LETTER FROM THE LEADERSHIP

We hope that every one of our referring partners and their families continue to stay safe and healthy, and that your hospitals and staff continue to withstand today’s unique challenges.

The Veterinary Health Center includes all the service units of the College of Veterinary Medicine and the Veterinary Medical Diagnostic Laboratory:

• Our Small Animal, Food Animal, and Equine hospitals on the Columbia campus
• The shelter medicine program
• The oncology, imaging, and radiation therapy services and CARES-Dermatology in Wentzville
• The emergency clinic in Kansas City

Thank you for continuing to support and partner with the University of Missouri Veterinary Health Center, whose missions are to teach, heal, discover, and serve. The faculty, staff and students of MU’s VHC strive to provide excellent service for you, your clients, and their animals. You and your referrals help us to train tomorrow’s veterinarians to be practice ready and to develop new cures for animal disease.

Organizationally, the coming year will be another one of transition as we welcome our new hospital director, Dr. Gerelyn Henry. Dr. Henry comes to us from Charlottesville, Virginia, where she founded and served as the CEO and president of YW August Companies, a healthcare consulting, education, information, research, and clinical services firm. She brings more than 30 years’ experience in veterinary, comparative, translational, toxicologic and forensic pathology, and more than 15 years’ experience teaching veterinary and human pathology to doctoral students. She earned both her Bachelor of Science and Doctor of Veterinary Medicine degrees at Tuskegee University in Tuskegee, Alabama, and went on to complete an internship in anatomic pathology there. She then completed a residency in anatomic pathology at Michigan State University in East Lansing and is board certified in anatomic pathology. She was an NIH postdoctoral fellow involved in cancer research at Michigan State. She also earned a global executive MBA at the University of Virginia Darden School of Business. We look forward to her joining our team and hope that you will have the opportunity to meet her in the near future!

This 22nd edition of the Referring Veterinarians Guide is a resource to assist you in referring cases to the Veterinary Health Center and provides:

• A pictorial directory of faculty, house officers (interns and residents), and technical support staff by specialty or species area
• Information about each clinical specialty
• A referral form and map of the College of Veterinary Medicine Columbia campus (insert)
• A list of technical staff with referral communication responsibilities
• Clinic hours and toll-free telephone numbers
• An index to help you conveniently find important information

All our faculty, staff, technicians, and students do their utmost to provide an outstanding experience for your clients, including informing you on the progress of your referral. We provide state-of-the-art diagnostic and therapeutic services using a team-based, collaborative approach. To that end, we have recently welcomed the following faculty members to our team:

• Drs. Kile Townsend and Lindsey Hayden, equine medicine and surgery
• Drs. Amy Molitoris, Jerry Toporis, Kevin Shull, Matthew Allen, and Bryan Shedd, small animal emergency and critical care
• Drs. Celeste Morris and Luis Rivero, food animal medicine and surgery
• Dr. Julia Baldrighi, theriogenology
• Dr. Yoshimi Iwaki, oncology
• Drs. Joanna Murdoch and Michael Barchilon, small animal internal medicine
• Dr. Bess Pierce, small animal sports medicine and rehabilitation

We continue to develop our faculty, facilities, and equipment to provide your clients with excellent service and educate tomorrow’s veterinarians. Here are a few highlights from 2022:

• The VHC-Columbia continues to evolve to meet our clinical and teaching needs. We have remodeled the oncology rounds room and the small animal internal medicine work area.
• With the hire of Dr. Pierce in sports medicine and rehabilitation, the VHC-Columbia has expanded veterinary care in sports medicine and rehabilitation and renovated space dedicated to these services.
• Acquisition of standing computed tomography (CT) capability will optimize care in equine lameness, dental, sinus, neurological and neonatal disorders.
• We hired a new social worker, Dana Barattin, who provides help and support to our clients who are facing illness or loss of a pet.
• The number of exam rooms have been increased at VHC-Wentzville to accommodate an expanded oncology and dermatology caseload.
• Dr. Kelly Farmer, medical director of the VHC-Kansas City, and her dedicated team continue to provide much needed emergency veterinary care services to the greater Kansas City area.

Our website, www.vhc.missouri.edu, has ongoing upgrades, which we would like you to check out, bookmark, and use often! We hope you will direct your clients to our site when you refer them to us. While the website will continue to expand, we would like to share some of the features already available to you and your clients.

