Effect of Age on the Inflammatory Response in Horses Following an Incremental Exercise Test

Horses are asked to engage in exercise throughout their lifetime, beginning in their yearling year. Post exercise inflammation and muscle soreness inhibits their ability to perform on subsequent days. The extent of inflammation and muscle soreness is dependent on the intensity and duration of the exercise and is identified by elevated inflammatory cytokines and muscle damage. Previous research suggests that young horses have lower endogenous inflammation, while aged horses experience a higher basal state of inflammation known as “inflamm-aging”. The population of aged performance horses is increasing, and anecdotal evidence shows a need for more research tailored to the unfit, aged horse. Therefore, this project was designed to evaluate the effect of age on inflammation and muscle soreness in unfit, horses as a response to exercise.

Event Information
October 25, 2022
2:00pm
Fred Pirkle Building
Room 320

Committee Members
Dr. Kyle Stutts
Dr. Jessica Bedore
Dr. Rafael Martinez