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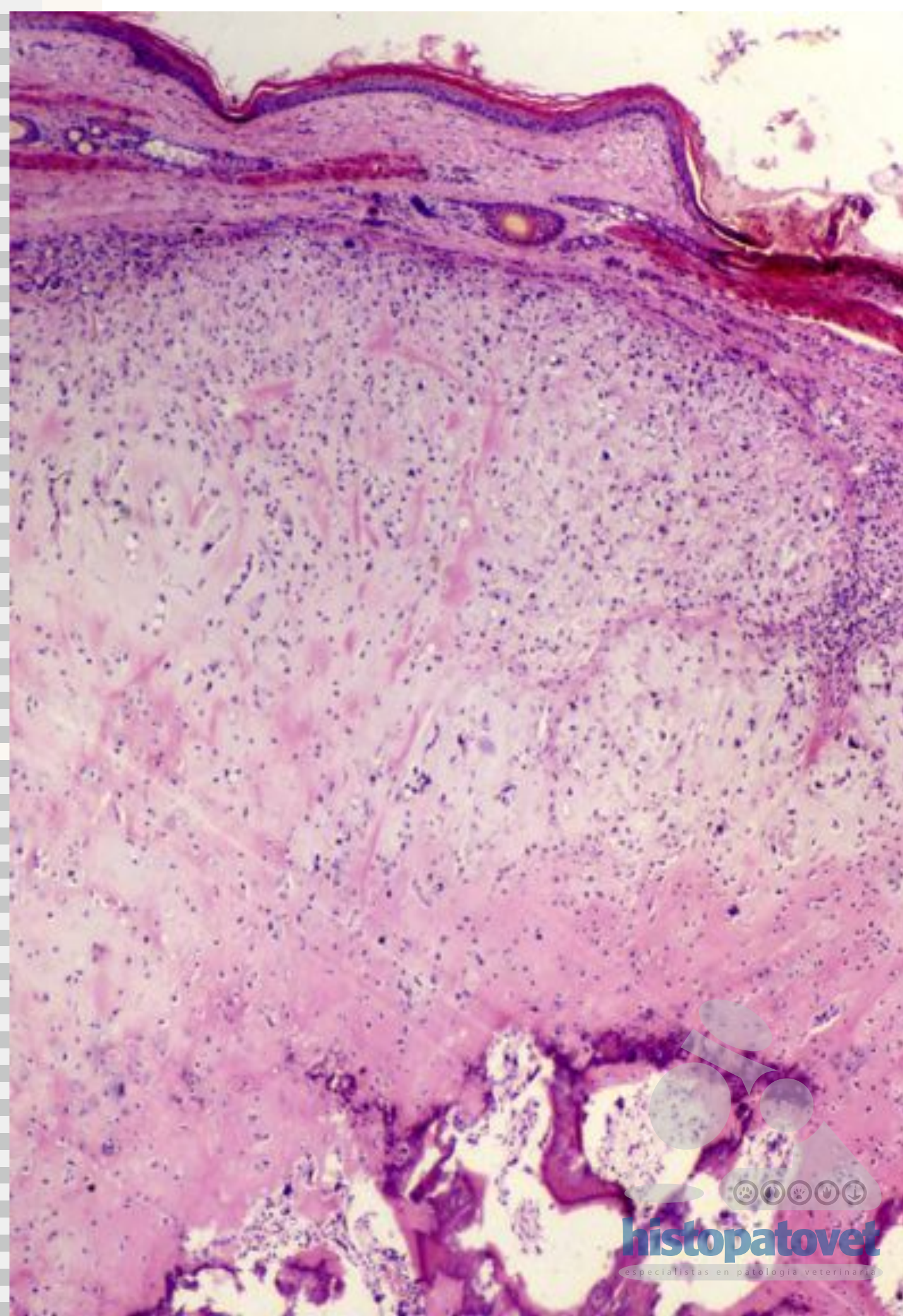


Fig. 1. Case no. 1 ferret. The whole dermis was replaced by direct forming osteoid tumor. HE stain 10x.

