



PATIENT PRESENTING CLINICAL SIGNS

Saint Humans and Animals United

History: Rescued Pt, shot in the head 7 days ago. X-rays show two bullets lodged in the nasal cavity and upper skull.

Abnormal PE/Chem/CBC/UA Results: Scab present on dorsal muzzle

SPECIES

Canine

COMPUTED TOMOGRAPHIC STUDY OF THE HEAD

BREED

American Bulldog

Two bullets are detected. The first is located rostral to the right nasal exit in the ventral part of the right nasal cavity. The second is lodged in the soft tissues medial to the mandible adjacent to the temporomandibular joint. Both probably share the same point of entry with multiple fractures of the right nasal/maxillary bone and in case of the second bullet of the right sphenoid and vomeral bone.

SEX

Intact Male

The neurocranium shows normal findings. Bony structures of the skull and the skull foramina of the cranial nerves are laterally symmetrical and inconspicuous. Especially the right cribriform plate appears intact.

AGE

4 Years

The right tympanic bulla and the left frontal sinus present mild fluid accumulations. The left bulla is completely ventilated with a regular tympanic bulla wall. Both external ear canals are ventilated in all sections, walls of the external ear canals show moderate metaplastic calcifications. The adjacent temporomandibular joints and the nasopharyngeal meatus have no particular findings.

INTERPRETED BY

Sebastian Jawinski,
German Board
Certified Vet Specialist
in Diagnostic Imaging

The orbital contents are laterally symmetrical without evidence of a retrobulbar lesion. The teeth 201/202 present marked periapical bone lysis. The other maxillary/mandibular teeth show no particular findings.

Post contrast images show no pathological enhancement. Soft tissues of the head and neck are symmetrical and of homogeneous density, especially the medial retropharyngeal lymph nodes.

HOSPITAL NAME

Mobile Pet Imaging

COMPUTED TOMOGRAPHIC DIAGNOSIS

- First bullet (1) located rostral to the right nasal exit in the nasal cavity
- Second bullet (2) located in the soft tissues medial to the right temporomandibular joint
- Multiple bone fractures right nasal, maxillary, vomeral and palatine bone
- Mild fluid accumulations right tympanic bulla and left frontal sinus
- Periapical root abscess 201/202

REFERRING VET

Dr. Meaux

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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Borders to the cranial vault appear intact. Resection of the first bullet is recommended and could be performed guided by rhinoscopy. Removal of the second bullet could be challenging because of its location in the soft tissues. As long as normal function of the right temporomandibular joint is present the latter is not compellingly necessary. Currently subcutaneous emphysema due to the bullet wound

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is not detected. Emphysema could be an upcoming complication. The fluid accumulations in the right bulla and the left frontal sinus are considered to be secondary to bleeding/insufficient mucous clearance. The metaplastic calcifications represent breed-appropriate and chronic signs of a most probably non relevant otitis externa. Resection of 201/202 is recommended.

