SonoPath Teleradiology

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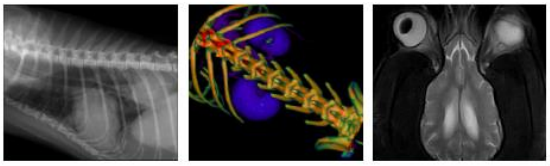

SonoPath.com
1-800-838-4268 info@sonopath.com

PATIENT

Indie Bowman

SPECIES

Canine

BREED

French Bulldog

SEX

FS

AGE

1.5

INTERPRETED BY

Nele Eley, DVM
Dr. med. Vet. DipECVDI

HOSPITAL NAME

Mobile Veterinary CT

REFERRING VET

Akshay Verma, DVM

INVOICE

53279

DATE

8-4-22

PRESENTING CLINICAL SIGNS

Indie presents to MVCT for CT scan of the skull and spine. Rule out hydrocephalus as a cause of increased aggression. hHx of hemi-vertebrae.

COMPUTED TOMOGRAPHIC STUDY OF THE HEAD, CERVICAL, AND THORACIC SPINE

Plain and post contrast studies in soft tissue and bone windows available for review.

COMPUTED TOMOGRAPHIC FINDINGS

Head

The patient has a brachycephalic head conformation with dome shaped calvarium and shortened facial bones.

The brain presents with expected morphology, symmetry, attenuation, and enhancement. No pathologic dilation of the ventricular system is noted.

The conformation of both tympanic bullae is small. Both tympanic bullae are filled with fluid attenuating contrast negative material.

Spine

Number, alignment, and anatomy of the cervical vertebrae are considered within breed related normal limits.

Note the dorsal angulation of the odontoid peg which is common in brachycephalic dogs.

Multiple hemivertebrae are seen within the thoracic spine with T3 representing a ventrally wedge shaped hemivertebra, T4 a dorsally wedge shaped hemivertebra, T5 a ventrally wedge shaped butterfly vertebra, T6 and T7 are mild butterfly vertebrae, T9 is a severely shortened butterfly vertebra, T10 is a mild butterfly vertebra, T12 is a severely shortened butterfly vertebra, and L1 is a butterfly vertebra with a rudimentary rib on the right side.

The vertebral end plates of T8 and T9 present sclerosis with multiple concave cystic defects and partial collapse of their intervertebral disc space.

COMPUTED TOMOGRAPHIC DIAGNOSIS

- Suspect discospondylitis/spondylitis versus modic changes within the thoracic spine at T8/9
- Multiple congenital vertebral malformation within the thoracic and cranial lumbar spine.
- Bilateral otitis media presumed to represent primary secretory otitis media of the brachycephalic dog.
- No evidence of ventriculomegaly or other structural brain injury.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The changes within the thoracic spine between T8 and T9 suggest potential for low grade chronic discospondylitis. Screening for an infectious focus should be performed and antimicrobial treatment could be considered. I cannot rule out this representing extensive osseous remodeling

