



2023

# REFERRING VETERINARIANS' GUIDE



Veterinary Health Center  
MANHATTAN, KANSAS

DISCOVER. TEACH. HEAL.

Veterinary Health Center • 1800 Denison Avenue, Manhattan, Kansas 66506  
[www.ksvhc.org](http://www.ksvhc.org) • 785-532-5555 • [vhc@vet.k-state.edu](mailto:vhc@vet.k-state.edu)

## LETTER FROM THE ADMINISTRATION VETERINARY HEALTH CENTER AT KANSAS STATE UNIVERSITY

Dear Referring Veterinarian,

It is with the greatest level of appreciation and respect that I speak for the Veterinary Health Center in thanking you for considering referral of your patient to the VHC. We take pride in all that we do and want you to know that by receiving your referral, we take responsibility for your practice needs and expectations. We will manage your patient(s) and client as our own. We know that you have choices for referrals, and we appreciate that you have selected the VHC for specialty patient care.

At the time of referral, we want your initial conversation with one of the VHC referral coordinators to be efficient and effective. When we know that your referral is headed to Manhattan, Kansas, we will communicate with the client to help them know what to expect from the VHC. Premium patient and client care are our primary missions, working to provide timely service, effective communication and connection with appropriate specialists are all of the items on our routine "checklist."

Serving not only the public community, the VHC provides referral services to contribute to the veterinary community. Service to referral veterinarians in conjunction with training opportunities for veterinary students, post-DVM interns and residents are among our highest priorities. The state of Kansas has provided an opportunity for the VHC to train veterinarians and specialists of tomorrow, all members of the VHC work to optimize training effectiveness. For this reason, when clients arrive at the VHC they will commonly meet with a professional veterinary student and staff member. Through the course of their visit they will also work with an intern or resident and senior faculty member. The veterinary medical team works together to collect information, formulate a diagnostic and therapeutic plan and work to get answers to your office. Together we can best serve animal owners in the region.

The costs for care at the VHC depend on needed services. We aim to maintain a competitive fee structure that provides service opportunities for animal owners and training opportunities for students and house officers. Once patient assessment is complete an estimate is generated. Animal owners are expected to provide a deposit: 60% of the estimated costs at the time of intake, while account balance is due (in full) at the time of discharge from the VHC. Payments can be made with cash, check or credit card. We currently offer Care Credit applications to further facilitate the payment process. The primary/senior clinician or resident in specialty training will communicate with each rDVM to inform them of findings, plans and expected cost to the client.

We are extremely grateful for your referral. Please do not hesitate to let us know how we are doing and how we can continue to enhance services to meet your veterinary referral needs.

Respectfully,



Elizabeth Davis, DVM, PhD, DACVIM  
Professor and Department Head Clinical Sciences  
Director, Veterinary Health Center  
Associate Dean of Clinical Programs



**Dr. Beth Davis, DVM**  
Associate Dean of  
Clinical Programs



**Dr. Chris Duvendack, PhD**  
Hospital Administrator

# HOW TO MAKE A REFERRAL

As a veterinarian, you can be assured we stand ready to help you meet the comprehensive medical needs of your patients.

## Small animal

Contact our referral coordinators at 785-532-5555 — or by email at [referrals@vet.k-state.edu](mailto:referrals@vet.k-state.edu). They can coordinate your consult calls or help you schedule an appointment for your client.

**Online patient referral:** [www.ksvhc.org/vets/](http://www.ksvhc.org/vets/)

## Large animal

Please call the large animal desk: 785-532-5700

## Make an appointment

- **Small Animal Speciality Services:** 785-532-5690
- **Hill's Pet Health and Nutrition Center:** 785-532-4242
- **Equine and Livestock Services:** 785-532-5700
- **Online Appointment Request:** [ksvhc.org/clients/appointment/online-form.html](http://ksvhc.org/clients/appointment/online-form.html)



# EMERGENCY SERVICES

Open 7 days a week, 24 hours a day for emergency and critical care services.

