P16) EFFECT OF AN ENERGY RESTRICTED DIET IN WEIGHT LOSS AND HAPTOGLOBIN CONCENTRATION IN BEAGLE DOGS

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dogs enrolled in a weight loss program (WLP). Dietary supplement of sc-FOS has already been on weight loss, biochemical parameters and serum haptoglobin concentration in experimental of two levels of short chain-frucrooligosaccharides (sc-FOS) included in an energy-restricted diet decreased inflammatory markers when submitted to weight loss. This study investigated the effect Obesity promotes a low-grade inflammatory state in humans and obese dogs have showed healthy dogs and in decreasing insulin resistance in obese ones shown effective in lowering the post-prandial glucose, urea and triglycerides concentration in

ment and monthly to measure total plasma cholesterol, triglycerides, free fatty acids, glucose and energy-restricted diet (as fed: 34% crude protein, 9.5% fat and 12.0 kJ ME/g). Control group (C) Twelve obese Beagle dogs were randomized into two groups and submitted to a WLP with a dry received 3% DM. Body weight, BCS and blood collection were carried out before and after treatreceived 1% DM sc-FOS, as included in the diet by the manufacturer, whereas test group (T) insulin; serum leptin and haptoglobin were measured only before and after WLP.

meters with the exception of FFA and glucose. However, when these reductions were compared The two groups showed no differences in BW and blood parameters before treatment. When valbetween C and T groups, significant differences were detected only for haptoglobin (T before vs ues before and after treatment were compared, significant reductions were observed for all paraitive correlations between haptoglobin and cholesterol, triglycerides and glucose were observed T after: 1545 vs 605 mg/L, P=0.03; C before vs C after: 1635 vs 1400 mg/L, P=n.s.). Moreover, pos-

strictly associated to the raise of obesity-related biochemical parameters; however, it ameliorates Results suggest that excess body fat in dogs may trigger an inflammatory condition which is when 3% DM sc-FOS is included in the energy-restricted diet.