Abstract

Severe metabolic changes in fresh cows and produce full bed disease and economical losses in the industry absorbers. Including risky diseases that most important ketosis course of the disease, especially in the early period of lactation dairy cows can be seen. Ketosis to reduce production, decreased milk protein, lower levels of fertility in the herd, the large number of cows affected, increasing the forced removal and impose huge costs of treatment causes great economic losses to the dairy farming industry. Given the importance of this disease and the need for specific breeds resistant and native selectivity This study aimed to evaluate the energy index changes in the first 60 days of lactation in Holsteins and Sistani was designed. In this study of 40 Holstein cows in the traditional city of Zabol and semi-industrial farms and 40 beef cattle breed Sistani in the center of al-Sistani, who had postpartum 9-2 weeks, blood samples were taken from jugular vein and the beta-hydroxy butyric acid, cholesterol, triglycerides and glucose were measured. The results of this study show that the incidence of subclinical ketosis in HOLSTEIN 5/67% (27 head) and cattle breed Sistani 5.7% (3 vertices) is. The results show that in the first 60 days after the birth of cholesterol in HOLSTEIN COWS Sistani is greater than the difference was not statistically significant (P = 0.497). The triglyceride level (P = 0.000) and beta hydroxy butyric acid (P = 0.039) in Holstein cattle is more than Sistani cows that these changes are significant relative to each other. In addition HOLSTEIN more likely to develop ketosis than cows breed Sistani in different weeks after calving. Sistani herd of Holstein cows glucose concentration is lower than that this test is not statistically significant (P = 0.426). The results also show that the energy indicators based on parity than in HOLSTEIN COWS Sistani has further increased and is significantly (P≤ 0.05).

Keywords: Beta-hydroxy butyric acid, ketosis, Cattle breed Sistani, Cow Holstein, Triglycerides, Cholesterol, Glucose
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Comparison of energy index changes induced by ketosis in sistani and Holstein cows

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