

# Effect of Insulin on Function, Meat Quality and Blood Properties in Talesh Sheep

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**Abstract:** This investigation was performed for checking out the effect of different levels of insulin on the function and blood parameters of Talysh breed of sheep with 4 treatment and 3 replicate with in vivo method during 4 months. Insulin injection was done 3 times a week in the morning, subcutaneously in 4 levels ( 0 1 2 3). Injection rate of insulin was gradually increased so that 2 units was added to each level except control. To prevent possible risks of insulin shock sugar rate was continuously measured before and after the injection . The most and the least feed intake was related to treatment of 3 to 5 units of insulin ( 3497/07 gr/day ) and control ( 3393/04 gr/day ).The most and the least weight gain was related to treatment of 2 to 4 units of insulin (112/09 gr/day ) and control ( 98/17 gr/day ). Increase of blood sugar rate of control after the forage was the least (5/21 mg/dl) and treatment of 3 to 5 units of insulin was the most ( 7/41 mg/dl ). Decrease of blood sugar rate by insulin after forage consumption , control was the least (2/31 mg/dl) and treatment of 3 to 5 units of insulin was the most ( 6/92 mg/dl ) . The most cholesterol (65/00 mg/dl) and triglyceride ( 43/00 mg/dl ) was related to treatment of 3 to 5 units of insulin and the least cholesterol ( 54/33 mg/dl ) and triglyceride ( 16/67 mg/dl ) was related to treatment of 1 to 3 units of insulin .

**Keywords :** Keywords: Insulin, Function, Talysh breed of sheep, Blood parameter

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