

## SHORT CURRICULUM VITAE

### Michael Douglas Apley

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College of Veterinary Medicine, Department of Clinical Sciences  
Kansas State University, Manhattan, Kansas, 66506

#### Education and Board Certification

Date	Institution	Degree/Certification
July 1994	American College of Veterinary Clinical Pharmacology	Board Certification
May 1992	Kansas State University, Manhattan, KS	Ph.D. in Physiology*
May 1987	Kansas State University, Manhattan, KS	Doctor of Veterinary Medicine
Dec. 1981	Kansas State University, Manhattan, KS	Bachelor of Science

\*Work emphasizing clinical pharmacology

#### Professional Experience

- Jan 2012 – Present     **Section head, Agricultural Practices**, Department of Clinical Sciences, Kansas State University, Manhattan, KS
- Jan. 2006 – June 2011     **Director, PharmCATS Bioanalytical Laboratory**, Kansas State University, Manhattan, KS.
- Aug. 2005 – Present     **Associate Professor (2005-2009), Professor (2009-present)** Department of Clinical Sciences, Kansas State University, Manhattan, KS
- Oct. 2004 – July 2005     **Interim Director, Production Animal Medicine Unit**, Department of Veterinary Diagnostic and Production Animal Medicine, Iowa State University, Ames, IA.
- April 1996 – July 2005     **Assistant Professor (1996-2002), Associate Professor with Tenure (2002-2005)** Department of Veterinary Diagnostic and Production Animal Medicine, Iowa State University, Ames, IA.
- Jan. 1997 – Present     **Clinical Pharmacology and Production Medicine Consulting**
- May 1992 - Feb. 1996     **Veterinary Practitioner Specializing in Feedlot Consultation and Pharmaceutical/Biologics Research**, Veterinary Research and Consulting Services, Greeley, CO.
- Aug. 1989 - May 1992     **Temporary Instructor/Graduate Student**, Department of Anatomy and Physiology Kansas State University College of Veterinary Medicine, Manhattan, KS.
- May 1987 - Aug. 1989     **General Veterinary Practice**, Apley Veterinary Clinic, Larned, KS

#### Teaching- Iowa State University and Kansas State University

Beef production medicine, feedlot production medicine, food animal medicine, antimicrobial pharmacology, clinical pharmacology

## Continuing Education

Veterinary Continuing Education activities from 1991 through 2012 have included 198 veterinary CE meetings in 34 states and 5 Canadian Provinces. During 2002 – 2012, CE offerings totaled 276 hours. The topics centered on judicious antimicrobial use in food animals, therapeutics, antimicrobial resistance, policy and regulations related to food animal drug use, food animal clinical pharmacology, and evidence based medicine. During 1996-2012, 62 outreach presentations to producers were also presented.

## Leadership

President: American College of Veterinary Clinical Pharmacology (2007-2009)

Project Director: Veterinary Antimicrobial Decision Support System (VADS) 1999-2006. The VADS System is a web-based initiative by a group of 4 veterinary clinical pharmacologists to support food animal veterinary practitioners in using antimicrobials.

President: Academy of Veterinary Consultants (2004-2005), an 800 member group comprised of beef cattle veterinarians and allied industries

## Recent publications

Refereed publications

**Apley M**, Bush E, Morrison B, Singer R, Snelson H. Use estimates of in-feed antimicrobials in swine production in the U.S. *Journal of Foodborne Pathogens and Disease*, 9, 2012.

Martinez MN, **Apley MD**. Drug solubility classification in the bovine. *Journal of Veterinary Pharmacology and Therapeutics*, 35:93-97, 2012.

CC Croney, **M Apley**, JL Capper, JA Mench and S Priest. The ethical food movement: what does it mean for the role of science and scientists in current debates about animal agriculture? *Journal of Animal Science*, 90:1570-1582, 2012

Terrell SP, Thomson DU, Wileman BW, **Apley MD**. A survey to describe current feeder cattle health and well-being programs recommendations made by feedlot veterinary consultants in the United States and Canada. *Bovine Practitioner* 45:140-148, 2011.

