Tick Paralysis

Jose lapenta*

Department of Dermatology and Post graduated from University of Carabobo, Venezuela

Abstract

Dermagic Express brings you another interesting and hot topic, once again about the Ticks and the diseases that are capable of transmitting to the human being, it is the Tick Paralysis (TP), produced by the bite of some Ticks, which transmit a Neurotoxin which produces Paralysis in some parts of your body, even causing death in 10 to 12% of cases.

Introduction

The Tick Paralysis is now considered an Envenoming Neurotoxic which is similar to polio, affects both children and adults (majority children) especially in regions considered Hyperendemic as the West of the United States and the regions of Eastern Australia. Historically, the Australians Hamilton Hume and William Hove described the first bites of Ticks To Humans in 1824, but it was Bancroft in 1884 the first to report two cases (2) of toxicosis by Ticks To Humans describing 2 cases with weakness and blurred vision. The first death was reported by Cleland in 1912. Since that time the disease has been reported almost everywhere in the world. [Dermacentor Variables, other vector of Tick Paralysis and secondary vector of the Rocky Mountain spotted fever]

This disease is considered a rare condition, but very well studied by our scientists, and begins with the transmission of a Neurotoxin that is in the salivary glands of the Female ticks that when feed with blood enter to the bloodstream causing the symptoms which are characterized by a Ascending Flaccid Paralysis of the muscles that begins 2 to 7 days after the bite, in the lower limbs, and then goes up to the trunk, arms, head and death can occur due to respiratory failure. Other symptoms include numbness, decreased tendon reflexes, ophthalmoplegia, and bulbar palsy.

The Tick Paralysis (TP) can be misdiagnosed, and confuse medical science with entities such as: Acute Ataxia, Transverse Myelitis, Epidural Abscess, Botulism And Gullain Barre Syndrome (GBS), the latter being the one that lends itself most to confusion.

The causative agents of this condition are fully identified: In the United States of America, the vector is the Tick Dermacentor Andersoni, which also transmits the Disease the Rocky Mountains Spotted Fever. Another causative agent of this disease is the Tick Dermacentor Variables, considered the second most frequent vector in the transmission of The Rocky Mountains Spotted Fever.

Received date: December 03, 2017  
Accepted date: December 23, 2017  
Published date: December 27, 2017

Citation: Lapenta, J. Tick Paralysis.  

DOI: 10.15436/2381-0858.17.1753

*Corresponding author: Jose lapenta, Department of Dermatology and Post graduated from Carabobo University, Researcher, Venezuela; Website: www.dermagicexpress.blogspot.com
But this does not stop here; Approximately 69 species of Ticks from all over the world are able to induce Paralysis by Bitting. In other countries, such as the southeast of Australia, this disease (TP) is also endemic and the causative agents are other Ticks, among which the Tick of the Ixodes genus, Ixodes Holocyclus, and Ixodes Cornutus, also Dermacentor Andesoni and Variables stand out. [Tick Ixodes Holocyclus, Vector of Tick Parsysis in Australia.]

In South Africa the most important vector is the Tick Ixodes Rubicundus, in Ethiopia, the Ticks Rhipicephalus Evertsi Evertsi Evertis and Argas Walkerae and TICK Argas Radiatus in the Neartic region of North America.

The disease considered as a global extension “Supposedly” has not been described in the Hemisphere Sur, but in the year 1994, two (2) cases were described in Argentina in the province of Jujuy. A case (1) was also described on the Pacific coast of Mexico, produced by the Tick Amblyoma Maculatum.

It has also been reported in The British Columbia, the third most populated province of Canada, 57 cases between 1993 and 2016 being the most common vector the Tick Dermacentor Andersoni, the cases were found in both humans and animals.

Ticks Paralysis has also been described in animals such as: cats, dogs, cattle horses, sheep, and birds, being the Tick Ixodes Holocyclus the most involved. In fact, today this disease in Australia is considered a veterinary problem because of the large number of infected animals, and the main host of this is the mammal Long-Nosed-Bandicoot. [Long-noses-bandicoot mammal, most common host from Ixodes Holocyclus, Vector of Tick Parsysis in Australia.]

Unlike other diseases such as Lyme, Powassan and Heartland Disease, where the Tick involved Transmits a bacterium (Lyme) or virus (Powassan and Heartland) that infects the organism, in the case of Tick Paralysis (TP) it is a Neurotoxin that only remains in the organism while The Tick Is Adhered to the Skin Feeding With Blood, when taking it off the symptoms gradually disappear recovering the patient, even though the Lethality is of 10 - 12%.

Conclusion

So that I describe another disease Transmitted By Ticks, and I leave you the same reflection of my other reviews, the best way to Avoid Them, is not only to fight for human rights to receive adequate treatment Like The Case Of Lyme Disease, which have been Violated in many countries, especially in the US, we also have to fight against Vectors and Hosts.
REFERENCES


12) Barker, S.C., Walker, A.R., Campelo, D. A list of the 70 species of Australian ticks; diagnostic guides to and species accounts of Ixodes holocyclus (paralysis tick), Ixodes cornutus (southern paralysis tick) and Rhipicephalus australis (Australian cattle tick); and consideration of the place of Australia in the evolution of ticks with comments on four controversial ideas. (2014) Int J Parasitol 44(12): 941-953. PubMed | Crossref | Others


