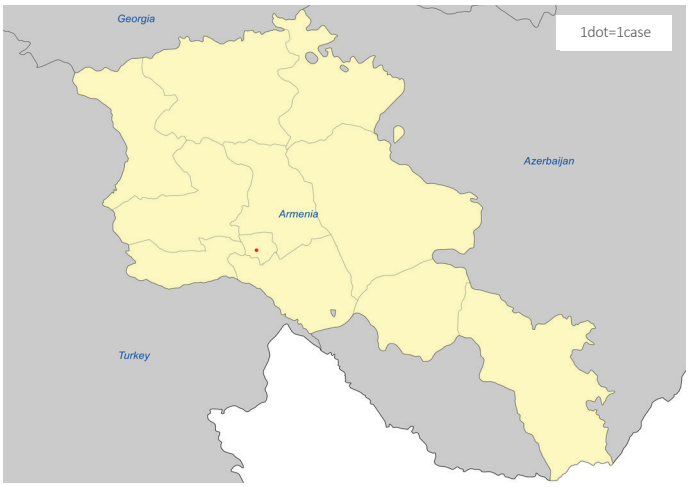
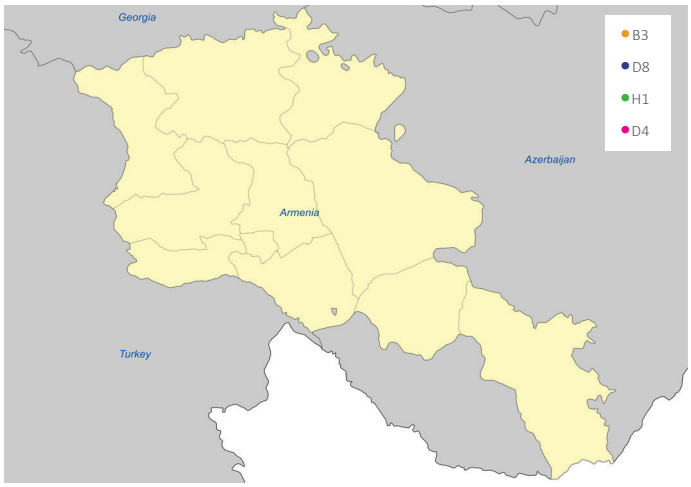
Measles cases by first subnational level, 2017



Source: Measles and rubella elimination Annual Status Update report, 2017

Measles genotypes by first subnational level, 2017



Source: MeaNS 2017
(Note: no subnational genotype information available)

Note: The dots in the maps are placed randomly within the administrative regions.
Map disclaimer: The boundaries and names shown and the designations used on the maps do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Information on CRS, 2017

No cases reported

Source: Measles and rubella elimination Annual Status Update report, 2017
CRS = congenital rubella syndrome

Sources of infection, 2017

	Measles	Rubella
Imported	1	0
Import-related	0	0
Unknown/ Not reported	0	0
Endemic	0	0

Source: Measles and rubella elimination Annual Status Update report, 2017

RVC comments, based on 2017 reporting

The Regional Verification Commission for Measles and Rubella Elimination (RVC) concluded that endemic transmission of both measles and rubella remained interrupted in Armenia in 2017 and confirmed that measles and rubella elimination has been sustained. Greater care should be taken in the calculation and presentation of surveillance sensitivity data. The RVC strongly recommends genotyping of detected viruses and inclusion of data in future ASUs.

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

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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	87	7	4	0	11	76	1.6	D4
2014	61	12	1	0	13	48	3.8	ND
2015	176	30	3	0	33	143	11.3	D8
2016	127	1	1	0	2	125	0.7	ND
2017	93	1	0	0	1	92	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	4.4	64%	97%	100%	156	4.5%	ND	ND
2014	2.5	64%	100%	85%	91	13.2%	ND	ND
2015	6.6	91%	100%	94%	231	13%	ND	100%
2016	4.2	82%	100%	0%	127	0.8%	ND	100%
2017	0.0%	72.7%	121.5%	100%	113	0%	ND	100%

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	69	4	0	0	4	67	1.2	ND
2014	30	0	0	0	0	30	0	NA
2015	55	0	0	0	0	55	0	NA
2016	0	0	0	0	0	0	0	NA
2017	20	0	0	0	0	20	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	4.4	64%	97%	0%	156	2.6%	ND	ND
2014	2.8	64%	100%	NA	91	0%	ND	ND
2015	7.7	91%	100%	NA	231	0%	ND	100%
2016	4.3	82%	100%	NA	127	0%	ND	100%
2017	0	72.7%	565%	NA	113	0%	NA	100%

Source: ASU 2013-2017
ND = Data not available; NA= Not applicable
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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%