December 2019

 **Curriculum Vitae**



**ANDY SHORES, D.V.M., M.S., Ph.D.**

**Diplomate, ACVIM (Neurology)**

# Clinical Professor and Chief, Neurosurgery/Neurology

**Department of Clinical Sciences / College of Veterinary Medicine**

**Mississippi State University / Clinical Outreach**

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**EDUCATION**

 Postgraduate:

 Auburn University College of Veterinary Medicine

 Ph.D. and Neurosurgery/Neurology Residency

 Graduation: August 1985

 Purdue University School of Veterinary Medicine

 M.S. degree /Small Animal Surgery Residency

 Graduation: December 1982

 Professional:

 Auburn University College of Veterinary Medicine

 Doctor of Veterinary Medicine

 Graduation: June 1977

 Pre‑professional:

 Auburn University School of Agriculture

 Department of Animal and Dairy Sciences

 September 1970 ‑ June 1973

**CERTIFICATION**

American College of Veterinary Internal Medicine (Neurology)

 ACVIM Neurosurgery Certificate of Training

**EMPLOYMENT ‑ ACADEMIC POSITIONS**

 January 2011 – Present: Clinical Professor and Section Chief, Neurosurgery / Neurology

 Mississippi State University and Veterinary Specialty Center

 College of Veterinary Medicine

 Mississippi State, MS 39762

 Companion animal neurosurgery and neurology, electrodiagnostics, clinical and didactic instruction and supervision of 3rd and 4th year students, interns, and surgical residents, faculty and student rounds, clinical research, short course participation

 August 2007 – December 2010: Clinical Professor, Neurosurgery/Neurology

 Auburn University College of Veterinary Medicine

 Auburn, AL

 Companion animal neurosurgery and neurology, electrodiagnostics, clinical and didactic instruction and supervision of 3rd and 4th year students, interns, and surgical residents, faculty and student rounds, clinical research, short course participation

 June 2002 – August 2007: Clinical Professor, Surgery / Neurology

 Mississippi State University College of Veterinary Medicine

 Mississippi State, MS

 Companion animal surgery (soft tissue, orthopedic, neuro), medical neurology, electrodiagnostics (EEGs, EMGs, NCVs, Evoked Potentials), CT and MR interpretation, clinical and didactic instruction, supervision of 3rd and 4th year students, interns, and surgical residents, faculty and student rounds, clinical research, short course participation

 August 1995 – June 2000: High School Science Teacher / Varsity Baseball and Softball Coach

 St. Andrew’s Episcopal School

 Ridgeland, MS

 Biology/Honors Biology, AP Biology, Physics, and Anatomy and Physiology

 Lecture and laboratory instruction to high school students in an accelerated program.

 August 1988 ‑ August 1995: Associate Professor, Neurology/Neurosurgery

 Michigan State University College of Veterinary Medicine,

 East Lansing, MI

 Companion animal neurosurgery and neurology, MRI interpretation, clinical instruction and supervision of senior students, technicians, interns and residents on neurology/neurosurgery rotation, electrodiagnostics (EEGs, EMGs, NCVs, Evoked Potentials), lectures to Phase II students, faculty and student rounds, short course participation

 October 1985 ‑ July 1988: Associate Professor, Neurosurgery/Neurology

 Mississippi State University College of Veterinary Medicine

 Mississippi State, MS

 Companion animal neurosurgery and neurology, clinical instruction and supervision of Phase III students and clinical instructors, electrodiagnostics (EEGs, EMGs, NCVs, ERGs, Evoked Potentials), Phase II and III lectures, faculty and student rounds, Coordinator of Companion Animal Research, clinical research, short course participation

 September 1982 ‑ September 1985: Resident in Neurosurgery/Neurology

 Auburn University School of Veterinary Medicine

 Department of Small Animal Surgery and Medicine

 Auburn University, AL

 Rotations through neurosurgery, neurology, neuropathology, general surgery, orthopedic surgery, electrodiagnostics and internal medicine, lectures to junior and senior class surgery courses, supervision and instruction of senior students in clinics, junior student surgery lab supervision and instruction, ICU supervision, short course participations.

 September 1980 ‑ September 1982: Resident in Small Animal Surgery

 Purdue University School of Veterinary Medicine

 Department of Small Animal Clinics

 West Lafayette, IN

 Rotations through general surgery, neurosurgery, orthopedic surgery, cardiovascular surgery, lectures in junior class surgery courses, supervision and instruction of senior students in clinics, junior student surgery lab supervision, short course participations.

**EMPLOYMENT ‑ NON‑ACADEMIC**

 October 1995 – August 2007: Staff Neurologist/Surgeon

 Animal Health Center

 Madison, MS

 Referral and Consultation Practice; General and Orthopedic Surgery, Neurosurgery,

 Neurology.

 April 1981 ‑ November 1981: Consulting

 Castleton Animal Emergency Clinic

 Indianapolis, IN

 Approximately two weekends per month, accompanied by Purdue senior veterinary students. Emergency receiving, medicine and surgery.

 June 1980 ‑ August 1980: Relief Veterinarian

 Greater Atlanta, GA area

 June 1977 ‑ June 1980: Associate Veterinarian

 Riverdale Animal Hospital

 Riverdale, GA

 Small animal surgery and medicine, emergency clinic duties.

