

**IN THE COURT OF COMMON PLEAS
HAMILTON COUNTY, OHIO**

BETH L. SHEEHAN	:	CASE NO. 09CV27353
	:	JUDGE: Mallory
Plaintiff	:	
Vs.	:	
	:	AFFIDAVIT OF MATTHEW D. BARNHART, DVM MS DACVS
MARY L. SALLEE, ET AL.	:	
	:	
Defendants	:	

County of Franklin :

:ss

State of Ohio :

Now comes Dr. Matthew D. Barnhart, after being duly cautioned and sworn, who states as follows:

1. My name is Dr. Matthew D. Barnhart, and I have been named as an expert in the herein action. I am a Veterinary Surgery Specialist. My curriculum vitae is attached as Exhibit 1.
2. In assessing this case, I have reviewed the following documents:
 - a. A copy of the complaint sent by Beth Sheehan to the Ohio Veterinary Medical Licensing Review Board;
 - b. A copy of the records for Bailey from the Anderson Hills Animal Care Hospital;

- c. A copy of the records for Bailey from the Care Center;
 - d. A copy of the records/history for Bailey from his previous veterinary hospital "Paw Print Animal Hospital"; and
 - e. A copy of the information contained on the website of the Anderson Hills Animal Care Hospital
 - f. The deposition transcripts of Defendants, Dr. Smith, Dr. Black, and Dr. Sallee.
 - g. The lateral and ventrodorsal abdominal radiographs taken at the Cincinnati Animal Referral & Emergency Center dated 8/10/2007.
3. Based upon my education, training and experience as a licensed veterinarian and veterinary surgeon in the State of Ohio and based upon my review of the documents submitted to me, and to a reasonable degree of medical and scientific certainty, I offer the following observations, conclusions, and opinions:
- a. It is my opinion that lateral and ventrodorsal survey abdominal radiographs are part of the ordinary standard care of and diagnostic plan for patients presenting with a history of an acute onset of repeated vomiting. This rationale is due in large part to the potentially severe repercussions that a delayed diagnosis of intestinal obstruction carries. Therefore, it is also my opinion that by not taking radiographs on August 7, 2007, Dr. Black deviated from the standard-of-care in her treatment of "Bailey".
 - b. Whether or not initial abdominal radiographs would have been interpreted as demonstrating an intestinal obstruction cannot be

determined. However, given the history of multiple vomiting episodes reported by the owner and the surgical findings at the Care Center (stomach to mid **jejunal** plication and multiple mesenteric intestinal perforations), I have a high level of confidence that a significant level of abnormality would have been appreciated on radiographs on August 7, 2007. Failure to take radiographs on August 7, 2007 prolonged the time to definitive diagnosis and treatment, which in turn contributed significantly to the poor outcome, i.e. the death of “Bailey”, in this case.

c. It is my opinion that the failure on August 8, 2007 to pursue additional testing (primarily radiographs) despite the persistence of clinical signs (vomiting and inappetance) demonstrates a lapse in professional judgment by Dr. Sallee.

d. I have a high level of confidence that some level of abnormality consistent with intestinal obstruction would have been detected on August 8, 2007 had abdominal radiographs been taken at the time Dr. Sallee reevaluated “Bailey”. Failure to take radiographs on August 8, 2007 further prolonged the time to definitive diagnosis and treatment which contributed significantly to the poor outcome, i.e. the death of “Bailey”, in this case.

e. The actions and inaction of Drs. Black and Sallee in their treatment of Bailey on August 7 and 8, 2007 constitutes a lack in professional judgment and a deviation from the standard of veterinary care in Ohio. The administration of a dexamethasone to a patient with suspected gastrointestinal bleeding (melena was discovered on the initial rectal exam and the elevated BUN could suggest upper gastrointestinal bleeding) was contraindicated. Additionally, Centrine is contraindicated in the presence of an intestinal obstruction. An inadequate attempt was made on August 8, 2007 to eliminate the possibility of intestinal obstruction prior to administering this drug to “Bailey”.