## Emergency Desk Telephone

Small Animal and Exotics: 785-532-5690  
Equine and Livestock Services: 785-532-5700

## Address:

1800 Denison Ave.  
Manhattan, Kansas 66506

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# ANESTHESIOLOGY

Welcome to the anesthesiology service at the Veterinary Health Center. We are currently the only veterinary hospital in Kansas with board-certified diplomates in the American College of Veterinary Anesthesia and Analgesia on staff. Currently, four diplomates are responsible for teaching veterinary students and managing patients in the Veterinary Health Center. Our goal for clinical patients is to provide maximal anesthetic care tailored to individualized patient needs. Students are involved in planning for and managing anesthetized patients, under the supervision of a boarded anesthesiologist and a staff of trained veterinary nurses. The patients referred to us are monitored continually during every anesthetic episode, and into the recovery period. We take the responsibility of caring for your clients' animals very seriously! Thank you for placing your trust with us.

## SERVICES

- Species specific care for all species (e.g., bovine, equine, small ruminants, dogs/cats, and exotic and zoo)
- Individualized peri- and intra-operative anesthetic administration and care
- Comprehensive patient monitoring peri-operatively including: ECG, pulse-oximetry, capnography, noninvasive and invasive blood pressure monitoring, end-tidal anesthetic gas monitoring, spirometry
- Individualized pain management for patients with both acute or chronic pain conditions, including ultrasound-guided (Konica-Minolta Sonimage HS2) regional anesthesia services
- Critical care long-term ventilation (Hamilton-C1 ventilator) of patients such as those with congestive heart failure, non-cardiogenic pulmonary edema, short-term neurologic impairments, and pneumonia
- Consultation or advice on any cases or perioperative anesthesia concern

## ANESTHESIOLOGISTS



### Dr. David Rankin

- DVM: Kansas State University
- Internship: Oklahoma State University
- Residency: Washington State University
- Areas of interest: perioperative anesthesia and acute pain management



### Dr. Rose M. McMurphy

- DVM: Washington State University
- Internship: Cornell University
- Residency: University of Florida/ University of Missouri-Columbia
- Areas of Interest: assessment of ventilation and oxygenation in anesthetized horses



### Dr. Nate Kapaldo

- DVM: Kansas State University
- MPH: Kansas State University
- Internship: The Animal Medical Center
- Residency: Kansas State University
- Areas of interest: urine PO<sub>2</sub>, ultrasound-guided regional anesthesia techniques, perioperative safety education, sustainable healthcare practices



### Dr. Morgan Murphy

- DVM: Kansas State University
- Internship: Gulf Coast Veterinary Specialists and Oklahoma State University
- Residency: Kansas State University
- Areas of Interest: optimal oxygen delivery in anesthetized patients, novel modalities of pain management in veterinary patients and optimal care of veterinary patients in the perioperative period

# CARDIOLOGY

The cardiology service offers the best in the diagnosis and treatment of heart disease in veterinary patients. In order to determine the cause of a heart problem, the cardiology service offers echocardiograms (ultrasound of the heart), radiographs, ECGs and ambulatory electrocardiograms (Holter monitoring, event monitoring, chest press ECGs, and implantable loop recorders), as well as biomarker testing.

If a heart problem is found, our board-certified cardiologist can offer a variety of treatment options, tailored for the needs of each patient and their family. These treatments range from medications to minimally invasive surgery. For emergency treatment, the Veterinary Health Center has oxygen cages and telemetry located in its ICU, which is open 24 hours a day, 365 days a year. For most routine appointments, the patient's family will be invited to the Cardiology room to talk to the cardiologist and the veterinary students about their concerns and to observe the echocardiogram. Our patients' comfort is a priority for us and we feel that family participation is an important part of that.

## SERVICES

- Echocardiography
- Diastology
- Thoracic radiographs
- ECG
- Ambulatory electrocardiograms
- OFA certification
- Congenital heart disease screening
- Systolic function
- Pacemaker implantation
- Balloon valvuloplasty
- PDA occlusion
- Heartworm extraction
- Cardiac biomarkers
- Telehealth consultation

## VETERINARIANS:



**Dr. Sara Bordelon**

- DVM: Louisiana State University
- Internship: Advanced Veterinary Care
- Residency: Washington State University



**Dr. Matthew Tanner**

- DVM: University of Georgia
- Areas of interest: cardiology, neurology, and client/student education

# DENTISTRY

The small animal dentistry service is dedicated to providing the highest standard of care for disease found in the mouth. We are able to provide a comprehensive array of dental services. Client education is key for understanding of disease, treatment options and prevention. We look forward to helping pets enjoy an improved quality of life through oral care.

