



PATIENT PRESENTING CLINICAL SIGNS

Ava Benson hit by car, maxillofacial trauma

COMPUTED TOMOGRAPHY OF THE SKULL

SPECIES A high resolution pre- and post-contrast CT study of the skull are provided for review.

K9 **COMPUTED TOMOGRAPHIC FINDINGS**

The pictured parts of the dentition are complete.

BREED The mandibular symphysis is mildly widened and a step formation is seen between the left & right mandible.

Shepherd

SEX The osseous lining of the nasal cavity presents with multiple fracture lines – including the maxillary bone, palatine bone, nasal bone and left hamulus of the pterygoid bone – and moderate left dorsal deviation of the osseous structures is appreciated, resulting in distortion of the splanchnocranium. Fractures lines are extending into the alveolar crest of triadan 104 and 204. Triadan 204 is deviated in a rostrolateral direction. Multiple gas inclusions are seen in the widened alveolar crest of triadan 204. In the nasal cavity, a moderate amount of fluid attenuating material is attached to the nasal mucosal lining.

FS

AGE A long oblique fracture line is running through the right mandibular fossa of the zygomatic process of the right temporal bone. The ventral margin of the retroarticular process of the right mandibular fossa is separated from the proximal aspect. The left zygomatic process is separate from the temporal bone and deviated dorsally; multiple small isolated osseous fragments are appreciated in the fracture gap of the zygomatic process. At the medial aspect of the condylar process of the left mandible, an isolated mineral attenuating body is seen, measuring < 2mm in size.

7 Years

INTERPRETED BY

Sebastian Schaub, DVM
Dr. med. vet. DipECVDI

The osseous structures of the calvarium are intact.

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Multiple gas inclusions are extending along the retropharyngeal tissue bilaterally.

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A complex fracture of triadan 108 is appreciated and the crown is separate from the roots.

Both tympanic bullae are aerated, the mucosal lining is not seen, the bony wall is smooth and thin. The left external ear canal is within normal limits. The most medial aspect of the right external ear canal is indistinct

REFERRING VET

Fugazzi

The brain presents no deviation from normal anatomy and symmetry. The brain parenchyma is homogeneous and within normal limits for attenuation and distribution of contrast enhancement. The ventricular system is non-dilated and symmetric.

INVOICE

56659

DATE

2-8-23

COMPUTED TOMOGRAPHIC DIAGNOSIS

- History of craniofacial trauma
- Acute traumatic complex fracture of the splanchnocranium – including the maxillary, nasal and palatine bone bilaterally and secondary left dorsal distortion of the splanchnocranium
- Acute traumatic articular fracture zygomatic process bilaterally
- Partial avulsion of triadan 104
- Fractured alveolar crest 204
- Traumatic complicated fracture triadan 108



PATIENT

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- Suspect mandibular symphysis fracture
- Possible laceration of the right external ear canal

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SPECIES

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The findings are fitting the history of craniofacial trauma with multiple fractures of the splanchnocranium and secondary emphysema extending into the retropharyngeal tissue. Recommend discussing the chances of repositioning and stabilizing the luxated canine tooth with an intraoral splint system with dentist. Conservative management of the fractures of the splanchnocranium and the temporomandibular joints appears as the therapy of choice. Check for instability of the mandibular symphysis warranting surgical management.

BREED

Shepherd

Recommend otoscopic examination of the right external ear canal to rule out avulsion of the wall from the external acoustic porus.

