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PROGRAMA Y RESÚMENES *** PROGRAM AND ABSTRACTS

EDITADO POR:

Pablo Atoche Peña M^a Angeles Ramírez Rodríguez

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<u>Seven thousand years of</u> <u>Trypanosoma cruzi infection in</u> <u>pre-Columbian Brazilian</u> <u>Indians, archaeological site of</u> <u>Abrigo do Malhador, Peruaçu</u> <u>Valley, Minas Gerais</u>

Valdirene dos Santos Lima¹ Rosa Koko Yotsuki² Alena Mayo Iñiguez² Luiz Fernando Ferreira¹ <u>Adauto Araújo¹</u> Ana Maria Jansen³ Ana Carolina Paulo Vicente²

 ¹ Escola Nacional de Saúde Publica, Fundacao Oswaldo Cruz. Brasil.
² Laboratorio de Biología de Tripanosomatideos, Departamento de Protozoologia, IOC/FIOCRUZ.

³ Laboratorio de Genética Molecular de Microorganismos, Departamento de Genetica, IOC-FIOCRUZ.

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Trypanosoma cruzi, the Chagas of ethiological agent eclectic and an disease, is paninfective Kinetoplastid. Human infection in Brazil has traditionally been associated as a consequence to European colonization. We tested the presence of T. cruzi DNA in two huntermummies: а Brazilian gatherer (AMI) dated of 4500-7000 years BP, and an agriculturalceramist (AMIII) dated of 600-1200 years BP. DNA was extracted from bone with commercial kit (BIO 101, Qiagen) and Polymerase Chain Reaction (PCR) used to amplify T. cruzi DNA. Fragments of miniexon gene (350bp) were amplified in AMI, and minicircle hypervariable region (330 bp) was amplified in AMIII. PCR products were cloned and sequenced. Sequence findings were similar to T. cruzi sequences in GeneBank. These results show that human T. cruzi infection predated European habits or sedentary that indicates and colonization acquisition of infection by T. cruzi may have occurred soon after human arrival in Brazilian lands.