## SERVICES

- Referral examinations
- Imaging - dental radiography, CT
- Periodontal disease treatment – extractions, guided tissues regeneration, root planing
- Diagnosis and treatment of oral inflammatory diseases
  - Feline Chronic Gingivostomatitis, Chronic Canine Ulcerative Stomatitis
- Endodontics - root canal therapy
- Prosthodontics – preparation and placement of crowns
- Diagnosis and treatment options for jaw fractures
- Diagnosis and treatment options for malocclusions – Vital pulp therapy, orthodontics
- Oral surgery – oral nasal fistula repair, oral tumor biopsy, and removal

## VETERINARIAN:



### Dr. Marjory Artzer

- DVM: Kansas State University
- MS: Kansas State University
- Part-time small animal dentistry resident – Companion Animal Dentistry of Kansas City
- Areas of interest: prevention and treatment of small animal dental disease

# DERMATOLOGY

The dermatology service is operational Tuesdays, Wednesdays and Thursdays. Dogs and cats comprise the majority of the case load, however, we sometimes see other species, including horses and exotics. We usually require no overnight stay, but generally require that the patient remain in the Veterinary Health Center for several hours on the day of the appointment. Discharge instructions are discussed with each client. The referring veterinarian will receive a copy of each client's discharge, usually by fax or e-mail, outlining diagnoses, procedures that were performed, pending tests, medications that were dispensed and further instructions for the client. Dr. Bagladi-Swanson generally follows up with a phone call to the rDVM to discuss future therapeutic options for each patient. Furthermore, we also have a veterinary nurse, Rachel Wright, RVT, who is very dedicated to our clients and patients.

## SERVICES

- Assessment and work-up of both new and chronic dermatologic conditions
- Intradermal allergy tests for environmental allergy; serum tests in some cases
- Skin biopsies
- In-house diagnostics such as cytologies, trichograms, fine needle aspirates, skin scrapings
- Bacterial cultures including and susceptibilities; fungal cultures
- Otitis evaluation (including deep ear cleaning and CT evaluation, if indicated).

## DERMATOLOGIST



### Dr. Mary Bagladi-Swanson

- DVM: Kansas State University
- Internship: general private practice
- Residency: Cornell University

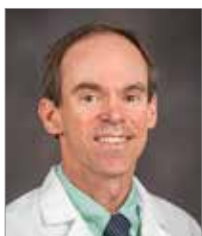
# INTERNAL MEDICINE

The internal medicine service sees dogs and cats with a wide variety of nonsurgical diseases that are not addressed by more focused specialties (e.g., ophthalmology, oncology or cardiology). Patients with endocrine, respiratory, gastrointestinal, hepatic, hematologic, neurologic, pancreatic, infectious, immune-mediated, and urinary tract disease, as well as those with vague and non-localizing clinical signs can be referred for evaluation by a board-certified Internist. The Internal Medicine service works with the various services in the hospital (surgery, cardiology, radiology, oncology, ophthalmology) to optimize patient care and diagnostics.

## SERVICES

- Flexible-fiber and rigid endoscopy (gastrointestinal endoscopy, bronchoscopy, rhinoscopy, cystoscopy/urethroscopy)
- Balloon dilatation and bougienage of esophageal, rectal and colonic strictures and nasopharyngeal stenosis
- Bone marrow aspirate and biopsy
- Airway sampling (bronchoalveolar lavage, orotracheal wash, transtracheal wash)
- Esophageal and Gastric feeding tube placement
- Treatment for nasal aspergillosis (clotrimazole infusion under anesthesia)
- Critical care

## VETERINARIANS:



**Dr. Kenneth Harkin**

- DVM: Iowa State University
- Residency: Michigan State University
- Areas of interest: canine and feline infectious disease; leptospirosis; dysautonomia; immunology/hematology



**Dr. Thomas Schermerhorn**

- VMD: University of Pennsylvania
- Internship: South Shore Veterinary Associates
- Residency: Cornell University
- Areas of interest: canine and feline endocrinology



**Dr. Maria Jugan**

- DVM: The University of Tennessee, Knoxville
- Internship: Texas A&M University
- Residency: The Ohio State University
- Areas of interest: gastrointestinal and liver disease, as well as feline and critical care medicine



**Dr. Shane Lyon**

- DVM: Oklahoma State University
- Internship: Veterinary Specialists of South Florida
- Residency: Kansas State University
- Areas of interest: urinary tract disorders and minimally invasive procedures



# ONCOLOGY

The staff of the Veterinary Health Center Oncology Service is dedicated to the prevention, diagnosis and treatment of cancer in your pet. Through research and education, the oncology program not only helps treat current cancer patients but also trains future veterinarians in the area of oncology (cancer biology) and performs clinical research to investigate innovative and more effective ways to treat patients with cancer.

