

Use of an Endoloop Ligature and a Two-Portal Coelioscopic Approach for the Removal of an Arrowhead Foreign Body in a Red-Tailed Hawk (*Buteo jamaicensis*)

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Abstract: A juvenile red-tailed hawk (*Buteo jamaicensis*) was presented to the Ontario Veterinary College from a wildlife rehabilitation facility for the assessment of an arrowhead foreign body injury. The hawk was found on the ground with the left wing in a dropped position. Radiographic images revealed an arrowhead foreign body superimposed over the left lung and thoracic air sacs, immediately medial to the ribs on the ventrodorsal view, and ventral to the scapulae on the right latero-lateral view. A coelioscopy was performed using a left lateral approach with a 2.7-mm rigid endoscope into the left caudal thoracic air sac, with an additional instrument port through the left abdominal air sac. The arrowhead was visualized adjacent to the left lung, separated from the cranial thoracic air sac cavity by a membrane of fibrous tissue. The tissue membrane was radiosurgically incised. Forceps were then used to guide the Endoloop around the arrowhead. The arrowhead was secured by tightening the Endoloop, and the body wall incision was extended to facilitate the arrowhead extraction.