

EQUINE TOMOSYNTHESIS

Head (P0041, 11 Aug 2020)

Clinic history: A 15-year-old Belgian Warmblood gelding used for combined driving was presented with a head trauma after receiving a kick from another horse.

Observations: On the clinical examination the horse presented bilateral epistaxis, absence of airflow on the right nasal passage (NP), diminished airflow on the left NP with abnormal respiratory noise and dyspnoea. There was a bone depression on the axial and right aspects of the nasal bone (NB) midway between the nostrils and the facial crest. There was no swellings or wounds present. The remainder of the clinical exam and the neurological examination were unremarkable. A nasopharynx tube was placed on the left NP to ensure normal airflow.

Diagnosis: Multiple skull fractures.

Radiography and digital tomosynthesis exams were performed for fractures diagnostics and precise localization. The follow-up CT exam (Fig. 1 and 4) completely confirmed previous digital tomosynthesis results (Fig. 2 and 3). The detailed report prepared by Dr. Vet. Joana Ramos presented in document “**CR1. Multiple Skull Fractures. Joana Ramos. Version 2.pdf**”.

Digital tomosynthesis study demonstrated similar images diagnostic value comparing to the CT.

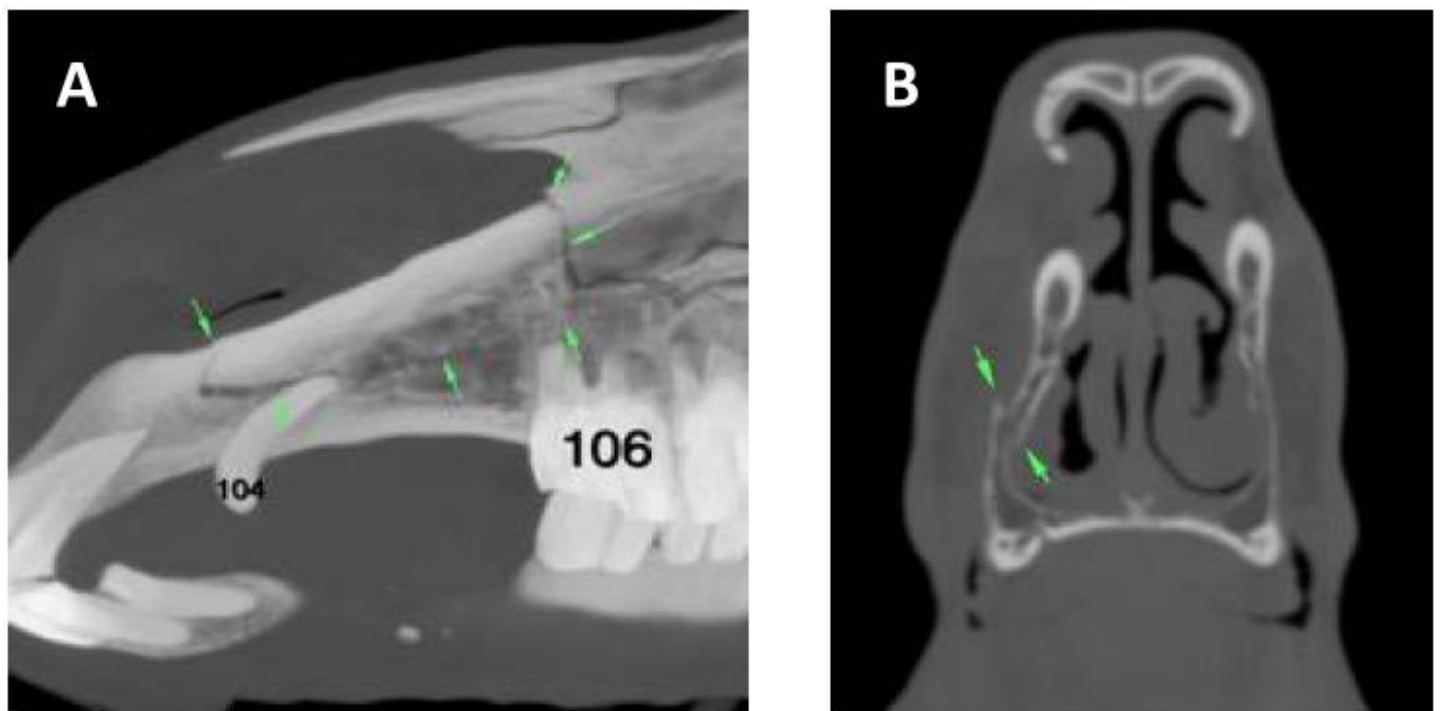


Figure 1. CT slices.