## SERVICES

- Referring veterinarian oncology consultations
- In-person client oncology consultations
- Recheck examinations
- Interactive and collaborative consultations with other hospital services
- Cancer screening
- Cytology
- Minimally invasive biopsies and surgeries
- Immunophenotyping and PARR
- Staging, including ultrasound, radiography and advanced imaging
- Chemotherapy
- Immunotherapy
- Radiation therapy
- Clinical trials

## ONCOLOGISTS



### Dr. Mary Lynn Higginbotham

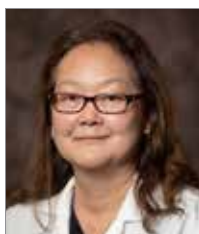
- DVM: University of Missouri-Columbia
- Internship: Veterinary Specialists of Rochester
- Residency: University of Missouri-Columbia
- Areas of interest: diagnosis and treatment of cancer in dogs and cats



### Dr. Kimberly Reeds

- DVM: Oklahoma State University
- Residency: Small Animal Oncology - Kansas State University
- Internship: Radiation Therapy - Purdue University
- Areas of interest: nutrition in oncology patients; classification of canine lymphoma and leukemia

## RADIATION ONCOLOGIST



### Dr. Chieko Azuma

- DVM: Nippon Veterinary and Life Science University, Department of Veterinary Science, Tokyo, Japan
- PhD: North Carolina State University
- Residency: Veterinary Radiation Oncology, North Carolina State University
- Areas of interest: individualized treatments incorporating radiotherapy and palliative care in veterinary cancer patients. Pain assessment and management.

# CLINICAL TRIALS

Clinical trials at the VHC provide client-owned patients access to advanced, state-of-the-art technology including diagnostics and therapeutics that may not be otherwise available. Clinical investigators, within the College of Veterinary Medicine, continuously evaluate new treatments and diagnostic tests for various diseases including e.g., cancer, osteoarthritis, gastrointestinal disease and kidney disease. These investigations are designed to improve the detection, prevention and treatment of disease, as well as our understanding of disease, with the goal of improving patient outcomes and quality of life for the patients and their families. Treatments and/or diagnostics associated with a trial may be paid for by study funds. Some studies may also provide additional financial incentives for study participation. Clinical trials lead to new treatments potentially with less side effects and/or improved efficacy which will potentially benefit animals and/or humans in the future.

The Clinical Trials Office for the CVM is dedicated to providing resources for our clinical investigators including our board certified specialist, residents, interns and veterinary students focusing in clinical research. The clinical trials coordinator serves as a liaison between all members of a research team involved in a trial; from the clients and patients, to the study sponsors, primary investigators, and veterinary technicians. Each project is a team effort ensuring each enrolled patient receives all the required study visit exams, treatments, and sample collections. As the coordinator, Kris is able to assist on all fronts so each trial runs as efficiently as possible to ensure data integrity.

Please visit our website to see a list of currently enrolling trials:

<https://ksvhc.org/services/clinical-trials/current-trials/>

To learn more about our clinical trials and/or to help determine study eligibility for one of your patients, please contact Kris directly for more information.



## CLINICAL TRIALS COORDINATOR

**Kris Richardson**

Phone: 785-532-3046

Email:

ClinicalTrials@vet.k-state.edu



# OPHTHALMOLOGY

We are dedicated to providing the highest standard of care to veterinary patients with eye diseases. A member of the team is available to deal with eye emergencies 24 hours a day. Although most of our patients are dogs, cats and horses, we also treat a wide range of exotic species. The provision of a high standard of care in veterinary ophthalmology demands not only clinical expertise, but a range of technologically advanced instrumentation, which is not available to most veterinarians.

