



**PATIENT**

Ace Marsico

**PRESENTING CLINICAL SIGNS**

Ace presented for persistent upper respiratory noises and intermandibular swelling. The patient had previous brachycephalic surgery  
Abnormal PE/Chem/CBC/UA Results: normal

**SPECIES**

Canine

**COMPUTED TOMOGRAPHIC STUDY OF THE HEAD & NECK**

Plain study available for review.

**BREED**

French Bulldog

**COMPUTED TOMOGRAPHIC FINDINGS**

**Head**

The patient is a brachycephalic head type with dome shaped calvarium and shortened facial bones.

**SEX**

Male

There is significant skull asymmetry level with the occipital and temporal bones. The skull base is narrow.

**AGE**

1 Year, 7 Months

The tympanic bullae are small and narrow. Both tympanic bullae are obliterated with fluid attenuating material. Hypoattenuating material is present within the medial aspect of the very narrow external auditory meatuses as well.

**INTERPRETED BY**

Nele Eley, DVM  
Dr. med. Vet. DipECVDI

Number and folding of the nasal conchae and turbinates is reduced. There is retrograde elongation of nasal turbinates within both nasal cavities. Mild mucosal swelling is noted within both nasal cavities. There is no evidence of turbinate destruction.

The nasopharyngeal lumen is very narrow and encompassed tightly by the narrow hamuli of the pterygoid bone. The soft palate is not long but thick and narrows the lumen of the nasopharynx and oropharynx both.

**HOSPITAL NAME**

Animal Surgical  
Center

Supernumerous deciduous teeth are present in both maxillae and mandibles with widened of the periodontal space of the triadan 404. No evidence of a dentonasal fistula is seen.

The submandibular lymph nodes appear to be mildly enlarged on both sides. The medial retropharyngeal lymph nodes appear to be within normal limits. (Assessment limited to the availability of a plain study.)

**REFERRING VET**

Dr. Infernuso

**Neck**

Both lobes of the thyroid gland are seen and present within normal limits.

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Mild generalized hypoplasia of the trachea is noted.

There is mild generalized swelling of the laryngeal soft tissues with partial displacement of the air from the laryngeal ventricles.

**DATE**

1-11-22



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**COMPUTED TOMOGRAPHIC DIAGNOSIS**

- Brachycephalic upper airway stenosis with retrograde elongation of the turbinates.
- Mild rhinitis.
- Reduced volume and collapse of the nasopharynx owing to malformation of the skull (hamuli of the pterygoid bone)
- Bilateral otitis media: primary secretory versus infectious.
- Tracheal hypoplasia.
- Presumed laryngeal edema.
- Mild submandibular lymphadenomegaly.
- Supernumerous deciduous teeth in all quadrants with periodontal space widening triadan 404.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Complex brachycephalic upper airway stenosis is still present. The soft palate is not too long, however, it is thick and narrows the nasopharyngeal and oropharyngeal lumen. On top of that, the nasopharyngeal lumen is primarily narrow due to the narrow stance of both hamuli of the pterygoid bone.

**SEX**

Male

Retrograde elongation of the nasal turbinates is present as well as tracheal hypoplasia.

**AGE**

1 Year, 7 Months

The otitis media is bilateral and may well be primary secretory; however, infectious otitis cannot be ruled out.

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The lymph node changes are suggestive for reactive hyperplasia and may well be associated with the dental disease or with the mild nondestructive rhinitis.

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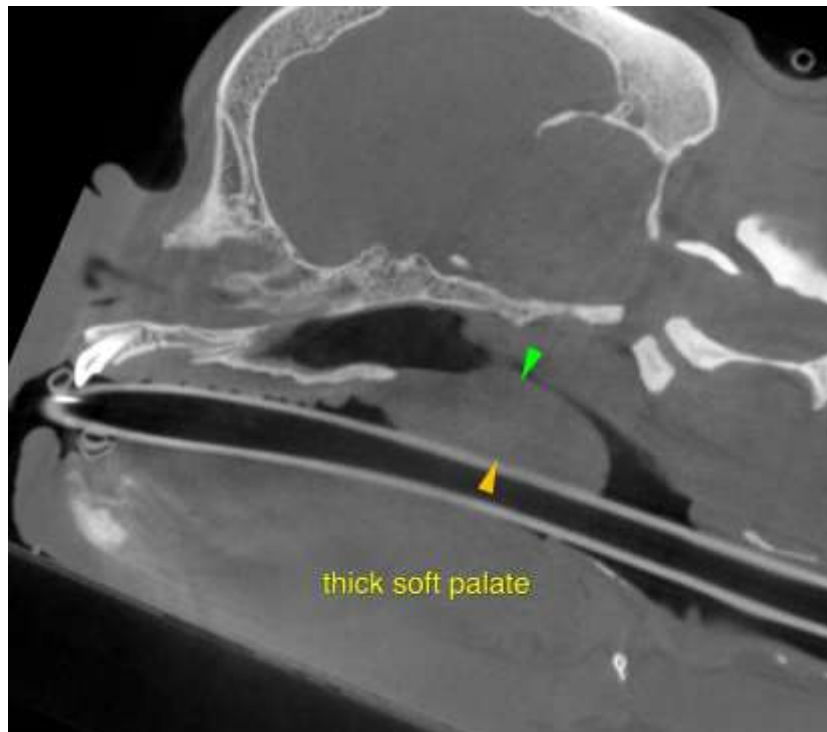
Dr. Inferuso

