



# Measles/Rubella Weekly Bulletin

Comprehensive Family Immunization Project/Family and Community Health Area



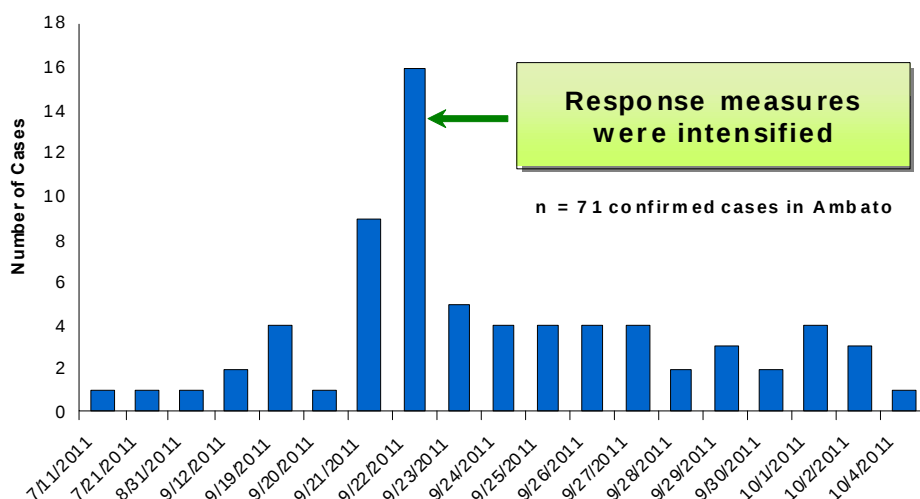
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## Measles and Rubella Surveillance in the Americas

Week ending  
1 October 2011

### Distribution of Confirmed Measles Cases by Date of Onset Ambato, Ecuador, 2011 \*

Ecuador is working to control a measles outbreak that was first detected in the Ambato canton, Tungurahua province, over 100 km south of Quito. As of 6 October 2011, 71 cases had been confirmed in Ambato (graph) and 2 in Quito (not shown). Measles genotype B3 was isolated from two of the initial cases. The Ministry of Health has sent epidemiological alerts and is investigating all suspected cases, following-up their contacts, and is conducting rapid coverage monitoring and vaccination activities. This coming weekend, a vaccination campaign will be carried out in the Ambato canton and next week in the remaining cantons of the Tungurahua province.



\* Data as of 06-Oct-11  
Source: EPI-MSP

Table.1  
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for the Period of Weeks 01-39, 2011

| Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for the Period of Weeks 01-33, 2011 |     |                  |                        |      |                  |                                   |                        |      |       |                                   |                                   |        |                             |                |      |                               |
|-----------------------------------------------------------------------------------------------------------------------------|-----|------------------|------------------------|------|------------------|-----------------------------------|------------------------|------|-------|-----------------------------------|-----------------------------------|--------|-----------------------------|----------------|------|-------------------------------|
| Subregion and Country                                                                                                       |     | Susp. Cases 2011 | Measles Confirmed 2011 |      |                  | Year/Week Last Conf. Measles case | Rubella Confirmed 2011 |      |       | Year/Week Last Conf. Rubella Case | Diagnosis of Discarded Cases 2011 |        | Congenital Rubella Syndrome |                |      | Year/Week Last Conf. CRS Case |
|                                                                                                                             |     |                  | Clin.                  | Lab. | Total            |                                   | Clin.                  | Lab. | Total |                                   | Dengue                            | Others | Susp.                       | Conf.          | CR1* |                               |
| AND                                                                                                                         | BOL | 144              | 0                      | 0    | 0                | 00/40                             | 0                      | 0    | 0     | 06/03                             | 2                                 | 139    | ...                         | ...            | ...  | ...                           |
|                                                                                                                             | COL | 1514             | 0                      | 7    | 7                | 11/37                             | 0                      | 0    | 0     | 09/18                             | 2                                 | 1441   | 209                         | 0              | ...  | 2005/34                       |
|                                                                                                                             | ECU | 528              | 0                      | 73   | 73               | 11/40                             | 0                      | 0    | 0     | 04/45                             | 47                                | 329    | 0                           | 0              | 0    | ...                           |
|                                                                                                                             | PER | 513              | 0                      | 0    | 0                | 08/18                             | 0                      | 0    | 0     | 06/45                             | 2                                 | 477    | ...                         | ...            | ...  | 2007/16                       |
|                                                                                                                             | VEN | 411              | 0                      | 0    | 0                | 07/07                             | 0                      | 0    | 0     | 10/03                             | 44                                | 256    | 0                           | 0              | 0    | ...                           |
| BRA CAP                                                                                                                     | BRA | 5461             | 0                      | 18   | 18               | 11/22                             | 0                      | 0    | 0     | 09/41                             | 0                                 | 4919   | 0                           | 0              | ...  | 2009/34                       |
|                                                                                                                             | COR | 17               | 0                      | 0    | 0                | 05/22                             | 0                      | 0    | 0     | 01/42                             | 0                                 | 5      | 0                           | 0              | 0    | ...                           |
|                                                                                                                             | ELS | 198              | 0                      | 0    | 0                | 01/19                             | 0                      | 0    | 0     | 06/30                             | 4                                 | 194    | 46                          | 0              | 0    | 2001/xx                       |
|                                                                                                                             | GUT | 198              | 0                      | 0    | 0                | 98/05                             | 0                      | 0    | 0     | 06/30                             | 11                                | 161    | 0                           | 0              | 0    | 2005/00                       |
|                                                                                                                             | HON | 56               | 0                      | 0    | 0                | 97/29                             | 0                      | 0    | 0     | 04/11                             | 3                                 | 51     | 20                          | 0              | 0    | ...                           |
|                                                                                                                             | NIC | 144              | 0                      | 0    | 0                | 94/14                             | 0                      | 0    | 0     | 04/19                             | 0                                 | 135    | ...                         | ...            | ...  | ...                           |
|                                                                                                                             | PAN | 229              | 0                      | 4    | 4                | 11/20                             | 0                      | 0    | 0     | 02/48                             | 15                                | 195    | 0                           | 0              | 0    | 1999/xx                       |
|                                                                                                                             | CAR | 280              | 0                      | 0    | 0                | 08/21                             | 0                      | 0    | 0     | 08/18                             | 0                                 | 0      | 0                           | 0              | 0    | ...                           |
|                                                                                                                             | CUB | 838              | 0                      | 0    | 0                | 93/27                             | 0                      | 0    | 0     | 04/06                             | 0                                 | 838    | 0                           | 0              | ...  | ...                           |
|                                                                                                                             | DOR | 94               | 0                      | 1    | 1                | 11/18                             | 0                      | 0    | 0     | 06/44                             | 0                                 | 75     | 0                           | 0              | ...  | ...                           |
|                                                                                                                             | FGU | 20               | 0                      | 5    | 5                | 11/26                             | 0                      | 0    | 0     | 10/06                             | 3                                 | 11     | ...                         | ...            | ...  | ...                           |
|                                                                                                                             | GUA | 21               | 0                      | 13   | 13 <sup>c</sup>  | 11/28                             | ...                    | ...  | ...   | ...                               | 0                                 | 6      | ...                         | ...            | ...  | ...                           |
|                                                                                                                             | HAI | 20               | 0                      | 0    | 0                | 01/39                             | 0                      | 0    | 0     | 06/47                             | 0                                 | 5      | ...                         | ...            | ...  | ...                           |
|                                                                                                                             | MAR | 9                | ...                    | 3    | 3                | 11/27                             | ...                    | ...  | ...   | ...                               | 0                                 | 6      | ...                         | ...            | ...  | ...                           |
|                                                                                                                             | PUR | ...              | ...                    | ...  | ...              | ...                               | ...                    | ...  | ...   | ...                               | ...                               | ...    | ...                         | ...            | ...  | ...                           |
| MEX NOA                                                                                                                     | MEX | 4669             | 0                      | 3    | 3                | 11/31                             | 0                      | 0    | 0     | 08/20                             | 0                                 | 4278   | ...                         | ...            | ...  | ...                           |
|                                                                                                                             | CAN | ...              | 71                     | 699  | 770 <sup>a</sup> | 11/38                             | 0                      | 1    | 1     | 11/25                             | ...                               | ...    | 1                           | 1 <sup>b</sup> | ...  | ...                           |
| SOC                                                                                                                         | USA | ...              | ...                    | 212  | 212 <sup>a</sup> | 11/38                             | 0                      | 4    | 4     | 11/18                             | ...                               | ...    | 0                           | 0              | ...  | ...                           |
|                                                                                                                             | ARG | 128              | ...                    | 3    | 3                | 11/12                             | 0                      | 0    | 0     | 09/05                             | 0                                 | 19     | 41                          | 0              | 0    | ...                           |
|                                                                                                                             | CHI | 401              | 0                      | 6    | 6                | 11/16                             | 0                      | 2    | 2     | 11/25                             | 0                                 | 371    | 91                          | 0              | 0    | ...                           |
|                                                                                                                             | PAR | 385              | 0                      | 0    | 0                | 98/44                             | 0                      | 0    | 0     | 05/21                             | 5                                 | 376    | 0                           | 0              | 0    | ...                           |
|                                                                                                                             | URU | 13               | 0                      | 0    | 0                | 99/08                             | 0                      | 0    | 0     | 01/37                             | 0                                 | 10     | 0                           | 0              | 0    | ...                           |
| TOTAL                                                                                                                       |     | 16291            | 71                     | 1047 | 1118             | --                                | 0                      | 7    | 7     | --                                | 138                               | 14297  | 408                         | 1              | 0    | --                            |