## SERVICES

- Referral examinations, routine and urgent
- Management of chronic eye problems (initial examination and rechecks as needed)
- OFA CAER (formerly CERF) exams for purebred/breeding dogs

## SURGICAL OPTIONS

- Phacoemulsification (cataract removal surgery)
- Conjunctival grafts (treatment of corneal ulcers)
- Other corneal surgeries
- Eyelid surgery (simple to advanced blepharoplasty)
- Glaucoma surgery
- Intrascleral and orbital implant placement
- Parotid duct transposition (surgical treatment of dry eye disease)
- Retinopexy (prophylactic and barrier) to prevent retinal detachment

### *Additional Diagnostic Services*

- Ocular and orbital ultrasonography
- Electroretinography
- MRI
- CT

## OPHTHALMOLOGISTS



### **Dr. Amy Rankin**

- DVM: University of Wisconsin-Madison
- Internship: Oklahoma State University
- Residency: Purdue University
- MS: Purdue University
- Areas of Interest: inhibition of ocular inflammation, advanced blepharoplastic surgical procedures



### **Dr. Jessica Meekins**

- DVM: Ohio State University
- Internship: VCA Veterinary Care Referral Center
- Residency: Purdue University
- MS: Purdue University
- Areas of Interest: feline herpesvirus (FHV-1) and general feline ophthalmology, exotic animal ophthalmology



# RADIOLOGY

Imaging of all species presented to the Veterinary Health Center at the College of Veterinary Medicine.

## DIAGNOSTIC IMAGING EQUIPMENT

- Ultrasound, radiography and fluoroscopy
- 3T MRI with capability to image equine distal limbs
- Computed tomography with ability to image all species including exotics, equine and livestock skull and distal limbs.

## RADIOLOGISTS



### Dr. Nicky Cassel

- DVM: University of Pretoria, South Africa
- Residency: University of Pretoria, South Africa. Diplomat of the European College of Veterinary Diagnostic Imaging
- Areas of interest: musculoskeletal imaging, developmental orthopedic diseases. Veterinary education. Artificial intelligence in veterinary medicine.



### Dr. Mackenzie Hallman

- DVM: Kansas State University
- Internship: Virginia Tech
- Residency: Kansas State University, Diplomate of the American College of Veterinary Radiology
- Areas of interest: abdominal ultrasound and ultrasound education, computed tomography and vascular imaging, large animal imaging.



### Dr. Clay Hallman

- DVM: Kansas State University
- Residency: Oklahoma State University and Kansas State University
- Areas of interest: computed tomography, cardiovascular imaging



# SMALL ANIMAL SURGERY

The small animal surgery service offers a complete array of orthopedic, neurologic, and soft-tissue surgeries. Our available expertise, equipment, facilities, and support services enable us to meet the needs of the full scope of surgical cases.

## SURGICAL PATIENT BENEFITS:

- 24-hour staffed Intensive Care Unit (ICU)
- Complete radiology service including ultrasound, fluoroscopy, MRI and CT staffed by radiology specialists
- Internal medicine service available for consultation
- Oncology service which can provide chemotherapeutic and radiation therapy support for surgical oncology patients

## SURGEONS



### Dr. Walter Renberg

- DVM: Oklahoma State University
- Internship: Mississippi State University
- Residency: Virginia Tech
- Areas of interest: small animal orthopedics and neurosurgery



### Dr. Pierre Picavet

- DVM: University of Liège, Belgium
- Internship: University of Liège, Belgium
- Certificate of Advanced Education in Animal Osteoarticular Traumatology and Orthopedics: National Veterinary School of Toulouse, France
- Residency: University of Liège, Belgium
- Areas of interest: all aspects of canine and feline traumatology and orthopedics



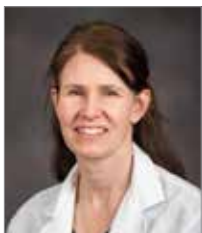
### Dr. Oscar Chavez

- DVM: University of Guadalajara, Mexico
- Internship: National Autonomous University of Mexico
- Residency: National Autonomous University of Mexico
- Residency: Kansas State University
- Areas of interest: small animal soft tissue surgery and orthopedic surgery as well as minimal invasive surgery and arthroscopy



