

WOUND HEALING AFTER INTRATUMOURAL TREATMENT OF MAST CELL TUMOURS IN DOGS WITH TIGILANOL TIGLATE

OBJECTIVES

Analyse wounds that developed at the site of the MCT tumour treated with Tigilanol Tiglate (TT) and assess potential determinants of the area of the wound present after tumour slough and subsequent rates of wound healing.

MATERIALS & METHODS

- **Animals:**
 - 111 out of 117 dogs that received a single TT treatment and formed a wound.
- **Evaluations:**
 - Wounds that formed after slough of MCT tumours following TT treatment.
 - Identify the determinants of wound area and speed of wound healing.

RESULTS

- **Tumour slough occurred 3 to 14 days after treatment.**
- **Wound size: wound area is related to pretreatment tumour size (cm³).**
 - o Maximal recorded wound area (cm²) fully evident in 89% of dogs by 7 days, with a median size of 3.5cm².
 - o More extensive wounds: generally in dogs with enlargement of locoregional lymph nodes noted prior to treatment where MCT metastasis was not conclusively ruled out, and also with a greater proportion of high grade MCTs.
- **Wound healing: time to healing is related to size and location of the treated MCT**
 - o Most wounds healed by day 42 - with 57%, 78% and 96% of wounds healed at 28, 42, 84 days respectively.
 - o Lower limb wounds slower to heal compared to body or upper limb wounds.

CLINICAL INTEREST

- **A single intratumoural dose of tigilanol tiglate elicits a quite predictable treatment progression with a resulting tissue deficit following tumour slough 3 to 14 days after treatment.**

Determinant and categories		No. dogs	Mean of maximum wound areas (cm ²)
Tumour location	Body	45	6.3
	Upper limb	18	7.1
	Lower limb	48	17.1
Cytological grade of tumour	Low or low suspected	98	9.8
	High or high suspected	9	25.2
	Grade not available	4	10.1
Regional lymph node(s) enlarged at screening	No	99	8.3
	Yes	12	34.3
Tumour type (lower limb)	Cutaneous	34	19.1
	Subcutaneous	14	12.3

REFERENCES

Reddell PW, De Ridder TR, Morton JM, Jones PD, Campbell JE, Brown G, et al. Wound formation, wound size and progression of wound healing after intratumoural treatment of mast cell tumors in dogs with tigilanol tiglate. J Vet Intern Med [Internet]. 2021;(Early release 12 January 2021). Available from: <https://onlinelibrary.wiley.com/doi/full/10.1111/jvim.16009>