f. Given the severity and frequency of “Bailey’s” vomiting and after reviewing the intraoperative findings at the Care Center, it is my opinion that “Bailey” had a complete intestinal obstruction at the time of his presentation to Anderson Hills Animal Hospital on August 7, 2007.

g. Based on the persistent vomiting, the lack of satisfactory response to medical treatment, and the observations from the doctors at Care Center, it is my opinion that “Bailey” continued to have a complete intestinal obstruction at the time of his reevaluation on August 8, 2007 at Anderson Hills Animal Hospital.

h. It is my opinion that had standard view abdominal radiographs been taken on “Bailey” on August 7, 2007, evidence of an intestinal abnormality would have likely been appreciated and immediate surgical treatment recommended. Surgical treatment of an intestinal linear foreign body is an emergency procedure and when delayed can result in irreversible intestinal trauma. The prolonged time to diagnosis of the linear foreign body intestinal obstruction and the delayed treatment of this obstruction resulted in the death of this patient.

i. It is my opinion that had standard view abdominal radiographs been taken on “Bailey” on August 8, 2007, evidence of an intestinal abnormality would have likely been appreciated and immediate surgical treatment recommended. The continued lack of diagnosis of the linear foreign body intestinal obstruction and the delayed treatment of this obstruction resulted in the death of this patient.

j. It is my opinion that the lateral and ventrodorsal abdominal radiographs taken at the Cincinnati Animal Referral & Emergency Center dated 8/10/2007 demonstrate numerous abnormalities which are listed as follows: abnormal gas patterns present throughout intestinal tract including pathologic dilation (craniodorsal abdomen), crescent-shaped and focal /coalescing circular gas pockets consistent with plication of the intestines,

intraluminal intestinal foreign material present in cranial right quadrant of abdomen, intestines appear slightly bunched to right side of abdomen.

Since the foreign material (cloth) was visible radiographically (i.e. it was in fact radioopaque enough to be visible) on 8/10 there is a high probability that it would also have been visible radiographically on 8/7.

While location of the foreign material may have been different, findings on 8/7 would likely still have been suspicious enough to warrant further evaluation and a more timely diagnosis of a gastrointestinal foreign body.

4. Based upon my education, training and experience as a licensed veterinarian and veterinary surgeon in the State of Ohio, and answering to a reasonable degree of medical and scientific certainty, it is my opinion that Dr. Colleen Black deviated from the ordinary standard of veterinary care in her treatment of “Bailey” on August 7, 2007.
5. Based upon my education, training and experience as a licensed veterinarian and veterinary surgeon in the State of Ohio, and answering to a reasonable degree of medical and scientific certainty, it is my opinion that “Bailey’s” continued vomiting, surgeries and ultimately his death on August 12, 2007, was proximately caused by the failure of Dr. Colleen Black to render treatment to Bailey in accordance with the established standard of care provided by veterinarians in Ohio.
6. Based upon my education, training and experience as a licensed veterinarian and veterinary surgeon in the State of Ohio, and answering to a reasonable degree of

medical and scientific certainty, it is my opinion that Dr. Mary Sallee deviated from the ordinary standard of veterinary care in her treatment of “Bailey” on August 8, 2007 and August 9, 2007.

7. Based upon my education, training and experience as a licensed veterinarian and veterinary surgeon in the State of Ohio, and answering to a reasonable degree of medical and scientific certainty, it is my opinion that “Bailey’s” continued vomiting, surgeries and ultimately his death on August 12, 2007, was proximately caused by the failure of Dr. Mary Sallee to render treatment to Bailey in accordance with the established standard of care provided by veterinarians in Ohio.
8. Based upon my education, training and experience as a licensed veterinarian and veterinary surgeon in the State of Ohio, and answering to a reasonable degree of medical and scientific certainty, it is my opinion that that the actions and treatment of Dr. Colleen Black and Dr. Mary Sallee, in the context of their treatment of “Bailey”, constituted actions that a veterinarian of ordinary skill, care and diligence would not have done under like or similar circumstances.
9. Based upon my education, training and experience as a licensed veterinarian and veterinary surgeon in the State of Ohio, and answering to a reasonable degree of medical and scientific certainty, it is my opinion that Dr. Colleen Black’s and Dr. Mary Sallee’s failures to investigate the radiographic status of “Bailey” on August 7, 2007, and August 8, 2007, respectively, were failures that a veterinarian of ordinary skill, care and diligence would not have done under like or similar circumstances.

