



## Diagnostic, Hematological and Therapeutic Studies on Theileriasis in Cattle in Babylon

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**Abstract :** The target of this study is to evaluate hematological changes in theileria in cattle and to evaluate the efficacy of some drugs in treatment it. 24 cows divided in to four group ,first is control ,second is infected showed clinical signs varied from rise of body temperature, nasal and ocular discharge, corneal opacity, diarrhea, pale mucous membranes, associated with enlargement of lymph nodes in some cases,third is treated with butalax and fourth with oxytetracycline and butalex, The obtained results showed a significant ( $P<0.05$ ) decrease in haemoglobin, packed cell volume and white blood cells counts compared to the control group... The hematological parameter showed the Hypochromic macrocytic anemia with significant decreases in Hb( $6.4833\pm 0.9152$ ) g/l, PCV( $23.666\pm 2.7325$ )%, MCHC ( $25.4000\pm 1.5231$ )%, RBCC( $3.7333\pm 0.80911$ ) $10^6/mm^3$ , WBCC( $5.5833\pm 0.60470$ ) $10^6/mm^3$ , neutrophils ( $20.3333\pm 1.63299$ )% while recorded a significant increases in the lymphocytes ( $77.4833\pm 4.01020$ )% MCH( $10.8333\pm 1.47196$ ) and MCV( $60.333\pm 3.0767$ )fl Various formulations have been used for the treatment of theileriosis. Among these, Buparavaquone has been considered as the drug of choic in case acute and oxytetracycline and Buparavaquone in case chronic.

**Key words:** hematological, cattle, oxytetracycline, butalex.