

## عنوان مقاله:

The Effects of Central Ghrelin on Serum Parameters Related to Energy Metabolism in Neonatal Chicks

## محل انتشار:

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## خلاصه مقاله:

**BACKGROUND:** Ghrelin is a regulatory peptide with endocrine and metabolic effects in mammals and birds. **OBJECTIVES:** The aim of this study was to investigate the possible effects of intracerebroventricular (ICV) injection of ghrelin on the plasma level of some hormones and biochemical indices involved in the energy balance of neonatal chicks. **METHODS:** Intracerebroventricular injection of ۲۰ or ۴۰ pmol ghrelin/individual was done. Blood samples were collected from the jugular vein ۱۵ and ۳۰ minutes after the ICV injection of ghrelin to measure serum parameters. **RESULTS:** The ICV administration of ۲۰ and ۴۰ pmol ghrelin/individual had no effects at ۱۵ min post-injection, but at ۳۰ min post-injection, the triiodothyronine (T<sub>3</sub>) level significantly decreased in a dose-dependent manner. The leptin level also declined significantly compared to that of the control group. There were no significant changes in other parameters, including insulin, T<sub>4</sub>, triglyceride, cholesterol, and glucose. **CONCLUSIONS:** It can be concluded that the changes that occurred in T<sub>3</sub> and leptin levels may have been due to the effects of ghrelin on the metabolic rate and (food intake (concerning T<sub>3</sub>) and the parallel action of ghrelin and leptin (concerning leptin

## کلمات کلیدی:

Central, Energy metabolism, Ghrelin, Neonatal chicks, serum parameters

## لینک ثابت مقاله در پایگاه سیویلیکا:

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