**Mahibullah, M. (2015), Clinical Assessment of Metabolic Profile of Lactating Dairy Cows in Different Number of Lactations.**

**ABSTRACT**

The present work was conducted with the aim of assessing the metabolic profile of a herd of cross breed dairy cows during the postpartum period, using the blood metabolic profile, and comparing two groups of animals, each with 11 cows and one with cows in 1-2 lactations (group 1) and the other one with cows in 3 or more lactations (group 2). The herd was located in Chittagong, Bangladesh. Blood samples were collected from the postpartum dairy cows and serum was separated. Seven components of blood serum were determined by Auto Analyzer. Older cows had a tendency of lower calcium levels than younger cows. There was no significant difference of magnesium levels between cows with 1-2 lactations and cows with 3 or more lactations. The serum phosphorus level was significantly higher in group 1 than group 2. In group 1 cows the serum total protein values was elevated than group 2 cows. The glucose level was significantly higher in group 2 cows than the group 1 cows. The serum cholesterol and triglyceride values were elevated in 3 or more lactations cows than 1 or 2 lactations cows.

**Key words:** Metabolic profile, dairy cattle, lactation number, calcium, phosphorus, magnesium, total proteins, glucose, cholesterol and triglyceride.