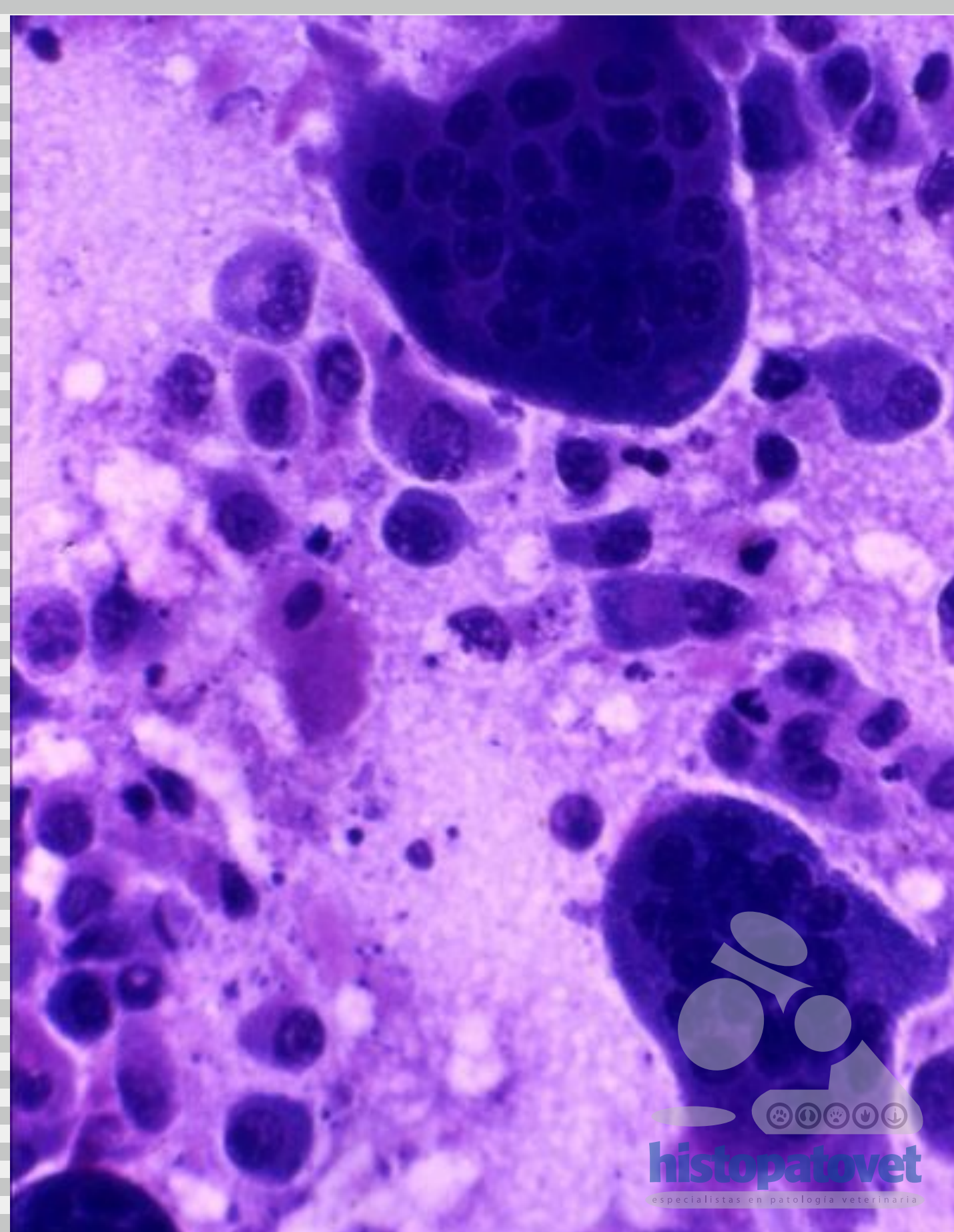


Fig. 2. Case no. 5 dog. Fine needle aspiration. A pleomorphic and anisokaryotic cells are present. Also, a multinucleated ones. Giemsa stain 40x.

