Oral, topical, and inhalation of *Calcarea carbonica* derivative complex (M8) to treat inflammatory mammary carcinoma in dogs

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ABSTRACT

Background: Inflammatory mammary carcinoma (IMC) is locally aggressive, fast growing, highly malignant tumor that affects humans and dogs. Affected dogs usually are presented with generalized edema, pain, erythema, and skin ulceration in mammary glands. Surgery is not recommended and an effective treatment has not been established [1]. *Calcarea carbonica* derivative complex (M8) has demonstrated anticancer properties in a murine model, by improving innate immune response against tumor cells [2]. M8 is a complex high diluted medication comprised of *Calcarea carbonica* 16x, *Aconitum napellus* 20x, *Arsenicum album* 18x, *Asa foetida* 20x, *Conium maculatum* 17x, *Ipecacuanha* 13x, *Phosphorus* 20x, *Rhus toxicodendron* 17x, *Silicea* 20x, *Sulphur* 24x, and *Thuya occidentalis* 19x, dilution procedures have followed standard methodology described at the Brazilian Homeopathic Pharmacopoeia.

Aims: To describe different routes of M8 administration associated with oral pyroxicam (non-steroidal anti-inflammatory drug) to treat dogs with IMC.

Methodology: Three female dogs with 10 years old median age were presented to the Veterinary Teaching Hospital at Federal University of Parana, Curitiba (HV-UFPR) with cytological and clinical diagnosis of IMC. Patients were treated with oral (0.5 mL,q12h), topical (q12h) and inhalatory (2 mL, q24h, through an ultrasonic inhalation device) M8, and oral pyroxicam (0.3mg/kg, q24h).Thoracic radiographs showed pulmonary metastasis in all dogs.

Results: 7 days after initiating treatment all patients had clinical improvement. It was observed reduction on mammary glands inflammation and decreased pain sensitivity. One patient had 8 month of complete remission. The other two patients died 1 and 2 month after initial treatment. However none of the patients had pulmonary progressive disease, showed by radiographic examinations. Owners revealed treatment satisfaction in regards to quality of life improvement, easy M8 administration, good M8 palatability for dogs, and inflammation reduction.

Conclusion: The present report suggests that M8 influenced positively the anti -inflammatory treatment.

Keywords: *Calcarea carbonica* complex; inflammatory mammary carcinoma; routes of administration

References

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