

2/08/10

SHAUNA L CANTWELL
DVM MVSc Diplomate ACVA

Courtesy Assistant Professor
Dept of Small Animal Clinical Sciences
College of Veterinary Medicine
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POST-SECONDARY EDUCATION

1995-1998 **Master of Veterinary Science**
 Residency in Veterinary Anesthesiology
 Western College of Veterinary Medicine
 University of Saskatchewan, Saskatoon, SK, Canada

1985-1989 **Doctor of Veterinary Medicine**
 Western College of Veterinary Medicine
 University of Saskatchewan, Saskatoon, SK, Canada

1982-1985 **Zoology (Honors Program - Cell Biology and Physiology)**
 (degree deferred for entrance to WCVM)
 University of Alberta, Edmonton, AB, Canada

AWARDS

1996 **ACVA/ANESCO Resident Research Award**
1984 **NSERC Summer Studentship**
1983 **Dean's Honor Role, University of Alberta**

PROFESSIONAL ORGANIZATIONS

Diplomate of American College of Veterinary Anesthesiologists
American Veterinarian Medical Association
Florida Veterinary Medical Association
Pennsylvania Veterinary Medical Licensure
Maryland Veterinary Medical Licensure
International Veterinary Academy of Pain Management
American Veterinary Chiropractic Association
American Holistic Veterinary Medical Association

PROFESSIONAL EXPERIENCE

2002- present **Anesthesiology locums:**
 Ross College of Veterinary Medicine, St. Kitts, West Indies
 Western College of Veterinary Medicine, University of
 Saskatchewan

2008 – 2009 **Veterinary Orthopedics and Sports Medicine Hospital,**
 Baltimore, MD. Consultant for Pain Management and
 Complementary Medicine

2008-present **Courtesy Appointment, Dept of Small Animal Clinical Sciences**
 College of Veterinary Medicine, University of Florida

2007-2009 **Always Helpful Veterinary Services (JMSHoemaker, DVM)**
 Complementary Medicine, Equine and Small animals Nottingham,
 PA

2007-present **Medicine Wheel Veterinary Services, Inc (SLCantwell, DVM)**
 Integrative and Complementary Medicine, Equine / Small Animals
 Anesthesiology Consultation
 Contractual Lecturer

2004-present **Courtesy Appointment in Dept of Anesthesia**
 College of Medicine, University of Florida

2000-2008 **Clinical Assistant Professor, Anesthesiology and Pain Mgmt**
 College of Veterinary Medicine, University of Florida

1998-2000 **Lecturer, Anesthesiology**
 College of Veterinary Medicine, University of Florida

1995-1998 **Combined Residency and MVSc in Veterinary Anesthesiology**
Western College of Veterinary Medicine, University of
Sakatchewan
 Research: One Lung versus Two Lung Ventilation in the Dog:
 Comparison of Cardiopulmonary Parameters

1990-1995 **Winnipeg Animal Emergency Clinic** (small animal practice)
 Winnipeg, Manitoba

1992-1995 **Anderson Animal Hospital** (small animal practice)
 Winnipeg, Manitoba

1990-1992 **Transcona Veterinary Hospital** (small animal practice)
 Winnipeg, Manitoba

1989-1990 **Selkirk Veterinary Service** (mixed practice)
 Selkirk, Manitoba

RELATED EXPERIENCE

1998 **Residency Externship** University of Liverpool, emphasis on
 equine emergency anesthesia

1997 **Residency Externship** Small Animal Intensive Care Unit
 U.C.Davis, Davis, California

1985 **Department of Pharmacology, University of Alberta**
 Summer Research Assistant

1984

Project: Calcium channel quantification in rat cardiac myocytes using radioisotope labeling

Department of Zoology, University of Alberta

Summer Research Assistant

Project: Collection and analysis of oocyte lectins of *Xenopus laevis* using microdissection and electrophoresis

PUBLICATIONS

Cantwell SL. Traditional Chinese Veterinary Medicine: The Mechanism and Management of Acupuncture for Chronic Pain. Topics in Companion Animal Medicine. 2010 Publication pending.

