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**Effect Pregnant and Non-Pregnant on Haematological and
Biochemical Parameters of Qatari Goats in Iraq**

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Abstract

This study was conducted in one of the animal farm, province of Baghdad, January 2019. This experiment included 10 (5 pregnant and 5 non-pregnant), Qatari goats. The blood samples for hematological, biochemical, plasma minerals and hormones assay. Excluding data for MCHC, lymphocyte and Eosinophil in pregnant goats showed higher significant differences ($P \leq 0.05$). All other hematological parameters showed higher significant differences ($P \leq 0.05$) in non- pregnant. Glucose, albumin ALT, AST, Alkalina Ph, Cholesterol, Triglycerides, HDL and VLDL exhibited higher significant different ($P \leq 0.05$) pregnant females goats. Urea was showed increased significant different ($P \leq 0.05$) non-pregnant female goats. Calcium and magnesium were increased significantly different ($P \leq 0.05$) higher in pregnant. Highest ($P < 0.05$) level of progesterone and testosterone concentration was recorded in pregnant, and lowest in non-pregnant. Estradiol-17 β concentration was significantly ($P \leq 0.05$) increased in the non-pregnant group as compared with

pregnant group. The rest of the parameters were showed no significant different ($P \leq 0.05$) between pregnant and non- pregnant. In conclusion, effects of pregnant and non-pregnant were noticed on biochemical, minerals parameters as well as some hematological .levels hormones of Qatari goats in Iraq

Keywords: Pregnant, non-pregnant, haematological, biochemical parameters, minerals, hormones, Qatari goats