



### Measles cases among international travelers and follow-up of contacts

**2 confirmed measles cases**



were in a flight from Buenos Aires, Argentina to London, United Kingdom on 3 September 2019.

The cases were among unvaccinated travelers aged 7 and 11 years old respectively who were in the cities of Buenos Aires and Lujan during their communicable period. Onset of rash was 2 and 4 of September.

The cases shared the flight with citizens from Brazil, Chile, Paraguay, Uruguay and the United States. Health authorities are following-up these passengers, as they may have been exposed to the measles virus in the plane. As of today, no secondary cases were reported.



Source: Country report to FPL-IM/PAHO and Epidemiological Alert, Ministry of Health of Argentina. Accessed on 12 September in the below link: [https://www.argentina.gob.ar/sites/default/files/sarampion\\_alerta-11-09-2019.pdf](https://www.argentina.gob.ar/sites/default/files/sarampion_alerta-11-09-2019.pdf)

**Table.1**  
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for Weeks 01-36, 2019

| Subregion and Country | Susp. Cases 2019 | Measles Confirmed 2019 |            |             |             | Year/Week Last Conf. Measles case | Rubella Confirmed 2019 |          |          | Year/Week Last Conf. Rubella Case | Diagnosis of Discarded Cases 2019 |            | Congenital Rubella Syndrome |            |          | Year/Week Last Conf. CRS Case |          |           |           |         |
|-----------------------|------------------|------------------------|------------|-------------|-------------|-----------------------------------|------------------------|----------|----------|-----------------------------------|-----------------------------------|------------|-----------------------------|------------|----------|-------------------------------|----------|-----------|-----------|---------|
|                       |                  | Clin.                  | Lab.       | EPI link    | Total       |                                   | Clin.                  | Lab.     | Total    |                                   | Dengue                            | Others     | Susp.                       | Conf.      | CRI*     |                               |          |           |           |         |
| AND                   | BOL              | 72                     | 0          | 0           | ...         | 0                                 | 0                      | 0        | 2000-40  | 0                                 | 0                                 | 0          | 2006-03                     | 1          | 30       | 8                             | 0        | 0         | ...       |         |
|                       | COL              | 3294                   | 0          | 199         | ...         | 199 <sup>a</sup>                  | 0                      | 0        | 0        | 2012-31                           | 1                                 | 1575       | 229                         | 0          | 0        | 0                             | 0        | 2005-34   |           |         |
|                       | ECU              | 2                      | 0          | 0           | 0           | 0                                 | 0                      | 0        | 2018-33  | 0                                 | 0                                 | 0          | 2004-49                     | 0          | 2        | 0                             | ...      | ...       | 2011-14   |         |
|                       | PER              | 322                    | 0          | 2           | ...         | 2                                 | 0                      | 0        | 2019-17  | 0                                 | 0                                 | 0          | 2009-04                     | 0          | 313      | 0                             | 0        | 0         | 2007-16   |         |
|                       | VEN              | 461                    | 32         | 391         | 23          | 446 <sup>b</sup>                  | 0                      | 0        | 0        | 2019-34                           | 0                                 | 0          | 0                           | 2007-51    | 9        | 182                           | 19       | 0         | 0         | ...     |
| BRA                   | BRA              | 26714                  | 240        | 3461        | ...         | 3701                              | ...                    | ...      | ...      | 2019-36                           | ...                               | ...        | ...                         | 2014-40    | 0        | 4669                          | 30       | 0         | 0         | 2009-34 |
| CAP                   | CRI              | 49                     | 0          | 10          | ...         | 10                                | 0                      | 0        | 0        | 2019-13                           | 0                                 | 0          | 0                           | 2001-39    | 0        | 38                            | 25       | 0         | 0         | ...     |
|                       | GTM              | 321                    | 0          | 0           | ...         | 0                                 | 0                      | 0        | 0        | 2018-03                           | 0                                 | 0          | 0                           | 2006-31    | 1        | 201                           | 2        | 0         | 0         | 2005-00 |
|                       | HND              | 285                    | 0          | 0           | ...         | 0                                 | 0                      | 0        | 0        | 1998-16                           | 0                                 | 0          | 0                           | 2004-11    | 0        | 273                           | 16       | 0         | 0         | 2001-00 |
