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## Chagas disease: Congenital transmission vs. Neonatal exposure

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**Introdution:** Chagas disease is a potentially fatal disease caused by the protozoan parasite *Trypanosoma cruzi* (*T. cruzi*). It is endemic in large parts of Latin America, with a prevalence of approximately 1.4%.

**Clinic case:** A Brazilian pregnant, in Portugal for two years was diagnosed with Chagas disease and in need of permanent pacemaker implantation since 10 years because of her cardiac arrhythmia. Cardiac evaluation was done by electrocardiogram which in turn revealed atrio-ventricular sequential pacing rate and ecocardiograma was normal. Serology was performed for *T. cruzi* (IgG+ and IgM-) and eutocic delivery at 39 week induced by pre-eclampsia. Objective examination revealed no changes at birth. By transfontanellar and abdominal ultrasound no significant changes were found. Echocardiogram and electrocardiogram showed normal. Breastfeeding was given during the first week. Mother died the 9<sup>th</sup> day after delivery by ventricular fibrillation. Serology for *T. cruzi* at birth with IgG+ was without quantification, at two months, it showed positive quantitative serology which kept at five months and six months title in decline and at 10 months became negative. Parasitological direct examination and polymerase chain reaction to two, three, four and six months were negative. Infant remained asymptomatic with good evolution estaturo-weight and age-appropriate psychomotor development.

**Conclusion:** Chagas disease previously confined to endemic areas has become a major public health challenge in Europe. This is due to the migration of the last decades. The importance of correct and early diagnosis of congenital infection (1 to 10% of infants born to infected mother) is reflected in the specific treatment opportunity with high cure rates. Moreover the exclusion of congenital infection avoids the treatment and the associated side effects.

## Biography

Tania Sofia Leano Martins has completed her Medical Schooling from Medical School of Porto with 15 values and now is pursuing Pediatrics Specialty. She is a Trainer of advanced support of pediatric life as part of the Portuguese pediatric resuscitation group and Volunteer Teacher of pre-graduated Pediatrics practical and theory classes of Master's degree in Medicine from Oporto Medical Schools. She has attended several courses with evaluation like 11<sup>th</sup> European Post-graduate course in Neonatal and Pediatric Intensive care. She has presented several clinical studies in national and international conferences and published in the form of book chapter themes: Tuberculosis in pediatrics age and Neutropenia in Pediatrics.

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