ACVIM American College of Veterinary Internal Medicine | ADVANCED CONTINUING EDUCATION

Advanced Equine Endocrinology
On Demand

Sponsored by

Boehringer Ingelheim

AGENDA		
Session Duration	**Topic**	**Presenter(s)**
60 minutes	Equine Endocrine Physiology • Understand the unique functions of the equine hypothalamic-pituitary-adrenal and thyroid axes, calcium and phosphorus homeostasis, and the regulation of energy and metabolism in horses and foals. • Recognize the complexity of hormonal interactions in health and the challenges in interpreting hormone concentrations in horses.	*Dr. Katarzyna Dembek*
60 minutes	Endocrinology in Inflammation • Understand how the immune and endocrine systems are activated and interact during critical illness and systemic inflammation. • Understand the clinical consequences, diagnosis, and management of endocrine dysfunction during critical illness in horses • Understand what is currently understood about immune function in PPID and EMS/insulin dysregulation.	*Dr. Kelsey Hart*
60 minutes	Endocrinology in Foals • Understand the specific roles of the hypothalamic-pituitary-adrenal axis, adrenal steroids, and neurosteroids, and how energy and metabolism are regulated in neonatal foals. • Recognize the complexity of hormonal interactions in health and critical illness in foals. • Understand current diagnostic and therapeutic approaches for common endocrinopathies in critically ill foals.	*Dr. Kelsey Hart* *Dr. Katarzyna Dembek*

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Session Duration	**Topic**	**Presenter(s)**
60 minutes	Endocrine Disorders and Reproduction • Endocrine diseases such as pituitary pars intermedia dysfunction and equine metabolic syndrome are common in the equine population, especially as horses age. • Endocrine diseases have diverse effects on equine reproductive performance, including altered estrous cycles, ovulation failure, decreased fertility, and changes to lactation. • Diagnosis and management strategies remain paramount for managing endocrinopathies to advocate for future reproductive success.	*Dr. Theresa Beachler*
60 minutes	Calcium and Phosphorus in Horses • Discuss equine calcium and phosphorus physiology, including factors involved in their regulation. • Discuss disorders of calcium and phosphorus regulation in horses, including their pathophysiology. • List diagnostics and treatments for equine calcium and phosphorus disorders.	*Dr. Ramiro Toribio*
60 minutes	Lipid Metabolism • Summarize the physiological pathways of lipid metabolism and the mechanisms by which lipids are utilized as an energy source. • Describe the process of lipid storage within adipose tissue and the factors that influence mobilization. • Explain the role of adipose tissue as an active endocrine organ, including the secretion of adipokines and their systemic effects. • Understand the pathophysiologic mechanism and dysregulation of lipid metabolism leading to hyperlipemia. • Analyze the relationship between lipid dysregulation, obesity, and insulin dysregulation in equine metabolic syndrome.	*Dr. Laura Dunbar Hostnik*

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Session Duration	**Topic**	**Presenter(s)**
60 minutes	Thyroid Function and Dysfunction • Present the main thyroid disorders in adult horses. • Recognise the clinical features of thyroid disorders in foals. • Describe the role of thyroid hormone supplementation in horses.	*Dr. François-René Bertin*
60 minutes	Panel Discussion • Discuss equine endocrinology physiology, inflammation, and disorders. • Discuss endocrine topics in foals. • Explore calcium and phosphorous and lipid metabolism in horses. • Discuss thyroid function and dysfunction.	*Dr. Kelsey Hart* *Dr. Katarzyna Dembek* *Dr. Theresa Beachler* *Dr. Ramiro Toribio* *Dr. Laura Dunbar Hostnik* *Dr. François-René Bertin* *Moderator: Dr. Erin Beasley*
60 minutes	PPID: Management Beyond Prascend • Understand current pharmacologic options for pituitary pars intermedia dysfunction. • Implement non-pharmaceutical management strategies in geriatric horses. • Adjust management of pituitary pars intermedia dysfunction to the response to therapy.	*Dr. François-René Bertin*
60 minutes	EMS: SGLT2i and Long-Term Management • Apply evidence-based dietary and exercise strategies. • Recognize emerging pharmaceutical therapies for insulin dysregulation in equine metabolic syndrome. • Adjust management of equine metabolic syndrome to the response to therapy.	*Dr. François-René Bertin*

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Session Duration	**Topic**	**Presenter(s)**
60 minutes	Nutrition of the Horse with PPID • PPID includes equids with a wide range of severity of clinical signs, body condition scores, insulin status and exercise levels. Diet should be tailored to the individual rather than using a generic diet for this condition. • Insulin dysregulation is common in PPID and must be considered in the dietary plan. • Dental disease is common in equids with PPID and should be considered in diet formulation. Forage replacers may be useful in affected cases.	*Dr. Edd Knowles*
60 minutes	Nutrition of the EMS horse (Obese and Lean) • Insulin responses to dietary stimulus vary considerably amongst EMS cases and exacerbated responses may be seen to meals as low as 0.1g/kg bwt NSC. Individual monitoring is important. • Long-term feeding of soaked hay alone risks dietary deficiencies. Protein, vitamin and mineral needs must be considered. • Dietary control alone may be difficult or may not result in a sufficiently fast response in some cases. Medical treatment can be used as an adjunct (rather than alternative) to dietary control.	*Dr. Edd Knowles*
60 minutes	Hyperinsulinaemia-associated Laminitis • Understand how insulin damages the lamellae. • Make a diagnosis of acute or subtle, subclinical hyperinsulinemia-associated laminitis from plain digital radiographs. • Formulate strategies for prevention and treatment of hyperinsulinemia-associated laminitis.	*Dr. Andrew van Eps*

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Session Duration	**Topic**	**Presenter(s)**
60 minutes	Metabolic Disorders of Donkeys • Describe known physiology differences between donkeys and horses. • Review published research relating to donkey metabolic diseases. • Discuss management techniques for donkeys with metabolic disorders.	*Dr. Emily Berryhill*
105 minutes	Bring Your Cases Panel Discussion • Explore and investigate current cases. • Apply topics to example case-studies.	*Dr. François-René Bertin,* *Dr. Andrew van Eps* *Dr. Emily Berryhill* *Moderator: Dr. Kath Mitchell*