

Accession: V-0603

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Received: 12/16/21 Reported: 12/22/21



Pet: **Sam** Owner: **Bob Smith** Species: **Canine** Breed: **Labrador Retriever** Sex: **Male** Age: **11y**



Clinical History:

Sam presented with a growth on the lip near tooth 304 that was black in color. He was then seen by a dental specialist who suspected melanoma. The mass has recently spread to involve the palate.



Source #1(A): Palate mass

Sample received:
Fixed Tissue



Microscopic Diagnosis: Malignant amelanotic melanoma

Comments:

The submitted mass is an amelanotic melanoma. The mitotic count, nuclear atypia, and poor pigmentation observed in this neoplasm are negative prognostic factors that are described in melanomas exhibiting malignant behavior, warranting staging to evaluate for metastasis beyond this site.

Microscopic Description:

Palate mass: 4 sections are examined. Extending from the mucosa into the underlying submucosa is an unencapsulated, poorly demarcated, infiltrative neoplasm characterized by spindle cells arranged in disorganized streams and bundles supported by existing stroma. Cells have poorly defined borders and a small amount of eosinophilic cytoplasm. Nuclei are round to elongate with finely stippled chromatin and 1-2 nucleoli. Cells exhibit moderate anisocytosis and anisokaryosis, and the mitotic count is 30 mitoses per 10 hpf. Neoplastic cells often exhibit prominent junctional activity with the overlying mucosal epithelium. The surface of the mass has multifocal areas of erosion and ulceration.

Mitotic count: 30

% Nuclear atypia (see below for instructions; >30%? Y/N): >30%

Degree of pigmentation (> or ≤ 50% pigmented cells): <50%

Bone invasion (yes/ no/ N/A): NA

Presence of lymphatic invasion (yes/no): No

Surgical margins: Not applicable since this is an incisional specimen.



Pathologist:

Derick Whitley, DVM, DACVP

Email: dwhitley@vidiumah.com

Work Schedule: Mon-Fri, 8am-5pm CT

Veterinarians, please contact the pathologist with any questions, or if unavailable please contact Vidium Customer Service at 1-833-794-0318. Pet parents need to contact their veterinarian for case advice.