

عنوان مقاله:

Biochemical parameters changes in infected dogs with Babesia canis in Urmia, Iran

محل انتشار:

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خلاصه مقاله:

The aim of this study was to evaluate the changes in the biochemical parameters in infected dogs with babesiosis in ۳ levels. The Babesia genus, as pathogen blood parasites, cause financial problems in livestock industry. Many published papers have suggested babesiosis-induced biochemical parameters, but no study has determined these parameters at four levels of parasitemia (less than ۱%, ۱%, ۲% and ۳%). Dogs with babesiosis were identified based on clinical signs and the observation in red blood cells. After blood sampling from ۳۸ infected and ۳۸ healthy dogs, biochemical parameters glucose paraoxonase, superoxide dismutase, catalase, glutathione peroxidase and adenosinedeaminas were measured in plasma. The results indicated significant increase and decrease in biochemical parameters. In conclusion, the results suggested that dog babesiosis causes cellular damage, especially in kidney and anemia in infected dogs. Furthermore, babesiosis caused kidney damage. This infection affected the activity of liver enzymes. The obtained results revealed a highly significant increase in serum Aspartate aminotransferase and Alanine aminotransferase.

کلمات کلیدی:

Canine babesiosis, Aspartate aminotransferase, Alanine aminotransferase, Malondialdehyde, Urmia

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