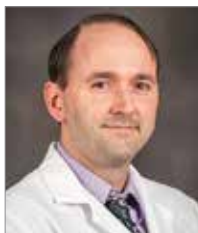
### Dr. James Roush

- DVM: Purdue University
- Residency: University of Wisconsin-Madison
- Areas of interest: small animal orthopedics and neurosurgery



### Dr. Emily Klocke

- DVM: Michigan State University
- Internship: Purdue University
- Residency: Purdue University
- Areas of interest: teaching senior veterinary students and training interns and surgical residents in all aspects of soft tissue surgery



### Dr. David Upchurch

- DVM: Auburn University
- Internships: University of Pennsylvania and Louisiana State University
- Residency: Kansas State University
- Areas of interest: oncologic surgery, regenerative medicine, and reconstructive surgery

# EXOTIC & ZOO ANIMAL MEDICINE

The Exotic Pet and Zoological Medicine Service at the Veterinary Health Center serves to provide wellness care, specialized diagnostic testing, medical and surgical care, and emergency care to exotic companion animals and zoological animals. We have a dedicated staff of board-certified veterinarians, veterinary nurses, specialty residents and interns, and fourth-year veterinary students.

Some species require special paperwork before we are able to see them, including native wildlife (examples include raccoons, foxes, and squirrels), and exotic cats (servals, bobcats). Privately owned primates will require specific diagnostics and preventative care documentation before we are able to accommodate seeing them. There are some species that we are unable to see including skunks, and venomous snakes.

## SERVICES

- Annual wellness visits and new pet exams
- Diet, husbandry, and behavioral consultations
- Vaccinations
- External and internal parasite detection
- Routine, specialty, and emergency care
- Preventative spay and neuter on a wide variety of mammal species and some reptiles
- Hospitalization and treatments performed in dedicated wards

## VETERINARIANS



### Dr. Trenton Shrader

- DVM: Kansas State University
- Internship: University of Saskatchewan's Western College of Veterinary Medicine
- Areas of interest: Transitional medicine preparing zoo-raised animals for wild release and conservation medicine

## ADVANCED SPECIALTY CARE

- Safest and most up to date sedation, anesthesia, and analgesia protocols
- Diagnostic imaging ranging from radiographs, ultrasound, CT scans, and MRIs
- Endoscopy
- In-house pathology and laboratory testing
- Molecular diagnostics for infectious disease testing
- Collaboration with the other veterinary specialties in the hospital including cardiology, dentistry, medicine, surgery, ophthalmology, oncology, radiology, anesthesia, and dermatology
- Hospitalization and intensive care
- Advanced soft tissue surgery and orthopedic surgery including mass removals, salpingectomies, ovariectomies, cloacal surgeries, amputations, feeding tube placement, and fracture repair
- Radiation therapy
- Medical oncology and chemotherapy
- End of life and hospice care



### Dr. Gretel Tovar

- MVZ (DVM): National Autonomous University of Mexico
- Specialty certification: Diplomate American Board of Veterinary Practitioners (Avian Medicine)
- Internship and Residency: Colorado State University
- Areas of interest: Surgery and medicine of exotic pets; empower veterinarians and vet trainees to deliver exceptional care to their patients and clients through guidance and support



# LIVESTOCK SERVICES

VHC's livestock service serves producers as primary care veterinarians as well as board-certified experts in medicine, surgery and production consultation services. Field service clinicians are available to make farm calls, and hospital clinicians are available for animal care in-house for beef, dairy, swine, sheep, goats, and camelids. Veterinarians can refer cases to the hospital for specialty care in many aspects of medicine and surgery.

## SERVICES

- Hoof health and lameness treatment
- Routine female reproductive health and emergency services
- Routine bull breeding soundness as well as injury evaluation and surgery
- Intensive care services providing treatment against dehydration, severe infection, and metabolic disease.
- Field service equipment includes stocked ambulatory vehicles for herd health and emergency care. Portable squeeze chutes, and a Rawhide working pen system are available when necessary.
- In-house handling facility is recently updated to include expanded holding pens and cattle handling systems. The hospital has treatment stalls, obstetrics handling, and hydraulic tilt chutes for more thorough lameness evaluation and care.
- The hospital provides detailed diagnostics including bloodwork, radiology, CT, and MRI when applicable to case workup and treatment.