For our Referring Veterinarians:

• Detailed information on how to make a referral
• What your clients can expect when they arrive at the VHC
• Printable referral forms to send along with your clients, including a place for you to share requests and concerns
• Information on consultative services, including radiographic and nutritional consultation forms
• Details on our overnight transfer service, which allows your patients to spend the night in our ICU and return to your hospital the following morning
• The Referring Veterinarian Patient Portal is now available. This portal will allow you to access most of your patients' records in real-time, which also allows you continued access to laboratory data to facilitate your patient's care. To register a new portal account, go to https://vetview.cvm.missouri.edu/vhcportal/.
• We are always striving to improve the care that we provide to animals and the service that we provide to clients and referring veterinarians. Thus, we have a satisfaction survey available on the site.
For clients:
- Short video overviews of our food animal, equine and small animal hospitals as well as information on what to expect during their visit
- Responses to many questions that your clients may have about our hospitals, including the roles of students, interns, and residents in patient care
- Information on billing and financing policies and a link to pay bills online
- Links to our veterinary social worker, who can counsel clients facing difficult decisions or dealing with grief
- Detailed information on each of the VHC services and sections, including biographies and information on the services that each service can provide to your clients and their animals
- Driving directions and parking, lodging and dining information

For both you and your clients:
- Information on clinical trials
- Links to make donations in honor of people or pets

We think you will find the website useful, and we welcome feedback as we continue to make improvements to better serve our partners and clients.

The VHC hospitals continue to benefit from a close relationship with the Veterinary Medical Diagnostic Laboratory. The hospitals and lab enjoy a strong synergy and work closely to solve complex problems for your clients. The laboratory offers a low-cost pick-up service for samples directly at veterinary clinics, and now offers next day service to Missouri, most of Illinois and Kansas and parts of Iowa, Nebraska, Kentucky and Indiana. Information on services provided by the laboratory can be found at www.vmdl.missouri.edu or by calling 1-800-862-8635.

Of course, there are challenges to operating a veterinary practice in these times, including maintaining adequate staffing. We continue to work diligently to soon return to staffing adequate to allow small animal referrals 24 hours a day, seven days a week, 365 days a year. Currently, we are accepting external walk-in emergencies or emergency referrals from 8 a.m. to 10 p.m.

Large animal veterinary care and emergency service continues 24 hours a day.

Again, please accept our heartfelt thanks for your support. Your support of our mission through patient referrals, constructive feedback, and student mentorship is appreciated!

Sincerely,

Joan R. Coates, DVM, MS, Dipl. ACVIM (Neurology)
Professor and Interim Hospital Director
Veterinary Health Center

John R. Dodam, DVM, MS, PhD, Dipl. ACVAA
Professor and Chair
Department of Veterinary Medicine and Surgery

MEET THE TEAM

ADMINISTRATION

John Dodam
DVM, MS, PhD, DACVAA
Department Chair

Gereyn Henry
DVM, MBA
VHC Hospital Director

Peggy Bryan
MA
VHC Hospital Administrator

Jeffrey Bryan
DVM, MS, PhD, DACVIM
Research Associate Chair

Derek Fox
DVM, PhD, DACVS
Small Animal Associate Chair

Joanne Kramer
DVM, MS, DACVS
Large Animal Associate Chair

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EQUINE AMBULATORY, MEDICINE AND SURGERY

The Equine Hospital provides all aspects of patient care, from on-farm preventive medicine to complex referral care. The MU Veterinary Health Center is on the cutting edge of lameness diagnosis and treatment. A team of veterinary specialty clinicians, residents, interns, students, technicians and assistants provide your client’s horse with the best medical care.

AMBULATORY

The equine ambulatory program operates trucks with two faculty veterinarians, one resident and three rotating interns. The team offers a full spectrum of services.