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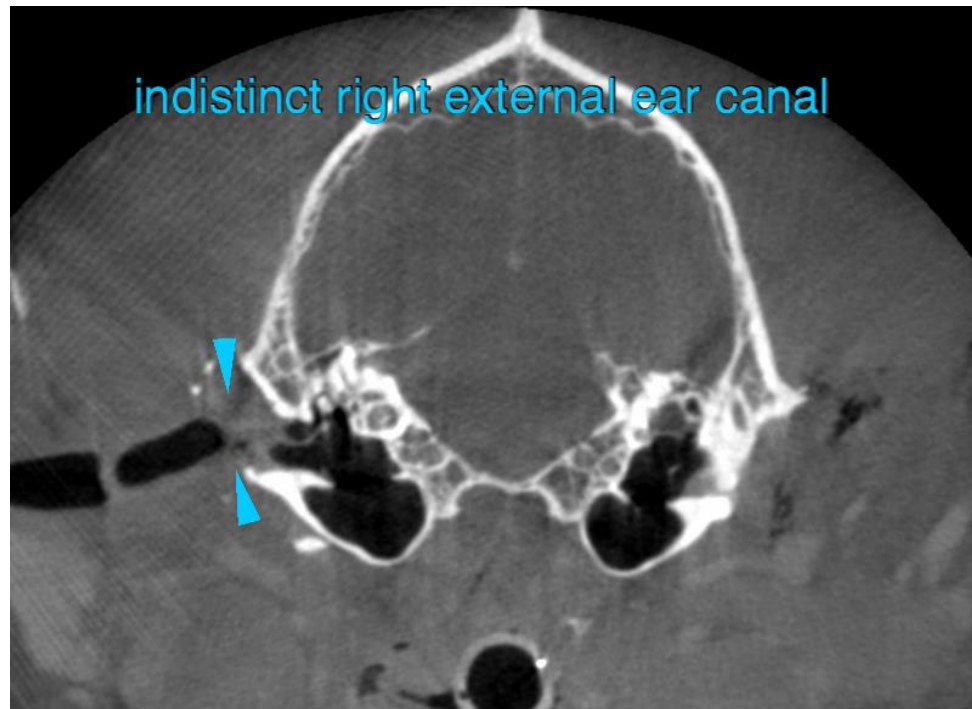
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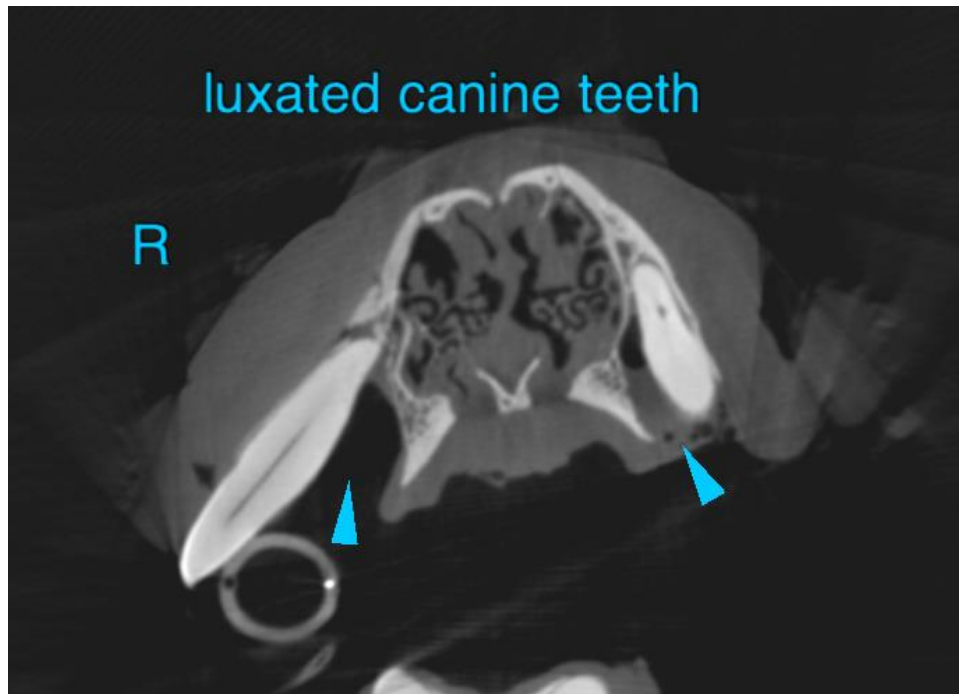
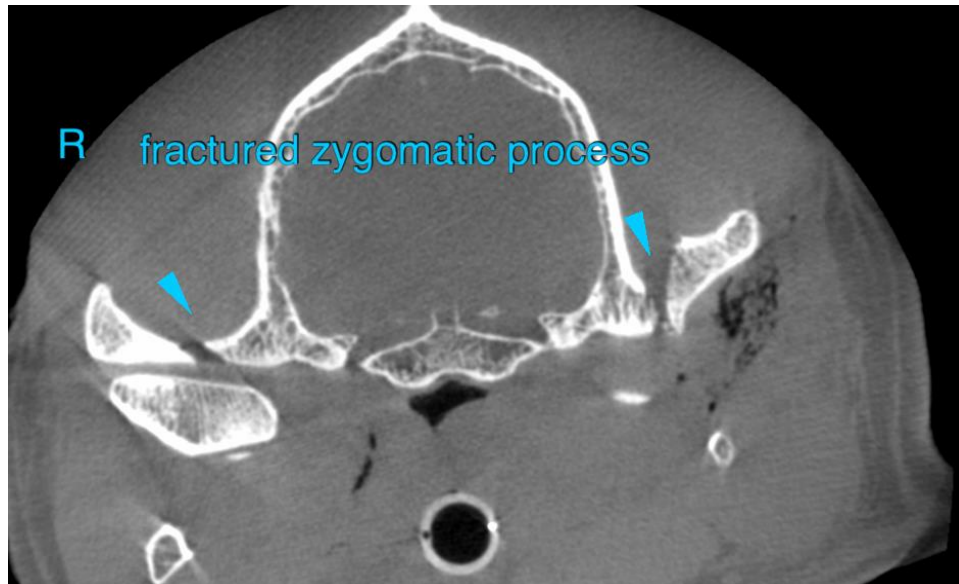
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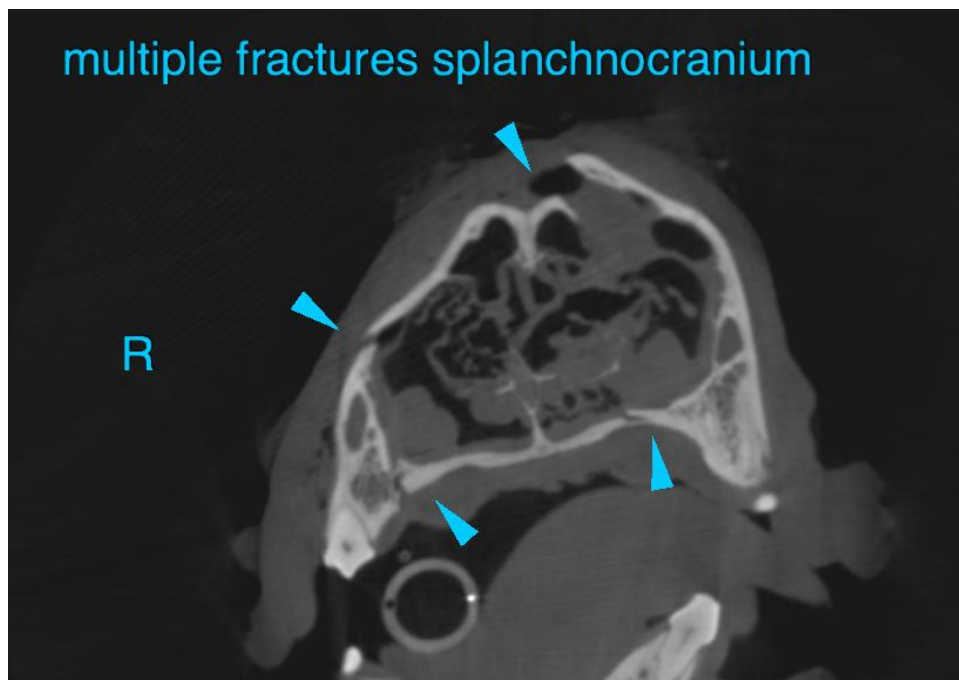
