	Lost Temple Pets
	NASAL TUMOR
	What Are Nasal Tumors in Dogs? (AKC)
Description	A tumor is an abnormal mass of cells that arises when cells reproduce too quickly or don't
	die off when they should.
What Are Nasal	• Tumors can be malignant (cancerous), which means they can grow quickly, invade
Tumors in Dogs?	other tissues, and spread throughout the body or they can be benign, which means
AKC	they usually grow slowly and don't spread or invade other tissues.
	• Dr. Rachel St-Vincent is a specialist in radiation oncology at Schwarzman Animal
There Are Several	Medical Center in New York City. She elaborates, "Nasal tumors are tumors that
Different Types of	arise from inside of the nasal cavity, including the sinus as well as the
Nose Cancer in	nasopharynx. They can be benign or malignant. However, malignant tumors are more common."
Dogs	 Benign nasal tumors in dogs typically come in the form of polyps, which are
Dog Cancer.com	caused by chronic inflammation.
	 Often seen in younger dogs, they are best treated with surgical removal.
	• There are other types of benign tumors as well, but Dr. St-Vincent warns,
	"Even the benign tumors are cause for concern because some can
	transform into cancerous tumors, or, although benign, can be just as
	invasive to the surrounding tissues and cause destruction of the nose and
	facial structures, leading to difficulty breathing and poor quality of life, just
	like the more common malignant nasal tumors." (AKC)
	There Are Several Different Types of Nose Cancer in Dogs (Dog Cancer.com)
	There are a variety of different cancer types that can occur in the nasal cavity, so in this
	article, we are taking a broad view of nose cancer in dogs.
	Nearly two-thirds of nasal tumors in dogs are carcinomas, including
	adenocarcinoma, squamous cell carcinoma, and undifferentiated carcinoma.
	The bulk of the remaining tumors are sarcomas, including fibrosarcoma,
	chondrosarcoma, osteosarcoma, and undifferentiated sarcoma.
	Please note that you may see links to other articles that go more in-depth on the less
	common types of canine nose cancer.
	Adenocarcinoma, the Most Common Canine Nose Cancer
	Adenocarcinoma is the most common nasal tumor in dogs.
	Overall, adenocarcinomas respond better to radiation therapy than squamous cell
	carcinoma or undifferentiated carcinoma and have a relatively better long-term
	prognosis.
	Squamous Cell Carcinoma
	Squamous cell carcinoma may involve the nasal planum or other sites covered
	with squamous epithelium, such as the gums, tonsils, or tongue.
	• It can also originate from the mucosal lining of the frontal sinus and nasal passage.
	• Historically, dogs with squamous cell carcinoma don't respond as well to radiation
	as dogs with sarcomas or adenocarcinomas do.

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	Undifferentiated Carcinoma
	• Undifferentiated carcinoma translates to "undifferentiated tumor." This refers to a tumor with little or no evidence of differentiation, meaning it does not resemble normal tissue.
	 Nasal undifferentiated carcinoma is believed to originate from the Schneiderian epithelium (the membranous lining of the maxillary sinus cavity) or the nasal ectoderm of the paranasal sinuses.
	• Given the undifferentiated nature of this malignancy, immunohistochemical analysis (see below) is constructive so your veterinarian can confidently formulate a treatment plan.
	• Historically, dogs with undifferentiated carcinoma have a poorer outcome after radiation therapy than those with sarcomas or adenocarcinomas.
	Chondrosarcoma
	• Chondrosarcoma is a malignant tumor involving the cells that produce cartilage matrix (the stuff cartilage is made from).
	• Dogs with intranasal chondrosarcomas may have better treatment responses than dogs with adenocarcinoma or squamous cell carcinoma.
	Osteosarcoma
	Osteosarcoma is a malignant mesenchymal tumor and is the most common
	primary bone tumor in dogs. Osteosarcoma accounts for 6% of nasal tumors.