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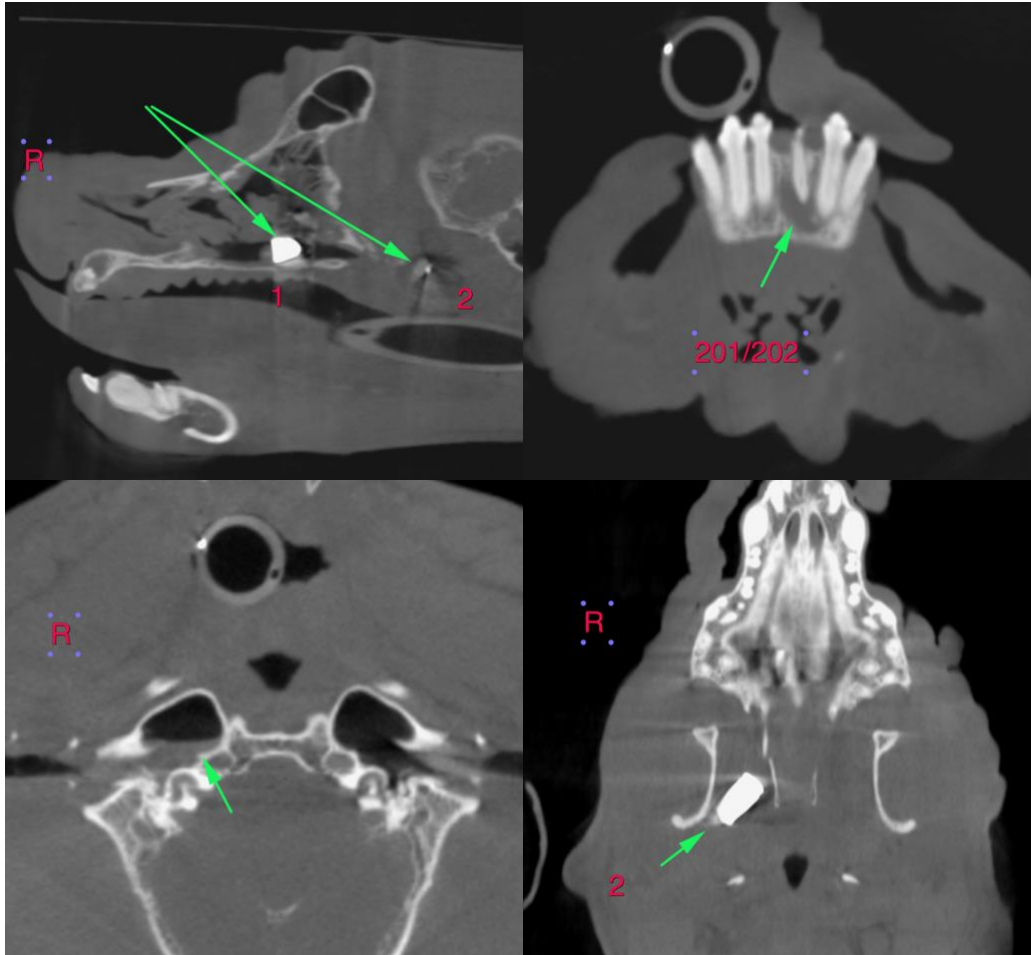
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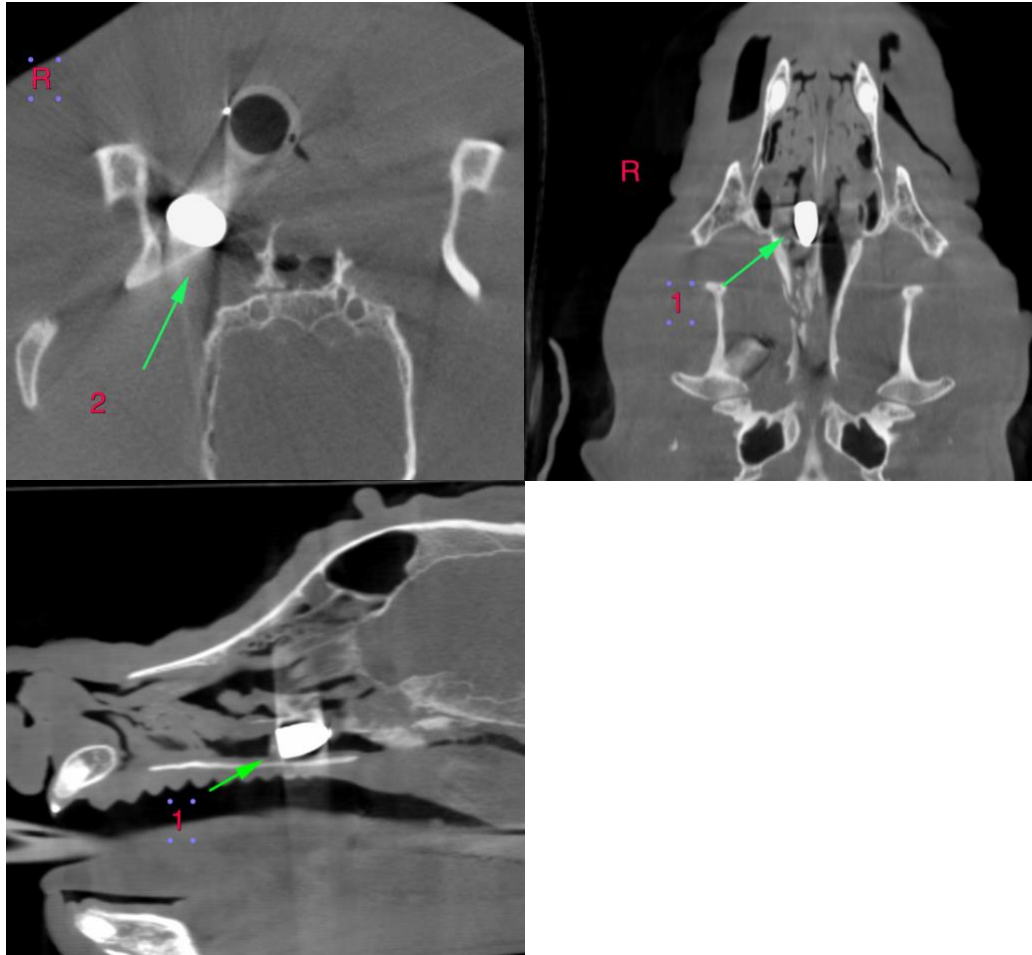
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Sebastian Jawinski, German Board Certified Vet Specialist in Diagnostic Imaging
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