



## PATIENT

Mimi North

## SPECIES

Canine

## BREED

Chihuahua

## SEX

F

## AGE

1Y, 8M

## WEIGHT

1.49kg

## INTERPRETED BY

Nele Eley (Ondreka),  
DVM Dr. med. vet.,  
DipECVDI

## IMAGING PERFORMED BY

Ana

## HOSPITAL NAME

Animal Trust - Bolton

## REFERRING VET

Ana Valega

## INVOICE

73852

## DATE

2-19-26

## PRESENTING CLINICAL SIGNS

- 09/01 first presented for ongoing reverse sneezing/ grunting episodes has been going on since v young and has gradually progressed and inc frequency over time. OR has tried meds in the past and no improvement. adv to send over hx. also known to be itchy but settled and managed with topicals, o using douxo pyo.
- Progressively worse, clear discharge from nose
- Tried prednisolone but no improvement

Abnormal PE/Chem/CBC/UA Results: Neutrophils 18.35 (2.95 - 11.64 x10<sup>9</sup>/L) Monocytosis

## COMPUTED TOMOGRAPHIC STUDY OF THE HEAD

Plain and post contrast studies are available for review.

## COMPUTED TOMOGRAPHIC FINDINGS

Severe brachycephaly is noted with markedly shortened nasal bones and skull base. A large open fontanelle with widened cranial sutures is seen.

The frontal sinuses are absent which is common in brachycephalic dogs. The nasal turbinates are reduced in number and folding. Rightward deviation of the nasal septum is seen. The caudal nasal passages are stenotic bilaterally due to dorsoventral flattening. Significant mucosal swelling and fluid accumulation is noted caudally within both nasal cavities. There is no evidence of destructive lesions, masses, or foreign material.

Mild dental changes including mild widening of periodontal spaces at teeth 104 and 204 are seen.

Moderate to severe ventriculomegaly is noted. The brain parenchyma is otherwise unremarkable.

## COMPUTED TOMOGRAPHIC DIAGNOSIS

- Severe brachycephalic obstructive airway syndrome (BOAS) with caudal nasal cavity stenosis, chronic mucosal swelling, and fluid accumulation.
- Ventriculomegaly likely congenital in this young brachycephalic patient.
- Mild periodontal changes without evidence of dentonasal fistula formation.

## INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS

The CT findings are consistent with anatomical abnormalities due to extreme brachycephaly rather than infectious, neoplastic, or foreign body related processes.

The stenosis of the caudal nasal passages explains the reverse sneezing, grunting, and nasal discharge. This is combined with general features of brachycephaly with reduced number and folding of turbinates and absent frontal sinuses.

The moderate to severe ventriculomegaly of the brain is likely congenital and may contribute to neurologic risk though no acute intracranial mass effect is seen.

Supportive management for BOAS including humidified environment, weight control, and monitoring for clinical episodes is recommended. Consider airway sampling in order to rule out inflammatory or infectious rhinitis.

Maintained dental care as appropriate.



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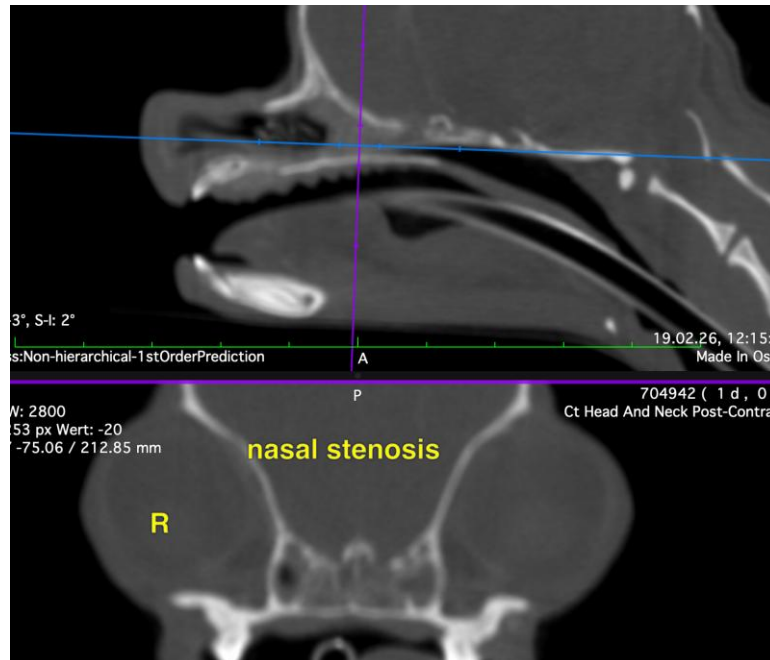
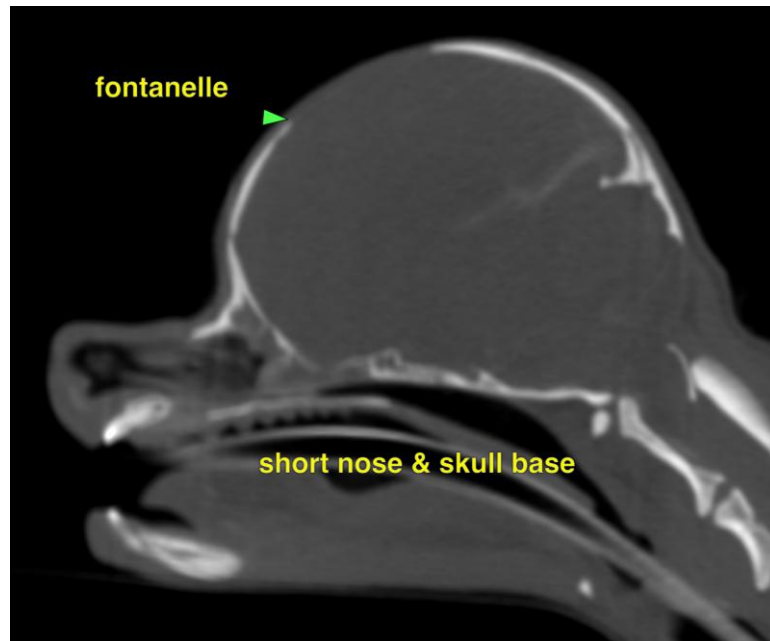
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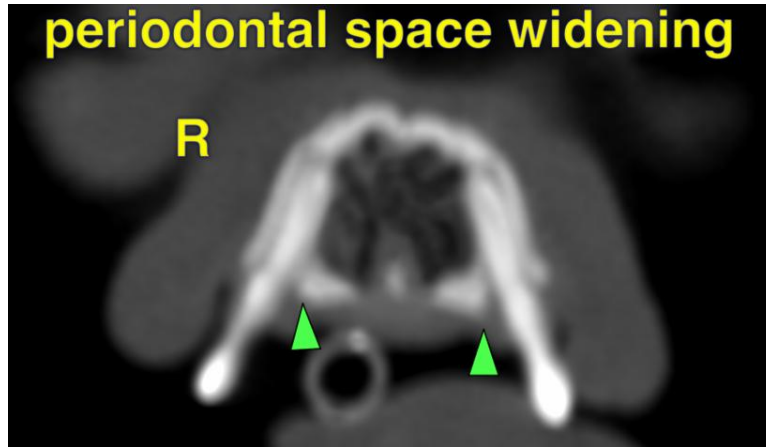
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## periodontal space widening



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 (Ondreka)**, DVM, Dr. med. vet., DipECVDI  
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Senior lecturer University of Giessen/Germany, Veterinary Faculty, Department of Radiology.  
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