

## Ozone applications in veterinary oncology.

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ABSTRACT

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### PURPOSE

To evaluate the clinical improvement of 6 patients –three dogs, two cats and a *Panthera leo krugeri* diagnosed with neoplastic pathologies treated with ozonotherapy under adjusted protocols for each patient.

### CASE PRESENTATION

Six patients were presented to veterinary consultation for the diagnose of different injuries using cytology, blood examination and imagenology in some cases. According to the diagnose (a female dog with an ulcerated mammary adenocarcinoma, another with vaginal adenocarcinoma, a male dog with basal cells tumour in the scrotum, a male cat with low grade linfoma and hepatic injury, another male cat with squamous cells carcinoma (SCC) and a male white lion with a melanoma in the lower eyelid) the ozone protocol was established using combinations of local infiltration, topic instillation of ozonized oil, major and minor autohemotherapy, ozonized drinking water, rectal insufflations and bagging technicque. The results showed an improvement of general state of the patients: increase of appetite and activity in all of them, decrease size of tumour in two patients, healing of ulcers, total remission of the basal cells tumour. Ozone therapy is the elective linfoma treatment due to the hepatic injury in this patient, who remains stable in terms of linfoma but his hepatic injury presents evidence of improving. In patient 6 –the lion with melanoma- zookeepers report absence of exudate and pruritus.

### DISCUSSION

There are not enough reports of the use of ozone in oncological veterinary patients (1) but there are many preclinical papers and human case reports about ozone for cancer treatment (2,3,4,5)

### CONCLUSION

Based on that, it is posible to conclude that established protocols were capable of improve quality of life of the patients avoiding metastatic process and tumoral growth.