**PROFESSIONAL ASSOCIATIONS**

 AVMA, ACVIM, Veterinary Neurosurgical Society (Founding Member), Southeastern Veterinary Neurology Association

**STATE LICENSURE**

 Virginia, 6/77; Georgia, 6/77; Mississippi, 6/77; Indiana, 12/81, Michigan, 12/89, Alabama, 8/07

**HONORS, AWARDS, ACTIVITIES**

 Founding Member, Veterinary Neurosurgical Society, 2013

 ACVIM Neurosurgery Certificate of Training, May 2012

 Honduras Medical Mission Team – Episcopal Diocese of MS, 2000, 2004-2019

 -- Chief Veterinary Medical Officer 2014/2015/2020

 Excellence in Teaching Award, Michigan State University CVM, 1995

 Who's Who in Veterinary Science and Medicine, 1991

 President, American Veterinary Neurology Association, 1990, 1991

 Editorial Review Board AM J Vet Res, 1986‑1989

 Who's Who in Veterinary Science and Medicine, 1987

 Phi Zeta, Omicron Chapter ‑ Initiation April 1982

 Outstanding Young Men of America 1981

**RESEARCH**

* Canine Immuno Neurotherapeutics for Grade III Glial Cell Brain Tumors. NIH

Chambers R, Gillespie GY, Cartner SC, Shores A, Platt S, Taylor AR, et al. $342,165

* S100 Beta Serum Protein Levels in Normal Adult Canines. Intramural Funding.

Shores A, Cade J, Shores LE, Marquart-Ezell T, Thoresen M, Wollums A. $4050

* Pharmacokinetics of intravenous levetiracetam in dogs. Burkland E, Beasley M, Shores A. Funded Clinical Investigation, MSU-CVM 2017. $2000
* Development and Design of a 2.0 Bone Anchor – Project with MSSTATE Bioengineering Students & CMF Medicon Surgical, Inc
* Development and Design of a Ventricular Drainage System - Project with MSSTATE Bioengineering Students and Dr. Daniele Daw. $2000
* Canine Atlantoaxial Locking Compression Plate (CALCP). Lamont A, VanCott K, Shores A.

AgBio Engineering Senior Project / Funded, Completed 5/15.

* Small Animal Coma Scale Smart Phone App and Data Collection.. Shores A, et al. Funded Clinical Investigation, MSU-CVM 2013 – Present
* Modified Segmental (Paper Clip) Fixation of the Canine Spine. Shores A, Kwan M, Elder S, Rich J et al.

Funded Clinical Investigation, MSU-CVM. 2013-Present.

* Comparative Genomics Project: Canine and Human Meningiomas. Chow B, Chambers M, Shores A. Funded Investigation, $50,000. 2012 - 2016
* In vivo noninvasive single voxel 1H MRS at 3T for the evaluation of intracranial neoplasms in the dog. Gambino J, Shores A, et al. Funded Morris Animal Foundation. 2013 – 2017. $30,000
* Chemical Enhancement of EEG Activity in Clinical Patients With CNS Disease.

 Shores A, Tepper L. Independent Funding – MSU-CVM. 2006 – 2007.

* Ultrasound-Guided CSF Collection in the Canine. Lee W, et al.

 Internship Funding Program, MSU-CVM. 2005-2006.

* Canine CSF Lactate Levels – Clinical Evaluation of Normal and Pathologic Samples. Corrigan A, Shores A – Internship Funding Program, MSU-CVM. 2004-2005.
* The Effect of Electromagnetic Pulsing on Posterior Lumbar Fusion in Dogs -- Phase II. Co-investigator with S Arnoczky and N Kahanovitz -- funded through EBI Medical Systems, Inc, 1994.
* The Effect of Electromagnetic Pulsing on Posterior Lumbar Fusion in Dogs -- Phase I. Co-investigator with S Arnoczky and N Kahanovitz -- funded through EBI Medical Systems. Inc, 1993-94.
* Correlation of Canine Brain Anatomy with 4.7 Telsa Magnetic Resonance Imaging ‑ Co-investigator with Drs. Perry and Bowker ($2500), 1993-94.
* Clinical evaluation of anterior cervical corpectomy and fusion with and without anterior plate instrumentation: A canine model - Co-investigator with Dr. Jeff Cantor, Wm Beaumont Hospital Research Center, Royal Oak, MI; Pilot project, 1993.
* Biomechanics of Canine Thoracic Spinal Fixation: Comparison of the Luque and Lubra Techniques ‑ Companion Animal Research Fund ‑ $2,100, Principal Investigator - project completed 1/91; Research manuscript published 12/91.
* Development and clinical evaluation of the Small Animal Coma Scale (SACS) for small animal craniocerebral trauma. Statistical analysis of cumulative data, 1992-94.