10. FURTHER AFFIANT SAYETH NAUGHT.

Matthew D. Barnhart, DVM MS DACVS

Before me, a Notary Public in and for the State of Ohio, appeared Matthew D. Barnhart, who is personally known to me and who on this ____ day of _____, 2010, after being duly cautioned and sworn, verified that the foregoing statements are true and correct to the best of his knowledge and belief and who affixed his name to this document in my presence.

Notary Public, State of Ohio

My commission expires:_____

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing has been sent by regular U.S. Mail, postage prepaid, and by electronic mail () this ____ day of _____, 2010.

Jerome F. Rolfes, Esq.
600 Vine Street, Suite 2600
Cincinnati, OH 45202

Susan Marie Gertz (0065319)
Attorney for Plaintiff

“Tibial Tuberosity Advancement Technique and Instrumentation”, “X-Gen Suture Technique”, 5/10, University of Pennsylvania College of Veterinary Medicine, Philadelphia, PA

“Multimodal Management of Osteoarthritis”, 5/2010, the Columbus Academy of Veterinary Medicine, Columbus, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 3/2010, MWI Sponsored Course, Rockville, MD

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 1/2010, Western States Veterinary Conference, Las Vegas, NV

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus”, “Extracapsular Lateral Suture Technique”, “Extracapsular Lateral Suture Postoperative Management”, “Extracapsular Lateral Suture Complications”, Extracapsular Lateral Suture Course – Laboratory Instructor, 1/2010, North American Veterinary Conference, Orlando, FL

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 1/2010, North American Veterinary Conference, Orlando, FL

“Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course -Laboratory Instructor, 11/2009, In Town Veterinary Group Course, Boston, MA

“Elbow Dysplasia – Is There Anything New?”, 11/2009, Advances in Small Animal Surgery, Worthington, OH

“Sliding Humeral Osteotomy for Treatment of Elbow Dysplasia”, 11/2009, Advances in Small Animal Surgery, Worthington, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus”, “Extracapsular Lateral Suture Technique”, “Extracapsular Lateral Suture Postoperative Management”, “Extracapsular Lateral Suture Complications”, Extracapsular Lateral Suture Course – Laboratory Instructor, 10/2009, Oquendo Center Canine Knee Symposium, Las Vegas, NV

“Patella Luxation Pathophysiology”, “Patella Luxation Correction Techniques”, Patella Luxation Repair Course – Laboratory Instructor, 10/2009, Oquendo Center Canine Knee Symposium, Las Vegas, NV

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 10/2009, Oquendo Center Canine Knee Symposium, Las Vegas, NV

“Adipose Derived Stem Cell Therapy for Treatment of Canine Osteoarthritis”, 10/2009, American College of Veterinary Surgeons Symposium, Washington, DC

“Tibial Tuberosity Advancement Surgery vs. Tibial Plateau Leveling Osteotomy”, “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 9/2009, University of MN College of Veterinary Medicine Faculty Course, Minneapolis, MN

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus”, “Extracapsular Lateral Suture Technique”, “Extracapsular Lateral Suture Postoperative Management”, “Extracapsular Lateral Suture Complications”, Extracapsular Lateral Suture Course – Laboratory Instructor, 9/2009, MWI Sponsored Course, Minneapolis, MN

“Review of Cranial Cruciate Ligament Rupture Pathophysiology”, 9/2009, MedVet Grand Rounds, Worthington, OH

“Medical Management of Osteoarthritis”, “Management of Hip Dysplasia”, “Review of Cranial Cruciate Ligament Disease”, “Common Causes of Forelimb Lameness”, “Strange and Unusual Causes of Lameness”, “Review of Orthopedic Examination Techniques”, Orthopedic Examination Course - Course – Laboratory Instructor, 8/2009, Merial Sponsored Course, Columbus, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 8/2009, CVC Central Veterinary Conference, Kansas City, KS

