عنوان مقاله:

Serum Enzymes Studies in Scorpion (Hemiscorpius lepturus) Dose Related Envenomation in Rabbits

محل انتشار:

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خلاصه مقاله:

Hemiscorpius lepturus is medically important scorpion species present in the south and southwest part of Iran, causing morbidity and mortality in children and adults. Unlike other scorpions studied so far, the venom of H. lepturus is highly cytotoxic, that can be a reason for its complexity in clinical manifestations in patients stung by this scorpion. Scarce studies showed the mechanism involved in envenomation by H. lepturus. In the present study, H. lepturus venom in three doses of ۵۰, ۵۰۰ and ۱۵۰۰ µg/kg were subcutaneously injected into three separate groups of rabbits. Electrocardiograms of all the rabbits were recorded during the experiment. Blood collection was carried out before, one and three hours after venom injection. Serum was used for determination of alanine aminotransferase (ALT), aspartate aminotransferase (AST), lactate dehydrogenase (LDH), urea, creatinine, BUN (Blood Urea Nitrogen), creatine phosphokinase (CPK) and creatine kinase isoenzyme MB (CK-MB). In group ۱ rabbits although some change were observed in serum biochemical parameters following venom injection but statistically the changes were not significant. In group ۲ rabbits significant (P

کلمات کلیدی:

H. lepturus, Scorpion venom, Electrocardiogram, Biochemical disorders, Serum enzymes