- Upper airway endoscopy
- Gastroscopy
- Digital ultrasound
- Digital radiography
- Lameness examinations
- Equinosis Lameness Locator
- Preparation of IRAP, PRP and stem cell therapy
- Routine and advanced dentistry
- Electronic Coggins and health certificates available next day by email
- Vaccinations

MEDICINE

Our internal medicine team provides superior emergency, intensive and elective care for a wide variety of conditions. The advanced diagnostic testing capabilities, treatment modalities and collaboration among specialty services within the Veterinary Health Center allow for the most comprehensive care possible in the Midwest. Services include:

- Abdominal and thoracic ultrasonography and radiography
- Computed tomography (CT scan)
- Gastric, respiratory and urinary endoscopy
- Ophthalmology, dermatology and oncology
- Cardiology (echocardiogram and continuous telemetry)
- Neurology and neonatal foal medicine
- Gastroenterology (gastric ulcers, colic and colitis)
- Myopathy and nutritional evaluations
- Hepatic and renal system assessments
- Dentistry and oral surgery
- Infectious disease management and isolation
- On-site endocrinology diagnostic testing (PPID and EMS)
- 24-hour emergency and intensive care services

SURGERY

A full spectrum of elective and emergency surgery and lameness services are available, including arthroscopy, abdominal surgery, wound treatment, fracture repair, respiratory surgery, laparoscopy, sinus and dental surgery, tendon/ligament surgery, MRI, nuclear scintigraphy (bone scan) podiatry services and regenerative therapies.

- Equine surgery specialists
- State-of-the-art hospital facilities
- Cutting-edge lameness diagnosis and therapy
- Advanced diagnostics and instrumentation
- 24-hour critical care

EQUINE MEDICINE AND SURGERY FACULTY

Lindsey Hayden
DVM
Clinical Instructor
Surgery

Philip Johnson
BVs (hons), MS, MRCVS, DACVIM, DECvim
Professor Internal Medicine

Kevin Keegan
DVM, MS, DACVS
Professor Surgery, Director of E. Paige Laurie Endowed Equine Lameness Program

Joanne Kramer*
DVM, MS, DACVS
Teaching Professor Surgery, Interim Assistant Dean of Clinical Education

Alison LaCarrobu
DVM, DABVP
Associate Teaching Professor Internal Medicine Ambulatory

Lynn M. Martin
DVM, MPH, DACVIM
Assistant Teaching Professor Internal Medicine

Megan McCracken
DVM, MS, DACVS
Assistant Teaching Professor Surgery

Martha Schurf
DVM, DABVP
Assistant Teaching Professor Ambulatory

Kile Townsend
DVM, MS
Assistant Teaching Professor Internal Medicine

Kelly Sandelin-Gravitt
DVM

POSTDOCTORAL FELLOW

Lynn M. Martin
DVM, MPH, DACVIM
Assistant Teaching Professor Internal Medicine

Megan McCracken
DVM, MS, DACVS
Assistant Teaching Professor Surgery

Martha Schurf
DVM, DABVP
Assistant Teaching Professor Ambulatory

Kile Townsend
DVM, MS
Assistant Teaching Professor Internal Medicine

Kelly Sandelin-Gravitt
DVM

VETERINARY TECHNICIANS

Hannah Blake
RVT

Joyce Guthrie
RVT

Melody Canote
BS

Rebecca Robert

Lisa Sanford

Not Pictured
Breyon Johnson

VETERINARY ASSISTANTS

Kristen McCurdy
DVM

Alexandra Warren
DVM

Megan Gallagher
DVM

Gabrielle Gonzalez
DVM

Brian Homerick
DVM

Not Pictured
Breyon Johnson

*head of section
The VHC Food Animal Hospital is one of the busiest food animal hospitals in North America. The bulk of the caseload consists of traditional agricultural animals, including beef cattle, dairy cattle, swine, sheep and goats. The clinic also provides services to nontraditional livestock owners.

SERVICES AT THE VETERINARY HEALTH CENTER

- Medicine and surgery specialists
- Full-service hospital that caters to both inpatients and outpatients
- 24-hour emergency service
- 24-hour intensive care available for inpatients
- Indoor animal handling facility including rotating chute, squeeze chute with scale, and cattle transport chutes
- State-of-the-art surgical facility
- Diagnostic imaging capability (radiography, ultrasound, CT and MRI)
- Endoscopy
- Access to in-house specialists/experts in radiology, oncology, cardiology, ophthalmology, neurology, emergency and critical care, dentistry, dermatology, nutrition and surgery
- Acupuncture

AMBULATORY/PRODUCTION MEDICINE

- Full-service ambulatory service equipped for routine and emergency care of healthy and sick animals or groups of animals
- Medicine specialists
- Preventive medicine specialist
- 24-hour emergency service
- Regulatory medicine (Certificates of Veterinary Inspection, TB testing, Brucellosis testing and vaccination)
- Disease outbreak investigation
- Herd-level production medicine consultation (cow/calf, dairy, feedlot, swine, sheep, goats and camelids)
- Reproduction

