TITLE: SEARCH OF *Salmonella* spp. IN WILD RODENTS FROM THE ATLANTIC FOREST OF SOUTHERN BAHIA.

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ABSTRACT

Salmonellosis is one of the main public health zoonosis, caused by Salmonella spp., having as reservoir both humans and animals, which may be symptomatic and asymptomatic carriers of the disease. Asymptomatic wild animals can be vectors and important agents for microorganism permanency in the environment. It is, therefore, of a great zoonotic importance, especially in areas of preserved forest close to the rural properties, whose contact of these animals with humans is often frequent. This work aims to search Salmonella spp. in fecal samples from wild rodents from the Atlantic Forest located in southern Bahia. A total of 67 samples of rodent feces were collected from the following genres: Didelphis sp. (4), Hylaemys sp. (31), Marmosa sp. (21), Monodelphis sp. (3), Neocromys sp. (1), Oecomys sp. (2), Rhipidomys sp. (2), Thaptomys sp. (1), and unidentified species (1). The animals came from Cariri, Faraó, Japonesa, Jueirana, Nova Angélica, and Nasha, all located in the rural area of Una, Southern Bahia. The samples were sent to the microbiology laboratory of UESC Veterinary Hospital. Approximately 1 g of each sample was inoculated in Peptone Water and incubated at 37 ° C / 18 h for bacteria non-selective pre-enrichment and then they were inoculated in Rappaport-Vassiliadis Broth and incubated at 37 ° C / 18 h for Salmonella spp. selective enrichment. After this process, samples from Rappaport-Vassiliadis Broth were cultivated on XLD Agar, HE agar and Bismuth Agar plates. Suspect colonies were submitted to real-time quantitative PCR for confirmation of Salmonella spp., using specific primers for the genus. All samples were negative for Salmonella spp. through this methodology. Despite the negative result, the risk of disease transmission through wild animals (and also synanthropic ones) should be monitored, thus requiring more comprehensive studies on the zoonotic potential of these animals.

Key words: salmonellosis, zoonosis, wild animals, qPCR **Development Agency:** Fundação de Amparo à Pesquisa do Estado da Bahia - FAPESB