

# ANTECH

800-872-1001

**Patient Info:**

Name: STELLA 2                      Species: Canine  
Chart No: N                            Breed: French Bulldog  
Owner: VON MULLER OMAR           Age: 6Y  
Doctor: COCO HAGOS, DVM        Sex: SF

**Hospital:**

Westside Animal Hosp  
42052 N 50th St W  
Quartz Hill, CA 93536

**Lab:**

ANTECH Diagnostics  
17620 Mt. Herrmann Street  
Fountain Valley, CA 92708  
Reported: 03/14/24  
Received: 03/08/24

Accession No.

**IRPC08356733**

Doctor

**COCO HAGOS, DVM**

Owner

**VON MULLER OMAR**

Pet Name

**STELLA 2**

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**Histopathology**

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Chest area. 4 inch round dermal mass vascular and hemorrhagic. Good health at this time.

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Received: 3.0 cm x 5.0 cm skin biopsy, with a 3.0 cm x 5.0 cm mass.

**MICROSCOPIC FINDINGS:**

Cutaneous mast cell tumor, high-grade/grade II, with abundant necrosis and hemorrhage, haired skin, chest area

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High / Low Grade: High

Patnaik grade: 2

Mitotic count: 18 in 10 HPF(2.37 mm2)

Angiolymphatic invasion: Not detected

Histologic Margins: Incompletely excised. Neoplastic cells extend to the nearest deep and lateral sectional margins.

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COMMENTS: Although this cutaneous mast cell tumor is a Grade 2 according to the Patnaik system (Patnaik, 1984), it is a high-grade according to the 2-tiered system (Kiupel, et al. 2011). All mast cell tumors are potentially malignant and can spread to regional lymph nodes and distantly. High-grade mast cell tumors have shorter time to recurrence, metastasis, and/or de novo tumor development as well as shorter overall survival time compared to their low-grade counterparts. Since this mass extends to the margins, close monitoring for recurrence is recommended. Evaluation of draining lymph nodes for metastasis may be warranted.

**MICROSCOPIC DESCRIPTION**

Haired skin: Expanding within the dermis and subcutis is an infiltrative mass composed of neoplastic round cells organized into sheets and single tracts and supported within existing edematous stroma. Neoplastic round cells have a moderate amount of amphophilic to deeply basophilic, granular cytoplasm and distinct cell borders.

**Histopathology**

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Nuclei are round with stippled chromatin and 1-2 nucleoli. Anisocytosis and anisokaryosis are moderate. Eosinophils are scattered throughout the neoplastic population. Lymphovascular invasion is not seen. In multiple, large, foci, neoplastic cells are necrotic and mixed with abundant hemorrhage and fibrin, as well as low to moderate numbers of mixed leukocytes.

**REFERENCES:**

Kiupel et al. Proposal of a Two-Tier Grading System for Canine Cutaneous Mast Cell Tumors to More Accurately Predict Biologic Behavior. Vet Path. 48(1) 147 - 55, 2011.

Patnaik et al. Canine Cutaneous Mast Cell Tumor: Morphologic Grading and Survival Time in 83 Dogs. Vet Path. 21:469 - 474, 1984.

**PATHOLOGIST:**

Lindsay Fry, DVM, PhD, Diplomate ACVP  
I am available via email (Lindsay.Fry@antechmail.com) or by phone (949-372-3089) during regular business hours (Pacific Time Zone), Wednesday through Saturday.

**CLINICAL CONSULT:**

Veterinarians, if you would like additional diagnostic or therapeutic advice regarding this case you can request a complimentary consultation with a board-certified veterinary clinical specialist through Client Services (1-800-872-1001) or through your Healthtracks account.

**VETERINARIANS ONLY:** Questions or concerns? Please contact your pathologist directly (see signature for hours and contact information). For non-pathology questions such as clinical advice and treatment options, Antech provides free consultations with board-certified specialists, available through Client Services (1-800-872-1001, Option 0) or via your Health Tracks account. Considering this case for presentation, publication, or research? Because this report is for clinical use only, please contact us to receive consent for non-clinical use and publication-ready images.

**PET OWNERS:** Please contact your veterinarian with any questions.