|                       | NIC              | 622                    | 0          | 0           | ...         | 0                                 | 0                      | 0        | 0        | 1994-14                           | 0                                 | 0          | 0                           | 2004-19    | 9        | 568                           | 22       | 0         | 0         | 2005-00 |
|                       | PAN              | 52                     | 0          | 0           | ...         | 0                                 | 0                      | 0        | 0        | 2011-20                           | 0                                 | 0          | 0                           | 2002-48    | 0        | 47                            | 0        | 0         | 0         | ...     |
|                       | SLV              | 377                    | 0          | 0           | ...         | 0                                 | 0                      | 0        | 0        | 2001-19                           | 0                                 | 0          | 0                           | 2006-30    | 0        | 377                           | 0        | 0         | 0         | 2001-00 |
| CAR                   | CAR              | 251                    | 0          | 3           | 1           | 4                                 | 0                      | 0        | 0        | 2019-7                            | 0                                 | 0          | 0                           | 2008-18    | 0        | 236                           | 36       | 0         | 0         | 1999-00 |
| LAC                   | CUB              | 2397                   | 0          | 1           | ...         | 1 <sup>c</sup>                    | 0                      | 0        | 0        | 2019-24                           | 0                                 | 0          | 0                           | 2004-06    | 0        | 2397                          | 0        | 0         | 0         | 1989-10 |
|                       | DOM              | 140                    | 0          | 0           | ...         | 0                                 | 0                      | 0        | 0        | 2011-18                           | 0                                 | 0          | 0                           | 2007-45    | 7        | 123                           | 0        | 0         | 0         | ...     |
|                       | HTI              | 182                    | 0          | 0           | ...         | 0                                 | 0                      | 0        | 0        | 2001-39                           | 0                                 | 0          | 0                           | 2006-21    | 0        | 57                            | 18       | 0         | 0         | ...     |
| MEX                   | MEX              | 3644                   | 0          | 14          | ...         | 14                                | 0                      | 0        | 0        | 2019-35                           | 0                                 | 0          | 0                           | 2018-14    | 0        | 3027                          | 0        | 0         | 0         | ...     |
| NOA                   | CAN              | ...                    | ...        | 102         | 9           | 111                               | ...                    | ...      | ...      | 2019-34                           | ...                               | ...        | ...                         | 2016-06    | 0        | 0                             | 0        | ...       | ...       | 2018-39 |
|                       | USA              | ...                    | ...        | 42          | 1173        | 1241 <sup>d</sup>                 | ...                    | 1        | 1        | 2019-36                           | ...                               | 1          | 1                           | 2019-03    | 0        | 0                             | 0        | ...       | ...       | 2017-00 |
| SOC                   | ARG              | 137                    | 0          | 6           | ...         | 6                                 | 0                      | 3        | 3        | 2019-33                           | 0                                 | 3          | 3                           | 2019-16    | 0        | 127                           | 0        | 0         | 0         | 2009-27 |
|                       | CHL              | 669                    | 0          | 8           | ...         | 8                                 | 0                      | 1        | 1        | 2019-36                           | 0                                 | 1          | 1                           | 2019-14    | 0        | 653                           | 111      | 0         | 0         | ...     |
|                       | PRY              | 1060                   | 0          | 0           | ...         | 0                                 | 0                      | 0        | 0        | 1998-44                           | 0                                 | 0          | 0                           | 2005-21    | 87       | 739                           | 2        | 0         | 0         | 2003-06 |
|                       | URY              | 67                     | 0          | 9           | ...         | 9                                 | ...                    | ...      | ...      | 2019-22                           | ...                               | ...        | ...                         | 2001-37    | 0        | 56                            | 0        | 0         | ...       | ...     |
| <b>TOTAL</b>          |                  | <b>41118</b>           | <b>272</b> | <b>4248</b> | <b>1232</b> | <b>5752</b>                       | <b>--</b>              | <b>0</b> | <b>5</b> | <b>5</b>                          | <b>--</b>                         | <b>115</b> | <b>15690</b>                | <b>518</b> | <b>0</b> | <b>0</b>                      | <b>0</b> | <b>--</b> | <b>--</b> |         |