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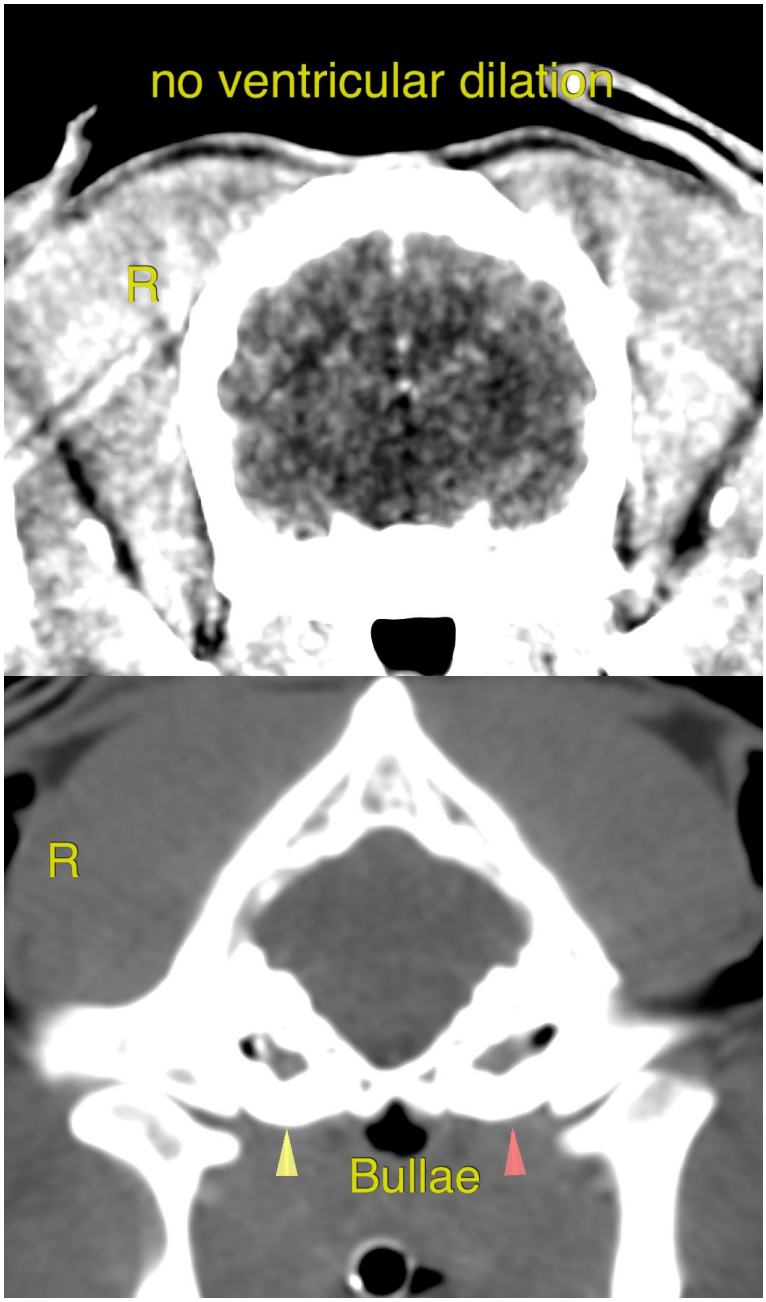
due to the vertebral malformation and concurrent biomechanical issues. However, discospondylitis/spondylitis is a definitive potential in this patient.

There is no evidence of structural brain injury or hydrocephalus. However, pain resulting from the spinal changes could be a potential cause of the aggressive behavior. It should also be noted that aggressive behavior is an emerging issue in dogs of this breed that is not necessarily uncommon in the recent past.



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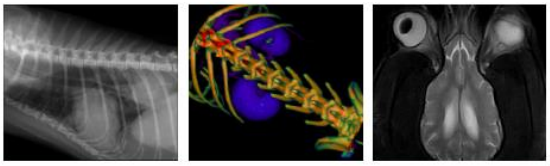

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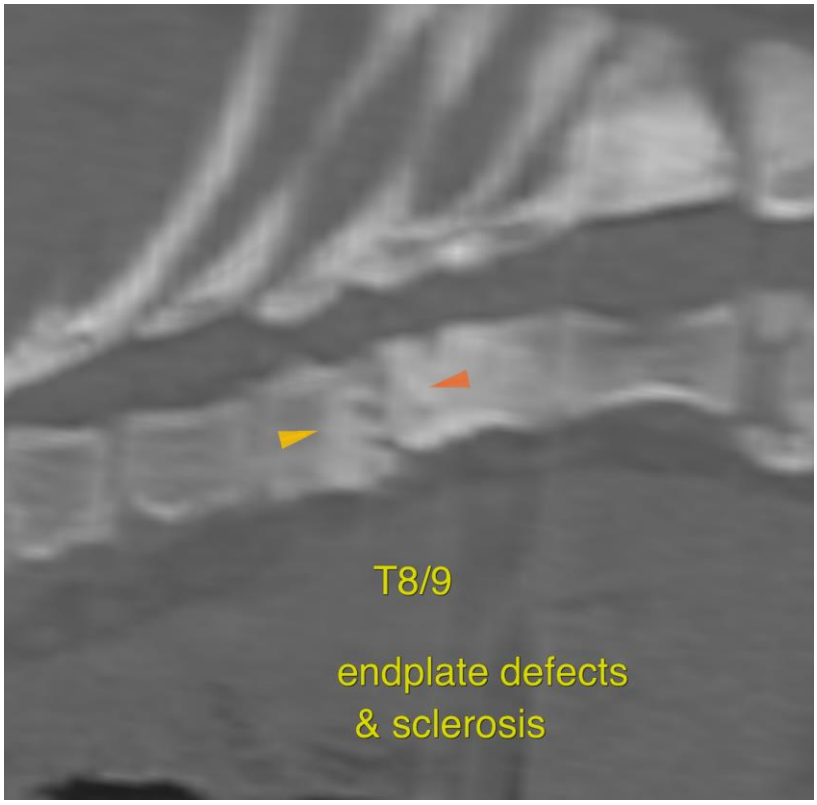

The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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Senior lecturer University of Giessen, Germany, Veterinary Faculty, Department of Radiology
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