

عنوان مقاله:

The maternal B complex vitamin injection improves the plasma biochemical parameters in the Sannen goats and their kids

محل انتشار:

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خلاصه مقاله:

B vitamins improve animal performance through promote a wide range of metabolic pathways in animals as cofactors. Therefore, the impact of B-complex vitamin injection on plasma biochemical parameters in pregnant Sannen goats and their newborn kids during the transition period was investigated. The pregnant goats (3 years old) were randomly divided into two groups: control (No B complex vitamins injection) and B complex vitamins (5 ml B complex vitamins injection per animal). B complex vitamins were injected twice intramuscularly into goats, according to the manufacturer's recommendation, during five- and three-weeks prior kidding. Blood samples of goats and newborn kids were taken seven days after parturition and measured for plasma biochemical parameters. According to the results, Higher ($P < 0.05$) levels of low-density lipoprotein, very-low-density lipoprotein, and glucose, as well as lower ($P < 0.05$) levels of cholesterol and high-density lipoprotein were observed in goats injected with B complex vitamins than in the control group. However, plasma biochemical factors in newborn kids between the two treatment groups did not differ ($P > 0.05$). These results suggest that B complex vitamin injection is required for optimal pregnant goats

کلمات کلیدی:

B complex vitamin, Biochemical parameters, Newborn kid, Sannen goat, Transition period

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