“Tibial Tuberosity Advancement Surgery vs. Tibial Plateau Leveling Osteotomy”, 7/2009, European College of Veterinary Surgeons Symposium, Nantes, France

“The Lameness Examination”, 7/2009, MedVet Intern Lecture, Worthington, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 6/2009, Southeastern States Veterinary Conference, Myrtle Beach, SC

“Principles of External Skeletal Fixation”, External Skeletal Fixation Course – Laboratory Instructor, 6/2009, Southeastern States Veterinary Conference, Myrtle Beach, SC

“Surgical Management of Osteoarthritis”, 4/2009, Novartis Sponsored Lecture, Columbus, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 4/2009, CVC East Veterinary Conference, Baltimore, MD

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus”, “Extracapsular Lateral Suture Technique”, “Extracapsular Lateral Suture Postoperative Management”, “Extracapsular Lateral Suture Complications”, Extracapsular Lateral Suture Course – Laboratory Instructor 4/2009, MWI Sponsored Course, Appleton, WI

“Adipose Derived Stem Cell Therapy for Treatment of Canine Osteoarthritis”, 3/2009, MedVet Grand Rounds, Worthington, OH

“Medical Management of Osteoarthritis”, 3/2009, Miami Valley Veterinary Medical Association, Dayton, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus”, “Extracapsular Lateral Suture Technique”, “Extracapsular Lateral Suture Postoperative Management”, “Extracapsular Lateral Suture Complications”, Extracapsular Lateral Suture Course – Laboratory Instructor, 2/2009, Midwestern States Veterinary Conference, Columbus, OH

“Principles of External Skeletal Fixation”, External Skeletal Fixation Course – Laboratory Instructor, 2/2009, Midwestern States Veterinary Conference, Columbus, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Xgen Suture Surgical Theory”, “XGen Suture Postoperative Management”, “XGen Suture Complications”, XGen Suture Course - Laboratory Instructor, 1/2009, Alcyon Sponsored Course, Salo, Italy

“Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course -Laboratory Instructor, 1/2009, Alcyon Sponsored Course, Salo, Italy

“Pelvic Fractures – When to Cut, When to Rest?”, 11/2008, Advances in Small Animal Surgery, Worthington, OH

“Treatment of Osteochondritis Dissecans”, 11/2008, Advances in Small Animal Surgery, Worthington, OH

“The Specialist/ Referring Veterinarian Relationship”, 11/2008, The Ohio State University College of Veterinary Medicine Business Management Class, Columbus, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 10/2008, CVC West Veterinary Conference, San Diego, CA

“Medical Management of Osteoarthritis”, 9/2008, Columbus Academy of Veterinary Medicine, Columbus, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus”, “Extracapsular Lateral Suture Technique”, “Extracapsular Lateral Suture Postoperative Management”, “Extracapsular Lateral Suture Complications”, Extracapsular Lateral Suture Course – Laboratory Instructor, 9/2008, MWI Sponsored Course, Dallas, TX

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 8/2008, CVC Central Veterinary Conference, Kansas City, KS

“Medical Management of Osteoarthritis”, “Management of Hip Dysplasia”, “Review of Cranial Cruciate Ligament Disease”, “Common Causes of Forelimb Lameness”, “Strange and Unusual Causes of Lameness”, “Review of Orthopedic Examination Techniques”, Orthopedic Examination – Laboratory Instructor, 6/2008, Merial Sponsored Course, Cincinnati, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus”, “Extracapsular Lateral Suture Technique”, “Extracapsular Lateral Suture Postoperative Management”, “Extracapsular Lateral Suture Complications”, Extracapsular Lateral Suture Course – Laboratory Instructor, 6/2008, Southeastern States Veterinary Conference, Myrtle Beach, SC

“Principles of External Skeletal Fixation”, External Skeletal Fixation Course – Laboratory Instructor, 6/2008, Southeastern States Veterinary Conference, Myrtle Beach, SC

