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Hyperbaric Oxygen Treatment (HBOT) Study: Gastric Ulcers

- I. Hypothesis: Five treatments in the hyperbaric oxygen chamber will expedite healing of the equine gastric ulcer syndrome
- II. Study design:
 - a. Horses will be qualified for the study if they have a moderate to severe gastric ulcer disease. This is considered a Grade 3 or 4 on a scale of 1 to 4. The ulcers can be in either the squamous or glandular mucosa to qualify. The ulcers may also be present in both squamous and glandular mucosa of the stomach.
 - b. The initial gastroscopy will be paid in full by the client to the assessing veterinarian before acceptance to the study.
- III. Treatment:
 - a. The study horses will receive 5 daily treatments in the hyperbaric oxygen chamber at a treatment level of 22 PSI (2.5 ATM) of pressure for a treatment time of 45 minutes. The HBOT for the 5 treatments will be at no cost to the client.
 - b. The study horses must have all shoes removed before treatment.
 - c. The study horses may need sedation with detomidine for the HBOT sessions. The client will not be charged for sedation.
 - d. The study horses can not receive any other form of treatment for gastric ulcer disease during the study period.
 - e. The horses will receive a follow up Gastroscopy on day 6, after the 5 treatments in the oxygen chamber. The follow up Gastroscopy on day 6 will be at no cost to the client. The horse may begin routine treatment for Equine Gastric Ulcer Disease on day 6 after the gastroscopic exam.
- IV. The study horses can be treated on an outpatient basis. The study horses can be boarded at Reid & Associates Equine Clinic for the period of the study at a cost of \$70 for routine daily board. After hours treatments while boarded at Reid & Associates will incur an additional cost.