Measles and rubella elimination country profile
Slovakia

World Health Organization
REGIONAL OFFICE FOR **Europe**

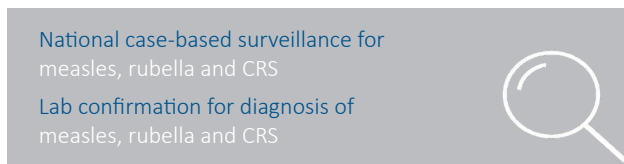## Measles elimination status

2016 eliminated
2017 eliminated ✓

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

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	14 months	MCV2	1977
MCV2	MMR	10 years	RCV	1985
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

An epidemic is the occurrence of at least three cases of disease that are epidemiologically linked

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

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

Demographic information, 2017

Total population	5 447 662
< 1 year old	54 438
< 5 years old	280 142

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

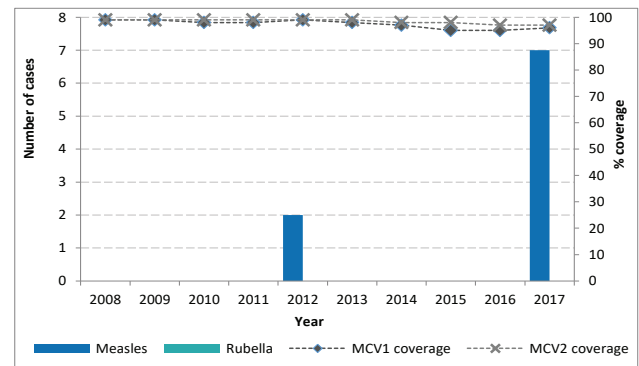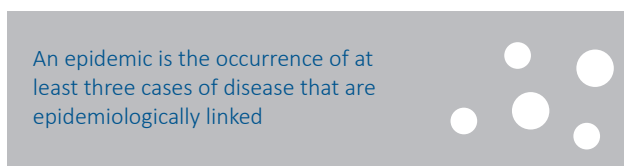## Measles and rubella cases and immunization coverage, 2008–2017

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
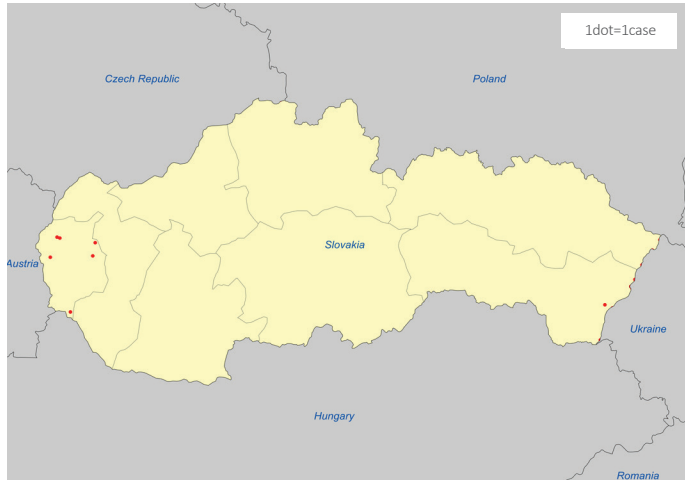MCV2= second dose of measles-containing vaccine

Confirmed measles cases by month of onset, 2013-2017
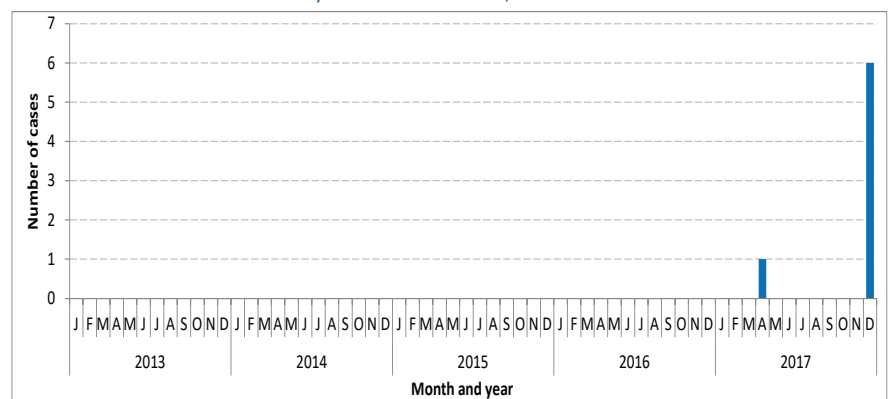
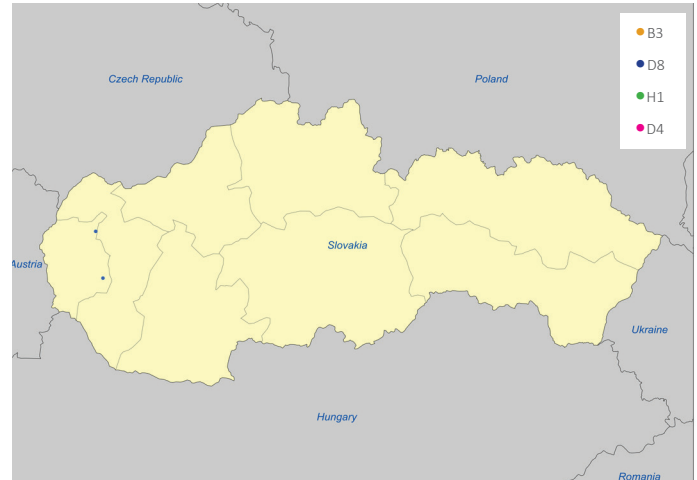Source: CISID 2017 and communication with the country