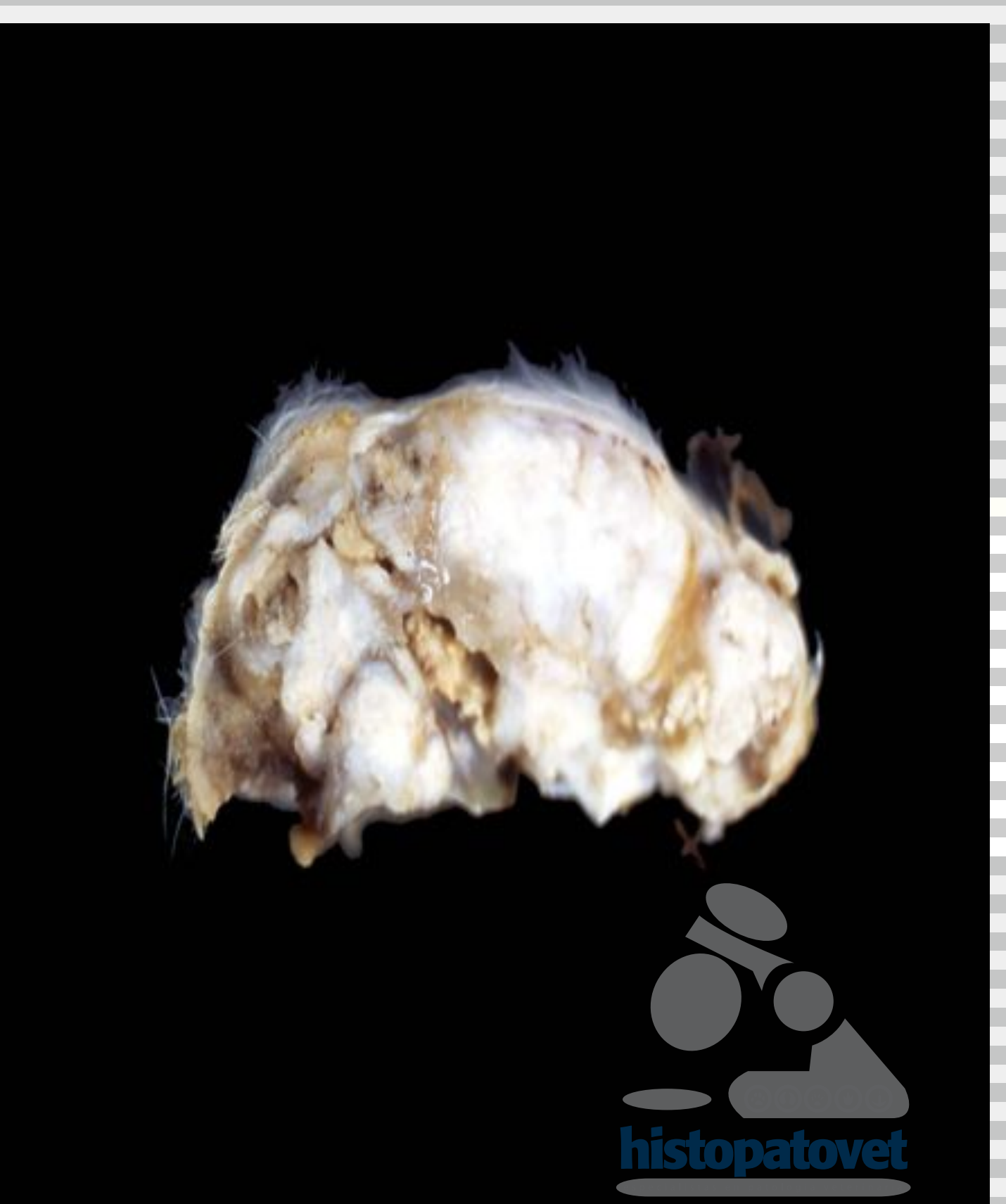


Fig. 3. case no. 6 cat. Material already formalin fixed. After cut a multinodular aspect is present.

Osteosarcoma is a malignant mesenchymal neoplasm, characterized by the formation of osteoid tissue. It is the most frequent primary bone tumor in dogs, accounting for nearly 80% to 85% of all reported long bone appendicular osteosarcomas. Conversely, in cats and other species osteosarcoma in any site is rare. Extraskeletal osteosarcoma (EOS) is a malignant, osteoid producing neoplasm without primary periosteal or bone involvement. These tumors have been described less frequently and occur mainly in mammary gland of bitches.

