



Dear Colleague:

We are proud to invite you to be our guest at a continuing education seminar presented by VCA and co-sponsored by Elanco.

## Update on Anesthesia/Analgesia

**Presented by William Muir, III, DVM, PhD, Diplomate ACVA, ACVECC**

Former Professor, Director Clinical Pharmacology, Section Head of Perioperative  
Medicine and Pain Management, The Ohio State University  
Former Chief Medical Officer, The Animal Medical Center, New York, NY

VCA has provided CE programs for its member hospitals in each region since 1996. We will continue to invite all of our area colleagues and appreciate your interest in joining us at these seminars. There is a nominal fee of \$110 to reserve a place at the seminar and to help cover costs for food and beverages. A full 6 hours of RACE accredited continuing education will be presented. We do hope that you will take this opportunity to join us for what promises to be an excellent program. Technicians are invited and encouraged to attend.

**Date: Sunday, June 11, 2017**

**Time: 9:00 a.m. – 4:30 p.m. Registration begins at 8:30 a.m.**

**Venue: Red Lion River Inn  
700 North Division St., Spokane, WA 99202 Phone: (509) 326-5577**

**Registration: \$110 - a complimentary lunch will be provided**

**Register online** at WOOF U<sup>®</sup>, our VCA CE registration site: <http://ce.vcaantech.com>. If this is your first time registering on WOOF U<sup>®</sup>, click the “Register” button. Otherwise, click the “Log In” button, and use the login and password you created previously. Click on the Event Calendar and locate the session. Click on the title of the session to open the details window for the event. Click “Add to Cart” at the bottom of the window. The shopping cart window will open. Verify the session information and click “Proceed to Checkout”. Choose your method of payment and place your order. A confirmation of enrollment will be sent to your e-mail.

**If you have any questions or need help with online registration, please contact Denise Hansen [denise.hansen@vca.com](mailto:denise.hansen@vca.com) or (509) 466-7115.**

**Deadline: Wednesday, June 7, 2017**

Sincerely,

**Todd R. Tams, DVM  
Diplomate ACVIM  
Chief Medical Officer**

**Tim Gintz, DVM  
Area Medical Director**

*Technicians are invited and encouraged to attend*

Course meets the requirements for 6.0 hours of continuing education credit in jurisdictions which recognize AAVSB RACE approval; however participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education. RACE Provider #19





## Update on Anesthesia/Analgesia

### Drug Combinations for a Variety of Clinical Situations

- Tranq/sedation
- Mild sedation for radiography
- Analgesics

### Injectable Anesthetics – What's New?

- Alphaxalone (Alfaxan<sup>®</sup>) updates and implementation

### Inhalant Anesthesia – How to make it more efficacious and safer

- Adjuncts to anesthesia: fentanyl, lidocaine, ketamine

### Fluid Therapy and Use of Colloids

- Crystalloids and the new veterinary tetrastarch (Vetstarch)
- Colloids side effects: coagulation and renal failure
- What fluid, when, how much, how fast

### Patient Monitoring

- Blood pressure
- End-tidal CO<sub>2</sub>
- Pulse variability index (PVI)

### Pain Management Protocols and Case Discussions

- Multimodal analgesia
- Supra-additive or synergistic drug combinations
- Multifunctional drugs

### Opioids and NSAIDs

- What combinations work the best

### William Muir III, DVM, PhD, Diplomate ACVA and ACVECC

Dr. Bill Muir graduated from Michigan State University in 1970. He received his PhD in Cardiovascular Physiology from The Ohio State University in 1974 and was a member of the faculty until November 2007. Dr. Muir served as the Chief Medical Officer at The Animal Medical Center in New York City until 2012. He is a Diplomate American College of Veterinary Anesthesiologists (1977) and American College of Veterinary Emergency and Critical Care (1989). Dr. Muir is a world-renowned researcher and clinician in anesthesiology and cardiovascular physiology. He also co-authored Mosby's Handbook of Veterinary Anesthesiology.

Dr. Muir is known as an outstanding speaker whose seminars provide cutting edge, clinically applicable information and consistently draw rave reviews.

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