

# Equine Feed Contamination and Toxicology

Dr. Karyn Bischoff reviews common equine feed contaminants, including mycotoxins, weeds, and botulinum toxin.

## Speaker Bio:

Karyn Bischoff, DVM, MS, Dipl. ABVT, is a veterinary toxicologist at the New York State Animal Health Diagnostic Center and an associate professor at Cornell University. She graduated with her bachelor's degree in Animal Science from the University of Wisconsin (Platteville campus), and she obtained her DVM from the University of Illinois. She earned her master's degree at Oklahoma State University while completing a residency in toxicology, and she went on to complete a pathology residency at the University of Florida.

## Learning Objectives:

1. Understand how feed contamination events can happen on a large or small scale.
2. Understand how contamination occurs due to formulation errors, adulteration, and natural contaminants.
3. Understand how to sample feed, provide proper legal documentation, and submit samples to a diagnostic laboratory.
4. Know what resources are available to veterinarians and horse owners in relation to feed contamination.

## Agenda:

- Introduction
  - When to suspect feed contamination
  - Types of contamination
  - Formulation errors
  - Who to contact
  - Collecting samples
  - Legal considerations
- Case Study
  - History
  - Mycotoxin analysis
  - Labwork
  - Necropsy
  - Histopathology
- Toxic Contaminants
  - Ionophores
  - Fumonisin
  - Cantharidin
  - Botulinum toxin
- Conclusions