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Evaluating serum level of calcium, magnesium, phosphorus and alkaline phosphatase at 0, 24, 48 and 72 hours after calving in Holstein calves

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Calcium, magnesium, phosphorous and phosphatase alkaline enzyme is an important enzyme in body that do many physiological activities and is one of important elements of skeleton structure. On the other hand beestings is one of the important compositions for newborn calf, especially in first 6 hours. In this study, serum standards of calcium, magnesium, phosphorous and alkaline phosphatase have been examined at 0, 24, 48 and 72 hours after the birth of Holstein cows. Serum standards of these elements and enzyme before and during parturition in mother have been examined. Serum standard of calcium in mother before and during parturition have been in the least amount in competition to other times ($P<0.05$). Serum average of this element in calf in 24, 48 and 72 hours after birth relative to mother and calf in the time of birth had meaningful increase. Serum amount of phosphorous in mother during parturition was in the least amount. In calves after birth and 24, 48 and 72 hours after birth the phosphor increases and this increase is meaningful ($P<0.05$). Serum amount of magnesium before and during parturition in mothers were low to calf's, but in calves during birth had meaning full increase when compared to mother ($P<0.05$) and this increase last from 24 to 72 hours, so that statistical comparison of serum amount of magnesium in calves showed statistical increase in 24, 42 and 72 hours to birth time and mother ($P<0.05$). The amount of this enzyme before and during parturition in mothers is more than calves. The comparison of serum amount of this enzyme showed meaningful decrease ($P<0.05$) in calf during birth and 24, 48 and 72 hours after birth to mother before and during parturition.

Biography

Amouoghli Tabrizi B has completed his PhD from the Department of Clinical Sciences- Science and Research Branch, Islamic Azad University, Tehran, Iran. He is a Member of Faculty of Veterinary Medicine, Tabriz Branch, Islamic Azad University, Iran. He has published more than 20 papers in reputed journals.

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