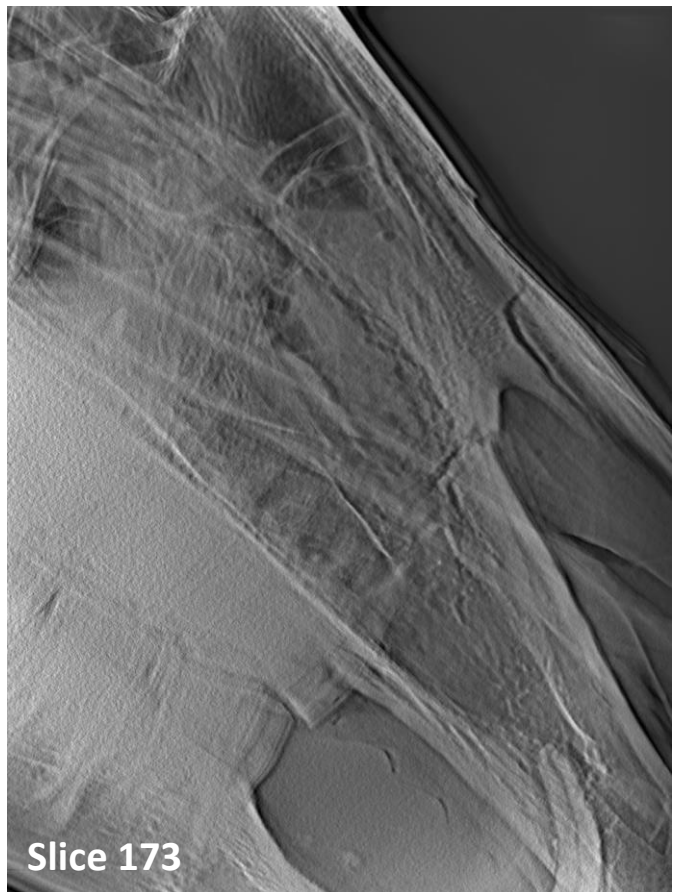
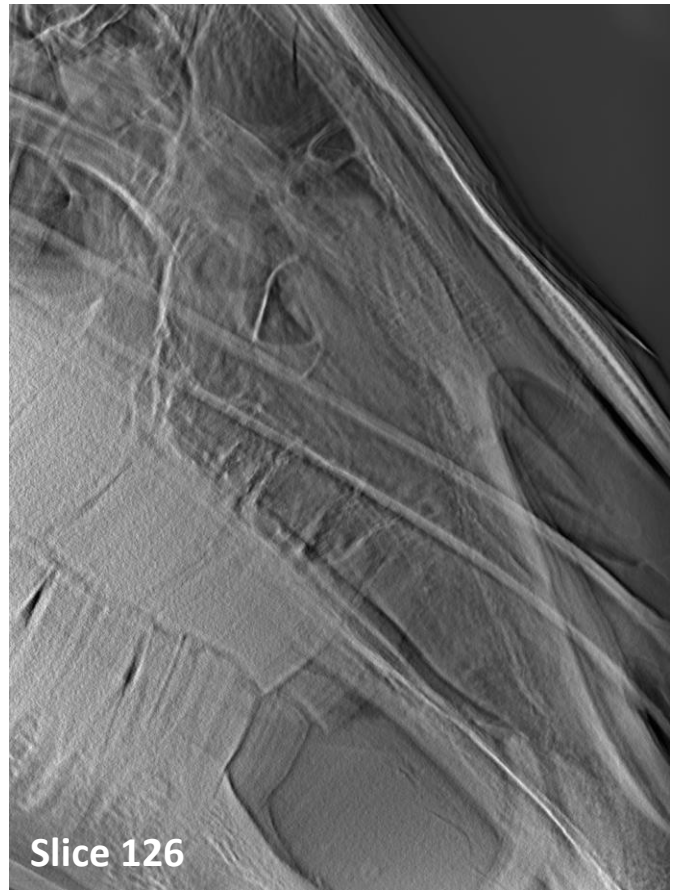
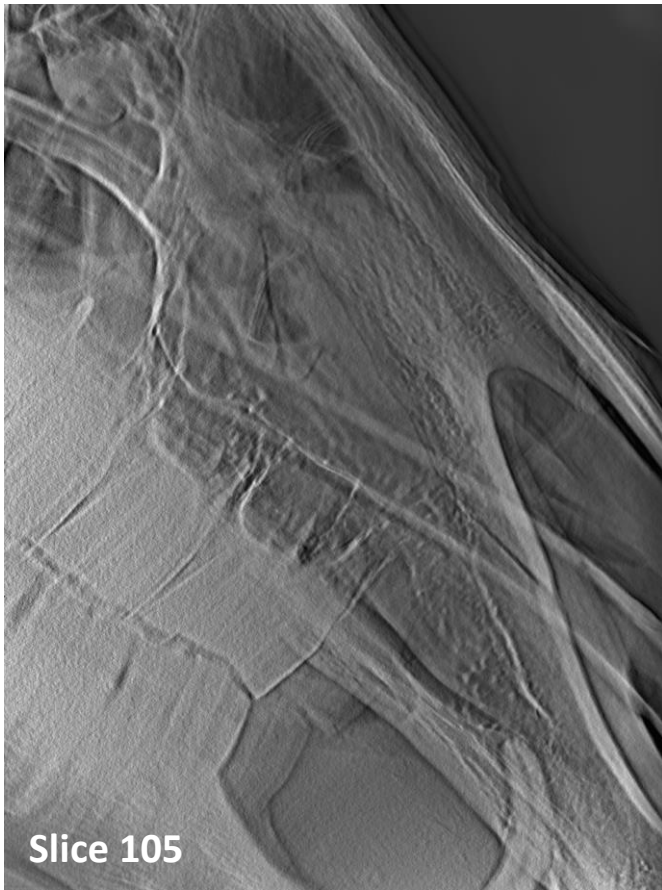