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, Alcyon Sponsored Course, 5/2008, Madrid, Spain

“Tibial Plateau Leveling Osteotomy Surgical Theory and Biomechanics”, “Tibial Plateau Leveling Osteotomy Preoperative Planning”, “Tibial Plateau Leveling Osteotomy Technique and Instrumentation”, “Tibial Plateau Leveling Osteotomy Postoperative Management”, “Tibial Plateau Leveling Osteotomy Complications”, Tibial Plateau Leveling Osteotomy Course - Laboratory Instructor, Alcyon Sponsored Course, 5/2008, Madrid, Spain

”Surgical and Medical Management of Hip Dysplasia”, 5/2008, Lake Erie Walleye/Golf Veterinary Conference, Port Clinton, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor”, 4/2008, CVC East Veterinary Conference, Baltimore, MD

“Limb Sparing Surgery for Treatment of Osteosarcoma”, 3/2008, Cincinnati Veterinary Medical Association, Cincinnati, OH

“Medical Management of Hip Dysplasia”, 2/2008, Novartis Sponsored Lecture, Columbus, OH

“Limb Sparing Surgery as a Treatment for Osteosarcoma”, 12/2007, MedVet Grand Rounds, Worthington, OH

“The Specialist/ Referring Veterinarian Relationship”, 11/2007, The Ohio State University College of Veterinary Medicine Business Management Class, Columbus, OH

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Tuberosity Advancement Surgical Theory and Biomechanics”, “Tibial Tuberosity Advancement Preoperative Planning”, “Tibial Tuberosity Advancement Technique and Instrumentation”, “Tibial Tuberosity Advancement Postoperative Management”, “Tibial Tuberosity Advancement Complications”, Tibial Tuberosity Advancement Course - Laboratory Instructor, 8/2007, CVC Central Veterinary Conference, Kansas City, KS

“Cranial Cruciate Ligament Rupture Pathophysiology”, “The Canine Meniscus” “Tibial Plateau Leveling Osteotomy Surgical Theory and Biomechanics”, “Tibial Plateau Leveling Osteotomy Preoperative Planning”, “Tibial Plateau Leveling Osteotomy Technique and Instrumentation”, “Tibial Plateau Leveling Osteotomy Postoperative Management”, “Tibial Plateau Leveling Osteotomy Complications”, Tibial Plateau Leveling Osteotomy Course - Laboratory Instructor, 8/2007, CVC Central Veterinary Conference, Kansas City, KS

“Postoperative Physical Rehabilitation”, 6/2007, Advances in Small Animal Surgery, Worthington, OH

”Pain Management in Orthopedic Patients”, 5/2007, Lake Erie Walleye/Golf Veterinary Conference, Port Clinton, OH

“What’s New in External Skeletal Fixators”, 11/2006, Advances in Small Animal Surgery, Worthington, OH

