

Damage of encephalon holtzman rats submitted to immunosuppression and infected by *Trypanosoma cruzi*

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The american trypanosomiasis yet is a health public problem and the infection depend of each isolate of *Trypanosoma cruzi*, and was proposed the hypothesis of tropism to the SNC of any isolated. In this work was tested the infection grade of the encephalon of Holtzman rats on immunosuppression effects. Were used the Y isolated; PNM isolated and the CL-Brener clone, inoculated in Holtzman rats irradiated in 29 days old and inoculated in 30 days old. The animals were submitted to gamma irradiation 700 rad. The immunosuppression increase the parasitemy by *T. cruzi* on SNC for all analyzed isolated in relationship the controls animals. In these conditions not was verified neurotropism of *T. cruzi* like the literature, and the found parasitemy on SNC was little in relationship to literature data, perhaps by little time of parasite exposition.

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