... No report received; \* Congenital Rubella Infection; (a) Provisional data; (b) imported;

(c) Five cases have been notified in the island of Saint Martin (1 import and 4 import-related). For the surveillance of vaccine-preventable diseases, Saint Martin reports cases to Guadeloupe's Regional Agency of Health.



# Measles / Rubella Surveillance

**Table No.2**  
Infection Source of Measles and Rubella Confirmed Cases for the Period of Weeks 01-39, 2011

| Subregion and Country |     | Measles |     |     |     | Rubella |    |     |   |
|-----------------------|-----|---------|-----|-----|-----|---------|----|-----|---|
|                       |     | I       | IR  | CAC | U   | I       | IR | CAC | U |
| AND                   | BOL | 1       | 6   |     |     |         |    |     |   |
|                       | COL | 2       | 8   |     | 63  |         |    |     |   |
|                       | ECU |         |     |     |     |         |    |     |   |
|                       | PER |         |     |     |     |         |    |     |   |
|                       | VEN |         |     |     |     |         |    |     |   |
| BRA CAP               | BRA | 7       | 8   |     | 3   |         |    |     |   |
|                       | COR |         |     |     |     |         |    |     |   |
|                       | ELS |         |     |     |     |         |    |     |   |
|                       | GUT |         |     |     |     |         |    |     |   |
|                       | HON |         |     |     |     |         |    |     |   |
| CAR LAC               | NIC | 4       |     |     |     |         |    |     |   |
|                       | PAN |         |     |     |     |         |    |     |   |
|                       | CAR |         |     |     |     |         |    |     |   |
|                       | CUB |         |     |     |     |         |    |     |   |
|                       | DOR | 1       |     |     |     |         |    |     |   |
| MEX NOA               | FGU | 2       | 3   |     |     |         |    |     |   |
|                       | GUA | 7       | 6   |     |     |         |    |     |   |
|                       | HAI |         |     |     |     |         |    |     |   |
|                       | MAR | 2       |     |     | 1   |         |    |     |   |
|                       | PUR |         |     |     |     |         |    |     |   |
| SOC                   | MEX | 3       |     |     |     |         |    |     |   |
|                       | CAN | 17      | 23  |     | 730 |         |    |     | 1 |
|                       | USA | 104     | 89  |     | 19  | 2       | 1  |     | 1 |
|                       | ARG | 1       | 2   |     |     |         |    |     |   |
|                       | CHI | 3       | 3   |     |     | 1       | 1  |     |   |
| URU                   | PAR |         |     |     |     |         |    |     |   |
|                       | URU |         |     |     |     |         |    |     |   |
| TOTAL                 |     | 154     | 148 |     | 816 | 3       | 2  |     | 2 |