FOOD ANIMAL MEDICINE AND SURGERY FACULTY

- Pamela Adkins, DVM, MS, DACVIM
  Assistant Professor
  Coordinator Veterinary Public Health Emphasis Area
  Assistant Director Agriculture Experiment Station

- C. Austin Hinds*, DVM, MS, DACVIM-LA
  Associate Teaching Professor

- Luis Rivero, DVM
  Clinical Instructor

- Corinne Bromfield, DVM
  Assistant Extension Professor

- Celeste Morris, DVM, MBA, MPVM
  Assistant Teaching Professor

- Loren Schultz, DVM, MS, DACVP
  Associate Teaching Professor

- Kelsey Walker, DVM, MS
  Clinical Instructor

FOOD ANIMAL MEDICINE AND SURGERY INTERNS

- Johnny Archer, DVM
- Kaitlyn Giammatteo, DVM
- Allyson Patterson, DVM

VETERINARY TECHNICIAN

- Justyne Smith, VT

VETERINARY ASSISTANTS

- Not Pictured: Sarah Estes
- Kaitlin Dobson
The extension faculty serves the State of Missouri by providing veterinarians and producers with up-to-date information on the practice of veterinary medicine as it relates to production agriculture.

**EXTENSION FACULTY**

- Corinne Bromfield
  DVM
  Assistant Extension Professor (Swine)

- Scott Poock
  DVM, DABVP
  Associate Extension Professor (Dairy)

- Craig Payne
  DVM, MS
  Associate Extension Professor (Beef)

- Julie Baldriighi
  DVM, PhD, DACT
  Associate Teaching Professor of Theriogenology

- Alex Bukoski*
  PhD, DVM, DACVAA
  Associate Professor

- John Dodam
  DVM, MS, PhD
  DACVAA
  Professor and Department Chair

- Felipe Martins
  DVM, MS
  Clinical Instructor

**ANESTHESIOLOGY FACULTY**

- Alex Bukoski*
  PhD, DVM, DACVAA
  Associate Professor

- Emily Thompson
  RVT

- Laken Schwarzlose
  RVT

- Lindsay Parker
  BS, DVM

- Jamie Brueggeman
  RVT

- Angelina Johnson
  RVT

- Natalie Litwicky
  RVT

**VETERINARY TECHNICIANS**

- Elizabeth Gordon
  RVT

- Angelina Johnson
  RVT

- Natalie Litwicky
  RVT

- Laken Schwarzlose
  RVT

- Emily Thompson
  RVT

- Hallie Burrows
  RVT

**ANESTHESIOLOGY RESIDENT**

- Sia Early
  RVT

**ANESTHESIOLOGY FACULTY**

- Craig Payne
  DVM, MS
  Associate Extension Professor (Beef)

**ANESTHESIOLOGY**

From kittens to the largest draft horses, patients at the Veterinary Health Center require the services of the anesthesiology section. The sophisticated patient services provided by the other areas of the hospital require equally sophisticated anesthesiology for the highest quality in patient care.

- We anesthetize specialized cases as well as routine procedures performed as part of our local practice.
- We provide pain management and critical care for hospitalized patients.

The anesthesiology faculty welcomes both companion and large animal consultations as well as related questions from private veterinarians. The anesthesiology faculty can be reached at 573-882-7821.

**THERIOGENOLOGY**

The theriogenology service provides routine and advanced breeding services for all domestic animals.

- Synchronization
- Artificial insemination
- Pregnancy diagnosis
- Breeding soundness examinations
- Embryo transfer
- Semen collection, freezing and shipment
- Diagnostic services for reproductive disease or infertility
- Emergency service for animals in dystocia

**THERIOGENOLOGY FACULTY**

- Julia Baldriighi
  DVM
  Assistant Extension Professor of Theriogenology

- Corinne Bromfield
  DVM
  Assistant Extension Professor (Swine)

- Craig Payne
  DVM, MS
  Associate Extension Professor (Beef)
SMALL ANIMAL SPORTS MEDICINE AND REHABILITATION

The small animal sports medicine and rehabilitation service provides a broad range of performance-related and rehabilitative services to small animal patients. Using leading-edge technology to evaluate, diagnose and treat a variety of conditions, we aim to improve quality of life, mobility, and performance of our patients through evidence-based practice.

