In the Americas, a few minor outbreaks of Mayaro fever have been reported over the past decade among people residing in rural communities in the Amazon region of Brazil, Bolivia, and Peru. Studies conducted on these outbreaks show involvement of the mosquito vector Haemagogus in its jungle habitat. Marmosets are considered to act as vertebrate hosts among other nonhuman primates. Most human cases occur sporadically and include people who work or live in tropical rainforests.

Current Situation

The Mayaro virus has been isolated in humans, wild vertebrates and mosquitoes in Bolivia, Brazil, Colombia, Guyana, French Guiana, Peru, and Suriname. Mayaro fever is a viral disease of the South American countries.

This year, Venezuela reported an outbreak in a rural community located in Portuguesa state, which by 4 June 2010 had reported a cumulative total of 77 cases. No deaths were reported. The cases were confirmed by serology and viral isolation. The first outbreak of human cases in this country was reported in 2000.

Factors Influencing Incidence That Could Determine a Rise in the Number of Cases

- Changes in ecosystems and deforestation.
- Displacement of populations and encroachment of humans and domestic animals in arthropod habitats.
General Recommendations

- Displacement of populations.
- Enhanced surveillance to detect new cases and direct prevention and control activities.
- Outbreak investigation to adequately define existing prevention and control activities.
- Strengthening laboratory capacity for confirming diagnoses.
- Training health personnel in detection and case management.
- Strengthening entomological surveillance to determine the vectors involved in transmission.
- Dissemination of information and recommendations to alert the population at risk.

Bibliographical References