**Table No.3**  
Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-39, 2011

| Country | Pending Cases 2010 | Cumulative 2011 | Week of Onset |     |     |     |     |     |     | % Pend.Cases |
|---------|--------------------|-----------------|---------------|-----|-----|-----|-----|-----|-----|--------------|
|         |                    |                 | 1-34          | 35  | 36  | 37  | 38  | 39  |     |              |
| BOL     | 0                  | 3               | 3             | ... | ... | ... | ... | ... | 2   |              |
| COL     | 8                  | 64              | 31            | 9   | 12  | 7   | 5   | 0   | 4   |              |
| ECU     | 0                  | 26              | 20            | 1   | 0   | 0   | 1   | 4   | 5   |              |
| PER     | 0                  | 34              | 32            | 0   | 2   | 0   | ... | ... | 7   |              |
| VEN     | 0                  | 81              | 81            | 0   | 0   | 0   | 0   | 0   | 20  |              |
| BRA     | 37                 | 524             | 355           | 54  | 44  | 33  | 38  | ... | 10  |              |
| COR     | 0                  | 12              | 12            | 0   | 0   | 0   | 0   | 0   | 71  |              |
| ELS     | 0                  | 0               | 0             | 0   | 0   | 0   | 0   | ... | 0   |              |
| GUT     | 0                  | 26              | 26            | 0   | 0   | 0   | 0   | 0   | 13  |              |
| HON     | 0                  | 1               | 0             | 0   | 1   | 0   | 0   | 0   | 2   |              |
| NIC     | 0                  | 9               | 6             | 1   | 0   | 0   | 0   | 0   | 6   |              |
| PAN     | 0                  | 15              | 12            | 1   | 0   | 1   | 1   | 0   | 7   |              |
| CAR     | 0                  | 280             | 270           | 5   | 5   | 0   | 0   | 0   | 100 |              |
| CUB     | 0                  | 0               | 0             | 0   | 0   | 0   | 0   | 0   | 0   |              |
| DOR     | 4                  | 17              | 15            | 1   | 1   | 0   | 0   | 0   | 18  |              |
| FGU     | 0                  | 1               | 0             | 0   | 1   | 0   | 0   | 0   | 5   |              |
| GUA     | 0                  | 2               | 0             | 0   | 1   | 1   | 0   | 0   | 10  |              |
| HAI     | 0                  | ...             | ...           | ... | ... | ... | ... | ... | ... |              |
| MAR     | 0                  | 0               | 0             | 0   | 0   | 0   | 0   | 0   | 0   |              |
| PUR     | ...                | ...             | ...           | ... | ... | ... | ... | ... | ... |              |
| MEX     | 0                  | 385             | 377           | 6   | 2   | 0   | ... | ... | 8   |              |
| CAN     | ...                | ...             | ...           | ... | ... | ... | ... | ... | ... |              |
| USA     | ...                | ...             | ...           | ... | ... | ... | ... | ... | ... |              |
| ARG     | 0                  | 105             | 105           | 0   | 0   | 0   | 0   | 0   | 82  |              |
| CHI     | 3                  | 23              | 9             | 1   | 5   | 1   | 3   | 1   | 6   |              |
| PAR     | 1                  | 3               | 3             | 0   | 0   | 0   | 0   | 0   | 1   |              |
| URU     | 2                  | 2               | 1             | 1   | 0   | 0   | 0   | 0   | 15  |              |
| TOTAL   | 55                 | 1613            | 1358          | 80  | 74  | 43  | 48  | 5   | 10  |              |

I: Imported; IR: Import-related; CAC: Country-acquired case  
U: Unknown.