**PUBLICATIONS**

 Refereed Articles

1. Chambers MR, Crossman, D, Foote, JB,Gillespie, GYancey, Markert,JM, Shores A, Platt SR, et al. **The One Health Consortium: Design of a Phase I Clinical Trial to Evaluate M032, a Genetically Engineered HSV-1 Expressing IL-12, in Combination with a Checkpoint Inhibitor in Canine Patients with Sporadic High Grade Glioma. JAVR** (submitted, August 2019)
2. Shores A, Little A, Taylor R, et al. **A Novel Ultrasound Guided Cerebral Biopsy Device.** Submitted *Vet Surg* (July 2019).
3. Shores A, Lee A, Kornberg S, Brinkman E, Beasley M. **Intraoperative Ultrasound Applications in Intracranial Surgery.** Submitted JAVMA (2019)
4. Griffin C, Mochal-King CA, Grissett GP, Shores A. **Suprascapular nerve decompression for treatment of neuropathy in a bucking bull**. JAVMA 255 (5): 591-594, Sep 2019.
5. Kay Jr W, Gambino JM, Lunsford KV, Mackin A, Shores A, Cooley J, Beasley MJ. **Acute cerebrovascular event in a dog with polycythemia vera**. Can Vet Journal 59(7): 755-758, 2018.
6. Rich JJ, Simon KL, Spangler EA, Shores A. **What Is Your Neurologic Diagnosis? (*Intracranial TVT*).**  JAVMA 252 (12):1467-70, Jun 2018.
7. Gibson R, Shores A, Cooley J. **What Is Your Neurologic Diagnosis? (*Glioblastoma*).** JAVMA 253(5): 559-62, Sep 2018.
8. LaRue MK, Taylor AR, Back AR, Lindley SE, Boudreaux BL, Almond GT, Shores A, et al.. **Central nervous system lymphoma in 18 dogs (2001-2015**). J Sm Anim Pract 59(9):547-52, Sep 2018.
9. M. R. Chambers, Daxa M. Patel, Kimberly P. Kicielinski, Frank J. Crisona, Dongquan Chen, Andy Shores, et al. **PCM-07 COMPARATIVE GENOMICS: THE DOG AS A TRANSLATIONAL MODEL FOR MENINGIOMA**. Neuro-Oncology 06/2016; 18(suppl 3): p. iii140.
10. Ortinau N, Vitale S, Akin E, Beasley M, Shores A. **Foramen magnum decompression surgery in 23 Chiari-like malformation patients 2007-2010: Outcomes and owner survey results.**  Can Vet J 56(3):288-91, 2015
11. Perez M, Shores A, Beasley M, et al. **Management of Head Trauma: A Clinical Practice Review in Small Animals. Part 1.** J Lat Amer Vet Emer Crit Care Soc. 7:3, 6-22. Aug 2015.
12. Perez M, Shores A, Beasley M, et al. **Management of Head Trauma: A Clinical Practice Review in Small Animals. Part 2.** J Lat Amer Vet Emer Crit Care Soc. 7:3, 23-40. Aug 2015.
13. Tepper LC, Shores A: **Electroencephalographic Recordings in the Canine: Effects of Low Dose Medetomidine or Dexmedetomidine Followed by Atipamezole.** Open Journal of Veterinary Medicine 4 (2): 7-13. 2014.
14. Rush M, Shores A, et al. Growing Skull Fracture in a Red-Tailed Hawk (Buteo jamaicensis). J Zoo Wildl Med. 45(3):658-63, 2014
15. Zimmerman D, Douglass M, Sutherland-Smith M, Aguilar R, Schaftenaar W, Shores A: **Cervical Instability in Komodo Dragons (Varanus komodoensis).** J Zoo Wildl Med. 40(1):207-10. 2009.
16. Shores A, Tepper LC: **A** **Modified Ventral Approach to Atlanto-Axial Junction**. *Vet Surg* 36:765-770. 2007.
17. Carnes MB, Shores A: **Idiopathic Trigeminal Neuritis.** Standards of Care: Emergency and Critical Care Medicine 10(9): 8-10, 2007.
18. Kahonovitz N, Arnowczky SP, Nemzek J, Shores A: **The effect of electromagnetic pulsing on posterior lumbar fusion in dogs**. Spine 19(6):705-709, 1994.
19. Shores A, Blaiset MA, Thomas MW, et al: **Three-dimensional computed tomography of an osteolytic perivertebral neoplasm in a dog**. Prog Vet Neurol 3: 131-133, 1992.
20. Shores A, Haut R, Bonner JA: **An in vitro study of plastic spinal plates and Luque segmental fixation of the canine thoracic spine** Prog Vet Neurol 2:279-285, 1991.
21. Shores A: **Instrumentation for intracranial surgery**. Prog vet Neurol 2:175-182, 1991.
22. Sorjonen DC, Golden DL, Levesque DC, Shores A, Moore MP: **Cerebrospinal fluid electrophoresis: Diagnostic capabilities in dogs with central nervous system disorders**. Prog Vet Neurol 2:261-267, 1991.
23. Shores A**: Use of the ultrasonic aspirator in intracranial surgery: Technique and case reports**. Prog Vet Neurol 2:89-94, 1991.
24. Shores A, Vaughn DM, Holland M, Smith B, Simpson ST, Burns J: **Glossopharyngeal neuralgia syndrome in a dog**. J Am Anim Hosp Assn 27:101-104, 1991.
