

RELATIVE CHANGES IN BLOOD BIOCHEMISTRY OF SPITZ DOG UNDER VARIABLE ILL HEALTH STATES

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ABSTRACT

A study was conducted in Spitz breed of dogs to evaluate relative changes in some blood biochemical and enzymatic parameters of clinical significance under some important health stress condition namely, dermatitis, gastroenteritis and ascites. Both ascites and dermatitis provoked marked hypoglycemia whilst hypercholesterolemia was indicated in dermatitis and gastroenteritis. Blood urea nitrogen was only increased in dogs with skin infections. Hyperglobulinemia with a concomitant marked reduction in A: G ration as well as remarkable rise in AST and ALT activity in gastroenteritic suffered dogs may be of diagnostic value. Ascitic condition was indicated by a marked hypoalbuminemia and a steep rise in enzymatic activity. Such changes in profiles may be explored as marker to characterize disease or infection in dogs.

KEYWORDS: Blood Biochemistry, Ascites, Gastroenteritis, Dermatitis, Spitz Dog