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Biochemical and Clincopathological studies in Common Carp (*Cyprinous Carpio*, L.) Fish exposed to pollution by Heavy Metals

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Abstract : Heavy metals are persistent contaminants in the environment causing serious illness in fish, animals and human**.** Lead represents the main toxic element in nature. Lead has a tendency to accumulate in tissue and organs of exposed fish. The present study aimed to investigate the effect of lead pollution on fish with special reference to the hematological, immunological, serum biochemical parameters, where fifty healthy Common Carp fish were divided into 3 groups. Fish of gp1 served as a control. Fish of gp. 2 & 3 were used for the determination of acute lethal concentration dose and the pathological effect of lead on the exposed Common Carp. Blood samples were collected to obtain serum for biochemical studies and heparinized blood for hematological investigations. RBCs, Hb, HCt, and MCHC showed significant elevations, the serum GPT and GOT were increased significantly. L.D.H, glucose and cortisol were elevated, while serum cholesterol concentration was reduced significantly in high tem30^{o}C.

Key words : Lead pollution, Common Carp, Biochemical changes.

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