## VETERINARIANS



### Dr. Matt Miesner

- DVM: Washington State University
- Residency: Ohio State University
- Areas of interest: bovine lameness and metabolic diseases of small and large ruminants



### Dr. Shaun Huser

- DVM: Kansas State University
- Areas of interest: production animal medicine, facility design and flow, and animal husbandry and welfare



### Dr. Emily Reppert

- DVM: Colorado State University
- Internship: Oklahoma State University
- Residency: Oklahoma State University
- Areas of interest: small ruminants and camelids; ruminant urinary disease, neonatology, bovine lameness, and gastrointestinal disease



### Dr. Leslie Weaver

- DVM: Texas A&M University
- Internship/Residency: Oklahoma State University
- Areas of interest: small ruminants, particularly pregnancy toxemia and urolithiasis in goats, diagnostic ultrasound, and beef cattle herd health and lameness



### Dr. Bryan Weaver

- DVM: Texas A&M University
- Residency: Oklahoma State University
- Areas of interest: beef cattle and small ruminant production medicine and herd health, lameness, food animal theriogenology (reproduction), obstetrics, neonatology, and food animal surgery

# EQUINE SERVICES

## INTERNAL MEDICINE

The internal medicine service cares for horses with complex problems associated with the respiratory tract, gastrointestinal tract, nervous system, muscles and other internal organs (kidney, liver, endocrine) in adult horses and neonatal foals. The equine internal medicine service can also help with infectious diseases either in individual horses or on a herd/outbreak bases.

## SURGERY

The equine surgery service offers surgical evaluation and consultation ranging from conventional to minimally invasive approaches including laser surgery and electrochemotherapy. We provide options to address disorders relating to upper airway problems, bone and joint injury (fracture/joint fragments), simple, complex, and/or non-healing wounds, sarcoid treatment, fractured or infected teeth, surgical colic and abdominal disorders, tendon/ligament injuries requiring surgery, reconstructive and/or minimally invasive reproductive surgery. Treatment options are thoroughly discussed with clients to help them make the most informed decision to meet their needs.

- Complex wound management
- Arthroscopic/tenoscopic surgery
- Dorsal spinous process ostectomy (for kissing spine lesions)
- Conventional and laparoscopic cryptorchidectomy
- Conventional and laparoscopic ovariectomy
- Electrochemotherapy for refractory sarcoid tumors

## REPRODUCTION

We provide year-round reproductive medicine services for horses including mare and stallion breeding management, assisted reproductive techniques, semen freezing and supervision of high-risk pregnancies and foaling. With the use of the latest diagnostic and reproductive techniques, mare and stallion reproduction services are offered both on-farm and in the hospital.

- Artificial insemination with fresh, cooled and frozen semen
- Breeding soundness exam
- Diagnosis and treatment of subfertility
- Pregnancy diagnosis
- Evaluation of fetal well-being
- Management of high-risk pregnancies
- Foaling services
- Reduction of twin pregnancies
- Low-dose artificial insemination
- Embryo transfer
- Semen collection
- Shipping of cooled semen
- Semen freezing
- Semen evaluation with computer assisted sperm analysis

## INTERNAL MEDICINE SPECIALISTS



### Dr. Laurie Beard

- DVM: Washington State University
- Internship: Rood and Riddle Equine Hospital
- Residency: The Ohio State University
- Areas of interest: endocrinology and geriatric equine medicine



### Dr. Katie Delph Miller

- DVM: Purdue University
- Internship: University of Missouri
- Residency: Kansas State University
- Areas of interest: equine neonatology, immunology, and infectious diseases of the respiratory

## SURGEONS



### Dr. Haileigh Avellar

- DVM: Oklahoma State University
- Internship: Oklahoma State University and Idaho Equine Hospital
- Residency: Kansas State University
- Areas of interest: soft tissue surgery, regenerative medicine, and wound healing



### Dr. Dylan Lutter

- DVM: Kansas State University
- Residency: Washington State University
- Certified Equine Rehabilitation Practitioner
- Certified Animal Chiropractor by AVCA
- Areas of interest: lameness diagnosis, sports medicine, orthopedic surgery, physical therapy and rehabilitation