The service utilizes the most advanced techniques available including extensive imaging diagnostics; therapeutic modalities such as underwater and dry land treadmills; therapeutic ultrasound and photobiomodulation (laser); dry needle acupuncture and manual therapy; extracorporeal shock wave therapy; joint and soft tissue injection therapies; mobility aids; and therapeutic exercises. Using a multi-team approach with a variety of VHC services, our sports medicine and rehabilitation specialist provides services that include:

- Lameness evaluation, diagnostics, and non-surgical rehabilitation therapies
- Pre- and post-procedure rehabilitation for a variety of orthopedic and neurologic conditions
- Limb difference (congenital or acquired) rehabilitation
- Arthritis and chronic pain management
- Weight management and mobility support devices
- Quality of life enhancement for pets affected by chronic disease
- Therapeutic exercise programs
- Athletic/working/service dog performance evaluation and conditioning programs

SMALL ANIMAL SPORTS MEDICINE AND REHABILITATION FACULTY

Joan Coates*  
DVM, MS, DACVIM  
Professor

Ji-Hey Lim  
DVM, PhD, DACVIM  
Assistant Professor

Sissy Hong  
DVM, MVM, MS, DACVIM  
Assistant Teaching Professor

Dennis O’Brien  
DVM, MS, PhD, DACVIM  
Adjunct Professor Emeritus

NEUROLOGY AND NEUROSURGERY FACULTY

Joan Coates*  
DVM, MS, DACVIM  
Professor

Ji-Hey Lim  
DVM, PhD, DACVIM  
Assistant Professor

Sissy Hong  
DVM, MVM, MS, DACVIM  
Assistant Teaching Professor

NEUROLOGY AND NEUROSURGERY RESIDENTS

Nicole Alleva  
DVM

Elizabeth Meiman  
DVM

Alexa Stephen  
DVM

COMPARATIVE NEUROLOGY PROGRAM RESEARCH INTERN

Lisa Gibson  
DVM

VETERINARY TECHNICIAN

Joshua Berhorst  

VETERINARY ASSISTANT

Amanda Barnhart  

PHONE: 573-882-7821  |  Web site: www.vhc.missouri.edu  |  E-mail: vhcrefdvm@missouri.edu
The radiology section provides comprehensive services to the Veterinary Health Center in all types of imaging.

- Radiography
- Fluoroscopy
- Ultrasound
- Computed tomography for large and small animals
- Magnetic resonance imaging for horses and small animals
- Nuclear scintigraphy
- Positron emission tomography
- Interventional radiology procedures

The radiology section is one of fewer than five services in the country that provides comprehensive radiation therapy service for clinical patients, including external beam and implantable and injectable radiation therapy. The section has been instrumental in the initial development of at least two products: Quadramet (intravenous drug for treatment of metastatic bone cancer), and Therasphere (transarterial treatment of liver cancer), that are now approved for and commonly used in both veterinary and human medicine.

**RADIOLOGY FACULTY**

- **James Karnia**, DVM, DACVR, Assistant Teaching Professor
- **Jimmy Lattimer**, DVM, MS, DACVR, DACVR-RO, Associate Professor
- **Jodi Matheson**, DVM, DACVR, Associate Teaching Professor

**RADIOLOGY RESIDENTS**

- Gabriela Baers, DVM
- Rachel Baumgardner, DVM
- Emily Clarke, DVM
- Fern Nelson, MCVS
- McKenna Sheriff, DVM
- Shayna Streu, DVM

**SPECIALTY INTERNS**

- Tracy Parker, DVM
- Torrey Tyrrell, DVM
- Jin Yu, DVM

**RADIOLOGY TECHNOLOGISTS**

- Barb Fennel-Moll, BS, R.T. (R), RDMS
- Joni Lunceford, BS, CNMT, NMTCB (CT), PET
- Kevin Lunceford, BS, CNMT, PET
- Abbi Mann, R.T. (R), ARRRT
- Heidi Weideman, R.T. (R), ARRRT
- Ryan White, R.T. (R), ARRRT
- Erin Wiley, R.T. (R), ARRRT
- Allison Williams, BS, R.T. (R), ARRRT

**RADIOLOGY RESIDENTS**

- Variable positions with names and titles associated with education and specialization in radiology.
The cardiology service of the University of Missouri Veterinary Health Center offers evaluation of heart disease, specializing in the diagnosis and treatment of congenital and acquired heart disease in companion animal, food animal and equine species.