	Undifferentiated Sarcoma
	• Undifferentiated sarcoma is a type of <u>soft tissue sarcoma</u> , also called unclassified sarcoma. ³⁰
	Ness Canastin Dage Can Be Nard to Diagnass Assurately
	Nose Cancer in Dogs Can Be Hard to Diagnose Accurately
	Nasal tumors often represent a diagnostic and therapeutic challenge due to their confined location within the nasal cavities. ²
	 It can be difficult to see them clearly because of the tight space and the complex nasal cavity structures. It can be challenging to treat them for the same reason. (Dog Cancer.com)
	Breeds that are predisposed to nasal adenocarcinoma include: (PetMD by Chewy)
Breeds at Risk	Airedale Terriers
Breeds that are	 Basset Hounds Collies
predisposed to	German Shorthair Pointers
nasal	Golden Retrievers
adenocarcinoma	• Labradors
PetMD by Chewy	Poodles
	 Scottish Terriers Sheepdogs (<i>PetMD by Chewy</i>)
	Other
	German Shepherd
	Keeshond
	Norwegian Elkhound

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Causes of Nasal Adenocarcinoma in Dogs (PetMD by Chewy) Factors Atthough the exact cause for nasal adenocarcinoma is considered idiopathic (unknow), risks appear to increase with exposure to tobacco smoke, kerosene, coal combustion and other alfborne pollutants. Causes of Nasal Adenocarcinoma in Dogs (PetMD by Chewy) Due to these types of exposures, dogs in urban environments, especially dogs with tonger noses, tend to have higher incidences of this cancer. Masal Tumors in Dogs? PetMD by Chewy What Causes Nasal Tumors in Dogs? (AKC) What Causes Chronic inflammation commonly contributes to the development of cancer, so dogs who suffer chronic allergies might be predisposed. AKC Control inflammation commonly contributes to the development of cancer, so dogs who suffer chronic allergies might be predisposed. Ganne Nose Cancer.com) Cancer Chronic inflammation commonly contributes to the development of cancer, so dogs who suffer chronic allergies might be predisposed. What causes this cancer? CATS VCA Animal Hospital Chronic inflammation common syster is in to anagl tumors in some flatfaced breads with short snouts. (AKC) What causes this cancer? In addition, research says nasal tumors are more common in long-nosed dogs live in furthouse, but D: St-Vincent ays vets still see nasal tumors in some flatfaced breads with short snouts. (AKC) What causes this cancer? (VCA Animal Hospital) New addition, research says and single known cause. In the case of nasal tumors, exposure to cigaret with historice of flate lev		Lost Temple Pets
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	 What are the clinical signs of nasal tumors? (VCA Animal Hospital) Most pets with nasal tumors have a nasal discharge (usually pus-like or streaked with blood) from one or both nostrils, noisy breathing (from airflow obstruction), coughing, lethargy, decreased appetite, and weight loss. Some pets, especially cats, will develop facial deformities as the tumor grows. Neurological signs (e.g., seizures, sudden onset of blindness, walking in circles, muscular weakness, and behavior changes) are rare, but may be the only signs seen. (VCA Animal Hospital)
Testing and Staging Treating for More Common Problems First, An Overview of Diagnostics for Nose Tumors and Staging for	 Treating for More Common Problems First (Dog Cancer.com) Treating for a fungal infection or allergies first because they are more common, and only considering nasal tumors when those treatments don't work delays diagnosis. This is unfortunate. However, it's also the way that medicine works: we look for and treat the most common cause first, and only move on to other possibilities if that doesn't work. As you will see below, the testing necessary to diagnose and treat cancer is much more expensive than treating simpler and more common issues like allergies.