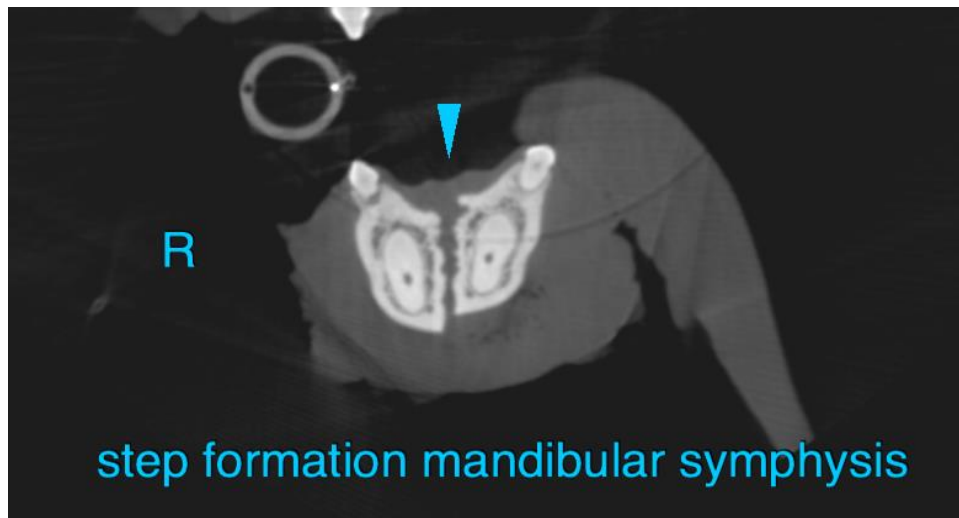
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

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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.

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