



KEY WORDS

- ✓ Cat
- ✓ Cytology
- ✓ Dermatology
- ✓ Diagnosis
- ✓ Skin lesions

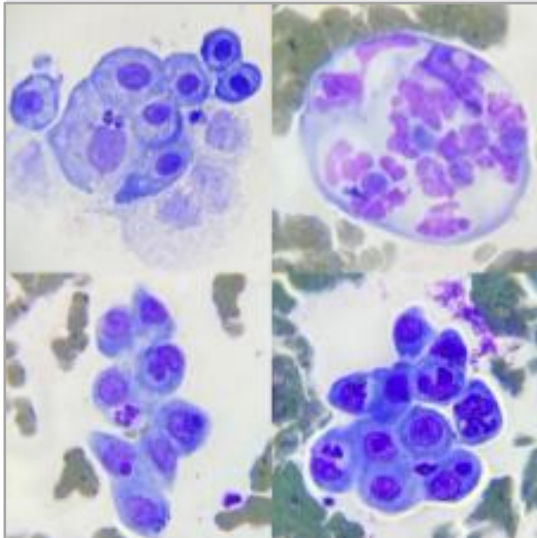
CONTACT

E-MAIL:
nergiscakirgoz@gmail.com

THESIS SUPERVISOR

TELEPHONE:
+90 533 646 03 99

E-MAIL:
aakkoc@uludag.edu.tr



CYTOPATHOLOGIC ASSESSMENT OF DERMATOLOGICAL LESIONS IN DOMESTIC CATS

NERGİS ÇAKIRGÖZ

0009-0009-4835-985X

BURSA ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
VETERINARY PATHOLOGY DEPARTMENT
MSc PROGRAM

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SUPERVISOR

Prof. Dr. Ahmet AKKOÇ
0000-0002-5090-7917
BURSA ULUDAĞ UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
VETERINARY PATHOLOGY DEPARTMENT
BURSA – TÜRKİYE



THESIS ABSTRACT

This study aimed to determine the diagnostic value of cytological examination methods in cats with skin lesions. The study material consisted of 20 cats presenting with dermatological lesions. Depending on the characteristics of the lesions, samples were collected using impression smear and skin scraping techniques, stained with Wright's stain, and evaluated by light microscopy. Cytological examination primarily revealed neutrophilic inflammation, bacterial colonization, and eosinophilic infiltration. In addition, findings consistent with fungal and parasitic agents, as well as autoimmune and neoplastic processes, were identified. In conclusion, cytological examination was considered a rapid, cost-effective, and minimally invasive diagnostic approach for the evaluation of dermatological diseases in cats.

APPLICATION AREAS OF THE THESIS RESULTS

The rapid, cost-effective, and minimally invasive nature of impression smear and skin scraping techniques enables their use as part of routine dermatological examinations, particularly in veterinary clinical practice. Cytological findings may contribute to clinical decision-making by guiding treatment selection and identifying cases that require further diagnostic investigation.

ACADEMIC ACTIVITIES

1. Çakırgöz, N. (2026). *Acute myeloid leukemia in a cat: Diagnosis, treatment and remission*. 9th International Food, Agriculture and Veterinary Sciences Congress, 03–05 April 2026. Oral presentation (online).