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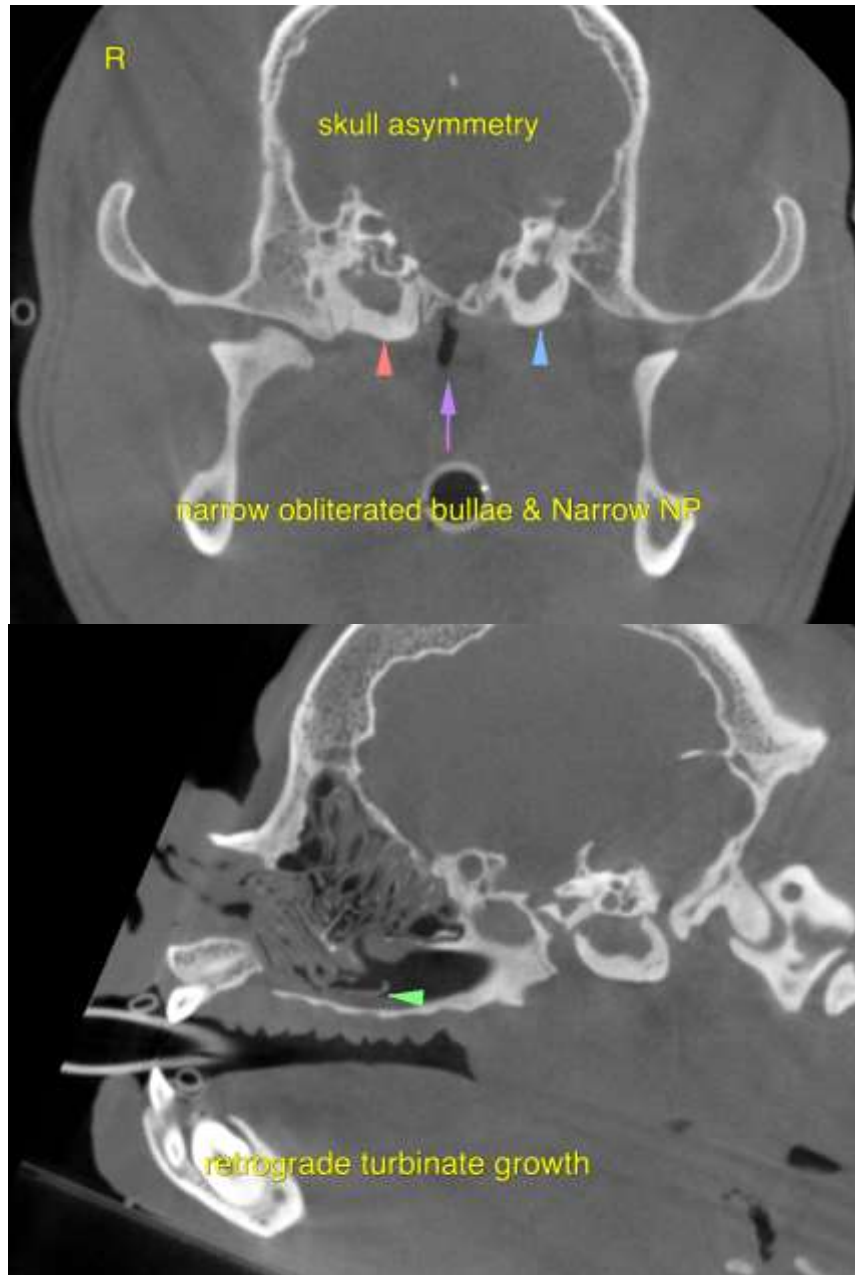
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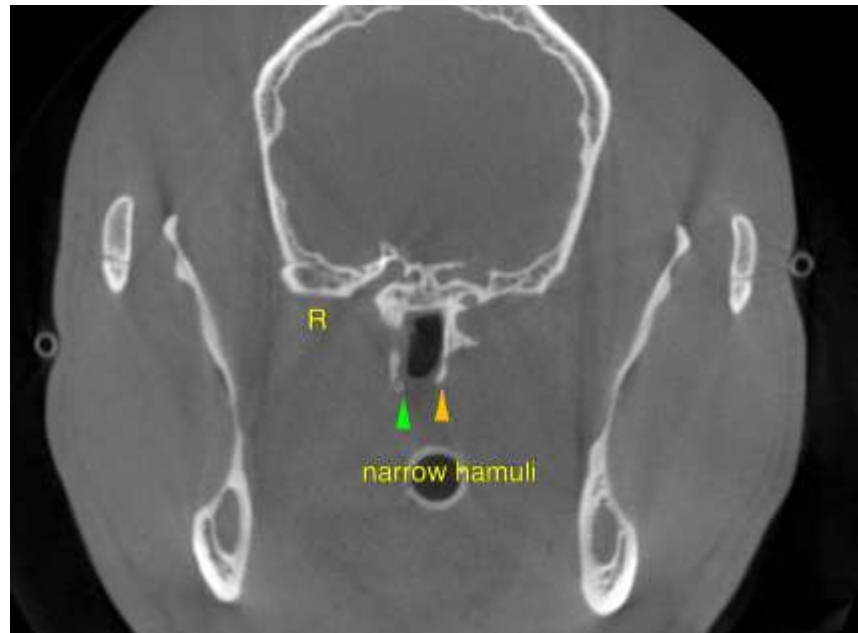
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

**Nele Eley**, DVM, Dr. med. vet., DipECVDI  
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