25. Shores A, Purvis JD, Jones D, Boring JG, Lester TS: **Segmental spinal instrumentation (Luque®) fixation of a thoracic vertebral fracture in an adult chimpanzee**. J Am Vet Med Assn 198:306-308, 1991.
26. Shores A, Cooper TG, Warber‑Matich S: **The role of magnetic resonance spectroscopy in neuro‑oncology**. Seminars in Vet Med 5:237‑240, 1990.
27. Braund KG, Shores A, Brawner W: **Symposium on acute spinal cord trauma: Part 1 ‑ Etiology, pathogenesis, and pathology**. Vet Med July 1990, 684‑691.
28. Braund KG, Shores A, Brawner W: **Symposium on acute spinal cord trauma: Part 2 ‑ Neurologic syndromes**. Vet Med July 1990, 692‑701.
29. Brawner W, Braund KG, Shores A: **Symposium on acute spinal cord trauma: Part 3 ‑ Diagnosis. Radiographic evaluation**, Vet Med July 1990, 703‑723.
30. Shores A, Braund KG, Brawner W: **Symposium on acute spinal cord trauma: Part 4 ‑ Treatment**. Vet Med July 1990, 724‑739.
31. Braund KG, Shores A, Brawner W: **Symposium on acute spinal cord trauma: Part 5 ‑ Rehabilitation, complications, prognosis**. Vet Med July 1990, 740‑743.
32. Cox NR, Shores A, McCoy CP, Burns J: **Obstructive hydrocephalus due to neoplasia in a rottweiler puppy**. J Am Anim Hosp Assoc 26:335‑338, 1990.
33. Fox SM, Boring G, Cooper RC, Shores A: **Observations on the repair of distal radial osteotomies in the dog by double hook plates**. NZ Vet J 37:91‑93, 1989.
34. Shores A, Nichols C, Fox SM, et al: **Combined Kirschner‑Ehmer/dorsal spinal plate fixation technique for caudal lumbar fractures in the dog**. J Am Vet Med Assn 195:335‑339, 1989.
35. Braund KG, Steinberg HS, Shores A, et al: **Laryngeal paralysis in immature and mature dogs as one sign of a more diffuse polyneuropathy**.J Am Vet Med Assn 194:1735‑40, 1989.
36. Shores A, Nichols C, Koelling HA, Fox WR: **Combined Kirschner‑Ehmer/ dorsal spinal plate fixation of caudal lumbar fractures in the dog: Biomechanical properties**. Am J Vet Res 49:1979‑1982, 1988.
37. Shores A: **Spinal evoked potentials in dogs with acute progressive thoracolumbar spinal cord disease**. Am J Vet Res 48:1525‑1530, 1987.
38. Shores A, McDonald R, Braund KG: **Chronic relapsing polyneuropathy in a cat**. J Am Anim Hosp Assn 23:569‑573, 1987.
39. Shores A, Redding RW: **Narcoleptic hypersomnia syndrome responsive to protriptyline in a labrador retriever**. J Am Anim Hosp Assn 23:455‑458, 1987.
40. Shores A, Burns J: **Technique and indications for performing metrizamide myelography in small animals.** Comp Cont Ed Vet Prac 4:361‑364, 1987.
41. Shores A, Redding RW, Braund KG, Simpson ST: **Myotonia congenita in a Chow Chow pup**. J Am Vet Med Assn 188:532‑533, 1986.
42. Shores A, Weirich W: **A modified patch graft technique for pulmonic stenosis in the dog**. J Am Anim Hosp Assn 21:809‑812, 1985.
43. Shores A: **Neuroanesthesia: A review of the effects of anesthetic agents on cerebral blood flow and intracranial pressure in the dog**. Vet Surgery 14:257‑263, 1985.
44. Shores A, Cechner PE, Cantwell HD, Wheaton LG, Carlton WW: **Structural changes in thoracolumbar disks following lateral fenestration: Radiographic, histologic and histochemical changes in the chondrodystrophoid dog.** Vet Surgery 14:117‑123, 1985.
45. Shores A, Kazacus E, Parker AJ, Cantwell HD: **Meningeal sarcoma mimicking a sciatic neuropathy in a dog**. J Sm Anim Prac 25:719‑728, 1984.
46. Shores A: **Canine cervical vertebral malformation/malarticulation syndrome**: Comp Cont Ed Vet Prac 6:326‑332, 1984.
47. Shores A: **Differential diagnosis of ataxia, paresis or paralysis in large breed dogs**. J Am Anim Hosp Assn 20:265‑270, 1984.
48. Shores A: **Neurologic examination in the canine** neonate. Comp Cont Ed Vet Prac 5:1033‑1042, 1983.
49. Shores A: **Intervertebral Disk Syndrome in the Dog, Part III**. Thoracolumbar disk surgery. Comp Cont Ed Prac Vet 4:24‑31, 1982.
50. Shores A: **Intervertebral Disk Syndrome in the Dog, Part II**. Cervical disk surgery. Comp Cont Ed Vet Prac 3:805‑813, 1981.
51. Shores A: **Intervertebral Disk Syndrome in the Dog, Part I**. Pathophysiology and management. Comp Cont Ed Prac Vet 3:639‑647, 1981.