CV Fiorello, M Cunningham, **SL Cantwell**, J Levy, E Neer, K Conley, P Rist. Diagnosis and treatment of presumptive post obstructive pulmonary edema in a Florida panther. JZooWildlMed. 2007 Jun;38(2):317-22

Cantwell SL, Brooks DE, Xie H, Sapp HL. Electro-acupuncture to decrease intraocular pressure in Rhesus monkeys with chronic glaucoma. (abstract ARVO 2007, Fort Lauderdale, Fl) IOVS 2007;48:ARVO E-abstract 1281

Cantwell SL, Noble M. Investigation into the effect of acupuncture to prevent the development of low blood pressure after the administration of acepromazine and morphine to healthy surgical patients. Manuscript in preparation.

Cantwell SL. Pain Management III: Ancillary Therapies. In Seymore and Duke (Ed) BSAVA Manual of Canine and Feline Anaesthesia and Analgesia, 2nd Ed. 2007.

Cantwell SL, Robertson S. Equine Pain Management. In Auer JA and Stick JA (Ed) Equine Surgery. 3rd Ed, Saunders, 2005.

Valverde A, **Cantwell S**, Hernandez J, Brotherson C. Effects of Acepromazine on the Incidence of Vomiting Associated with Opioid Administration in Dogs. Veterinary Anaesthesia and Analgesia, 30:1-6, 2003

Valverde A, **Cantwell S**, Hernandez J, Brotherson C. Effects of Acepromazine on the Incidence of Vomiting Associated with Opioid Administration in Dogs. Abstract. ACVA Proceedings of the 27th Annual Meeting, Orlando, 2002 (presented by AV)

Lampotang S, Liem EB, Lizdas E, **Cantwell S**, Modell JH. Web-based, Interactive Simulation of an Anesthesia Machine. Abstract. ACVA Proceedings of the 27th Annual Meeting, Orlando, 2002 (presented by SL)

Dunn M, Taylor S, Matt G, **Cantwell S**, et al. Effects of Theophylline on Transmucociliary Clearance Rates in Healthy Cats. Am J Vet Res 63(9):1320-2, 2002

Cantwell SL, Modell JH. Inadvertent severe hypercarbia associated with anesthesia machine malfunction in one cat and two dogs. *JAVMA*, 219:1573-1576, 2001

Modell JH, **Cantwell SL**, Hardcastle J, Robertson S, Pablo L. Using the Human Patient Simulator to Educate Students of Veterinary Medicine. *JVMed*, 29(2):111-116, 2002

Modell JH, **Cantwell SL**, Hardcastle J, Robertson S, Pablo L. Using the Human Patient Simulator to Educate Students of Veterinary Medicine. Abstract. ACVA Proceedings of the 25th Annual Meeting, San Francisco, 2000. (presented by JHM)

Bailey J, Robertson S, Pablo L, **Cantwell S**, Davis W. Effect of inhaled Alpha2 adrenergic receptor agonist on arterial partial pressure of oxygen in hypoxemic anesthetized horses. 25th Annual Meeting of the American College of Veterinary Anesthesiologists. San Francisco, California, October 2000; page 27

Cantwell SL. Ferret, Rabbit, and Rodent Anesthesia. *Vet Clin North Amer SA*, 4(1):169-191, 2001

Cantwell SL, Duke T, Walker D, Walsh P, Remedios AM, Ferguson J. One Lung versus Two Lung Ventilation in the Dog: Comparison of Cardiopulmonary Parameters. *Vet Surg* 29(4): 365-373, 2000

Cantwell SL, Duke T, Walker D, Walsh P, Remedios AM, Ferguson J. One Lung versus Two Lung Ventilation in the Dog: Comparison of Cardiopulmonary Parameters. Abstract ACVA, Proceedings of the 21st Annual Meeting, New Orleans, 1996. (presented by SLC) AVA Edinburgh Spring Meeting, 1998. (presented by TD)

Cantwell SL. Epidural Analgesia. *Horse Health Lines*. Equine Health Research Foundation Newsletter, WCVN, October 1997.

