

Design and fabrication of equine nasogastric intubation simulator as teaching aid for large animals

Eagan Boire¹

Ben Stoughton

¹ University of Prince Edward Island

Veterinary student opportunities to practice technical skills are limited by animal welfare concerns, safety and teaching animal availability. Developing an equine nasogastric intubation simulator will increase veterinary student access to practice this specific skill without exposing teaching animals to risk of epistaxis (nosebleed) caused by trauma to the ethmoids. A novel approach was taken to convert traditional computed tomography (CT) images to a 3D model which could then be developed into a mold using a high resolution stereolithography resin printer. The equine nasogastric intubation simulator is complete and testing is set to begin in a clinical environment pending ethics board approval.