Books Edited

1. Shores A, Brisson B (eds): ***Current Techniques in Veterinary* Neurosurgery**. John Wiley & Sons, Inc, Hoboken NJ, 2017
2. Shores A (ed): ***Diagnostic Imaging***. Vet Clin North Am (Small Animal). WB Saunders Co, Philadelphia, 23:2, 1993.

Book Chapters

1. Shores A. **Lateral (Rostrotentorial) Craniotomy/Craniectomy**. *In Shores A, Brisson B (eds): Current Techniques in Canine and Feline Neurosurgery.* John Wiley & Sons, Inc, Hoboken NJ, 2017. pp 109-114.
2. Akin EY, Shores A. **Suboccipital Craniectomy/Foramen Magnum Decompression**. *In Shores A, Brisson B (eds): Current Techniques in Canine and Feline Neurosurgery.* John Wiley & Sons, Inc, Hoboken NJ, 2017. pp115-120.
3. Oblak M, Shores A. **Surgical Treatment of Skull Tumors**. *In Shores A, Brisson B (eds): Current Techniques in Canine and Feline Neurosurgery.* John Wiley & Sons, Inc, Hoboken NJ, 2017. pp 121-128.
4. Shores A. **Thoracolumbar Hemilaminectomy**. *In Shores A, Brisson B (eds): Current Techniques in Canine and Feline Neurosurgery.* John Wiley & Sons, Inc, Hoboken NJ, 2017. pp 179-182.
5. Fisher C, Shores A. **Dorsal Laminectomy in the Thoracolumbar Region**. *In Shores A, Brisson B (eds): Current Techniques in Canine and Feline Neurosurgery.* John Wiley & Sons, Inc, Hoboken NJ, 2017. pp 205-208.
6. Shores A. **Canine Distemper.** *In C*ô*té E (ed)* Clinical Veterinary Advisor – Dogs and Cats (ed 4), Elsevier, Inc, St Louis. (*in Press*) 2018.
7. Shores A. Canine Distemper. In Coté E (ed): *Clinical Veterinary Advisor, Dogs and Cats* (ed 3). Elsevier Inc (St. Louis). pp 287-9, 2014/2015.
8. Shores A, Pearce L: **Traumatic and neoplastic diseases of the brachial plexus**, In Bojrab MJ (ed): *Mechanisms of Surgical Diseases in Small Animals*. Lea and Febiger, Philadelphia, pp 243-250, 2010.
9. Shores A: **Peripheral Nerve Injury and Repair**. In Bojrab MJ, Ellison GW, Slocum B (eds): *Current Techniques in Small Animal Surgery*, 4th ed. Williams & Wilkins, Baltimore, pp 73-81, 1998.
10. Shores A: **Diagnostic Capabilities of MRI and CT**. In August JR (ed) *Consultations in Feline Medicine*, 2nd ed. WB Saunders Co, Philadelphia, pp 393-404, 1994.
11. Shores A. Canine Distemper. In Coté E (ed): *Clinical Veterinary Advisor, Dogs and Cats* (ed 3). Elsevier Inc (St. Louis). Pp 287-9, 2014/2015.
12. Shores A: **Neurosurgical Techniques**. In Braund KG (ed): *Clinical Syndromes in Veterinary Neurology*, 2nd ed. Williams & Wilkins, Baltimore, pp 423-456, 1994.
13. Shores A: **Intracranial surgery**. In Slatter DH (ed): *Textbook of Small Animal Surgery*, 2nd ed. WB Saunders Co, Philadelphia, pp 1122-1135, 1993.
14. Shores A, Braund KG: **Neurologic examination and localization**, In Slatter DH (ed): *Textbook of Small Animal Surgery*, 2nd ed. WB Saunders Co, Philadelphia, pp 984-1003, 1993.
15. Portman MA, Cooper TG, Shores A: **Animal models and veterinary applications**. In Potchen EJ, et al (eds): *Magnetic Resonance Angiography: Concepts and Applications*. Mosby-Year Book, Inc, St Louis, pp 356-360, 1993.
16. Shores A: **Magnetic resonance imaging**. In Shores A (ed): *Diagnostic Imaging*. *Vet Clin North Am (Small Animal)* 23:2. WB Saunders Co, Philadelphia, pp 437-460, 1993.
17. Shores A: **New and future diagnostic imaging techniques**. In Shores A (ed): *Diagnostic Imaging*. *Vet Clin North Am (Small Animal)* 23:2. WB Saunders Co, Philadelphia, pp 461-470, 1993.
18. Shores A: **Traumatic and neoplastic diseases of the brachial plexus**, In Bojrab MJ (ed): *Mechanisms of Surgical Diseases in Small Animals.* Lea and Febiger, Philadelphia, pp 1175-1182, 1993.
19. Shores A: Spinal trauma: **Pathophysiology and management of traumatic spinal injuries**. In Moore M (ed): *Diseases of the Spine*. *Vet Clin North Am (Small Animal)* 22:4, WB Saunders Co, Philadelphia, pp 859-888, 1992.
20. Shores A**: Fractures and luxations of the vertebral column**. In Harari J (ed): *External Skeletal Fixation*. *Vet Clin North Am (Small Animal)* 22:1, WB Saunders Co, Philadelphia, pp 171-180, 1992.
21. Shores A: **Meningiomas in animals**, In Al‑Mefty O (ed): *Meningiomas*. Raven Press, New York, 1990.
22. Shores A, Roudebush P: **Ataxia, paresis, and paralysis**, In Ettinger SJ (ed): *Textbook of Veterinary Internal Medicine*, 3rd ed. WB Saunders Co, Philadelphia, pp 57‑60, 1990.
23. Shores A, Roudebush P: **Altered states of consciousness**, In Ettinger S (ed): *Textbook of Veterinary Internal Medicine*, 3rd ed. WB Saunders Co, Philadelphia, pp 61‑65, 1990.
24. Shores A: **Peripheral nerve injury and repair**. In Bojrab MJ (ed). *Current Techniques in Veterinary Surgery* (ed 3). Lea and Febiger, Philadelphia, pp 50‑58, 1990.
25. Shores A: **Craniocerebral trauma**, in Kirk RW (ed): *Current Veterinary Therapy X*. WB Saunders Co, Philadelphia, pp 847‑853, 1989.
26. Shores A, Simpson ST: **Coma and Stupor**, In Ford R (ed): *Clinical Signs and Diagnosis in Small Animal Practice*. Churchill‑Livingstone, Inc, New York, pp 269‑281, 1988.
27. Shores A: **Intervertebral Disk Disease**, In Newton CD and Nunnamaker DM (eds):  *Textbook of Small Animal Orthopaedics*. JB Lippincott Co, Philadelphia, pp 739‑764, 1985.
28. Shores A, Braund KG, Stockham S, Simpson ST: **Diagnostic Methods**, In Slatter, DH (ed): *Textbook of Small Animal Surgery*. WB Saunders Co, Philadelphia, pp 1285‑1307, 1985.

