

## **Changes in serum lipids of mice experimentally infected with *Schistosoma mansoni*.**

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### **Abstract**

Serum samples of mice infected with 80 cercariae of *Schistosoma mansoni* for different time periods (2-20 weeks) were used in this study. It was observed that the concentrations of serum total cholesterol and triacylglycerol decreased significantly ( $P < 0.001$ ,  $P < 0.0001$  respectively) in infected as compared to control mice starting from the fourth week post infection. Similarly, the concentration of serum high density lipoprotein-cholesterol (HDL-C) decreased significantly ( $P > 0.001$ ) in infected as compared to control mice. However, the serum lipoproteins profile was variable at different stages of infection. On the other hand, the liver weight increased significantly ( $P < 0.0001$ ) in infected as compared to control mice starting from the sixth week post infection. These changes might be attributed to several metabolites released by *S. mansoni* which affect the host hepatic tissue resulting in decreased synthesis of these parameters and their release into the circulation