Measles and rubella elimination country profile Belgium



Measles elimination status

2016 endemic

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

Measles and rubella surveillance

National case-based surveillance for Lab confirmation for diagnosis of

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

Measles and rubella immunization schedule, 2017

	Vaccine	Schedule	Year of int	roduction
MCV1	MMR	12 months	MCV2	1994
MCV2	MMR	11-12 years* RCV		1985
N	Yes			

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; MCVI = first dose measles-containing vaccine;

MCV2 = second dose measles-containing vaccine; RCV = rubella-containing vaccin

* only in Wallonia

Definition used for an outbreak

2 or more measles or rubella cases which are temporally related and epidemiologically or virologically linked or both



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

Rubella elimination status



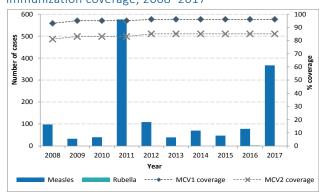
Source: European Regional Verification Commission for Measles and Rubella Elimination (RVC) meeting report: www.euro.who.int/7thrvc

Demographic information, 2017

Total population	11 429 336		
< 1 year old	127 289		
< 5 years old	646 514		

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

Measles and rubella cases and immunization coverage, 2008-2017



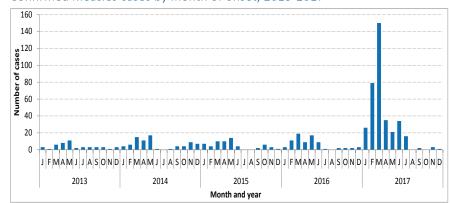
Source: Disease incidence and immunization coverage (WUENIC), WHO, Data and Statistics,

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

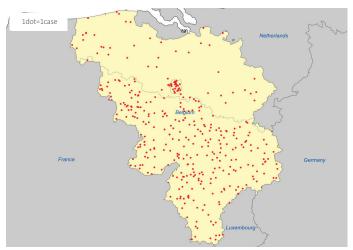


Source: CISID 2017

Measles and rubella elimination country profile Belgium



Measles cases by first subnational level, 2017



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

Measles genotypes by first subnational level, 2017

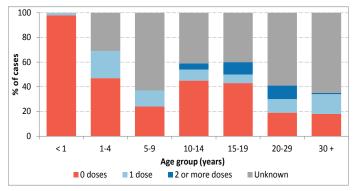


Source: MeaNS 2017

Note: 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

Information on CRS, 2017



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

Sources of infection, 2017

	Measles	Rubella
Imported	9	0
Import-related	5	0
Unknown/ Not reported	207	0
Endemic	146	0

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

Supplementary immunization activities

Year	Target age	Vaccine used	% Coverage
2017	All asylum seekers	MMR	ND
2017	Adults in Flanders	MMR	100%

Source: Supplementary immunization activities, WHO, Data and Statistics, Immunization Monitoring and Surveillance (http://www.who.int/immunization/monitoring_surveillance/data/en/) MMR = measles-mumps-rubella vaccine

ND = Data not available

Measles and rubella elimination country profile Belgium



Measles incidence, epidemiologic and virologic characteristics, 2013-2017

	Suspected		Confirmed m	neasles cases	Discarded as	Measles	Genotypes	
	cases	Laboratory	Epi- linked	Clinically	Total	non- measles	incidence	detected
2013	118	28	6	9	43	75	3.5	D8
2014	224	58	5	12	75	149	6.1	B3,D8
2015	145	35	8	3	46	99	3.6	B3,D4,D8
2016	247	62	9	7	78	169	6.3	B3, D8
2017	826	243	84	40	367	459	31.6	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

Rubella incidence, epidemiologic and virologic characteristics, 2013-2017

	Suspected rubella		Confirmed r	ubella cases	Discarded as	Rubella	Genotypes	
	cases	Laboratory	Epi- linked	Clinically	Total	non- rubella	incidence	detected
2013	0	0	0	0	0	0	NA	NA
2014	0	0	0	0	0	0	NA	NA
2015	0	0	0	0	0	0	NA	NA
2016	0	0	0	0	0	0	NA	NA
2017	28	0	0	0	0	28	NA	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	0.7	0%	76.7%	36%	101	27.7%	17%	ND
2014	1.3	0%	96%	79%	207	28.0%	50%	ND
2015	0.8	0%	93.4%	89.1%	128	27.3%	85.7%	100%
2016	1.4	0%	93.3%	80.8%	222	27.9%	84.6%	100%
2017	4.1	66.7%	84.9%	43.6%	593	61.9%	75.0%	84.6%

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 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	NA	NA	NA	NA	ND	ND	NA	ND
2014	NA	NA	NA	NA	67	0%	NA	ND
2015	NA	NA	NA	NA	45	0%	NA	ND
2016	NA	NA	NA	NA	55	1.8%	NA	ND
2017	NA	NA	NA	NA	28	3.6%	NA	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) commends efforts being made by health authorities and the national verification committee for measles and rubella elimination (NVC), and continues to call for the implementation of WHO resolutions and guidelines recommending establishment of national rubella and CRS surveillance. The decision to maintain the non-notifiable status of rubella constitutes a major constraint to regional elimination. The low MRCV2 coverage remains of great concern. To document interruption of endemic measles transmission, the RVC strongly recommends inclusion of genotyping data on sporadic measles cases in future ASUs.

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%

