SOP No: ATT 054

SUBJECT: Upper Airway Endoscopy in Horses (February 2016)

POLICY: This procedure may only be performed by operators who have been educated in the correct techniques, and under the supervision of their skilled Demonstrator. Leather boots and clean overalls must be worn.

PRECAUTIONS: The horse will be placed in a crush and will be suitably restrained by a skilled handler. A nose twitch would be used if additional restraint is required.

EQUIPMENT: Halter & lead
Twitch
Crush
Xylazine 100 mg/ml
Butorphanol 10 mg/ml
21 Gauge Needles
2.5 ml syringes
Alcohol Swabs
1.5 metre Videendoscope with Monitor and Light Source
Sterile lubricant
Gauze Swabs

PROCEDURE: 1. The horse is sedated with 0.2-0.5 mg/kg of Xylazine ± 0.02-0.05 mg/kg of Butorphanol. If additional restraint is required a nose twitch may be applied.

2. The horse’s nostrils are gently wiped cleaned with a damp gauze swab.

3. Two operators are involved in the procedure. One operator is responsible for passing the endoscope and the other operator is responsible for “driving” the endoscope (using the controls at the head of the endoscope). Both operators stand on the same side of the horse, not directly in front. In addition, a skilled handler will be present, also standing to the side of the horse at the level of the shoulder.

3. The endoscope tip is lubricated with a small volume of sterile lubricant and is then passed up the horse’s nose via the ventral meatus. The endoscope will be slowly advanced up into the nasopharynx of the horse and all structures of the nasal passages, pharynx and larynx are examined. If necessary, the endoscope will also be passed into the trachea to examine the large airways.

4. For examination of the guttural pouches, a guide wire is passed through the biopsy channel of the endoscope into the opening of a guttural pouch (on the same side as the nostril of entry). The endoscope is rotated so that the guide wire opens the guttural pouch opening and the endoscope is passed into the guttural pouch. Once inside the guttural pouch the guide wire is retracted.
5. When the examination is completed on one side the endoscope is gently removed from the upper airway and the procedure is repeated on the other side.

RECOMMENDATIONS:

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20.03.2013

REFERENCES: