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**ACUTE PANLEUKOPENIA IN DOMESTIC CATS: CLINICAL,
HEMATOLOGICAL AND BIOCHEMICAL STUDIES**

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Received: 10 May 2024; **Accepted:** 16 July 2024 **ABSTRACT**

Feline panleukopenia in Basrah, Iraq was suspected and diagnosed in (68) non-vaccinated domestic cats when animals showed signs of the disease. Fifteen (15) normal healthy domestic cats were considered as the control. The disease was diagnosed primarily via the Rapid test kit (Nasal swab test). Although this test is certain and approved for detecting the infection, it was further confirmed using the ELISA test. The results indicated that all suspected cats (68) were positive (100%) for both tests. Diseased cats showed loss of appetite and depression, vomiting, diarrhea mixed with mucus and/or blood, different degrees of dehydration, congested mucus membranes, weakness, and emaciation. Moreover, the animal mouth became severely congested with few erosive lesions. Hematological changes indicate significantly lower values of total platelet count and significant leukocytopenia with significant lymphocytopenia and monocytopenia in diseased cats than in controls. Moreover, hypoproteinemia with a significant increase of AST, BUN, and ALP, were noticed in diseased cats compared with normal healthy control. It was concluded that Feline panleukopenia in Basrah, Iraq needs more attention, and control measures should be applied and approved .

Key words: Panleukopenia, Diagnosis, Basrah, Iraq