Walsh JP, Remedios AM, Ferguson J, Walker DD, **Cantwell SL**, Duke T. Thoracoscopic versus Open Partial Pericardectomies in Dogs: Comparison of Postoperative Pain and Morbidity. *Vet Surg* 28(6): 472-9, 1999
Abstract. The Seventh Annual American College of Veterinary Surgeons Symposium, Orlando Florida, 1997. (presented by JPW)

Caulkett NA, **Cantwell SL**, Houston DM. A Comparison of Indirect Blood Pressure Monitoring Techniques in the Anesthetized Cat. *Vet Surg*. 27(4): 370-377, 1998.

Caulkett NA, Cattet M, **Cantwell SL**. Anesthesia of wood bison with medetomidine-zolazepam/tiletamine and xylazine-zolazepam/tiletamine combinations. *Can Vet J* 41(1): 49-53, 2000

Caulkett NA, Cattet M, **Cantwell SL**. Anesthesia of wood bison with medetomidine-zolazepam/tiletamine and xylazine-zolazepam/tiletamine combinations. Abstract. ACVA, Proceedings of the 23rd Annual Meeting, Orlando, 1998. (presented by NAC)

Webb AA, **Cantwell SL**, Duke T, Adkins E. Intravenous regional analgesia (Bier Block) in a dog. *Can Vet J* 40(6):419-21, 1999.

Hall T, Duke T, Townsend HG, Caulkett NA, **Cantwell SL**. Effect of Opioid and Acepromazine Premedication on the Anesthetic Induction Dose of Propofol in Cats. *Can Vet J.* 40(12): 867-70, 1999

Dryden WF, Tawfic NH, **Cantwell SL**, Clanachan AS, Hunter EG. Inotropic and Dysrhythmic Effects of Bay KB644 and 3H-Nitrendipine Binding in Rat Myocardium following Dietary Supplementation with Different Lipids. *J Molec and Cell Cardiol.* 18 (Suppl.1). 1986.

GRANTS

2007-2009 Cantwell SL PI, Brooks DE, Xie H. Study in progress at UF (American Holistic Veterinary Medical Assoc.) *Electroacupuncture and Laser compared with sham acupuncture to decrease the intraocular pressure in primates*

2005 Cantwell SL PI, Brooks DE, Xie H. University of Florida Seed Grant
Pilot Study to Evaluate the Effectiveness of Electroacupuncture as a Therapeutic Modality to Decrease Intraocular Pressure using a Rhesus Monkey Glaucoma Model

2003 Cantwell SL PI, Medical Education Technology Inc
Human Patient Simulator Workshop
Cantwell SL PI, Col. K.L. Campbell Centre for the Study of Animal Welfare
Human Patient Simulator Workshop

PROJECTS IN PROCESS

- Assessment of Postural Changes by veterinary students and staff after veterinary spinal manipulative therapy (animal chiropractic), a controlled study.
- Electroacupuncture compared with sham acupuncture to decrease the intraocular pressure in primates
- Multiple clinical case reports

SCIENTIFIC PUBLICATION REVIEW

2007-present Research in Veterinary Science
2007-present Veterinary Anesthesia and Analgesia
2006-present American Journal of Traditional Chinese Veterinary Medicine
2004 Journal Zoo Med and Wildlife
1997- 2000 Canadian Veterinary Journal

CONSULTATION

2008 Veterinary Orthopedics and Sports Medicine: Baltimore, MD
 2003/4 Troubleshoot and develop anesthesia protocol for Animal Science UF
 2001 Marine mammal anesthesia (Busch Gardens, FL)
 1998 Elephant anesthesia (Ringling Brothers, Florida)
 1998-2000 Marine mammal anesthesia (Sea World, Florida)
 1998-present Telephone consultation with general practitioners
 1996 MRI-Assisted Brain Surgery Project (Manitoba)