\*Congenital Rubella Infection.

...No updated report received

(a) Boletín Epidemiológico Semanal, SE 34-2019, Instituto Nacional de Salud, Colombia; (b) Ministry of Health Venezuela reports to PAHO/WHO Venezuela (data up to epidemiological week 34); (c) PAHO/WHO. Epidemiological Update: Measles. 7 August 2019, Washington, D.C.: PAHO/WHO; 2019; (d) Centers for Disease Control and Prevention (<https://www.cdc.gov/measles/cases-outbreaks.html>). Cases as of 5 September 2019. Case count is preliminary and subject to change. Data are updated every Monday;



**Table No.2**  
Infection Source of Measles and Rubella Confirmed Cases for the Period of Weeks 01-36, 2019

| Subregion and Country |              | Measles    |             |            |             | Rubella  |          |          |          |
|-----------------------|--------------|------------|-------------|------------|-------------|----------|----------|----------|----------|
|                       |              | I          | IR          | En.        | U           | I        | IR       | CAC      | U        |
| AND                   | BOL          |            |             |            | 16          |          |          |          |          |
|                       | COL          | 62         | 121         |            |             |          |          |          |          |
|                       | ECU          |            |             |            |             |          |          |          |          |
|                       | PER          | 1          | 1           |            |             |          |          |          |          |
|                       | VEN          |            |             | 446        |             |          |          |          |          |
| BRA                   | BRA          | 39         |             | 48         | 3614        |          |          |          |          |
|                       | CRI          | 1          | 9           |            |             |          |          |          |          |
|                       | GTM          |            |             |            |             |          |          |          |          |
|                       | HND          |            |             |            |             |          |          |          |          |
|                       | NIC          |            |             |            |             |          |          |          |          |
| CAP                   | PAN          |            |             |            |             |          |          |          |          |
|                       | SLV          |            |             |            |             |          |          |          |          |
|                       | CAR          | 4          |             |            |             |          |          |          |          |
|                       | LAC          | 1          |             |            |             |          |          |          |          |
|                       | CUB*         |            |             |            |             |          |          |          |          |
| MEX                   | DOM          |            |             |            |             |          |          |          |          |
|                       | HTI          |            |             |            |             |          |          |          |          |
|                       | MEX          | 5          | 9           |            |             |          |          |          |          |
| NOA                   | CAN          | 41         | 62          |            | 8           |          |          |          |          |
|                       | USA          | 57         | 1167        |            | 17          | 1        |          |          |          |
| SOC                   | ARG          | 4          | 1           |            | 1           | 3        |          |          |          |
|                       | CHL          | 3          | 3           |            | 2           | 1        |          |          |          |
|                       | PRY          |            |             |            |             |          |          |          |          |
|                       | URY          | 2          | 6           |            | 1           |          |          |          |          |
|                       | <b>TOTAL</b> | <b>220</b> | <b>1379</b> | <b>494</b> | <b>3659</b> | <b>5</b> | <b>0</b> | <b>0</b> | <b>0</b> |

**Table No.3**  
Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-36, 2019

| Country      | Pending Cases 2018 | Cumulative 2019 | Week of Onset |             |             |             |             |            |           | % Pend. Cases |
|--------------|--------------------|-----------------|---------------|-------------|-------------|-------------|-------------|------------|-----------|---------------|
|              |                    |                 | 1-31          | 32          | 33          | 34          | 35          | 36         |           |               |
| BOL          | 3                  | 41              | 41            | 0           | 0           | 0           | 0           | ...        | 57        |               |
| COL          | 184                | 111             | 107           | 1           | 0           | 2           | 1           | 0          | 3         |               |
| ECU          | 84                 | 0               | 0             | ...         | ...         | ...         | ...         | ...        | 0         |               |
| PER          | 1                  | 7               | 5             | 0           | 0           | 0           | 1           | 1          | 2         |               |
| VEN          | 2                  | 8               | 8             | 0           | 0           | 0           | 0           | ...        | 2         |               |
| BRA          | 465                | 17995           | 5836          | 3290        | 3416        | 2960        | 2163        | 330        | 67        |               |
| CRI          | 23                 | 1               | 1             | 0           | 0           | 0           | 0           | 0          | 2         |               |
| GTM          | 12                 | 119             | 76            | 19          | 7           | 11          | 3           | 3          | 37        |               |
| HND          | 0                  | 12              | 12            | 0           | 0           | 0           | 0           | 0          | 4         |               |
| NIC          | 0                  | 45              | 18            | 5           | 10          | 5           | 5           | 2          | 7         |               |
| PAN          | 0                  | 5               | 1             | 0           | 1           | 1           | 2           | ...        | 10        |               |
| SLV          | 0                  | 0               | 0             | 0           | 0           | 0           | 0           | ...        | 0         |               |
| CAR          | 0                  | 11              | 10            | 0           | 1           | 0           | 0           | 0          | 4         |               |
| LAC          | 0                  | 0               | 0             | 0           | 0           | 0           | 0           | 0          | 0         |               |
| CUB*         | 0                  | 10              | 10            | 0           | 0           | 0           | ...         | ...        | 7         |               |
| DOM          | 0                  | 10              | 10            | 0           | 0           | 0           | ...         | ...        | 7         |               |
| HTI          | 56                 | 125             | 116           | 2           | 5           | 2           | 0           | 0          | 69        |               |
| MEX          | 0                  | 603             | 317           | 40          | 52          | 64          | 57          | 73         | 17        |               |
| CAN          | ...                | ...             | ...           | ...         | ...         | ...         | ...         | ...        | ...       |               |
| USA          | ...                | ...             | ...           | ...         | ...         | ...         | ...         | ...        | ...       |               |
| ARG          | 261                | 1               | 1             | 0           | 0           | 0           | 0           | 0          | 1         |               |
| CHL          | 0                  | 7               | 4             | 0           | 1           | 0           | 1           | 1          | 1         |               |
| PRY          | 9                  | 234             | 177           | 8           | 11          | 12          | 17          | 9          | 22        |               |
| URY          | 0                  | 2               | 2             | 0           | 0           | ...         | ...         | ...        | 3         |               |
| <b>TOTAL</b> | <b>1100</b>        | <b>19337</b>    | <b>6742</b>   | <b>3365</b> | <b>3504</b> | <b>3057</b> | <b>2250</b> | <b>419</b> | <b>47</b> |               |

I: Imported; IR: Import-related; En: Endemic case; U: Unknown.