# EQUINE SERVICES (continued)

## PERFORMANCE MEDICINE

The equine performance medicine service evaluates equine athletes with performance limiting problems and injuries, with a focus on musculoskeletal problems and difficult to diagnose lameness. Utilizing the Equine Performance Testing Center we perform a static and dynamic examination over different ground surfaces and stressed conditions to determine the cause of a horse's gait abnormality. Following diagnosis, we offer integrative treatment options, customized to each owner's needs and preferences. Cutting edge biologic therapies (PRP, MSC, ACS, A2M), integrative medical techniques (chiropractic and acupuncture), and options for rehabilitation/physical therapy (custom rehabilitation programs, therapeutic laser, shockwave) are discussed in addition to conventional medical and surgical therapies. If necessary, consultation with board certified equine surgery and internal medicine specialists are available on a same day basis. Advanced diagnostic imaging (MRI/CT) is available for complex cases, often on a next-day basis.

### Biological Therapies Offered:

- Platelet Rich Plasma (PRP)
- Autologous Conditioned Serum (ACS; commonly known as irap)
- Alpha-2-EQ (alpha-2 macroglobulin concentrated therapy)
- Allogenic mesenchymal stem cell therapy (available via overnight shipping)

### Integrative Therapies Offered:

- Equine Spinal Manipulative Therapy: Chiropractic adjustment by an AVCA certified clinician
- Equine Acupuncture: Acupuncture treatments by a Chi Institute trained clinician

### Physical Therapies Offered:

- Customized controlled exercise rehabilitation and conditioning programs
- Core strengthening and mobility exercises
- Proprioceptive training exercises
- Class IV therapeutic laser treatments
- Electrohydraulic shockwave therapy

## FIELD SERVICE

We provide routine health care and emergency services on your farm.

- Preventive Health Care
- Vaccination
- Deworming
- Coggin's Testing
- Annual Examination
- Equine Dentistry
- Lameness Evaluation
- Emergency Farm Calls
- Reproductive Services
- Microchipping

## REPRODUCTION



### Dr. Adam Bassett

- DVM: Iowa State University and University of Nebraska-Lincoln
- Residency: Oklahoma State University
- Areas of interest: equine and bovine reproductive tract microbiome, assisted reproductive technologies, stallion and mare breeding management

## FIELD SERVICE



### Dr. Chris Blevins

- DVM: Kansas State University
- Internship: Janssen Veterinary Clinic/ Purdue University
- Areas of interest: equine dentistry, reproduction and preventative medicine

## LARGE ANIMAL EMERGENCY



### Dr. Meghan McCarthy

- DVM: Ross University School of Veterinary Medicine
- MS: Oregon State University
- Areas of interest:

# HILL'S PET HEALTH AND NUTRITION CENTER

The Hill's Pet Health and Nutrition Center is the primary care service provider within the VHC and is a core service for our hospital. In our new state of the art treatment area we train tomorrow's next generation of veterinarians. Our students are guided through and manage preventive medicine cases; acute and chronic health conditions; urgent care cases; and perform minor surgical procedures. They are also instructed on how to utilize Fear Free® techniques to address not only our patient's physical health, but their emotional health as well.

Our clinical faculty are individuals dedicated to your patient's total well-being and care throughout its lifetime. They are passionate about providing excellent care for their patients as well as educating our students and clients.

The Healthy Weight Clinic is also part of our service. Owners can enroll their overweight cat or dog to receive a specialized weight loss program that is individually tailored for their pet. Students learn how to treat and manage obese patients through this program as well.

## SERVICES

- Healthy Weight Clinic
- Preventive and Wellness Care
- Routine behavior consultations
- Chronic illness and pain management
- Intestinal parasite testing and treatment
- Heartworm testing and treatment
- Acute minor illness/injury
- Minor surgical procedures
- Interstate and international health certificates
- Compassionate end of life care services

## VETERINARIANS



**Dr. Susan C. Nelson**

- DVM: Kansas State University
- BA: Biology
- Areas of interest: preventive care, pediatrics/geriatrics, clinical communication and general behavioral issues



**Dr. Neala Boyer**

- DVM: University of Missouri
- Diplomate American Board of Veterinary Practitioners-Canine and Feline
- Areas of interest: behavior, internal medicine, dermatology, ophthalmology and chronic pain management



**Dr. Melissa Upchurch**

- DVM: Auburn University
- Areas of interest: preventative/wellness care and dermatology