PRESENTATIONS / SEMINARS / WORKSHOPS

2006-present Healing Oasis School of Veterinary Chiropractic: Invited lectures for
 Master program in Functional Neurology:
 Principles of Pain I and II
 Review of Neurobiology of Pain
 Somatic Analgesia
 Neuropathic Pain
 Rehabilitation and Pain Management
 Equine Pain Management
 Immunobiology of Pain
 2009 (Nov) Ross University School of Veterinary Medicine, St. Kitts, West Indies
 Holistic and IVAPM club Weekend Workshop: Acupuncture Pain
 Management and TCVM
 2009 Tallgrass Acupressure Institute, Colorado: Tui Na Workshop Weekend
 2009 (Apr) Ross University School of Veterinary Medicine, St. Kitts, West Indies
 Noon Seminar: Introduction to Acupuncture: The Discovery of Healing
 Pins in Veterinary Medicine
 Student Holistic Club and student IVAPM: Feline TCVM demonstration
 2009 Healing Oasis Wellness Center: Lecturer and Lab Instructor
 Invited lectures: Temporomandibular Joint & Stomatognathic System
 Introduction to the Brachial and Lumbosacral Plexus
 2008 American Veterinary Chiropractic Assoc annual conference
 Pain Management Principles I and II
 Neuropathic Pain: Neurobiology and Treatment Strategies
 2008-present Chi Institute: Tui Na for Veterinarians
 Equine Tui Na lectures and lab
 2008 Western College of Veterinary Medicine (U Saskatchewan)
 IVAPM (student chapter): Acupuncture and TCVM Weekend Workshop
 2008 Healing Oasis Wellness Center: Invited lectures
 Pain Management Principles I and II
 Review of Cranial nerves, Brachial and Lumbosacral Plexus
 2008 Chi Institute: Classical Equine Acupuncture – Lab TA
 2007 Arredondo Pony Club: TPR and Emergency Acupressure
 2007-2008 Healing Oasis: Instructor (Techniques Lab and Lecturer)
 Invited lectures: Temporomandibular Joint and Stomatognathic System
 2007 Chi Institute: Tui Na for Veterinarians (primary instructor)
 2007 Chi Institute: Tui-Na I and II for veterinary technicians

Equine Trigger Points for Equine Practitioners
Tui Na for Equine Practitioners

- 2007 Tallgrass Acupressure Institute, Colorado: Tui Na Workshop Weekend
- 2007 Seminar for Japanese Veterinarians: Equine Anesthesia, University of Florida, College of Veterinary Medicine, Gainesville, FL
- 2004-present Equine Acupuncture Labs: Chi-Institute Equine course
- 2007 Cantwell SL, Brooks DE, Xie H, Sapp HL. Electro-acupuncture to decrease intraocular pressure in Rhesus monkeys with chronic glaucoma. (poster, ARVO 2007, Fort Lauderdale, FL)
- 2007 Western College of Veterinary Medicine, University of Saskatchewan: Invited lecture. Evidence-based Acupuncture – A prospective, randomized, masked, trial.
- 2006 Senior Project VM 5991: Effect of Acupuncture on Blood Pressure (presented by senior student M.Noble)
- 2006 Referral DVM Day (UF): What's new in Equine Field Anesthesia?
- 2006 Interdisciplinary Production Medicine and Dairy Science Seminars (UF) Anesthesia and Pain Management in Ruminants
- 2006 AAVMC Educational Symposium
Invited lecture: Human Patient Simulator in Veterinary Education
- 2006 Health Science Anesthesiology Resident Seminars:
Invited Lecture: Veterinary Obstetrical Anesthesia
- 2005 CPC: Myths and Misconceptions in Anesthesia
- 2004/5 Canine Breeders Symposium: Invited discussion: Alternative Medicine
- 2004 American Society of Regional Anesthesia, Orlando FL
Invited Lecture: Regional Anesthesia in Veterinary Patients
- 2004 North American Veterinary Conference
Masterclass: Incorporation of Hospice Care to Practice
Alternative Medicine: Terminal Life Care in Veterinary Medicine
- 2003 ACVS 13th Annual Symposium, Washington DC
Invited lectures:
1. Perioperative Equine Analgesia
2. Perioperative Small Animal Analgesia
3. Small Animal Pain Case Studies
4. Pain, What you should know (technician forum)
5. Ins and Outs of the Anesthesia Machine, Go with the flow (technician forum)
- 2003 Create and present: Human Patient Simulator Workshop I and Human Patient Simulator Educators Workshop II
World Congress of Veterinary Anesthesia, Knoxville
- 2002 Presentation of Human Patient Simulator Tutorial
ACVA 27th Annual Meeting, Orlando, 2002
- 2002 UF VMTH CPC Pain Control, Vision of Excellence, a case report
- 2001 UF VMTH Technician Lectures CPR
- 2001 UF VMTH CPC Anesthetic Complications with Forelimb Surgery
- 1999 UF VMTH CPC. Anesthesia for Thoracic Surgery

