

RESEARCH ARTICLE

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ELISA versus PCR for diagnosis of chronic Chagas disease: systematic review and meta-analysis

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Abstract

Background: Most current guidelines recommend two serological tests to diagnose chronic Chagas disease. When serological tests are persistently inconclusive, some guidelines recommend molecular tests. The aim of this investigation was to review chronic Chagas disease diagnosis literature and to summarize results of ELISA and PCR performance.

Methods: A systematic review was conducted searching remote databases (MEDLINE, LILACS, EMBASE, SCOPUS and ISIWeb) and full texts bibliography for relevant abstracts. In addition, manufacturers of commercial tests were contacted. Original investigations were eligible if they estimated sensitivity and specificity, or reliability –or if their calculation was possible – of ELISA or PCR tests, for chronic Chagas disease.

Results: Heterogeneity was high within each test (ELISA and PCR) and threshold effect was detected only in a particular subgroup. Reference standard blinding partially explained heterogeneity in ELISA studies, and pooled sensitivity and specificity were 97.7% [96.7%-98.5%] and 96.3% [94.6%-97.6%] respectively. Commercial ELISA with recombinant antigens studied in phase three investigations partially explained heterogeneity, and pooled sensitivity and specificity were 99.3% [97.9%-99.9%] and 97.5% [88.5%-99.5%] respectively. ELISA's reliability was seldom studied but was considered acceptable. PCR heterogeneity was not explained, but a threshold effect was detected in three groups created by using guanidine and boiling the sample before DNA extraction. PCR sensitivity is likely to be between 50% and 90%, while its specificity is close to 100%. PCR reliability was never studied.

Conclusions: Both conventional and recombinant based ELISA give useful information, however there are commercial tests without technical reports and therefore were not included in this review. Physicians need to have access to technical reports to understand if these serological tests are similar to those included in this review and therefore correctly order and interpret test results. Currently, PCR should not be used in clinical practice for chronic Chagas disease diagnosis and there is no PCR test commercially available for this purpose. Tests limitations and directions for future research are discussed.

Background

Chagas disease is an infection, in which the necessary cause is a parasite called *Trypanosoma cruzi*. This disease is endemic in Latin American countries and approximately 15 million people are estimated to be infected [1]. With progressive control of vector borne transmission in the majority of Latin American countries, [1] much attention has been given to the possibility of Chagas disease spread outside Latin America through blood donation and/or organ transplants, due to the

increasing migration of Latin Americans around the world [2]. Case reports of Chagas disease from countries in which this infection is not typically endemic, such as France[3], Canada[4-6], Switzerland[7], Denmark[8], Germany[9], USA[10-12], and Spain[13,14] indicate that in the appropriate clinical situation, Chagas disease should be considered as differential diagnosis not only in Latin Americans, but also in individuals who are not from Latin America.

One significant difficulty in diagnosing Chagas disease is that most patients have no symptoms in acute or chronic phase [2,15,16]. Another difficulty in diagnosis is that, unlike most infectious diseases, the direct or parasitological tests for Chagas disease (thick or thin

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Which Is Better Pcr Or Elisa For The Diagnosis Of Chagas Disease

Huangqi Zhang



Which Is Better Pcr Or Elisa For The Diagnosis Of Chagas Disease:

Neuroparasitology and Tropical Neurology Hector H. Garcia, Herbert B. Tanowitz, Oscar H. Del Brutto, 2013-07-03

Neuroparasitology and Tropical Neurology a new volume in The Handbook of Clinical Neurology provides a comprehensive and contemporary reference on parasitic infections of the human nervous system Parasitic infections are varied and some are resolved by the host's immune system other infections may become established even though unnoticed and some cause severe disease and death In our modern world neuroparasitoses are no longer geographically isolated and these infections now appear worldwide Outside of a very few well understood pathologies most parasitic infections have been neglected in the neurological literature and most neurologists have never diagnosed such an infection This volume details how with the advent of modern neuroimaging techniques improved diagnostic applications of molecular biology more accurate immunodiagnosis and minimally invasive neurosurgery human nervous system parasitoses are now diagnosed and treated with increasing frequency The book is divided into six sections and begins with an introduction to the mechanisms of infection diagnosis and pathology of parasitic diseases Subsequent chapters detail protozoan diseases and a section covering each of the major classes of human infecting helminths nematodes roundworms trematodes flukes and cestodes tapeworms The final section contains chapters on other important areas of tropical clinical medicine including the neurological complications of venomous bites and tropical nutritional deficiencies Neuroparasitology and Tropical Neurology will be of interest to neurologists neurosurgeons and other health professionals encountering patients with parasitic infections A comprehensive reference resource on the diagnosis and treatment of parasitic infections of the human nervous system Focuses on the impact of modern neuroimaging techniques improved diagnostic applications of molecular biology more accurate immunodiagnosis and minimally invasive neurosurgery to diagnose parasitoses International list of contributors including the leading workers in the field

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Chagas' Disease and the Nervous System ,1994 This publication presents an up to date and in depth review of the effects of Chagas disease on the nervous system highlighting the alterations seen in patients as well as the mechanisms by which the pathology is produced Following an overview of the public health problems posed by Chagas disease also known as American trypanosomiasis and how they are being addressed the book describes studies of specific alterations in autonomic peripheral and central nervous functions produced by chagasic infection in humans including children suffering from congenital infection The next section presents the latest findings on the possible role of the body's immune response in the genesis of nervous tissue lesions in Chagas disease The final two chapters discuss studies of nervous system pathology in two experimental models mice and monkeys and how they can enhance understanding of the infection in humans Researchers in immunology neurology and parasitic diseases will find this book to be a compendium of state of the art knowledge and it will provide physicians and other health professionals who may encounter persons afflicted with this widespread parasitosis with valuable insight into these patients conditions *WHO Expert Committee on Biological Standardization* World Health

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