

Assessing the risk zones of chagas? disease in chile, in a world marked by global climatic change

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© 2018, Fundacao Oswaldo Cruz. All rights reserved. **BACKGROUND** Vector transmission of *Trypanosoma cruzi* appears to be interrupted in Chile; however, data show increasing incidence of Chagas? disease, raising concerns that there may be a reemerging problem. **OBJECTIVE** To estimate the actual risk in a changing world it is necessary to consider the historical vector distribution and correlate this distribution with the presence of cases and climate change. **METHODS** Potential distribution models of *Triatoma infestans* and Chagas disease were performed using Maxent, a machine-learning method. **FINDINGS** Climate change appears to play a major role in the reemergence of Chagas? disease and *T. infestans* in Chile. The distribution of both *T. infestans* and Chagas? disease correlated with maximum temperature, and the precipitation during the driest month. The overlap of Chagas? disease and *T. infestans* distribution areas was high. The distribution of *T. infestans*, under two global change scenarios, sh