Other Publications

1. Chambers MR, Bentley RT, Crossmann, Shores A, et al. **The One Health Consortium and Combination Immunotherapy: evaluating M032, a genetically engineered HSV-1 expressing Il-12, in combination with a checkpoint inhibitor in canine glioma patients.** *Abstract (submitted) American Association for Cancer Research Annual Meeting*. San Diego, CA, April, 2020.
2. Yingling R, Register M, Nellippallil AB, Hannan T, Simmons J, Shores A, Prabhu RK. **Multi-Objective Design of a Canine Ventriculoperitoneal Shunt for Hydrocephalus.** *36th Southern Biomedical Engineering Conference*. Kenner, LA, March 2020.
3. Shores A, Mooney A, Little A. **Innovations in Veterinary Intracranial Surgery: Developments Within the CANINE Glioma Project.** *Poster Presentation and Abstract: Cancer Moonshot*SM *Collaborative Meeting / PRECINCT Annual Meeting / National Cancer Institute*, Rockville, MD, November 2019.
4. Shores A, Little A, Taylor R, Yang S. **An Ultrasound Guided Cerebral Biopsy Device.** *Proc SEVEN Symposium*, Athens GA, November 2018.
5. Daw D, Shores A, Cole J, et al. **Fenestration of the Lateral Ventricles and a Novel Ventricular Drainage System – Management of Obstuctive Hydrocephalus in Young Small Animals.** *Proc SEVEN Symposium*, Athens GA, November 2018.
6. Shores A**.** [**Practical Management of Seizure Disorders in Companion Animals**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180497). *Proc S W Vet Symposium*. San Antonio TX, September 2017.
7. Shores A. [**Neurologic Syndromes Below the Foramen Magnum**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180496)**.** *Proc S W Vet Symposium*. San Antonio TX, September 2017.
8. Shores A**.** [**Neurologic Syndromes Above the Foramen Magnum**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180495). *Proc S W Vet Symposium*. San Antonio TX, September 2017.
9. Shores A. [**Neurologic Examination of Companion Animals**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180494)**.** *Proc S W Vet Symposium*. San Antonio TX, September 2017.
10. Shores A. [**Current Techniques and Indications for Intracranial Surgery: Overview and Client Education**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180498)**.** *Proc S W Vet Symposium*. San Antonio TX, September 2017.
11. Shores A**.**[**Evaluation and Management of the Traumatic Brain Injury Patient**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180499)**.** *Proc S W Vet Symposium*. San Antonio TX, September 2017.
12. Shores A. **Fenestration of the Lateral Ventricle for Treatment of Obstructive Hydrocephalus in Young Dog and Cats.** Proced ACVIM Forum. June 2015, Indianapolis.
13. Chow B, Patel DG, Gillespie GY, Chen D, Schoeb TR, Hackney R, Bray M, Johnson C, Shores A, et al. **Comparative Genomic and Histologic Analysis of Canine and Human Meningiomas.** Proced ACVIM Form. June 2014, Nashville.
14. Platt SR, Beltran E, May C, DeRisio L, Haley A, Perez M, Shores, A. **Validation and Prognostic Value of 2 New Head Trauma Scoring Systems in 84 Dogs.** Proced ACVIM Form. June 2014, Nashville.
15. Perez M, Shores A, Williams L. **Design, Development, and Testing of an Intracranial Pressure Bolt for Use in Veterinary Patients.**  Proced ACVIM Form. June 2014, Nashville.
16. Shores A, Brinkman E, Beasley M. **Intraoperative Ultrasound for Intracranial Surgery.** Proced ACVIM Form. June 2012, Denver CO
17. Shores A. **Understanding Chiari-like Malformation in the Dog.** Proceedings 147th AVMA Annual Convention, Atlanta, GA, 2010.
18. Shores A. **Therapeutic Options for Brain Tumors in Dogs and Cats.** Proceedings 147th AVMA Annual Convention, Atlanta, GA, 2010.
19. Shores A. **Principles in the Management of Spinal Trauma.** Proceedings 147th AVMA Annual Convention, Atlanta, GA, 2010.
20. Shores A. **Diagnosis and Management of Diseases of the Cervical Spine.** Proceedings 147th AVMA Annual Convention, Atlanta, GA, 2010.
21. Akin, AY, Ortinau NH, Shores, A, et al. **Foramen Magnum Decompression with Free Autogenous Adipose Tissue Graft for Treatment of Caudal Occipital Malformation Syndrome in Dogs**. *Proceedings ACVS Forum*. Washington, DC, 2009.
22. Shores A. **Therapeutic Options for Canine Gliomas**. Proceedings ACVIM Forum 2009, Montreal, Canada, June 2009
23. Tepper L, Shores A. **The Use of Medetomidine and Atipamezole for Electroencephalographic Recordings in Dogs**. *Abstract*, ACVIM 2007 Forum.
24. Shores A. **How I Treat Lumbosacral Disease**. Proceedings ACVIM Forum 2006, Louisville, KY.
25. Shores A. **The Use of Cervical Locking Plates in Spinal Surgery**. ACVIM Forum 2006, Louisville, KY.
26. Lee W, Mackin A, Cantwell D, Shores, A. **Ultrasound-Guide CSF Collection in the Canine.** *Abstract*, ACVIM 2006 Forum.
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29. Shores A: **Small animal coma scale revisited**. Proc 10th Ann Vet Med Forum, San Diego, May 1992, pp 749-749.
30. Shores A, Dennis JS, Gartrell C, et al: **Neurologic manifestations of pituitary disorders in the dog and cat**. Proc 10th Ann Vet Med Forum, San Diego, May 1992, pp 750-751.
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34. Shores A, Cooper TG, Potchen EJ: **Advances in non-contrast MR cerebral angiography in the dog**. Proc 9th Ann Vet Med Forum, New Orleans, May 1991, pp 829-830.
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41. Shores A: **Treatment and prognosis in head trauma**. Proceedings 13th Annual Kal‑Kan Symposium, October 1989, Columbus, OH, pp 29-36.
42. Shores A: **Craniocerebral trauma in small animals: Treatment and prognosis**. Proceedings 2nd Annual Michigan Veterinary Conference, January 1990, Lansing, MI.
43. Shores A, Wilson DH: **Acupuncture analgesia**. Proceedings Anesthesia for Small Animals, November 1989, Lansing, MI.
44. Shores A: **Caudal lumbar fracture fixation with a Kirschner‑Ehmer device: Biomechanics and case studies**. Proceedings 6th Annual Veterinary Medical Forum. Washington, DC, pp 16‑18, May 1988.
45. Shores A: **Cranio‑cerebral trauma: Emergency management and prognosis**. Proceedings 6th Annual Veterinary Medical Forum. Washington, DC, pp 3‑5, May 1988.
46. Shores A: **Development of a coma scale for dogs: Prognostic value in craniocerebral trauma**. Proceedings 6th Annual Veterinary Medical Forum. Washington, DC, pp 251‑253, May 1988.
47. Shores A, Nichols C: **Combined Kirschner‑Ehmer/dorsal spinal plate fixation of caudal lumbar fractures in the dog: Biomechanical properties**. Abstract, 23rd Annual Mtg Am Coll Vet Surg. Tucson, AZ, February 1988.
48. Shores A: **Intervertebral disk disease in dogs**. Proceedings 65th Ann Postgraduate Conf for Veterinarians and Veterinary Technicians. East Lansing, MI, pp C1‑C12, January 1988.
49. Shores A, Simpson ST, Sorjonen DC: **Diagnosis of intracranial masses in the dog: A report of 16 cases**. Proceedings 5th Annual Veterinary Medical Forum. San Diego, CA, pp 277‑279, May 1987.
50. Shores A: **Indications and techniques for cerebrospinal fluid collection and analysis in dogs**. Scienza Veterinaria e Biological Animals. November, 1987.
51. Shores A: **Central nervous system trauma in the dog: Part I, cranial trauma**. Scienza Veterinaria e Biological Animals. November, 1987.
52. Shores A: Central **nervous system trauma in the dog: Part II, spinal trauma**. Scienza Veterinaria e Biological Animals. November, 1987.
53. Shores A, Coleman ES: **Cerebrospinal fluid taps: Techniques and applications**. Texas Vet 48:27‑30, 1986.
54. Shores A: **Spinal evoked potentials in dogs with spontaneous, acute progressive spinal cord disease**. PhD Dissertation, Auburn University, August 1985.
55. Shores A, Coleman ES: **Cerebrospinal fluid taps**: Techniques and applications. Auburn Vet 40:4‑7, 1985.
56. Shores A, Simpson ST, Pechman R: **What's your diagnosis? Cervical disk extrusion, diskospondylitis, and dorsal cervical soft tissue mass**. J Am Vet Med Assn 185:563‑564, 1984.
57. Shores A: **Structural changes in the intervertebral disk following lateral fenestration: A study of radiographic, histologic and histochemical changes in chondrodystrophoid dogs**. M.S. Thesis, Purdue University. December 1982.

