CT Examination of the Guttural Pouch (Auditory Tube Diverticulum) in Przewalski’s Horse (Equus przewalskii)

Motoki Sasaki, Yoshihiro Hayashi, Hiroshi Koie, Yoshiki Yamaya, Unpei JKImura, Dugarjav Manglai, Schu Kawashima, Hideki Endo, Masako Yamamoto

The domestic horse (Equus caballus) have the large symmetrical guttural pouches (the auditory tube diverticulum) formed by saccate bulge of the auditory tube. In this study, CT examination was carried out in the head of Przewalski’s horse (Equus przewalskii), the only true wild horse living at present. As results of the examination, Przewalski’s horse possessed the large symmetrical guttural pouches divided into medial and lateral compartments by the stylohyoid bone. Moreover, the right and left guttural pouches meet each other at the median part to form a thin septum. As CT sections get close to the part of the occipital condyle, the lateral compartment disappeared, and the medial compartment gradually became small toward the base of the skull. These results indicate that the nuchal-basal part of the medial compartment is not well-developed as compared with the domestic horse.

引用文献 (19)
Przewalski's horse, also called the Mongolian wild horse or Dzungarian horse, is a rare and endangered horse native to the steppes of central Asia. At one time extinct in the wild (in Mongolia, the last wild Przewalski's horses had been seen in 1966), it has been reintroduced to its native habitat in Mongolia at the Khustain Nuruu National Park, Takhin Tal Nature Reserve, and Khomiin Tal. The taxonomic position is still debated, with some taxonomists treating Przewalski's horse as a species, E Objective: To identify features of guttural pouch (auditory tube diverticulum) empyema in horses and compare findings of uncomplicated guttural pouch empyema with guttural pouch empyema complicated by chondroids. Design: Retrospective study. Animals: 91 horses with guttural pouch empyema. Conclusions And Clinical Relevance: Horses with persistent nasal discharge should be examined endoscopically for guttural pouch empyema. Treatment with lavage offers a good prognosis for resolution of uncomplicated guttural pouch empyema. Aggressive treatment with lavage and endoscopic snare removal of chondroids offers a good prognosis and may make surgical intervention unnecessary. Download full-text PDF.