- Complete echocardiographic, radiographic, and electrocardiographic evaluations
- Breed certification examinations
- 24-hour ambulatory electrocardiography (Holter monitoring), event monitors, implantable loop recorders
- Blood pressure monitoring
- Pericardiocenteses
- Cardiac catheterization procedures, including diagnostic angiography, intravascular occlusion of patent ductus arteriosus and other vascular shunts, balloon valvuloplasty for pulmonic and subaortic stenosis, membrandoplasty, myocardial biopsies, and heartworm retrieval.
- Transvenous pacemaker implantation
- Cardiac-gated computed tomography
- Cutting-edge medical therapies

Complete veterinary ophthalmology diagnostic, medical and surgical services are provided for companion animal, food animal and equine species.

- Treatment for eye disorders of domestic and non-domestic species including ocular trauma, dry eye, glaucoma, inflammation of the eye (uveitis), cataracts, tumors, eyelid abnormalities and retinal diseases
- Breed certification eye examinations of purebred dogs and horses via annual diagnostic screenings for inherited or congenital eye disorders
- Special research foci at the MU College of Veterinary Medicine include corneal wound healing, therapies for corneal fibrosis, novel treatments for eyelid tumors in horses, and heritable retinal diseases in cats
The oncology service provides advanced, compassionate cancer care for animals. We coordinate and provide surgery, chemotherapy, radiation therapy and immunotherapy for animals with cancer. Clinicians and house officers strive to advance evidence-based cancer medicine among all species with an emphasis in comparative medicine research. Clinical trials may be available to help subsidize the costs of some cancer treatments. https://vhc.missouri.edu/small-animal-hospital/oncology/clinical-trials/

- Consult service for veterinarians that handles approximately 1,000 consult calls annually
- Published academic literature by VHC oncologists is available through PubMed and a great resource for finding the latest treatment and diagnostic information for your patients
- Individualized treatment plans to meet the needs of both the client and the patient
- Access to cutting-edge imaging and therapy options through clinical trials
- Positron emission tomography (PET) imaging for detecting and staging tumors
- The latest CT and MRI scanners for accurate treatment planning
- Radiopharmaceuticals for diagnosis and treatment of various cancer types — only a few veterinary hospitals worldwide offer the variety of agents available at VHC
- State-of-the-art linear accelerator for highly focused, effective radiation treatment for mast cell tumors, soft-tissue sarcomas, brain, and other tumor types
- Client support service available to assist clients with the emotional side of their pet’s disease and helping them manage the challenges of caring for a cancer patient
- Knowledgeable, compassionate and skilled oncology and radiation therapy nurses

**ONCOLOGY FACULTY**

Jeffrey Bryan*  
DVM, MS, PhD, DACVIM  
Professor, Director Scott Endowed Program in Veterinary Oncology

Lindsay Donnelly  
DVM, MS, DACVIM  
Assistant Professor Oncology

Megan Mickelson  
DVM, DACVS-SA  
ACVS Fellow, Surgical Oncology  
Assistant Professor Surgical Oncology

Tara Ehling  
DVM, DACVIM DACVR-RO  
Assistant Clinical Professor Radiation Oncology

Charles Maitz*  
DVM, PhD, DACVR-RO  
Assistant Professor Radiation Oncology

Jimmy Lattimer  
DVM, MS, DACVR DACVR-RO  
Associate Professor Radiation Oncology

**RADIATION ONCOLOGY FACULTY**

Shirley Chu  
DVM, PhD, DACVIM  
Assistant Clinical Professor Oncology

Yoshimi Iwaki  
DVM  
Clinical Instructor Oncology

Owen Skinner  
BVSc, DECVS, DACVS-SA  
MRCVS, ACVS Fellow, Surgical Oncology  
Assistant Professor Surgical Oncology

