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Effect of Artificial Unilateral Ureter Total Obstruction on Serum Cystatin-C Levels in Oryctalagus Cuniculus

Abstract

The objective of this study was to determine the effect of artificial unilateral ureter total obstruction on serum Cystatin C levels in Oryctalagus cuniculus. Cystatin-C is a non-glycosylated protein with low molecular-weight (13.36 kD) derived from cystatin super-family of cysteine protease inhibitor. This substance is synthesized constantly by all nucleated cells and not influenced by inflammatory processes, infectious diseases, lean body mass, fever, age, gender or dietary factors. Twenty-two Oryctalagus cuniculus were divided into two groups, 11 were performed artificial unilateral ureter total obstruction and others were performed sham operation as control group. Data of serum cystatin-C were collected on pre-operation, day 7 and day 14 from each sample. Serum Cystatin C levels were analyzed with Sandwich ELISA. The data were statistically analyzed with t test. Results showed that the mean serum Cystatin C levels of the male, 3-month old Oryctalagus cuniculus was 0.00671 ± 0.00558 mg/L, day 7 after intervention was 0.01051 ± 0.00536 mg/L and day 14 was 0.019 ± 0.01005 mg/L as examined with Sandwich-ELISA. In conclusion, there was no significant increase of serum Cystatin C on day 7, but by the 14th day a significant increase of serum Cystatin C was observed. There was no significant difference in the increase of serum Cystatin C on day 7 in the intervention group compared to the control group, but there was a significant difference in the increase of serum Cystatin C on the day 14.

Keyword : serum, cystatin-C, level, artificial, unilateral, ureter, total, obstruction, orictalagus, cuniculus,