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Title: Assessment the alterations of some biochemical parameters in Afshari sheep with possible metabolic disorders

Author: Samad Lotfollahzadeh Amir Zakian Meysam
Tehrani-Sharif David George Watson



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- The serum concentrations of glucose, calcium, phosphorus, sodium, magnesium, total protein and albumin in pregnant ewes with NEB were significantly lower than those in pregnant ewes without NEB ($P < 0.05$), but the serum levels of BHB, urea, creatinine, GGT activities, AST activities, cholesterol, triglycerid, fibrinogen, TAC and TBARS in pregnant ewes with NEB were significantly higher than pregnant ewes without NEB ($P < 0.05$).
- The mean values of serum BHB, urea, creatinine, ALT activities, AST activities, cholesterol, triglycerid, TAC, TBARS and fibrinogen in twin pregnant healthy ewes were significantly higher than singleton pregnant ewes ($P < 0.05$).
- A significant positive correlation between serum urea and BHB concentration ($r = 0.86$) and also a negative correlation between serum urea and glucose concentration in pregnant ewes ($r = -0.49$) were found.
- Correlation was also positive between serum urea and AST activities in pregnant ewes in this study ($r = 0.61$).

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