Dermal group					
Case	Breed	Sex*	Age**	Localization	Follow up
1	Ferret ( <i>Musteca putorius</i> )	F	4	Distal tail	Two years later no recurrence
2	Rottweiler	F	10	Left thorax, inguinal area and tail	Missing
3	German Shepperd	M	6	Left anterior limb	Missing
4	Fila Brasileiro	F	2 ½	Subungual right 3rd digit cranial and caudally	After digit amputation no recurrence
5	Rottweiler	F	10	Inguinal area	After 5 months no recurrence. However, it died later on (no necropsy)
6	Mixed cat	F	5	Left radius ulna	After 2 years no recurrence
7	Siamese	F	11	Ventral thorasic area	After 6 months recurrence. So, euthanized. Multiple internal and dermal metastasis
Subcutaneous group					
8	Pittbull terrier	F	1 ½	Head frontal area	Euthanized. Pulmonary metastasis
9	Pittbull terrier	F	3	Right gluteal area (ilium)	Euthanized. Pulmonary metastasis.
10	Mixed Stafford	M	7	Trunk dorsally	Euthanized. Metastasis to cranial mediastinum.
11	Boxer	M	5	Left ischium area	Missing

\*F= female, M= male. \*\*Ages in years

In general, the subcutaneous EOS tumors, apparently are more aggressive, in fact, 3 out of 4 were euthanized with pulmonary metastasis.

