Measles and rubella elimination country profile
Cyprus

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

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>Schedule</th>
<th>Year of introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCV1</td>
<td>MMR</td>
<td>12-15 months</td>
</tr>
<tr>
<td>MCV2</td>
<td>MMR</td>
<td>4-6 years</td>
</tr>
<tr>
<td></td>
<td></td>
<td>RCV</td>
</tr>
</tbody>
</table>

Source: Immunization schedule, WHO, Data and Statistics, Immunization Monitoring and Surveillance
[http://www.who.int/immunization/monitoring_surveillance/data/en/]

MCV1 = first dose measles-containing vaccine; MCV2 = second dose measles-containing vaccine; RCV = rubella-containing vaccine

Measles vaccination in school

Yes

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

Definition used for an outbreak

Two or more cases epidemiologically linked

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

Confirmed measles cases by month of onset, 2013-2017

Source: CSID 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

<table>
<thead>
<tr>
<th>Total population</th>
<th>1 179 551</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 1 year old</td>
<td>12 614</td>
</tr>
<tr>
<td>&lt; 5 years old</td>
<td>65 374</td>
</tr>
</tbody>
</table>


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/]
Measles and rubella elimination country profile
Cyprus

Measles cases by first subnational level, 2017

Measles genotypes by first subnational level, 2017

Sources of infection, 2017

Information on CRS, 2017

No cases reported

Sources:
- Measles and rubella elimination Annual Status Update report, 2017
- Measha 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.

CRS = congenital rubella syndrome

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Suspected measles cases

<table>
<thead>
<tr>
<th>Year</th>
<th>Suspected measles cases</th>
<th>Confirmed measles cases</th>
<th>Discarded as non-measles</th>
<th>Measles incidence</th>
<th>Genotypes detected</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NA</td>
</tr>
<tr>
<td>2014</td>
<td>153</td>
<td>8</td>
<td>2</td>
<td>8</td>
<td>145</td>
</tr>
<tr>
<td>2015</td>
<td>204</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>204</td>
</tr>
<tr>
<td>2016</td>
<td>17</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>17</td>
</tr>
<tr>
<td>2017</td>
<td>24</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>21</td>
</tr>
</tbody>
</table>

Source: Measles and rubella elimination Annual Status Update report, 2013-2017

Incidence calculated per 1 million population
ND = Data not available; NA = Not applicable


<table>
<thead>
<tr>
<th>Year</th>
<th>Discarded non-measles rate</th>
<th>1st sub-national unit with ≥ 2 discarded cases</th>
<th>% cases with adequate laboratory investigation</th>
<th>% origin of infection known</th>
<th># specimen tested for measles</th>
<th>% positive for measles</th>
<th>Rate of viral detection</th>
<th>% WHO and proficient labs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
<td>ND</td>
</tr>
<tr>
<td>2014</td>
<td>16.9</td>
<td>100%</td>
<td>98.7%</td>
<td>100%</td>
<td>153</td>
<td>5.2%</td>
<td>0</td>
<td>ND</td>
</tr>
<tr>
<td>2015</td>
<td>24.1</td>
<td>ND</td>
<td>100%</td>
<td>NA</td>
<td>204</td>
<td>0%</td>
<td>NA</td>
<td>100%</td>
</tr>
<tr>
<td>2016</td>
<td>2</td>
<td>100%</td>
<td>100%</td>
<td>NA</td>
<td>17</td>
<td>0%</td>
<td>NA</td>
<td>100%</td>
</tr>
<tr>
<td>2017</td>
<td>2.8</td>
<td>100%</td>
<td>100%</td>
<td>100%</td>
<td>24</td>
<td>12.5%</td>
<td>NA</td>
<td>100%</td>
</tr>
</tbody>
</table>

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) concluded that endemic transmission of both measles and rubella remained interrupted in Cyprus in 2017 and confirmed that measles and rubella elimination has been sustained. Nevertheless, greater efforts are required to document current vaccination coverage levels throughout the country. Surveillance performance and sensitivity need to be strengthened and better documented. The RVC strongly recommends inclusion of measles genotyping data 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%