... No report received

**Table 4.**  
Indicators of Integrated Measles/Rubella Surveillance for the Period of Weeks 01-39, 2011

| 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 (2010/40-2011/39) |                 |
|-----------------------|------------------|------------------------|-------------|-------------------------------------|------------------------------|------------------------------------------|------------------------|---------------------------------------------------------|-----------------|
|                       |                  | Total Units            | % This Week |                                     |                              |                                          |                        | Measles/Rubella (100,000 pop.)                          | CRS (10,000 lb) |
| AND                   | BOL              | 2657                   | ...         | 99                                  | 99                           | 92                                       | 91                     | 1,7                                                     | 0.0             |
|                       | COL              | 4827                   | 93          | 73                                  | 93                           | 93                                       | 95                     | 4,6                                                     | 2.3             |
|                       | ECU <sup>a</sup> | 1771                   | 33          | 73                                  | 99                           | 90                                       | 68                     | 5,5                                                     | 0.0             |
|                       | PER              | 3703                   | ...         | 76                                  | 97                           | 75                                       | 73                     | 1,8                                                     | 0.0             |
|                       | VEN <sup>a</sup> | 3283                   | 0           | 71                                  | 97                           | 74                                       | 46                     | 1,9                                                     | 0.0             |
| BRA CAP               | BRA              | ...                    | 77          | 25                                  | ...                          | 99                                       | ...                    | 4,2                                                     | 0.0             |
|                       | COR <sup>a</sup> | 57                     | 0           | 35                                  | 100                          | 71                                       | 47                     | 0,6                                                     | 0.0             |
|                       | ELS <sup>a</sup> | 256                    | ...         | 76                                  | 99                           | 96                                       | 80                     | 3,9                                                     | 3.8             |
|                       | GUT <sup>a</sup> | 1506                   | 97          | 95                                  | 98                           | 98                                       | 86                     | 1,9                                                     | 0.0             |
|                       | HON <sup>a</sup> | 469                    | 95          | 57                                  | 100                          | 100                                      | 93                     | 0,9                                                     | 1.0             |
| CAR LAC               | NIC              | 185                    | 100         | 86                                  | 95                           | 87                                       | 88                     | 2,8                                                     | 0.0             |
|                       | PAN <sup>a</sup> | 214                    | 73          | 47                                  | 92                           | 93                                       | 90                     | 6,9                                                     | 0.0             |
|                       | CAR <sup>a</sup> | 130                    | 0           | 76                                  | 99                           | 97                                       | 94                     | 4,8                                                     | 0.0             |
|                       | CUB              | 444                    | 100         | 100                                 | 100                          | 100                                      | 100                    | 7,0                                                     | 0.0             |
|                       | DOR              | 251                    | 0           | 47                                  | 89                           | 69                                       | 54                     | 1,2                                                     | 0.0             |
| MEX NOA               | FGU              | ...                    | ...         | ...                                 | ...                          | ...                                      | ...                    | 8,9                                                     | ...             |
|                       | GUA              | ...                    | ...         | ...                                 | ...                          | ...                                      | ...                    | 4,3                                                     | ...             |
|                       | HAI              | 76                     | ...         | ...                                 | ...                          | ...                                      | ...                    | 0,2                                                     | 0.0             |
|                       | MAR              | ...                    | ...         | ...                                 | ...                          | ...                                      | ...                    | 2,2                                                     | ...             |
|                       | PUR              | ...                    | ...         | ...                                 | ...                          | ...                                      | ...                    | ...                                                     | ...             |
| SOC                   | MEX              | ...                    | ...         | 98                                  | ...                          | ...                                      | ...                    | 4,3                                                     | 0.0             |
|                       | CAN              | ...                    | ...         | ...                                 | ...                          | ...                                      | ...                    | ...                                                     | ...             |
|                       | USA              | ...                    | ...         | ...                                 | ...                          | ...                                      | ...                    | ...                                                     | ...             |
| URU                   | ARG <sup>a</sup> | 463                    | ...         | 9                                   | 73                           | 67                                       | 44                     | 0,3                                                     | 0.3             |
|                       | CHI              | 569                    | 100         | 20                                  | 83                           | 80                                       | 98                     | 2,6                                                     | 0.9             |
|                       | PAR <sup>a</sup> | 600                    | ...         | 50                                  | 100                          | 86                                       | 82                     | 6,1                                                     | 0.0             |
| TOTAL and Average     | URU <sup>a</sup> | 155                    | ...         | 8                                   | 15                           | 50                                       | 0                      | 0,5                                                     | 0.0             |
|                       |                  | 21616                  | 80          | 63                                  | 95                           | 94                                       | 84                     | 3.5                                                     | 0.3             |

... No report received  
(a) Countries using ISIS