

**Ultrasonographic diagnosis of pyometra on bitches: a preliminar study**

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**Abstract:**

Pyometra in bitches, as a chronic inflammatory reaction, is accompanied with changes on endometrium and its gland, which are evident. On the other hand, pus filled the lumen of the uterus, doing this disease dangerous for life of an animal. These changes, as the recent studies show, are under the effects of a changed endometrial vascularization. The aim of this study was to evaluate ultrasonography techniques as a helpful tool in diagnosing of pyometra, especially closed - cervix pyometra.

In fifty -nine bitches with clinical symptoms or suspicion for pyometra an ultrasonography examination was performed. Clinical examination, laboratory tests and morphological control of animals were performed, as well. Forty-nine bitches (83.05%) manifested muco-serous -purulent vaginal discharged, 81,35% of animals manifested anorexia, 38.9% with polyuria and 22.03% with polydipsia. Pyrexia was manifested in 23,4% of bitches ( $>40.0^{\circ}\text{C}$ ), heart rate was higher in 29.8% of bitches (mean 123 beat/min) and 51.06% of them manifested high breathing rate (mean 33 respiration rate/min).

Ultrasound examination was confirmed in 100% of bitches with open - cervix pyometra and 88.1% (52) of cases with closed - cervix pyometra. After examination ovariohysterectomy was realized. Samples for histopathological examination from horns of uteri were collected.

It is thus concluded that ultrasonography technique is a very helpful tool in diagnosing of pyometra, especially when there are suspicious cases or closed-cervix pyometra. It has potential to support clinical results and to help saving of an animal's life.

**Biography**

Martin Llazani graduated from Agricultural University of Tirana, Albania in 2012. The consecutive years he worked as veterinary practitioner treated pet animals in Pet Hospital, Tirana, Albania. He started PhD studies at the Faculty of Veterinary Medicine in 2013. He has been in one month training with CEEPUS program near University of Veterinary Medicine, Vienna Austria. He has been for a 6 months period with ERASMUS program at the Faculty of Veterinary in Turin, Italy. Furthermore he completed a certificate in both ultrasonography diagnosis and critical and emergency care near the Pet Hospital.

<https://www.hilarispublisher.com/animal-health-behavioural-science.html>

## Publications

1. Martin Llazani, Alketa Qoku Luljeta Dhaskali (2021). “Laboratory findings, vaginal cytology and histopathology in bitches with Cystic endometrial hyperplasia – pyometra complex”. European Journal of Biology and Biotechnology ISSN (on line) Vol.2 Issue 3 2021 pp 61-63
2. Martin Llazani, Alketa Qoku Luljeta Dhaskali. “Laboratory findings and imagery diagnosis of pyometra in bitches”. Albanian Journal of Agricultural Sciences (AJAS). Volume 32 May (2021).
3. Martin Llazani, Blendi Heta, Alketa Qoku Luljeta Dhaskali. “Diagnosis and medication of pyometra in female dogs”. Anglisticum Journal, International Journal of Literature, Linguistics & Interdisciplinary Studies. Volume May, 2021.
4. Martin Llazani, Alketa Qoku, Luljeta Dhaskali “Ultrasonographic diagnosis of pyometra on bitches: a preliminary study”. World Congress on Veterinary Medicine 26 - 27 May 2021 Dublin Ireland
5. Martin Llazani, Alketa Qoku, Luljeta Dhaskali “The clinical signs and cytological diagnosis of pyometra in bitches”. World Congress on Veterinary Medicine 26 - 27 May 2021 Dublin Ireland

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