- 1999 UF Dept LACS. Central Pain Sensitization: The Role of Epidural Ketamine
- 1997 VECCS Student Chapter. Lecture. Introduction to Critical Care
- 1997 Western Canada Feedlot Management School. Use of Xylazine Epidural in the Castration of Mature Bulls. Discussion and Demonstration
- 1997 Dept of Vet Physiology, U of S. Tramadol in Veterinary Medicine?
- 1997 Dept of Pharmacology, U of S. Central Pain Sensitization: The Role of Epidural Ketamine
- 1997 Dept of VTARS. Mechanism of Action of Volatile Anesthetics
- 1996 Dept of VTARS. Hemodynamics of Canine Septic Shock: Pathophysiology and Stabilization
- 1996 Dept of VTARS. Ventilatory Support in the ICU: The Role of Radiology
- 1996 ACVA Conference. Abstract: One Lung versus Two Lung Ventilation in the Dog: Comparison of Cardiopulmonary Parameters

MAGAZINE FEATURES

- Chester County Press (May 2008): TCVM at Always Helpful Veterinary Services
- Dog Fancy (Jan 2008) How Chester Got His Chi Back
- Horseshow Life (CanterburyEquestrianFacility.org): TCVM and Equine Therapy
- NPR radio "Morning Edition" (June 8, 2004): The Human Patient Simulator

CURRICULUM DEVELOPMENT

- 2005/6 Co-Coordinator. **Clinical Skills Course:**
Introducing Human Patient Simulator to teach anesthesia principles
Educational video/debrief sessions to implement critical thinking skills

TEACHING: Veterinary Curriculum

- 2009 Ross University of Veterinary Medicine
Clinical locum, Lab Instruction (Sheep, Donkeys, K9 Spays, CPR)
Lectures: Pain Physiology
Pain Assessment
- 2008 Oregon State University, CVM
Analgesia Elective Course: Pathophysiology, Pain Assessment and Scoring, Pharmacology and Local Anesthesia Techniques, Alternative and Complementary Strategies, Ethics. This 40 hour intensive course was a combination of didactic, wetlab, problem-oriented work, case studies and daily journal club with scientific assessment.
- 1995-2008 University of Florida and University of Saskatchewan Veterinary student lectures and labs in the area of Anesthesia, Pain Management, Pharmacology and Critical Care
University of Florida Clinical Management of senior veterinary students and residents in Veterinary Teaching Hospital

Academic Advisement/Supervision

- 1999-2008 Veterinary students

Anesthesia residents – shared supervision
Surgery and medicine residents
EVECC resident
Small animal interns

