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HISTOLOGICAL CLASSIFICATION OF MAMMARY TUMORS OF THE DOMESTIC ANIMALS

Mammary gland tumors are frequent in dogs and cats, appearing extremely sporadically in other domestic animals. The mean onset age for mammary tumors is between 10 and 11 years. Incidence is higher in certain breeds, such as: Poodle, English Spaniel, Brittany Spaniel, English Setter, Pointer, Fox Terrier, Boston Terrier and Cocker Spaniel; incidence is lower in Chihuahua and Boxer breeds (Bostock D.E., 1986).

Histological classification of mammary tumors of the dogs.

1. Malignant Tumors: noninfiltrating carcinoma, complex carcinoma, simple carcinoma (tubulopapillary carcinoma, solid carcinoma, anaplastic carcinoma), special types of carcinomas (spindle cell carcinoma, squamous cell carcinoma, mucinous carcinoma, lipid-rich carcinoma), sarcoma (fibrosarcoma, osteosarcoma, other sarcomas), carcinosarcoma, carcinoma or sarcoma in benign tumor.

2. Benign Tumors: adenoma (simple adenoma, complex adenoma, basaloid adenoma), fibroadenoma (low-cellularity fibroadenoma, high-cellularity fibroadenoma), benign mixed tumor, duct papilloma.

3. Unclassified Tumors.

4. Mammary Hyperplasias / Dysplasias

Mammary tumors in cats are particularly frequent, especially at the mean age of 10–14 years. Siamese cats have a higher risk, and they can develop mammary tumors even at a young age. In this species, mammary tumors are less hormone-dependent, early ovariohysterectomy being only partially protective. The incidence of mammary tumors is estimated at 31.8 and 20.4 in 100000 uncastrated cats, ovariohysterectomized cats, respectively (Chen H.C., 1968).

Histological classification of mammary tumors of the cats.

1. Malignant Tumors: noninfiltrating carcinoma, tubulopapillary carcinoma, solid carcinoma, cribriform carcinoma, squamous cell carcinoma, mucinous carcinoma, carcinosarcoma, carcinoma or sarcoma in benign tumor.

2. Benign Tumors: adenoma (simple adenoma, complex adenoma), fibroadenoma (low-cellularity fibroadenoma, high-cellularity fibroadenoma), benign mixed tumor, duct papilloma.

3. Unclassified Tumors.

4. Mammary Hyperplasias / Dysplasias.