

# Diagnosis and Management of Diabetic Ketoacidosis

Dr. Elisa Mazzaferro reviews the pathophysiology and treatment of diabetic ketoacidosis.

## Speaker Bio:

Dr. Elisa Mazzaferro is a Staff Criticalist at Cornell University Veterinary Specialists in Stamford, CT and an Adjunct Associate Clinical Professor of Emergency and Critical Care at Cornell University College of Veterinary Medicine. She is a 1997 graduate of Michigan State University College of Veterinary Medicine. She completed a four-year combined Emergency and Critical Care Residency and PhD in Small Animal Clinical Sciences at Colorado State University and became board-certified by the American College of Veterinary Emergency and Critical Care (ACVECC) in 2002. She is a Past-President of ACVECC and is the current President of the Veterinary Emergency and Critical Care Society. In 2018, she was the recipient of the VECCS Ira Zaslow Distinguished Service Award. Dr. Mazzaferro has given presentations in more than 10 countries and 21 States within the U.S. and has published 4 books, as well as numerous manuscripts and book chapters topics related to Small Animal Emergency and Critical Care. In her spare time, she enjoys gardening and relaxing with her 3 dogs and cat.

## Learning Objectives:

1. Know how to diagnose DKA
2. Know how to completely work-up potential causes of insulin resistance that can lead to DKA
3. Know how to manage a patient with DKA, with use of short and long-term insulin
4. Know how to manage acid-base and electrolyte abnormalities in the patient with DKA
5. Gain insight and confidence in the management of DKA in their practice
6. Share knowledge with their staff of nurses on the nursing management of the patient with DKA

## Agenda:

- Pathophysiology of diabetes mellitus in dogs and cats
- Pathophysiology of diabetic ketoacidosis
- Causes of insulin resistance
- Diagnostic testing in the DKA patient
- Treatment of DKA
- Treatment of underlying causes of insulin resistance
- Nutritional support of the DKA patient
- Insulin administration