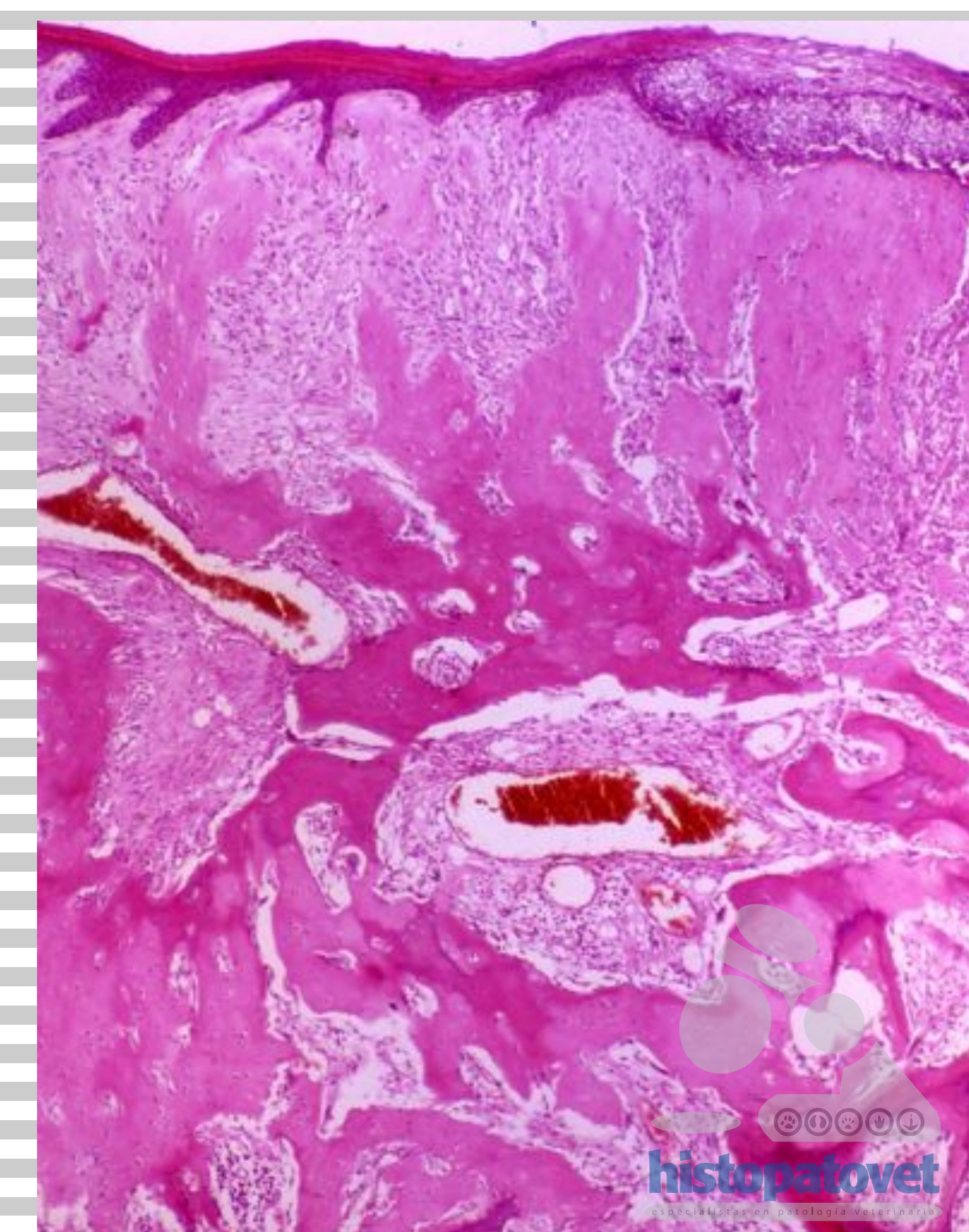


Fig. 4. case no. 6 cat. The epidermis showed a focal ulceration. The dermis is fully infiltrated by a direct osteoid tumor. HE stain 4.0x.

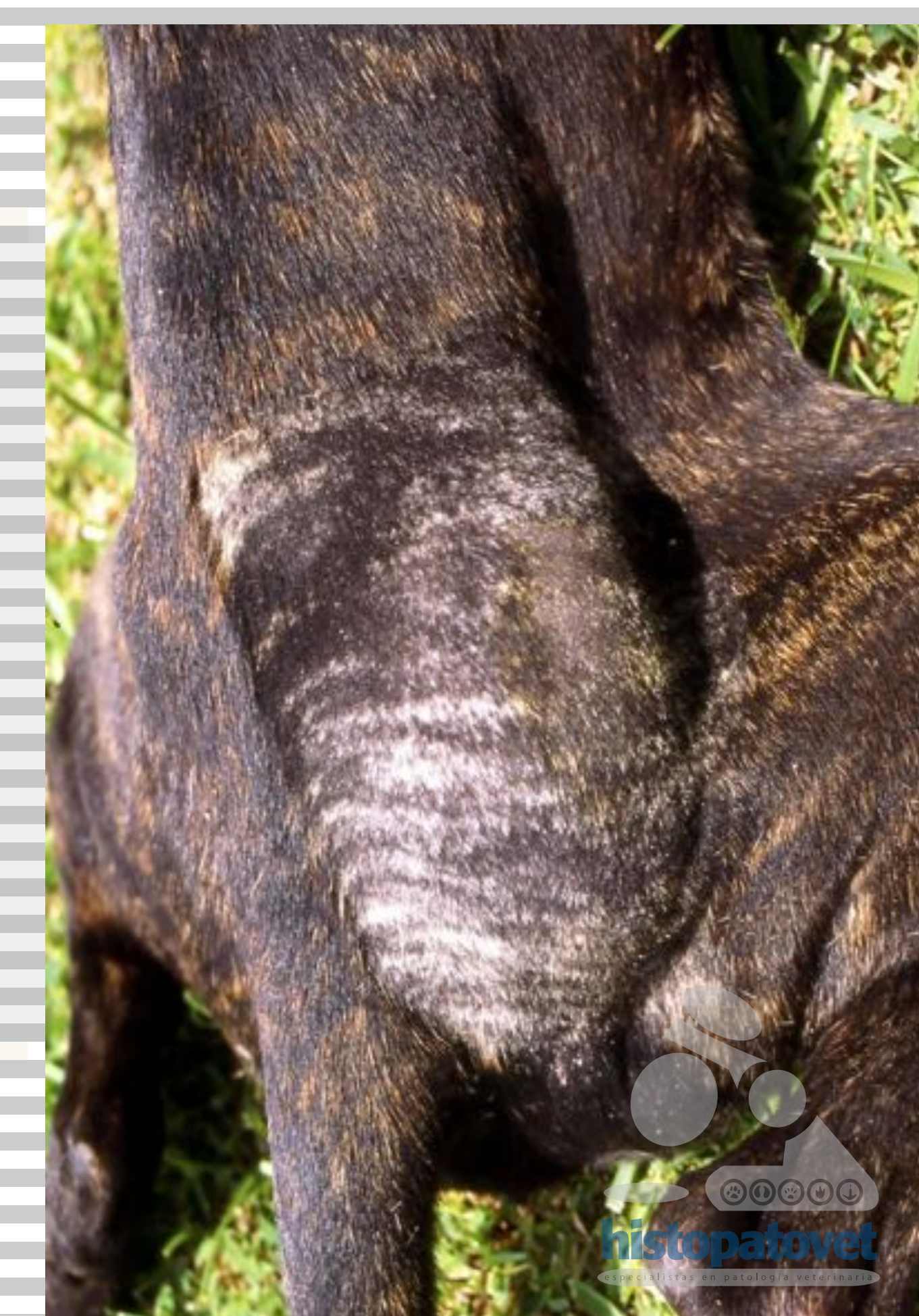


Fig. 5. Case no. 9, a dog. A right gluteal mass is present.