“Fracture Management: Cast vs. Surgery”, 11/2006, Advances in Small Animal Surgery, Worthington, OH
 “Hybrid External Skeletal Fixation”, 10/2006, American College of Veterinary Surgeons Symposium, Washington DC
 “Tibial Plateau Leveling Osteotomy Surgery for Treatment of Cranial Cruciate Ligament Rupture”, 9/2006, Columbus Academy of Veterinary Medicine, Columbus, OH
 “Management of Pyometra”, 7/2006, MedVet Intern Lecture, Worthington, OH
 “Management of Gastric Dilatation Volvulus”, 7/2006, MedVet Intern Lecture, Worthington, OH
 “Cranial Cruciate Ligament Rupture – A Review”, 6/2006, Advances in Small Animal Surgery, Worthington, OH
 “Tibial Tuberosity Advancement Surgery for Treatment of Cranial Cruciate Ligament Rupture”, 6/2006, Advances in Small Animal Surgery, Worthington, OH
 “Surgical Treatment of Osteosarcoma”, 2/2006, Midwestern States Veterinary Conference, Columbus, OH
 “Basics of Long Bone Fracture Management”, 11/2005, Advances in Small Animal Surgery, Worthington, OH
 “Strange and Unusual Causes of Lameness”, 11/2005, Advances in Small Animal Surgery, Worthington, OH
 “Small Animal Arthroscopy”, 6/2005, Advances in Small Animal Surgery, Worthington, OH
 “Total Elbow Replacement Surgery in Dogs”, 6/2005, Advances in Small Animal Surgery, Worthington, OH
 “Canine Intervertebral Disc Disease”, 12/2004, Findlay Veterinary Medical Association, Findlay, OH
 “Diagnosis and Treatment of Bilateral Cranial Cruciate Rupture”, 11/2004, Advances in Small Animal Surgery, Worthington, OH
 “Treatment of Dystocia”, 7/2004, MedVet Intern Lecture, Worthington, OH
 “Canine Intervertebral Disc Disease”, 7/2004, MedVet Intern Lecture, Worthington, OH
 “Limb Sparing Surgery for Treatment of Bone Tumors”, 6/2004, Advances in Small Animal Surgery, Worthington, OH
 “Treatment of Wobblers Disease”, 6/2004, Advances in Small Animal Surgery, Worthington, OH
 “Management of Canine Elbow Dysplasia”, 4/2004, Miami Valley Veterinary Medical Association, Dayton, OH
 “Basics of Long Bone Fracture Management”, “Bandaging 101”, “Common Complications of Fracture Repair”, “Young Dog Fractures”, 2/2004, Toledo Veterinary Medical Association, Toledo, OH
 “Diagnosis and Treatment of Bilateral Cranial Cruciate Rupture”, 6/2003, Cleveland Veterinary Medical Association, Cleveland, OH
 “Tibial Plateau Leveling Osteotomy Complications”, 4/2003, AO Fracture Fixation Course, Columbus, OH
 “Sacroiliac Luxation”, 4/2003, AO Fracture Fixation Course, Columbus, OH
 AO Basic and Advanced Fracture Fixation Course – Laboratory Instructor, 4/2003, Columbus, OH
 “Interlocking Nails for Fracture Fixation”, “Total Hips Replacement for Treatment of Hip Dysplasia”, “Management of Traumatic orthopedic Injuries”, 3/2003, West Virginia Veterinary Medical Association, White Sulphur Springs, WV
 “Canine Intervertebral Disc Disease”, 12/2002, Lima Veterinary Medical Association, Lima, OH
 “Surgical Management of Brain Tumors”, 11/2002, Advances in Small Animal Surgery, Worthington, OH
 “Results of Single-Session Bilateral Tibial Plateau Leveling Osteotomies”, 10/2002, American College of Veterinary Surgeons Symposium, Washington DC
 “Pre and Postoperative Fracture Management”, 4/2002, AO Fracture Fixation Course, Columbus, OH
 AO Basic and Advanced Fracture Fixation Course – Laboratory Instructor, 4/2002, Columbus, OH
 “Tibial Plateau Leveling Osteotomy Surgery for Treatment of Cranial Cruciate Ligament Rupture”, 8/2001, Advances in Small Animal Surgery, Pittsburgh, PA
 “The Interlocking Nail for Fracture Repair”, 8/2001, Advances in Small Animal Surgery, Pittsburgh, PA
 “Total Hip Replacement Surgery”, 8/2001, Advances in Small Animal Surgery, Pittsburgh, PA
 “Pre and Postoperative Fracture Management”, 4/2001, AO Fracture Fixation Course, Columbus, OH
 AO Basic and Advanced Fracture Fixation Course – Laboratory Instructor, 4/2001, Columbus, OH
 “Pre and Postoperative Fracture Management”, 4/2000, AO Fracture Fixation Course, Columbus, OH
 AO Basic and Advanced Fracture Fixation Course – Laboratory Instructor, 4/2000, Columbus, OH
 “Tibial Plateau Leveling Osteotomy Surgery for Treatment of Cranial Cruciate Ligament Rupture”, 6/2000, Cincinnati Veterinary Medical Association, Cincinnati, OH
 “The Pharmacokinetics, Pharmacodynamics, and Analgesic Effects of Rectal, Intramuscular, and Intravenous Administration of Morphine in Dogs”, 2/1999, Resident Grand Rounds Presentation, Columbus OH
 BioMedtrix Total Hip Replacement Course – Laboratory Instructor, 4/1999, Columbus, OH
 AO Basic Fracture Fixation Course – Laboratory Instructor, 4/1999, Columbus, OH
 BioMedtrix Total Hip Replacement Course – Laboratory Instructor, 10/1998, Columbus, OH

