Chagas-Mazza disease

Enfermedad de Chagas-Mazza

In 1909, Dr. Carlos Riveiro das Chagas discovered the disease in Brazil. In Argentina, Dr. Salvador Mazza, a pathologist, created the Argentine Regional Pathology Study Mission in Jujuy to identify and attend the sick. As a tribute, the disease was named after both of them.

**WHAT IS CHAGAS-MAZZA DISEASE AND HOW DO PEOPLE GET IT?**

Chagas-Mazza disease is a rural disease associated with a poor social environment, caused by *Trypanosoma cruzi*, a parasite that lives and reproduces in blood-sucking triatomine bugs (kissing bugs). The disease, also known as American trypanosomiasis, is one of the most important endemic diseases in America.

**WHERE ARE TRIATOMINE BUGS FOUND?**

The bugs are found in houses within mud walls and thatched roofs, in crevices in the walls and roofs, behind the furniture and in poorly cleaned areas.

**HOW MANY PEOPLE ARE INFECTED?**

In Argentina, about 1,500,000 people are infected, and 20% of them will develop heart disease. It is estimated that as many as 6 million people are infected in America, 300,000 in the United States and 100,000 outside the continent, as a consequence of regional migrations.

**HOW IS CHAGAS-MAZZA DISEASE TRANSMITTED AND WHAT ORGANS ARE AFFECTED?**

Triatomine bugs are insect vectors that carry the parasite and transmit it to animals and humans. After they bite, they defecate on the person causing itching; if the person accidentally scratches the feces into the bite wound, the parasite may enter the body. Pregnant women can transmit the disease to newborns and people can also get infected through blood transfusions, organ transplantation and accidental laboratory exposure. Domestic animals, such as dogs, cats and hens, can also get infected. The disease affects mainly the heart, but digestive organs and the nervous system can also be affected.

**HOW DOES THE DISEASE DEVELOP?**

Chagas-Mazza disease has an acute phase and a chronic phase. The acute phase can occur at the moment of inoculation. The chronic phase is initially asymptomatic, and then verifiable pathology develops in the heart (arrhythmias, heart failure), digestive organs (visceral enlargement, megaesophagus or megacolon) and in the nervous system.

**HOW IS CHAGAS-MAZZA DISEASE DETECTED?**

During the acute phase, direct methods detect the presence of *Trypanosoma cruzi* in the blood. In the chronic phase, the probability of finding the parasite in the circulation is low, and two out of three serological tests should be positive to make the diagnosis.

**HOW CAN CHAGAS-MAZZA DISEASE BE PREVENTED?**

Health promotion focuses on housing strategies, considering the following:

- Eradicating adobe houses
- Keeping the house clean (pictures and furniture) and sealing crevices
- House spraying with insecticides
- Keeping pets outside the house
- Health promotion and education in big cities and rural areas
- Control of pregnant women and newborns
- Control of blood transfusions
- Integral care of patients. Periodic control of chronic persons without v pathology

**REFERENCES**


**INFORMATION IN THE WEB**


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