

Evaluation of Computed Tomographic Anatomy of Respiratory System in Caspian Pond Turtle (*Mauremys caspica*)

Authors : Saghar Karimi, Mohammad Saeed Ahrari Khafi, Amin Abolhasani Foroughi

Abstract : In recent decades, keeping exotic species as pet animals has become widespread. Turtles are exotic species from chelonians, which are interested by many people. Caspian pond and European pond turtles from Emydidea family are commonly kept as pets in Iran. Presence of the shell in turtles makes achievement to a comprehensive clinical examination impossible. Respiratory system is one of the most important structures to be examined completely. Presence of the air in the respiratory system makes radiography the first modality to think of; however, image quality would be affected by the shell. Computed tomography (CT) as a radiography-based and non-invasive technique provides cross-sectional scans with little superimposition. The aim of this study was to depict normal computed tomographic anatomy of the respiratory system in Caspian Pond Turtle. Five adult Caspian pond turtle were scanned using a 16-detector CT machine. Our results showed that computed tomography is able to well illustrated different parts of respiratory system in turtle and can be used for detecting abnormalities and disorders.

Keywords : anatomy, computed tomography, respiratory system, turtle

Conference Title : ICAPA 2018 : International Conference on Animal Physiology and Anatomy

Conference Location : Dublin, Ireland

Conference Dates : August 16-17, 2018