“Tibial Plateau Leveling Osteotomy Surgery for Treatment of Cranial Cruciate Ligament Rupture”, 7/1998, Resident Grand Rounds Presentation, Columbus OH
AO Basic Fracture Fixation Course – Laboratory Instructor, 4/1998, Columbus, OH
BioMedtrix Total Hip Replacement Course – Laboratory Instructor, 4/1998, Columbus, OH
“Non-Neoplastic Masses of the Pancreas”, 2/1998, Resident Grand Rounds Presentation, Columbus OH
BioMedtrix Total Hip Replacement Course – Laboratory Instructor, 10/1997, Columbus, OH
“Biologic Strategies in Fracture Repair”, 9/1997, Resident Grand Rounds Presentation, Columbus OH
AO Basic Fracture Fixation Course – Laboratory Instructor, 4/1997, Columbus, OH
“The Use of Interlocking Nails for Fracture Fixation in Dogs”, 2/1997, Resident Grand Rounds Presentation, Columbus OH
“A Review of Non-Parenteral Morphine Administration for Pain Management”, 9/1996, Resident Grand Rounds Presentation, Columbus OH

PUBLICATIONS

Mackenzie G, **Barnhart MD**, Kennedy S, *et al*. A retrospective study of factors influencing survival following surgery for gastric dilatation-volvulus syndrome in 306 dogs. *J Am Anim Hosp Assoc* 2010;46:97-102.

Bisgard S, **Barnhart MD**, Schertel E, *et al*: Effects of grafting and novel implant use in tibial tuberosity advancement surgery. Submitted *Vet Surg* 2009.

Maritato K, Schertel E, **Barnhart MD**, *et al*: Prognostic indicators in cats with surgically treated primary lung tumors. Submitted *Vet Surg* 2009.

Ruddle TL, Allen DA, **Barnhart MD**, *et al*: Outcome and prognostic factors in nonambulatory Hansen Type 1 intervertebral disc extrusions: 308 cases. *Vet Comp Orthop Traumatol* 2006;19:29-34.

Kergosien D, **Barnhart MD**, Kees CE, *et al*: Radiographic and clinical changes of the tibial tuberosity after tibial plateau leveling osteotomy. *Vet Surg* 2004;33:468-474

Barnhart MD. Results of single-session tibial plateau leveling osteotomies as a treatment for bilaterally ruptured cranial cruciate ligaments in dogs: 25 cases (2000-2001). *J Am Anim Hosp Assoc* 2003;39:573-578.

Barnhart MD. Malignant transformation of an aneurysmal bone cyst in a dog. *Vet Surg* 2002;31:519-524.

Barnhart MD, Hubbel J, Muir W. Evaluation of the analgesic properties of acepromazine maleate, oxymorphone, a combination of acepromazine-oxymorphone, and medetomidine. *Vet Anaesth Analgesia* 2000;27:89-96.

Barnhart MD, Hubbel J, Muir W, Sams R, Bednarski R. The pharmacokinetics, pharmacodynamics, and analgesic effects of rectal, intramuscular, and intravenous administration of morphine in dogs. *Am J Vet Res* 2000;76:80.

Duffy M, **Barnhart MD**, Barthez P, Smeak DD. Incomplete urethral duplication with cyst formation in a dog. *J Am Vet Med Assoc* 1998;213:1287-1289.

Barnhart MD, Smeak DD. A pericolic mass containing chyle as a presumed sequelae to chronic pancreatitis in a dog. *J Am Vet Med Assoc* 1998;212:70-73.

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BOOK CHAPTERS

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