Figure 2. Tomosynthesis lateral view slices (L Head LM).

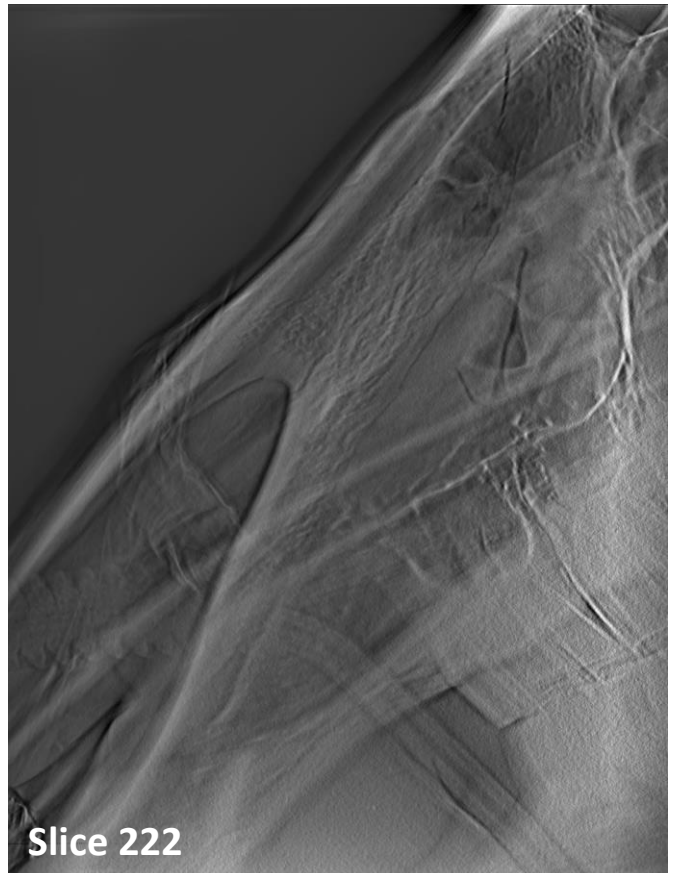
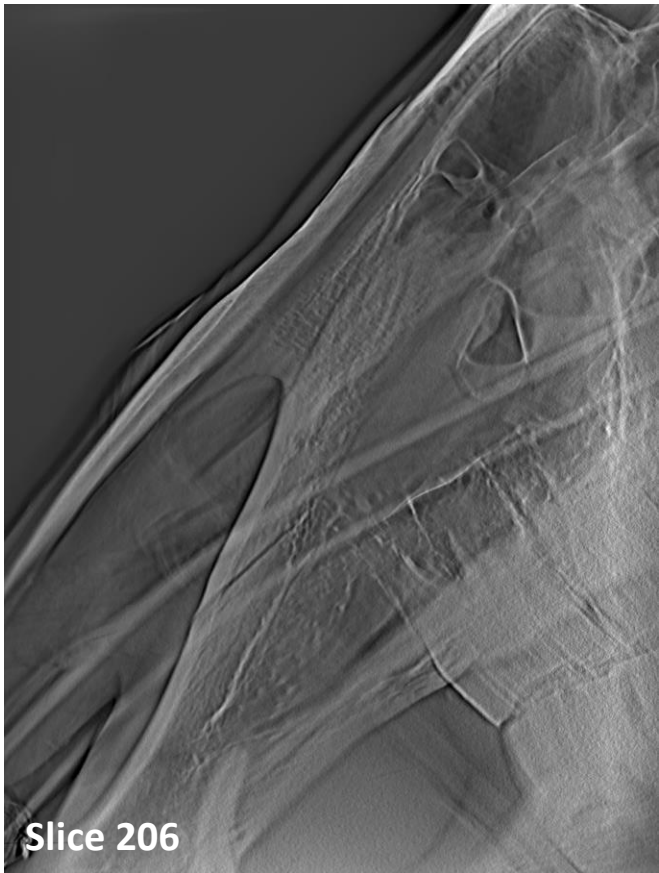


Figure 3. Tomosynthesis lateral view slices (R Head LM).



Figure 4. CT volume rendering.