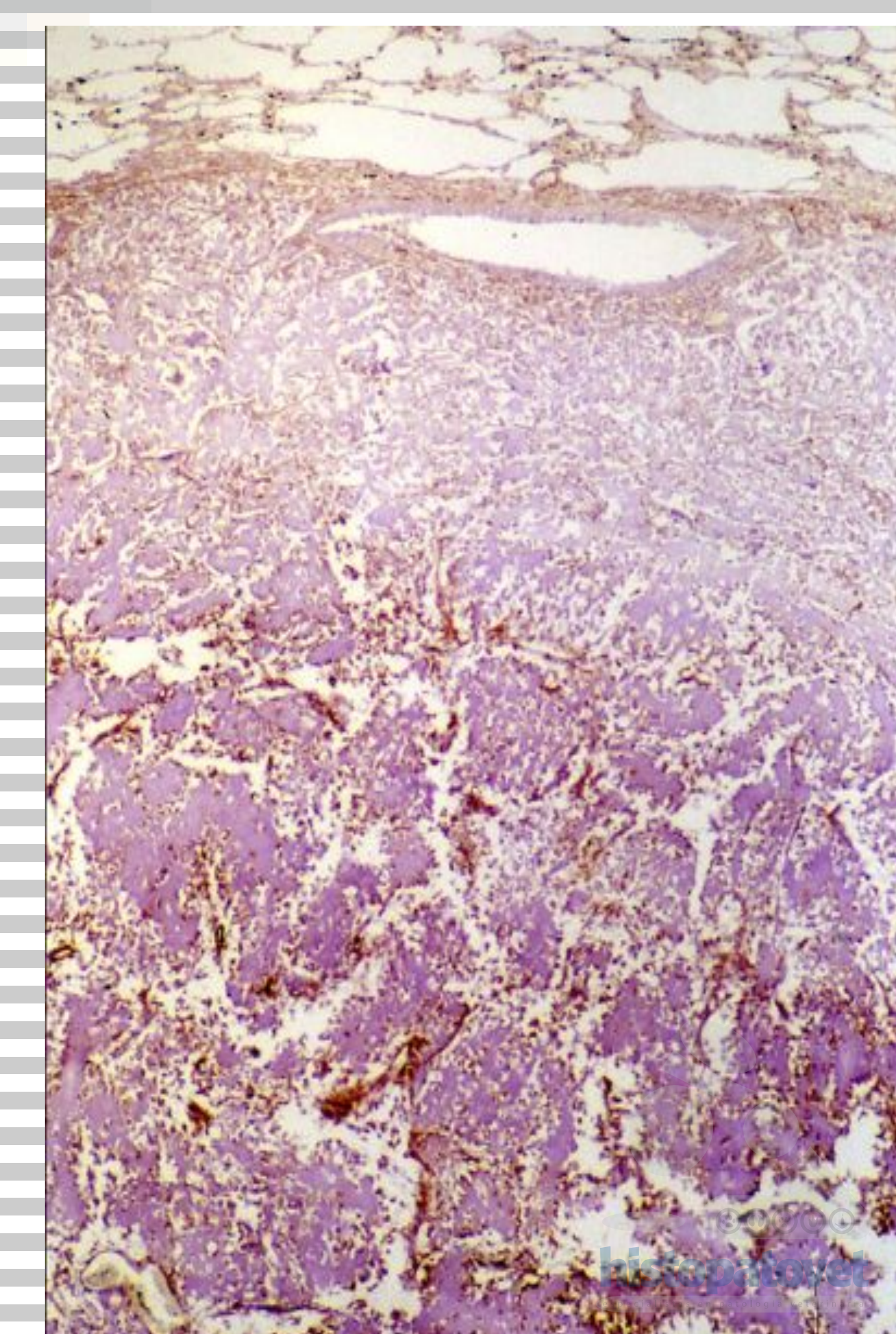


Fig. 6. case no. 9, same dog. Pulmonary metastasis. It was vimentin positive (++) 4.0x.