

# ALTERATIONS IN HEAMATO-BIOCHEMICAL PARAMETERS IN DIABETIC DOGS

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## ABSTRACT

The present study was conducted to estimate various blood/serum biochemical parameters in diabetic dogs in Jaipur region, of Rajasthan during April, 2022 to September, 2022. A total of two hundred dogs of different age group, sex, and breed with the history of polydipsia, polyphagia, polyuria, obesity, weakness or fatigue, rapidly developing bilateral cataracts, rapid weight loss or in combination thereof were screened. Blood samples of dogs suspected for diabetes mellitus were screened for blood glucose by using onsite glucometer. Those dogs showing fasting blood glucose level more than 140 mg/dl, were included for the present study. Ten healthy dogs were also included for healthy control group in the study. Based on screening test results, nine dogs were diagnosed as diabetic. Hematological profile of the diabetic dogs revealed neutrophilia, mild lymphocytopenia and significantly increased in mean corpuscular volume. The study also revealed significantly increased in serum glucose, ALT, AST, ALP, triglyceride, total cholesterol, BUN and creatinine in diabetic dogs.

**KEYWORDS:** Dog, Diabetes Mellitus, Serum Glucose, Glucometer