.**SCIENTIFIC PRESENTATIONS**

**September 2019 Chinese School for Advanced Veterinary Studies - Nanjing, China**

* **CNS Trauma Part 1**
* **CNS Trauma Part 2**
* **Basic Principles of Spinal Fixation: Pins, Wires, PMMA**
* **Basic Principles of Spinal Fixation: Bone Plates**
* **Management of Traumatic Brain Injury**
* **Surgical Approaches to the Brain**
* **Trauma to the Cervical Spine: Diagnosis, Stabilization, and Fixation**
* **Trauma to the Thoraco-Lumbar Spine: Diagnosis, Decompression,**

 **and Stabilization**

* **Trauma to the Lumbo-Sacral Spine- Diagnosis, Decompression,**

**and Stabilization**

* **Diagnosis and Management of Atlanto-Axial Subluxation**
* **Laboratory Exercises – Bone Plating Thoracic and Lumbar Spine**
* **Laboratory Exercises - Pins, Wire, and Screws: Cervical and**

 **Thoracolumbar Spine**

**Novmeber 2018 An Ultrasound Guided Cerebral Biopsy Device**

 Southeaster Veterinary Neurology Symposium

 Athens, GA

**September 2018 Overview: Neurologic Examination – The First Step in Spinal Surgery**

Chinese School for Advanced Veterinary Studies

Nanjing, China

 **Differential Diagnosis of Cervical and Cervicothoracic Syndromes**

Chinese School for Advanced Veterinary Studies

Nanjing, China

**Common Surgical Diseases of the Cervical and Cervicothoracic Spine**

Chinese School for Advanced Veterinary Studies

Nanjing, China

**Differential Diagnosis of TL and LS Syndromes**

Chinese School for Advanced Veterinary Studies

Nanjing, China

**Common Surgical Diseases of the TL and LS Spine**

Chinese School for Advanced Veterinary Studies

Nanjing, China

**September 2018 Surgical Technique: Cervical Ventral Slot**

 **(Cont’d)** Chinese School for Advanced Veterinary Studies

Nanjing, China

**Surgical Technique: Thoracolumbar Hemilaminectomy**

Chinese School for Advanced Veterinary Studies

Nanjing, China

**September 2017** [**Practical Management of Seizure Disorders in Companion Animals**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180497).

SW Veterinary Symposium

San Antonio TX

[**Neurologic Syndromes Below the Foramen Magnum**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180496)**.**

SW Veterinary Symposium

San Antonio TX

[**Neurologic Syndromes Above the Foramen Magnum**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180495).

SW Veterinary Symposium

San Antonio TX

[**Neurologic Examination of Companion Animals**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180494)**.**

SW Veterinary Symposium

San Antonio TX

**Current Technques in Intracranial Surgery**

SW Veterinary Symposium

San Antonio TX

[**Evaluation and Management of the Traumatic Brain Injury Patient**](http://www.vin.com/members/cms/project/defaultadv1.aspx?pId=19028&meta=generic&id=8180499)**.**

