Abstract

This study aims to evaluate the prevalence of leptospirosis in stray dogs and cattle Sistan region using molecular methods were used. Leptospirosis is a zoonotic disease with worldwide distribution. To do this, sampling in the fall, winter and early spring from the blood of dogs and cows were Sistan region. The samples were stored in the freezer until testing. The DNA extracted from the blood to perform polymerase chain reaction (PCR) was used. DNA extraction and PCR reactions were performed and PCR products were analyzed on agarose gel electrophoresis and then was placed in the machine and the results were read. Stray dog population control and vaccination of livestock should be carried out and to determine the prevalence of leptospirosis in the human population research carried out in the Sistan region.

Keywords: *Leptospira*, Dogs, Cows, Sistan, polymerase chain reaction
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Survey of *Leptospira spp.* prevalence in dogs and cows in Sistan

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