Nasal Cancer in Dogs Dog Cancer.com	 Once your veterinarian has eliminated another cause for your dog's symptoms, they will use a variety of tests to determine if your dog's symptoms are caused by cancer and, if so, what type of cancer is present. Additional testing may include: A tissue biopsy for a definitive diagnosis Conventional radiography (x-rays) can be helpful, but CT is preferred to get a more detailed look at the extent of the tumor If a nasal tumor is diagnosed, three-view thoracic radiographs of the lungs are recommended to evaluate for metastases Needle aspirates of the local lymph nodes are also recommended to evaluate for spread of disease Nasal hydropulsion using a high-pressure saline infusion into the nose often yields diagnostic samples (and may also clear some blockages) Abdominal ultrasound may be recommended to complete staging
	 Staging and Prognosis for Nasal Cancer in Dogs Staging is a process of tests that allows your veterinarian or oncologist to determine how severe your dog's cancer is and if it has spread. Staging may impact your dog's prognosis and which treatment options are available. It may also impact your treatment decisions. Staging of Nose Cancers Several staging systems based on radiographic, or CT findings have been proposed in canine nasal tumors, but their prognostic significance remains controversial. The Adams modified staging system developed in 2009 is the most recent system that has been adapted for use.¹ Stage T1: Confined to one nasal passage, paranasal sinus, or frontal sinus with no involvement of bone Stage T2: Any bony involvement but no evidence of orbital (around the eye), subcutaneous (under the skin), or submucosal (under the mucous membranes) mass Stage T4: Tumor extension into the nasopharynx (where the nasal cavity meets the soft

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Treatment How are nasal tumors treated? and What are the side effects of treatment? UF Small Animal Hospital	 How are nasal tumors treated? (UF Small Animal Hospital) Dogs and cats with nasal tumors usually present with a relatively advanced stage of the cancer in a critical location near the brain and eyes. Invasion into bone often occurs early and curative surgery is not possible. Chemotherapy alone yields only a 30% response rate, and this response is usually short-lived. Definitive radiation therapy is the treatment of choice in dogs and cats with intranasal cancers. This involves 18-22 treatments administered daily Monday-Friday. Additionally, stereotactic radiosurgery is a procedure that consists of a one-time, high dose of radiation delivered in multiple arcs that target the center of the tumor, minimizing damage to normal tissue around the tumor. If the tumor is close to or invading important structures such as the eyes or the brain, it may be necessary to use stereotactic radiation therapy (SRT). The difference between the two is that instead of delivering one large dose, SRT would consist of several (up to three) smaller doses to minimize side effects of the eyes and the brain. Radiation therapy will result in improvement or resolution of clinical signs in the majority of patients. What are the side effects of treatment? Side effects are usually minimal but can include the following: Change in fur color Peeling of the skin Ulceration Ulcers and burn-like side effects are temporary and can usually be managed with antibiotics and anti-inflammatory medications. Depending on how close the tumor is to the eyes, the tear production can be compromised, resulting in dry eye. (UF Small Animal Hospital)
References	AKC (American Kennel Club) - Nasal Tumors in Dogs: Signs, Symptoms, Treatment https://www.akc.org/expert-advice/health/nasal-tumors-in-dogs/ Dog Cancer.com - Nose Cancer in Dogs By Nathalia Juocys Dias Moreira, MS, Leah Talesnick, DVM, CCRP Medically Reviewed by Jenny Cassibry Fisher, RVT, VTS. Updated on August 30, 2023 https://www.dogcancer.com/articles/types-of-dog-cancer/nose-cancer-in-dogs/ National Canine Cancer Foundation - Nasal Chondrosarcoma https://wearethecure.org/learn-more-about-canine-cancer/canine-cancer-library/nasal- chondrosarcoma/ PetMD by Chewy - Nasal Tumors in Dogs By Jamie Case, DVM. Updated Oct. 7, 2023 https://www.petmd.com/dog/conditions/cancer/nasal-tumors-dogs (UF Small Animal Hospital) – College of Veterinary Medicine - Nasal Tumors in Dogs https://smallanimal.vethospital.ufl.edu/clinical-services/oncology/types-of-cancer-and- treatment/nasal-tumors-dogs/ (VCA Animal Hospital) - Nasal Tumors By Ryan Llera, BSc, DVM; Debbie Stoewen DVM, MSW, RSW, PhD; Christopher Pinard, DVM https://vcahospitals.com/know-your-pet/nasal-tumors

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