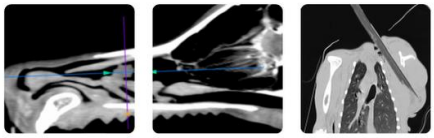

PATIENT

Nia Bibler

SPECIES

Canine

BREED

Welsh Springer Spaniel

SEX

F

AGE

9M

WEIGHT

14kg

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Donald Otten

HOSPITAL NAME

Oregon Veterinary Dental Specialists

REFERRING VET

Dr. Donald Otten

INVOICE

73738

DATE

2-12-26

PRESENTING CLINICAL SIGNS

Presented for malocclusion and severe unilateral gingivitis (left sided). Hx of trauma to OS at 2 months of age (corneal puncture). Skeletal malocclusion noted today with atrophied / malformed ramus of the left mandible and a small left TMJ, zygoma is also malformed and displaced towards midline. Tooth 309 was extracted today as it was occluding abnormally into the palatal cusp of 208 and the palatal mucosa rostral to 208.

COMPUTED TOMOGRAPHIC STUDY OF THE SKULL

Plain study available for review.

COMPUTED TOMOGRAPHIC FINDINGS

The left temporomandibular joint presents reduced overall size with abnormal inclination angle and asymmetry of the joint space.

The left mandibular body and ramus are hypoplastic and atrophied. The left maxilla, palatal, nasal and cranial bones are reduced in size compared to the contralateral side. The left zygomatic arch is displaced medially.

The left orbit is smaller than the right, however the globe appears morphologically normal.

Malocclusion with leftward deviation of the mandibles and tooth 309 impinging upon teeth 208 and 207 is seen.

The left masticatory muscles are severely atrophied.

Mild osteopenia of the left maxilla and mandible are noted.

No acute fractures, callus, or trauma related bone changes are observed.

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Left sided craniofacial hypoplasia involving mandible, temporomandibular joint, maxilla, zygoma, palate, nasal, and cranial bones.
- Severe left masticatory muscle atrophy secondary to skeletal malformation and chronic disuse.
- Left temporomandibular joint hypoplasia with abnormal inclination angle.
- Mild osteopenia of left maxilla and mandible due to underuse.

INTERPRETATION OF FINDINGS & FURTHER RECOMMENDATIONS

The findings are consistent with congenital or developmental hypoplasia of the left craniofacial structures. The skeletal asymmetry affects the mandible, maxilla, zygoma, palate, nasal bones, and temporomandibular joint. Severe atrophy of the left masticatory muscle is likely secondary to chronic underdevelopment.

The occlusal malalignment is significant causing tooth 309 to impinge upon opposed teeth necessitating extraction.

No evidence of traumatic fracture or post-traumatic deformities identified despite prior injury to eye. The orbital globe appears normal.

