**COMPARATIVE STUDY OF DIFFERENT BIOCHEMICAL BLOOD PARAMETERS IN PREGNANT AND NON PREGNANT CATTLE OF CHITTAGONG, BANGLADESH**

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**This clinical report submitted as per approved style and content**

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**Comparative study of different biochemical blood parameters in pregnant and non pregnant cattle of Chittagong, Bangladesh**

**ABSTRACT**

Blood parameters are important for indicating the condition of the particular animal. Various blood parameters vary from species to species. But in same species, it may vary in different conditions like pregnancy, lactation, disease condition, age etc. In Pregnant condition, various physiological changes occur. As a result, the blood parameters level of pregnant cattle varies from the blood parameters level of non pregnant cattle. The biochemical blood parameters of cattle were determined in hundred cattle consisting of fifty pregnant cattle and fifty non pregnant cattle. The analysis of the various parameters of the blood of pregnant and non pregnant cattle was conducted by biochemical analyzer (Humalyzer-3000) for the comparison of the blood parameters of pregnant and non pregnant cattle. In the present study, the pregnant cattle glucose level was 66.82 ± 6.35 (mg/dl), total protein level was 81.58 ± 2.16 (gm/l), albumin level was 16.99 ± 2.49 (gm/l), calcium level was 23.23 ± 2.43 (mg/dl) and phosphorus level was 6.51 ± .28(mg/dl). Besides, the non pregnant cattle glucose level was 62.76 ± 6.76 (mg/dl), total protein level was 83.78 ± 2.01 (gm/l), albumin level was 24.58 ± 4.98 (gm/l), calcium level was 0.22 ± 1.91 (mg/dl) and phosphorus level was 7.19 ±.44 (mg/dl). According to the statistical analysis, it was concluded that there was insignificant difference present between the blood parameters of pregnant and non pregnant cattle.

**Key words:** Blood parameters, pregnant, non pregnant.

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