... No updated report received

(a) PAHO/WHO. Epidemiological Update: Measles.7 August 2019, Washington, D.C.: PAHO/WHO; 2019

**Table 4**  
Indicators of Integrated Measles/Rubella Surveillance for Period of Weeks 01-36, 2019

| Subregion and Country |                           | Sites Reporting Weekly |             | % Cases with Adequate Investigation | % Cases with Adequate Sample | % Blood Samples Received in Lab. ≤5 days | % Lab. Results ≤4 days | Rate of Suspected Cases Last 52 weeks (2018/37-2019/36) |                 |
|-----------------------|---------------------------|------------------------|-------------|-------------------------------------|------------------------------|--|------------------------|---|-----------------|
|                       |                           | Total Units            | % This Week |                                     |                              |  |                        | Measles/Rubella (100,000 pop.)                          | CRS (10,000 lb) |
| AND                   | BOL                       | 2657                   | ...         | 63                                  | 81                           | 77                                       | 77                     | 1,1   | 0,3             |
|                       | COL                       | 5232                   | 98          | 93                                  | 96                           | 93                                       | 97                     | 8,1   | 8,2             |
|                       | ECU                       | 2184                   | ...         | 100                                 | 100                          | 100                                      | 100                    | 1,2   | 0,0             |
|                       | PER                       | 7781                   | ...         | 90                                  | 97                           | 88                                       | 48                     | 2,6   | 0,0             |
|                       | VEN                       | 13092                  | ...         | 100                                 | 56                           | 10                                       | 17                     | 2,1   | 0,3             |
| CAP                   | BRA                       | ...                    | ...         | 49                                  | 85                           | 70                                       | 47                     | 12,5  | 0,1             |
|                       | CRI                       | 57                     | ...         | 73                                  | 86                           | 86                                       | 79                     | 1,4   | 3,7             |
|                       | GTM                       | 1541                   | 98          | 86                                  | 97                           | 63                                       | 87                     | 2,1   | 0,0             |
|                       | HND                       | 470                    | 91          | 78                                  | 99                           | 80                                       | 98                     | 3,7   | 2,1             |
|                       | NIC                       | 185                    | 100         | 96                                  | 94                           | 93                                       | 82                     | 11,3  | 5,9             |
| CAR                   | PAN                       | 324                    | 0           | 96                                  | 94                           | 79                                       | 96                     | 1,6   | 0,0             |
|                       | SLV                       | ...                    | ...         | 73                                  | 98                           | 97                                       | 94                     | 7,9   | 0,0             |
|                       | CAR                       | 763                    | 87          | 85                                  | 97                           | 9  | 92                     | 4,4   | 12,6            |
|                       | LAC                       | 168                    | ...         | 100                                 | 100                          | 100                                      | 100                    | 30,8  | 0,0             |
|                       | CUB*                      | 247                    | ...         | 19                                  | 96                           | 84                                       | 76                     | 1,4   | 0,0             |
| MEX                   | HTI                       | 652                    | 87          | 90                                  | 94                           | 74                                       | 66                     | 1,9   | 1,1             |
|                       | MEX                       | 20277                  | 97          | 95                                  | 99                           | 90                                       | 90                     | 3,3   | 0,0             |
|                       | CAN                       | ...                    | ...         | ...                                 | ...                          | ...                                      | ...                    | ...   | ...             |
| NOA                   | USA                       | ...                    | ...         | ...                                 | ...                          | ...                                      | ...                    | ...   | ...             |
|                       | ARG                       | 784                    | 0           | 18                                  | 98                           | 80                                       | 60                     | 0,8   | 0,0             |
|                       | CHL                       | 767                    | 87          | 24                                  | 99                           | 96                                       | 98                     | 5,3   | 10,7            |
|                       | PRY                       | 1256                   | 99          | 75                                  | 87                           | 84                                       | 75                     | 20,5  | 0,1             |
| SOC                   | URY                       | 155                    | 0           | 97                                  | 55                           | 55                                       | 46                     | 2,0   | 0,0             |
|                       | <b>Total and Average*</b> | <b>58592</b>           | <b>51</b>   | <b>63</b>                           | <b>89</b>                    | <b>76</b>                                | <b>61</b>              | <b>7.1</b>  | <b>1.1</b>      |

\*Weighted

... No updated report received