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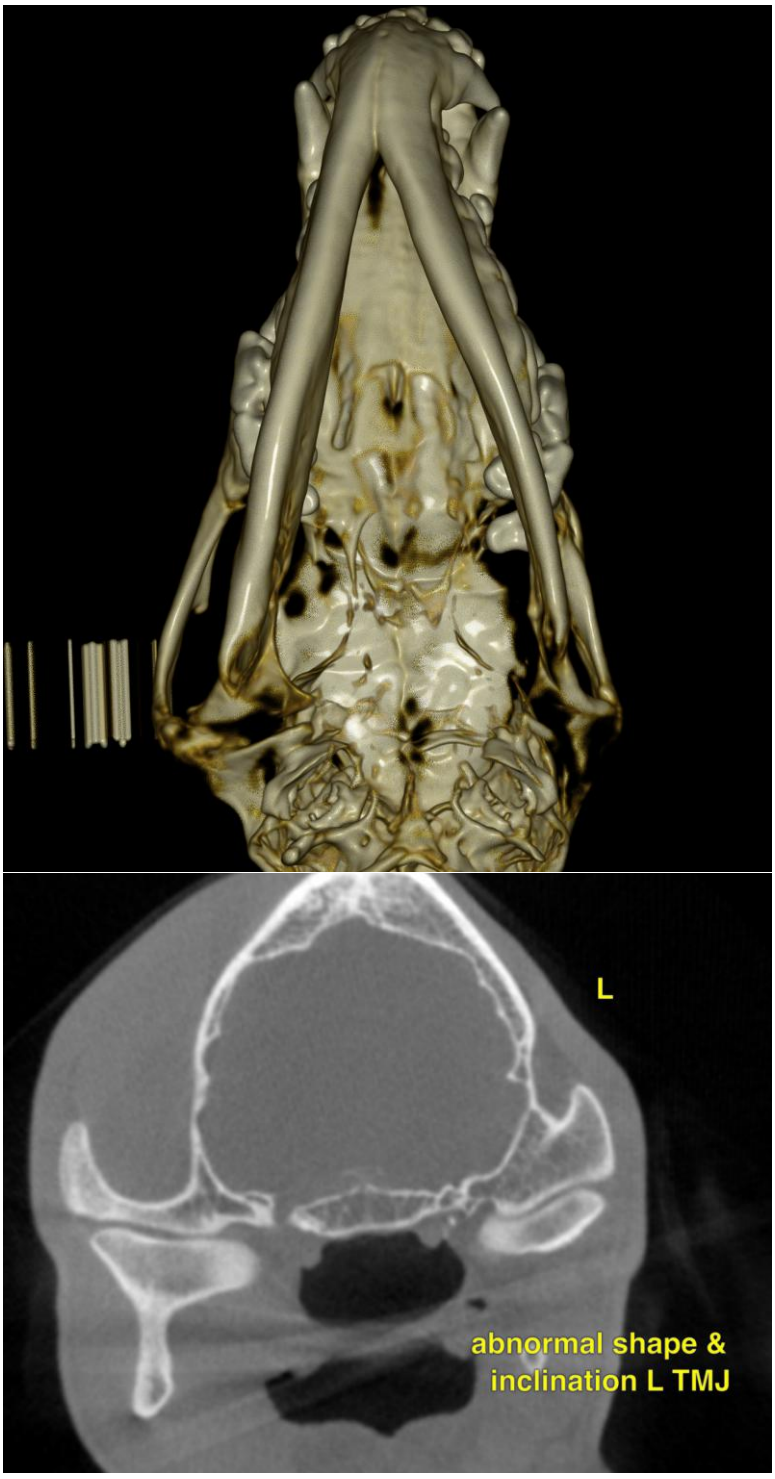
Overall, the craniofacial hypoplasia explains the malocclusion, gingival trauma, and masticatory muscle atrophy. Orthodontic treatment and surgical planning for future corrective procedures may consider this significant asymmetry of the mandible and temporomandibular joint.



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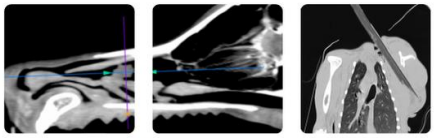

