Observation on Clinical and Therapeutic Aspects in Canine Malign Histiocytoma

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Abstract. In the present study 14 dogs with malign histiocytoma have been taken in observation. The appearance and development of tumor formations has been consigned in a time interval between (2-7) months. The described localizations in our study casuistry were: 8 cases with skin form, 2 cases with subcutaneous localization, 4 cases with subcutaneous localization but with start base in muscular tissue.

The most affected regions have been described in order: the neck region, the head region and thorax region. The tumor shape was different: round, oval, plate, single or confluent, and in two cases we observe the presence of infection. Medicated treatment based on corticosteroids, antibiotics or anti inflammatory had no results. The surgical treatment offer results, if the tumor process is early, in cases when the tumor formations are a few and small, and became unfavorable in the situation when the tumor formations are many, confluent one with each other in develop process or became complicated with suppurative or necrotic processes.

Keywords: dog, histiocytom, clinic, therapeutic.

INTRODUCTION

Dog’s mesenchymal tumor are known as tumors with high fervency and with various localization.

In dogs the localization of these tumors is various, we can find them in all body organs, although they are frequent localized in thorax, cervical and head region. In our study they have been taken in observation dogs with different age, breed and sex, grown and kept differently (in apartments and yard), in all this time the alimentation was composed by dog food (granular) and house food consummate by people. The dog owner became alert by the presence of the tumor formations in the mentioned places, who have a nodular aspect and different shape and size. The tumor forms, meets by as, were located in skin in 8 dogs, subcutaneous in 2 dogs and in 4 dogs were in the muscle and subcutaneous tissue.

The dog age was between 6-10 years. The diseases evolution was different, with situations with short evolution, and in some bloke was a long evolution. The elaboration of diagnoses was made trough histological exam sampling tissue from the areas with tumor aspects, then fixed and processed trough paraffin technique and colorized trough HE and Tricom Masson. The appearance of tumor formations was late observed, often when have dimensions of a individual emphases nodule.
MATERIALS AND METHODS

The material taken in observations is made by a number of 14 dogs by different breed, sex and age, raised in a variety of life conditions, and all of them came to the Surgery Clinic from Veterinary Medicine Faculty.

From 14 dogs taken in the study, 6 of them were boxer breed, 4 dogs were half breed Boxer, 2 dogs were Dogue de Bordeaux, and two dogs were half other breeds. The dog’s age was different, between 6-10 years; all of them had the same owner during their life.

General status in the clinical examination time it wasn’t modified and locally in the palpation moment we observed a moderate sensibility.

The monitoring of tumor formations was made after the clinical exam, in each case we estimate: the size, the form, the presence or the absence of the adherence with subjacent tissue, the existence of local complications (infections, necroses, exudates, the absence of the skin), the time interval between the appearance of tumor formations, growth speed and the treatment response.

As for the aspect, grown and development of this tumor formations in the study casuistry all were variable.

In skin localizations (8 cases) the tumor formations aspect was like a single (fig. 1) or multiple nodule (fig. 2), by different size, in most of the case looked like a chestnut.

![Fig.1. Histiocytoma, single nodule.](image1)

![Fig.2. Histiocytoma, multiple nodule.](image2)

The affected regions were cervical, thorax, head and chest region (3). The surface was covered with skin with an increased consistence and a mobility that looks like skin. Since the time of registration in two cases appear two more nodular formations that had an increased develop in 16 days.
In two cases the tumor aspect was unusually big. At one subject the tumor formations had flat form, and was localized on the scapula measuring 5-10 cm, the subcutaneous tissue was thickened with high consistence (fig.4).

In the second subject, the tumor formations had round form and quick growth, the area was with ough skin covered with purulence secretion.

In four cases, the aspect of the developed formations was flat, with different sizes localized on lateral portions of the neck.

RESULTS AND DISCUSSION

The evolution of the histiocytoma taken in this study was different, ascertained tumor growth on a different period of time 2 to 7 months. The tumor development was made trough grow and development of the existing tumor formations and by the appearance of a new tumors development.

No matter of them number or develop degree, excepting two cases the general body status was not modified.

In three cases, the growth of new tumor formations was made during 18-22 days, and appearing as stand alone, isolated, with elastic consistence, because when the development is finish, this formations will combine, grow and produce a local discomfort. During the
evolution, we made a medicament treatment to all animals based on antibiotics, anti-inflammatory and corticosteroids. Medicament treatment that was applied for a time of 6-10 days depends on the medical product used didn’t show success, because the tumor masses didn’t respond to the therapy. Because of that, all the study cases were exposed to surgical treatment for remove the tumor tissue.

Surgical remove was made after a general anesthesia through neuroleptanaesthesia (xilasin+ketamin), a local asepsis, a local anesthesia and finally surgical remove. Surgical remove was made, as much as possible, near the individual tumor covered with healthy peri tumor tissue, next is a good haemostasia followed by the antibiotic treatment. In two subjects, after the surgical remove, results a tissue deficiency located in the thorax and in the shoulder joint zone. This impediment was solved through skin mobilization from surrounded area, process possible through circular dilacerations, followed by interweave of the lesion borders and their suture.

In two cases, thereupon the tumor formations had the start point in muscular tissue, the surgical remove was made through healthy tissue.

As I say, in two cases, during the tumor formation development and in time of theirs evolution, those became complicated with suppurated infections, local necrosis, with develop of other smaller tumor formations and changes of the general body status. General body status became suddenly modified with accentuated weigh reducing, inapetence, and after 4 or 6 days that two animals died. At the other cases the surgical remove had a normal way, the heal of the skin tissue was finished in 7-10 days.

Pursuant to the study, the surgical therapy with surgical remove, followed by the right local post treatment, remains the only method with sure results.

Good results appear when the tumor formations are small, reduced as number and with ought local complications.

In cases when the tumor formations occupy big areas, the recidivs is extremely obviously, and the evolution is short.

CONCLUSIONS

1. Dog malign histiocytoma appear at every age and have a frequent localization in the cervical, head and thorax region.
2. The therapeutically treatment based on corticosteroids, antibiotics, and anti-inflammatory medicaments don’t show results.
3. Through surgical remove, we obtain good results, but only when the tumor formations are in small number and size.
4. The best results we obtained in every case when the tumor formations were good individuate, small, with ought infections processes, covered with skin and situated subcutaneous.
5. In accentuate development of tumor process, when the tumor formations are combined, appear local necroses with supra infections and in this case general body status is affected.

REFERENCES