Measles cases by first subnational level, 2017

1dot=1case

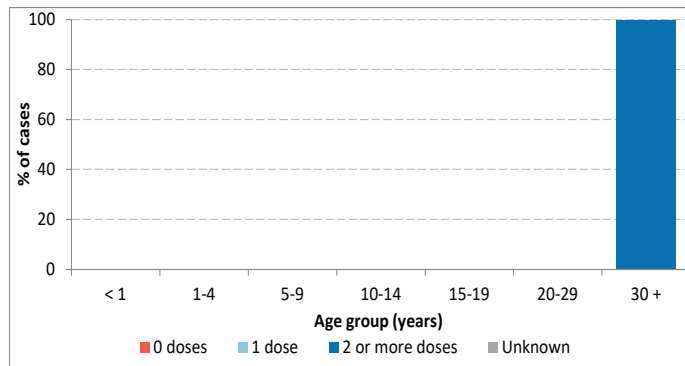Source: Measles and rubella elimination Annual Status Update report, 2017

Measles genotypes by first subnational level, 2017

- B3
- D8
- H1
- D4

Source: MeaNS 2017

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.

Measles cases by age group and vaccination status, 2017

Source: Measles and rubella elimination Annual Status Update report, 2017
Note: Excludes imported cases

Sources of infection, 2017

	Measles	Rubella
Imported	4	0
Import-related	3	0
Unknown/ Not reported	0	0
Endemic	0	0

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

Information on CRS, 2017

No cases reported
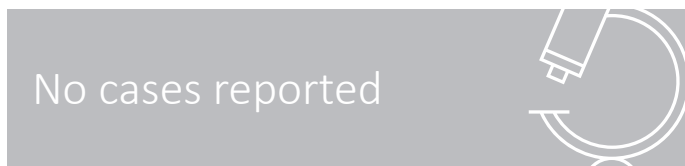
Source: Measles and rubella elimination Annual Status Update report, 2017
CRS = congenital rubella syndrome

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Slovakia

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	0	0	0	0	0	0	0	NA
2014	0	0	0	0	0	0	0	NA
2015	1	0	0	0	0	1	0	NA
2016	2	0	0	0	0	2	0	NA
2017	12	7	0	0	7	5	0.9	B3,D8

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	NA	NA	NA	NA	ND	0%	ND	ND
2014	NA	NA	NA	NA	61	0%	ND	ND
2015	100%	NA	NA	NA	1	0%	ND	100%
2016	100%	ND	NA	NA	2	0%	ND	100%
2017	0	0%	100%	100%	12	58.3%	100%	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	0	0	0	0	0	0	0	NA
2014	0	0	0	0	0	0	0	NA
2015	0	0	0	0	0	0	0	NA
2016	0	0	0	0	0	0	0	NA
2017	1	0	0	0	0	1	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 investigation	% origin of infection known	# specimen tested for rubella	% positive for rubella	Rate of viral detection	% WHO and proficient labs
2013	NA	NA	NA	NA	ND	0%	ND	ND
2014	NA	NA	NA	NA	144	0%	ND	ND
2015	NA	NA	NA	NA	0	0%	ND	100%
2016	NA	NA	NA	NA	0	0%	ND	100%
2017	0	0%	ND	ND	0	NA	ND	NA

Source: ASU 2013-2017
ND = Data not available; NA= Not applicable
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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 Slovakia in 2017 and confirmed that measles and rubella elimination has been sustained. Surveillance performance and sensitivity need to be strengthened and better documented.

Source:European 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%