Serological and molecular tests for the diagnosis of human brucellosis in workers in slaughterhouses in Rondonia in the Brazilian Amazon

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Brucellosis is a universal and re-emerging anthropozoonosis caused by bacteria of the genus *Brucella* spp., of the ten recognized species of *Brucella* spp., four are pathogenic to humans; *melitensis, suis, abortus* and *canis*. According to some authors to *B. melitensis* is not found in Brazil. As a diagnostic method of human brucellosis blood culture is the gold standard of diagnosis but difficult practical applicability. The Ministry of Health recommends using the Rose Bengal test [RBT] and ELISA [IGG and IGM]. The polymerase chain reaction [PCR] is an efficient and accurate method of DNA amplification. The Amazon region has not owned epidemiological data and Rondonia is endemic illness and compulsory health notification being recorded cases due to the presence of infected animals, especially in refrigerators workers. Objective is to develop and validate serologic and molecular tests for the diagnosis of human brucellosis in refrigerators workers in Rondonia. It is an observational prospective cohort study of human brucellosis in Rondonia performing laboratory tests Rose Bengal, ELISA and PCR in Rondonia State Central Laboratory [LACEN-RO] with rebuttal in Adolf Lutz Institute [ITA-SP]. Samples mishandled sera will be deleted. The data collected will be subjected to analysis in Microsoft Office Excel® spreadsheet and IBM SPSS Statistics Standard version 20°.

Biography

Heinz Roland Jakobi has graduated from the Federal University of Parana and obtained his Postgraduate degree from the Institute of Biological Sciences, University of São Paulo [ICB/USP] in Human Brucellosis research line. He is a Doctor of Health Sciences at UNB and Professor of Saint Luke School. He is a Former President of the National Association of Occupational Medicine Sectional Rondonia and Founding President of the Association of Gynecology, Obstetrics of Rondonia, the Spiritist Medical Association of Rondonia and Founding Member of Rondoniense Academy of Letters. He is also a former Treasurer of Rondonia Regional Medical Council and a Member of the Academy of Medicine of Rondonia and Rondonia Academy of Letters.

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