Shang Q, Wang X, **Apley M**, Kukanich SB, Berkland C. PPF microsphere depot sustains NSAID blood levels with infusion-like kinetics without “burst”. *Journal of Veterinary Pharmacology and Therapeutics* E-pub ahead of publishing June 23, **2011**.

Lubbers BV, Peterson GJ, Narayanan SK, Havel JA, Coetzee JF, **Apley MD**. Effects of two simulated oxytetracycline dosing regimens on horizontal transfer of antimicrobial resistance plasmids in an in-vitro pharmacodynamic mode. *American Journal of Veterinary Research* 72:877-883, **2011**.

DeDonder K, Thomson DU, Loneragan GH, Noffsinger T, Taylor W, **Apley MD**. Lung auscultation and rectal temperature as a predictor of lung lesions and bovine respiratory disease treatment outcome in feedyard cattle. *Bovine Practitioner* 44:146-153, **2010**.

Gehring R, Beard L, Wright A, Coetzee JF, Havel J, **Apley MD**. Single-dose oral pharmacokinetics of pergolide mesylate in healthy adult mares. *Veterinary Therapeutics*. 11: E1-8, **2010**

Coetzee JF, Schmidt PL, O'Connor AM, **Apley MD**. Seroprevalence of *Anaplasma marginale* in Iowa feedlots and its association with morbidity, mortality, production parameters and carcass traits. *Canadian Veterinary Journal* 51:862-868, **2010**.

Reinbold JB, Coetzee JF, Gehring R, Havel JA, Hollis LC, Olson KC, **Apley MD**. Plasma pharmacokinetics of oral chlortetracycline in group fed, ruminating, Holstein steers in a feedlot setting. *Journal of Veterinary Pharmacology and Therapeutics*, 33:76-83, **2010**.

Coetzee JF, Kocan KM, Higgins JJ, **Apley MD**, Jones DE. Ultrastructural and fluorochromatic changes of *Anaplasma marginale* exposed to oxytetracycline, imidocarb and enrofloxacin in short-term erythrocyte cultures. *Veterinary Microbiology*, 136:45-43, **2009**.

Kotschwar JL, Coetzee JF, Anderson DE, Gehring R, KuKanich B, and **Apley MD**. Analgesic efficacy of sodium salicylate in an amphotericin B-induced bovine synovitis-arthritis model. *Journal of Dairy Science*, 92 :3731-3743, **2009**.

Wagner SA, Jones DE, **Apley MD**. Effect of endotoxic mastitis on epithelial cell numbers in the milk of dairy cows. *American Journal of Veterinary Research*, 70: 796-799, **2009**.

Gehring R, Coetzee JF, Tarus-Sang J, **Apley MD**. Pharmacokinetics of ketamine and its metabolite norketamine administered at a subtherapeutic dose together with xylazine to calves prior to castration. *Journal of Veterinary Pharmacology and Therapeutics*, 32:124-128, **2008**.

Coetzee, JF, Lubbers, BL, Toerber, SE, Gehring, R, Thomson, DU, White, BJ and **Apley MD**. Plasma concentrations of substance P and cortisol in beef calves after castration or simulated castration. *American Journal of Veterinary Research*. 69(6): 751-762, **2008**.

Lubbers B, **Apley MD**, Coetzee JF, Mosier DA, Biller DS, Mason DE. Use of computerized tomography to evaluate pathologic changes in the lungs of calves with experimentally induced respiratory tract disease. *American Journal of Veterinary Research*. 68:1259-1264, **2007**.

**Apley MD**, Coetzee JF, Immerman PM, Karriker LA, Gehring R. Ampicillin pharmacokinetics in swine following needle-free, intramuscular, and intravenous administration. *Journal of Veterinary Pharmacology and Therapeutics*. 30(5):417-421, **2007**.

#### Book Chapters

Francoz D, Buczinski S, **Apley M**. Evidence Related to the Use of Ancillary Drugs in Bovine Respiratory Disease (Anti-Inflammatory and Others: Are They Justified or Not? *in* The Veterinary Clinics of North America, Food Animal Practice, Evidence-Based medicine for the Bovine Veterinarian, W. B. Saunders, Philadelphia, (28:1). **2012**.