**ONCOLOGY RESIDENTS**

Caitlin Cowan  
DVM

Christine Tran Hoang  
DVM

Kaitlan Hovis  
DVM

Katherine Olson  
DVM

Kristen Sawyer  
DVM

Kaitlan Hovis  
DVM

Malissa Hoehn  
RVT

Michele Zelaya  
RVT

**RADIATION ONCOLOGY RESIDENTS**

Valerie Morales  
BVSc

Gregory Vernon  
DVM

Whitney Wyatt  
DVM

Alexandria Bourgeois  
DVM

**SURGICAL ONCOLOGY SPECIALTY INTERNS**

Allison Barbour  
DVM

Whitney Fahrendorf  
RVT

Megan Mickelson  
BVSc, DECVS, DACVS-SA  
ACVS Fellow, Surgical Oncology  
Assistant Professor Surgical Oncology

Karissa Jamboretz  
RVT

**CLINICAL TRIALS SPECIALTY INTERN**

Elizabeth Gordon  
RVT

Joni Lunceford  
CNMT NMTCB (CT), PET

Sidney Miget  
RVT

**VETERINARY TECHNICIANS**

Drailyn King  
RVT

Karissa Jamboretz  
RVT

Megan Richter  
RVT

Shirley Chu  
DVM, PhD, DACVIM  
Assistant Clinical Professor Oncology

**VETERINARY ASSISTANTS**

Michele Zelaya  
RVT

Drailyn King  
RVT

Karissa Jamboretz  
RVT

Megan Richter  
RVT
SMALL ANIMAL COMMUNITY PRACTICE

The community practice section at the MU Veterinary Health Center serves many functions for its patients and clients. As generalists (similar to family practice MDs) our veterinarians see dogs and cats for medical and surgical problems, as well as for maintenance of wellness, prevention of disease and maximizing quality of life for our patients and their owners. We have special interests in nutrition, dentistry, skin and ear infections, parasite prevention and treatment, and behavior problems.

DENTISTRY

We offer a complete range of veterinary dentistry services.

- Intra-oral digital dental radiography
- Surgical exodontics
- Endodontics, including root canal therapy and crowns
- Orthodontics
- Oral fracture repair
- Tumor removal
- Periodontics

Appointments are needed for general dentistry, consultations and oral surgery services.

DERMATOLOGY

Dermatologists are the best resource in veterinary medicine for dogs and cats with skin and ear problems that are difficult to resolve.

- The VHC has specialists in dermatology on staff in both Columbia and Wentzville. Dermatology services are also offered at the Veterinary Health Center at Kansas City one day per week.
- We provide a complete range of veterinary dermatology services including expertise in veterinary dermatohistopathology.
The MU Veterinary Health Center offers emergency services 24 hours a day, seven days a week. Due to temporary staffing shortages and a high volume of emergencies, our small animal emergency service is currently unable to provide 24-hour emergency care for all animals. At present we are prioritizing care to animals likely to suffer significant morbidity without immediate care. Equine and food animal emergency services are unchanged, offering 24-hour care.

The SAECC service sees emergency patients 24 hours per day 365 days per year; however, due to current staffing shortages we are limited to seeing only current patients from 10 p.m. to 8 a.m. Although emergency patients do not require appointments, a call in advance to alert the SAECC service will facilitate preparedness and the best possible care.

Patients receive a complete evaluation by the emergency veterinarian on duty, and the client is informed of the findings of the examination. Diagnostic and treatment plans are recommended and a complete estimate for emergency stabilization is provided to the client. Routine diagnostics, such as lab work and plain-film radiographs, can be performed at any time, and stabilization, intensive care hospitalization and 24-hour monitoring are provided as needed.

Emergency diagnostic, surgical and treatment decisions are made on a case-by-case basis and in consultation with the appropriate specialty service. Communications with the primary care veterinarian for each patient seen during evenings and weekends include a fax or e-mail sent the next day to inform the pet’s veterinarian of initial findings.
The small animal internal medicine service provides secondary and tertiary care to animals with complex disease processes. We work with your practice to form a health care team for the management of long-term medical problems. We use specialized modalities, including rhinoscopy, bronchoscopy, gastrointestinal endoscopy, videofluoroscopy, swallowing studies, and cystoscopy, to facilitate disease diagnosis and treatment. Examples of diseases that our internists evaluate and treat include:

- Respiratory disease such as chronic cough, tracheal collapse, or nasal discharge
- Gastrointestinal disease such as megaesophagus, chronic diarrhea or vomiting
- Liver disease, such as hepatic lipidosis or cirrhosis
- Urinary disease, such as urinary stones, chronic urinary infection, or kidney failure
- Endocrine disease, such as Cushing’s disease or diabetes mellitus
- Hematologic disease, such as hemolytic anemia or thrombocytopenia
- Infectious diseases, such as histoplasmosis, cytauxzoonosis, and antibiotic-resistant bacterial infections