Teleradiology
Educational Teleconsultation Services™

SonoPath.com info@sonopath.com 1.800.838.4268

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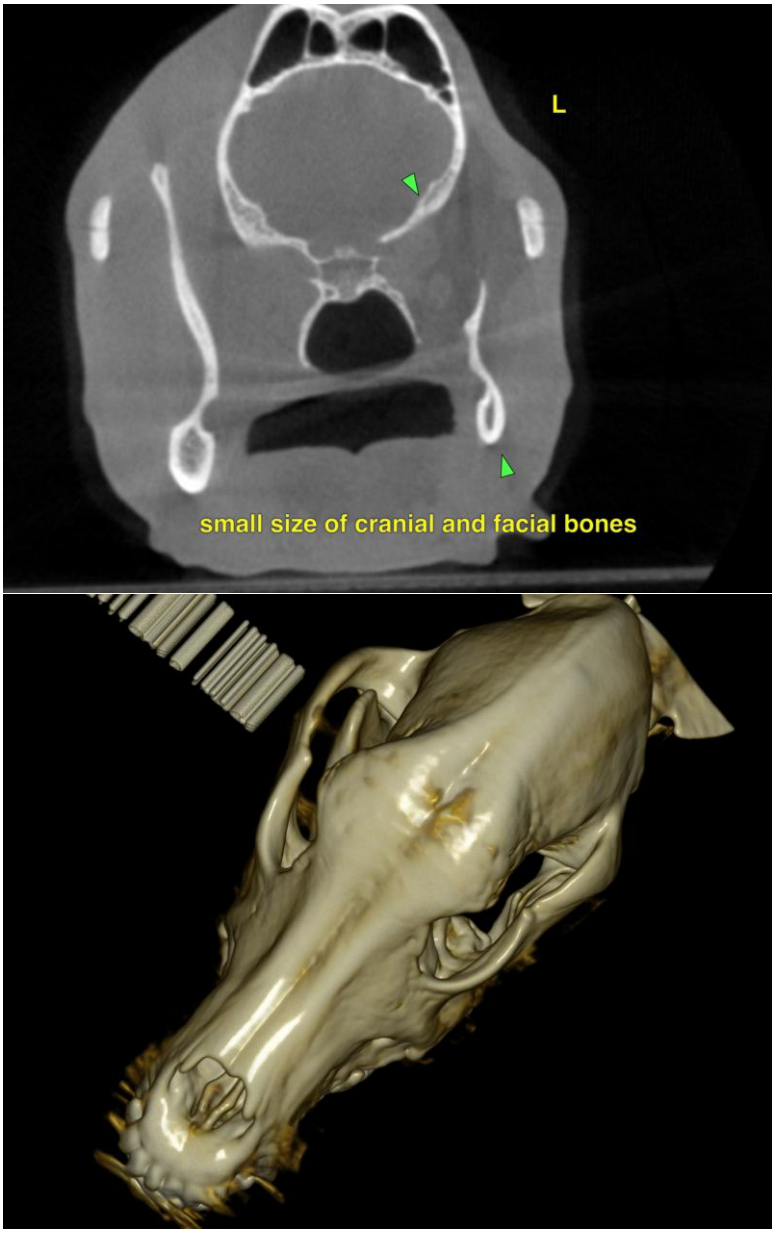

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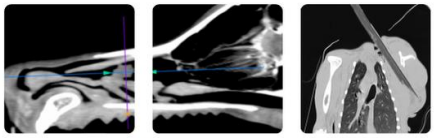

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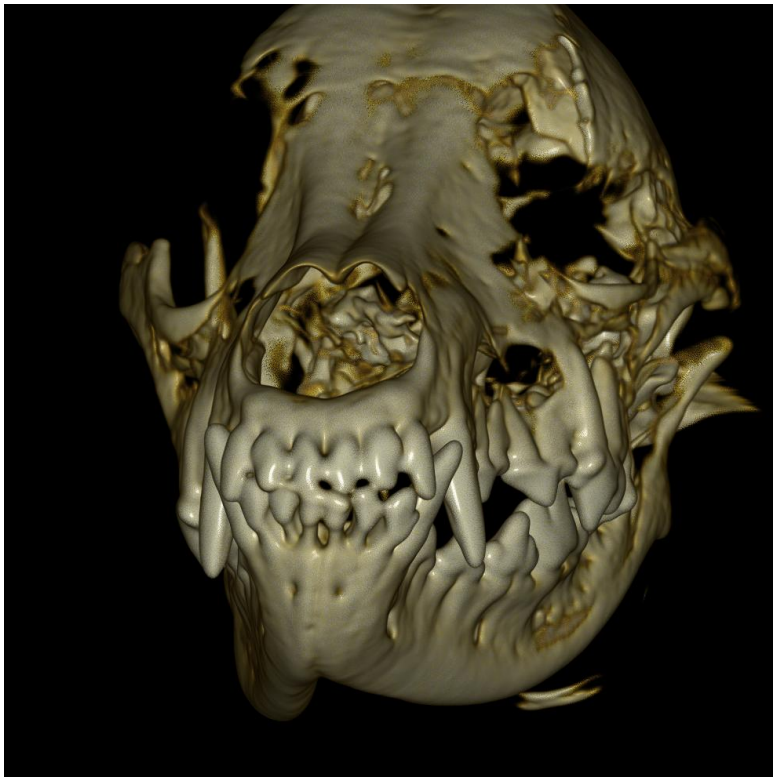

The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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 (Ondreka), DVM, Dr. med. vet., DipECVDI
European Specialist in Veterinary Diagnostic Imaging, Cert. Radiology,
Senior lecturer University of Giessen/Germany, Veterinary Faculty, Department of Radiology.
info@sonopath.com