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## Occurrence of Guillain-Barré syndrome in patients affected by dengue, zika and chikungunya - A literature review

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Guillain-Barré syndrome (GBS) is an autoimmune disease that develops with demyelination and / or degeneration of axons in the peripheral nervous system, and may manifest as a secondary condition to several viral infections. Epidemiological studies have correlated urban arboviruses to GBS, which manifests itself within a few days after the classic clinical manifestations of these viruses. The objective of the study is to make a survey between the association of dengue, zika and chikungunya and GBS. A review was performed on the occurrence of GBS in patients affected by these arboviruses through the search for articles published between the years 2004 to 2017 in the Medline and Lilacs databases. The descriptors used, individually and in combination, were: arboviruses, zika virus, chikungunya fever, dengue, Guillain-Barre Syndrome. Articles were included describing the occurrence of GBS in patients with one of three arboviruses published in English, Portuguese and Spanish. We selected and analyzed 17 articles. The results showed that zika is the infection with the highest prevalence of GBS (incidence of 0.24 per 1000 cases) and dengue with a lower prevalence. Although encephalitis presents as a more frequent neurological complication in chikungunya and dengue, GBS surpasses encephalitis when the three arboviruses are added. It is concluded that arboviruses, especially zika may lead to late neurological manifestations of their classic symptoms, among which in adults, the most common is Guillain-Barré syndrome.

### Biography

Tatiana Paschoalette Rodrigues Bachur is a Pharmacist, and has completed her Master's degree in Pathology and is Professor of Medicine Course at the State University of Ceará, Brazil and Collaborator of the group of studies in Neuroinflammation and Neurotoxicology. She has developed studies in Toxicology, Pharmacology and Tropical Diseases and is a Reviewer of scientific journals and a Project Manager.

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