SW Veterinary Symposium

San Antonio TX

 **June 2015** **Fenestration of the Lateral Ventricle for Treatment of Obstructive**

 **Hydrocephalus in Young Dog and Cats**

ACVIM Forum

 Indianapolis, IN

 **September 2014 Feline Obstructive Hydrocephalus**

 Southeastern Veterinary Neurology Meeting

 Mississippi State, MS

 **September 2013 There’s An App For That! SACS Phone App**

Southeastern Veterinary Neurology Meeting

 Sarasota, FL

**June 2012 Intraoperative Ultrasound for Intracranial Surgery**

 ACVIM Forum

 Denver, CO

 **August 2010 Understanding Chiari-like Malformation in the Dog**

 147th AVMA Annual Convention

 Atlanta, GA

 **August 2010 Therapeutic Options for Brain Tumors in Dogs and Cats**

 147th AVMA Annual Convention

 Atlanta, GA

 **August 2010 Principles in the Management of Spinal Trauma**

 147th AVMA Annual Convention

 Atlanta, GA

 **August 2010 Diagnosis and Management of Diseases of the Cervical Spine**

 147th AVMA Annual Convention

 Atlanta, GA

 **July 2010 How to Perform and Interpret a Neurologic Examination**

 147th AVMA Annual Convention

 Atlanta, GA

**June 2010 Successes & Failures in the Surgical Management of Caudal**

**Occipital Malformation Syndrome in Dogs**

ACVIM Forum

Anaheim, CA

 **April 2010 Diagnosis and Management of Diseases of the Cervical Spine in Dogs**

 Auburn University Annual Conference

 Auburn, AL

 **June 2009 Therapeutic Options for Canine Gliomas**

ACVIM Forum

 Montreal, Canada

 **April 2008 Head Trauma**

Auburn University Annual Conference

 Auburn, AL

 **May 2006 Panel Discussion: How I Treat Lumbosacral Disease**

 ACVIM Forum

 Louisville, KY

 **May 2006 The Use of Cervical Locking Plates in Spinal Surgery**

 ACVIM Forum

 Louisville, KY

 **May 2006 Abstract :**

 **Ultrasound Guided Cerebrospinal Fluid Collection from the Cerebellomedullary Cistern in the Canine**.

 William Lee, MR Kern, E Baravik, A Garma, A Shores, C Boyle

 ACVIM Forum

 Louisville, KY

 **February 2006 Diseases of the Cervical Spine**

 MVMA Winter Meeting

 Mississippi State, MS

 **February 2005 Diagnostic Capabilities with Helical CT Imaging**

 MVMA Winter Meeting

 Mississippi State, MS

 **March 1993 New Technologies in Veterinary Imaging**

 Mark Morris Foundation Lecture

 American Animal Hospital Assn Annual Mtg

 Seattle, WA

 **May/June 1992 Small Animal Coma Scale Revisited**

 ACVIM Forum

 San Diego, CA

 **May/June 1992 Neurologic Manifestations of Pituitary Disorders in the Dog and Cat**

 ACVIM Forum

 San Diego, CA

 **March 1992 Comparative Spinal Fusion in Veterinary Orthopaedics**

 MSU College of Human Medicine

 Orthopaedic Grand Rounds

 East Lansing, MI

 **May/June 1991 Diagnostic Capabilities with MRI**

 ACVIM Forum

 New Orleans, LA

 **May/June 1991 Advances in Non-Contrast MR Cerebral Angiography**

 in the Dog

 ACVIM Forum

 New Orleans, LA

 **May/June 1991 Clinical Characteristics of Cerebrovascular Disease**

 ACVIM Forum

 New Orleans, LA

 **May/June 1991 Intraoperative Brain Pressure Monitoring in the Dog**

 ACVIM Forum

 New Orleans, LA

 **May/June 1991 1H Magnetic Resonance Spectroscopy of the Canine Brain**

 ACVIM Forum

 New Orleans, LA

 **May/June 1991 Cerebrovascular Disease in Small Animals**

 -- MRI Characteristics

 ACVIM Forum

 New Orleans, LA

 **May/June 1991 Distral Polyneuropathy in Mature Rottweiler Dogs**

 (Poster)

 ACVIM Forum

 New Orleans, LA

 **November 1990 Cerebrovascular disease in small animals.**

 Veterinary Neurology Forum

 Lansing, MI

 **November 1990 Perspectives in Veterinary Neurosurgery**

 Veterinary Neurosurgery Forum

 Lansing, MI

 **January 1990 Craniocerebral trauma in small animals:**

 Treatment and prognosis

 Michigan Veterinary Conference

 Lansing, MI

 **January 1990 Craniocerebral Trauma**

 Oakland County Veterinary Medical Association

 Detroit, MI

 **November 1989 Acupuncture Analgesia**

 Anesthesia for Small Animals

 Lansing, MI

 **October 1989 Head Trauma ‑ Treatment and Prognosis**

 Kal‑Kan Symposium

 Columbus, OH

 **May 1988 Caudal Lumbar Fracture Fixation with a Kirschner‑Ehmer**

 Device: Comparative Biomechanics and Case Studies

 ACVIM Forum

 Washington, DC

 **May 1988 Cranio‑cerebral Trauma: Emergency Management and Prognosis**

 ACVIM Forum

 Washington, DC

 **May 1988 Development of a Coma Scale in Dogs:**

 Prognostic Value in Cranial Trauma

 ACVIM Forum

 Washington, DC

 **February 1988 Combined K‑E/Dorsal Spinal Plate Fixation of Caudal Lumbar Fractures in the Dog: Biomechanical Properties**

 American College of Veterinary Surgeons

 Tuscon, AZ

 **January 1988 Intervertebral Disk Disease in Dogs**

 65th Annual Postgraduate Conference for Veterinarians and

 Veterinary Technicians

 East Lansing, MI

 **May 1987 Diagnosis of Intracranial Masses: A Report of 16 Cases**

 ACVIM Forum

 San Diego, CA

 **October 1986 Diagnosis and Treatment of Spinal Cord Diseases in Dogs**

 MSU‑CVM Short Course

 Mississippi State, MS

 **March 1986 Anesthesia for the Neurosurgical Patient**

 American Veterinary Neurology Association Meeting

 New Orleans, LA

**May 1985 Spinal Evoked Potentials in Dogs with Spontaneous Thoracolumbar Spinal Injuries**

 ACVIM Forum

 San Diego, CA

 **July 1984 Spinal Evoked Potentials in Dogs with Thoracolumbar**

 Spinal Cord Disease

 American Veterinary Neurology Association Meeting

 New Orleans, LA

 **March 1984 Central Nervous System Trauma**

 Auburn University Short Course on Trauma

 Auburn University, AL

 **November 1983 A Practitioner's Guide to CSF Taps and Analysis: A Look**

 **at Technique and Clinical Applications**

 Auburn University Fall Veterinary Conference

 Auburn University, AL

 **October 1983 Neurologic Examination of the Canine Neonate**

 Gaines/Norden Symposium

 St. Paul, MN

 **February 1983 Structural Change in the Intervertebral Disks**

 **Following Lateral Fenestration in Chondrodystrophoid Dogs**

 American College of Veterinary Surgeons

 Las Vegas, NV

 **January 1982 The Collateral Ligaments of the Stifle:**

 **Injuries and Repair**

 Purdue University Short Course on Stifle Surgery

 West Lafayette, IN

 **October 1981 Upper Airway Obstructive Disease in the**

 **Brachycephalic Dog**

 Purdue University Short Course on Head and Neck Surgery

 West Lafayette, IN

 **September 1981 Cerebrospinal Fluid Tap: Technique and Analysis**

 Purdue University Fall Conference

 West Lafayette, IN

 **September 1980 The Pharynogostomy Endotracheal Intubation and Post**

 **Operative Feeding: Technique and Indications**

 Purdue University Fall Conference

 West Lafayette, IN