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KEY WORDS)

- ✓ URINARY TRACT INFECTION
- ✓ CLİNICAL PATHOLOGY
- ✓ CYTOLOGY
- ✓ RENAL DYSFUNCTION
- ✓ STRUVİTE CRYSTALS

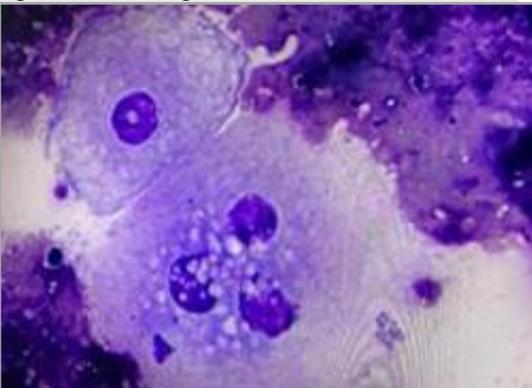
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THESIS ABSTRACT

. This study aimed to evaluate the clinical, hematological, biochemical and cytological findings of urinary tract infections in cats collectively. Materials and Methods: A total of 10 cats of different ages and breeds presenting with clinical signs including hematuria, pollakiuria, stranguria, anorexia, and weight loss were included in the study, along with 10 healthy cats as a control group. Urinalysis (dipstick and microscopy), hematological examination (IDEXX PROCYTE), and biochemical analysis (IDEXX CATALYST) were performed for all cases. Results: Urinalysis revealed proteinuria (+2/+3), hematuria (Hb +2/+4), leukocyturia (+2/+3), and nitrite positivity in some cases. Cytological examinations demonstrated the presence of erythrocytes, epithelial cells, bacteria, and struvite/calcium oxalate crystals. In some cases, although antibiogram results were negative, the presence of bacteria on cytological examination was noteworthy. This finding indicated that culture results alone may not be sufficient for diagnosis and highlighted the critical importance of visual evaluation in clinical pathology. Hematological findings showed leukocytosis and neutrophilia in some cases, while anemia was recorded in advanced cases. In biochemical analyses, creatinine levels were mostly within normal limits, whereas urea levels were measured above 130 mg/dL in some cases. SDMA values ranged between 8 and 48 µg/dL, and elevated values were found to be associated with renal dysfunction. Conclusion: FLUTD and renal dysfunction may occur concurrently in cats. Symmetrical dimethylarginine (SDMA) and urea values can be used as early indicators of renal dysfunction. Inconsistencies between culture and cytology results emphasize the importance of visual clinical pathology in the diagnostic and treatment processes.

ACADEMIC ACTIVITIES

Poster Presentation, XII National and III International Veterinary Pathology Congress (VETPAT2025)