CONFERENCES

2009 Chi-Institute: Chinese Food Therapy
2008 American Veterinary Chiropractic Association, Atlanta GA
2008 Postural Rehabilitation, Introduction, Maximum Horsepower, Nottingham, PA
2007 Equine Postural Rehabilitation III, Maximum Horsepower, Nottingham, PA
2007/2008 Equine Postural Rehabilitation II, Maximum Horsepower, Nottingham, PA
2007 Canine Postural Rehabilitation, Maximum Horsepower Nottingham, PA
2007 IVECCS/ACVA, New Orleans, LA
2007 American Veterinary Chiropractic Association Internship week, Always Helpful Veterinary Services (J. Shoemaker DVM, Nottingham PA)
2007 Association for Research in Vision and Ophthalmology (Ft Lauderdale, FL)
2006 Veterinary Spinal Manipulation certification course, Wisconsin
2006 AAVMC Washington DC
2005 Chi-Institute: Equine classical Acupuncture
2005 Chi-Institute: Tui-Na (Chinese Medical Rehabilitory Body Work)
2004 ACVA – Phoenix, AZ
2004 ASRA – Orlando, FL
2004 NAVC – Orlando, FL
2003 ACVS Conference
2003 Stallion Behavior Course – Ocala, FL
2003 Purina-Mills Equine Nutrition Program, Louisville, MO
2003 World Congress of Veterinary Anesthesia, Knoxville, TN
2001-2 ACVA Conference: Orlando FL
2001-2 Chi Institute: Mixed Animal Acupuncture, Reddick, FL
2000 UF University Center for Excellence in Teaching
1998 AVA Edinburgh Spring Meeting
1997 U of S - Problem Oriented Learning day meeting
1996 ACVA/ASA Conference, New Orleans, LA
1996 International VECCS Symposium, San Antonio, TX
1995 AAHA Conference, CO
1994 ACVIM Conference, San Francisco, CA
1993 Western States Conference, Las Vegas, NV
1992 North American Veterinary Conference, Orlando, FL

COMMITTEES / OFFICES HELD

2008-present ACCAC Examination Committee
 2008 AVCA Accreditation Commission
 2007-present AHVMA Research Committee
 2007 UF Admissions Committee
 UF Curriculum committee
 UF ICU committee
 2006-present AJTCVM Advisory Board
 2006 UF Curriculum committee
 2005-present UF Acupuncture Internship Committee
 2005 UF Faculty Search and Screen Committee – Anesthesia
 Assistant/Associate/Full Professor
 2005 UF Faculty Search and Screen Chair – Anesthesia Clinical Assistant
 Professor
 2005 UF Faculty Search and Screen Committee – SA Surgery Clinical
 Assistant Professor
 2005 UF Faculty Search and Screen Committee – SA Surgery Clinical
 Instructor
 2005-2007 UF Small Animal Emergency Task Force
 2005 UF Imaging Task Force
 2005/6 **UF Service Chief: Anesthesia and Pain Management**
 2004/5/6 UF CVM Curriculum Committee
 2004-present UF Courtesy Appointment with College of Medicine, Dept
 Anesthesiology
 2003/4/5 UF CVM Instructional Committee
 2003-4 UF CVM Hospice/Palliative Care Committee - Chairman
 2003-4 UF Health Science Simulation Center – CVM Representative
 2003 UF LA Surgery Lecturer Search and Screen Committee
 2002-2004 ACVA Education Committee – Chairman (coordinate ACVA national
 meeting)
 2000-03 UF UF Admissions Committee
 2000 UF Small Animal Hospital Expansion Committee
 2000 UF Faculty Search and Screen Committee – SA Surgery Clinical Assistant
 Professor
 1999 UF Faculty Search and Screen Committee - SA Surgery Lecturer
 1994-95 Dressage Winnipeg - Executive: Public relations/Ethics
 1990-94 Winnipeg Academy of Veterinary Medicine - Secretary
 1988-89 WCVM Honor Code Committee - Chairman

OTHER SKILLS

2007-8 Postural Rehabilitation, Equine and Canine (Maximum Horsepower)
 2006 Certification: Veterinary Spinal Manipulative Therapy
 (Animal Chiropractic, Healing Oasis Wellness Center, 250 hrs)
 2002 Certification: Mixed Veterinary Acupuncture
 (Chi Institute of Chinese Medicine, 160 hrs)
 Florida State Veterinary Accreditation