MINIMALLY INVASIVE INTERVENTIONAL PROCEDURES

We are pleased to offer minimally invasive procedures to treat blockages, shunts, ectopic ureters, some tumors and tracheal collapse. The small animal internal medicine service, cardiology, radiology, and soft tissue surgery services provide the following procedures:

- Tracheal stenting
- Urethral stenting
- Laser correction of ectopic ureter
- Subcutaneous ureteral bypass
- Feeding tube placement
- Intrahepatic portosystemic shunt occlusion
- Patent ductus arteriosus occlusion
- Chemoembolization of intrahepatic tumors
- Temporary nephrostomy drainage catheters for renal obstruction with pyelonephritis
- Nasopharyngeal stenting
- Colonic stenting
- Holmium ballooning or laser lithotripsy
- Balloon valvuloplasty and intracardiac membranoplasty
- Temporary and permanent transvenous pacemaker implantation

INTERNAL MEDICINE FACULTY

Michael Berchilin DVM
Clinical Instructor
Leah Cohn* DVM, PhD, DACVIM
Professor
Joanna Murdoch DVM
Clinical Instructor
Laura Nafe DVM, MS, DACVIM
Assistant Teaching Professor
Carol Reiner DVM, PhD, DACVIM
Professor
Aida Vientos-Plotts DVM, PhD, DACVIM
Assistant Professor

INTERNAL MEDICINE SPECIALTY INTERN

Elizabeth Martin DVM
Haley Batt, DVM
Coroline Billings DVM
Nottrine Cheuk DVM

INTERNAL MEDICINE RESIDENTS

Ashley Anderson DVM
Charlotte Gerhard DVM
Jennifer Howard DVM
Iliaña Navarro DVM
Julie Remaks DVM
Kate Strait DVM
Anna Winner DVM

VETERINARY ASSISTANT

Matt Height RVT
Natalie Eaton
SMALL ANIMAL SURGERY

The small animal surgery service comprises four divisions: orthopedics, soft tissue surgery, surgical oncology and the Motion Analysis Laboratory.

ORTHOPEDIC SURGERY
A full array of elective and emergency orthopedic procedures are offered, including total hip replacement, arthroscopy, tibial plateau leveling osteotomy, complex patellar luxation correction, limb alignment and deformity correction, fracture repair, minimally invasive techniques and the management of a wide variety of sports-related injuries. Diagnostic capabilities include radiography, MR, CT, ultrasound, kinetic/kinematic gait analysis and 3D printing.

SOFT TISSUE SURGERY
We offer emergency surgical care 365 days per year and provide advanced surgical procedures including abdominal, thoracic, reconstructive, head and neck, upper and lower airway, rectal and perianal, and wound management. Progressive, state-of-the-art surgical options are also available, such as laparoscopy and video-assisted thoracic surgery, minimally invasive urinary stone removal, cystoscopic-guided urinary tract interventions and CO2 laser surgery.

SURGICAL ONCOLOGY
Surgical oncology functions as part of an integrated oncology service with medical oncology and radiation oncology, with daily collaborative rounds to ensure that patients and their owners are provided with the treatment options that best fit them. We are able to offer surgery for a wide range of tumors, including oral cancers, thyroid carcinoma, thymoma, pulmonary carcinoma, hepatic tumors, adrenal tumors, solid intestinal tumors, selected urogenital tumors, osteosarcoma, skin and subcutaneous cancers, and anal sac adenocarcinoma.

MOTION ANALYSIS LAB
This facility is designed to aid veterinarians with the evaluation, identification, and treatment of patients with musculoskeletal and neurologic conditions. It is equipped with advanced equipment for the study of motion — including systems to evaluate weight-bearing along with multiple camera systems to study motion. With this unique laboratory, our veterinarians can provide advanced testing with cutting-edge gait analysis for companion animals with lameness and pain associated with osteoarthritis and joint disease, soft-tissue injuries, and for the monitoring of pain management and rehabilitation strategies.
Our services to assist with patient care include:

- Recommendations on therapeutic diet selection, implementation and follow-up plans.
- Custom diet formulation when an appropriate commercial therapeutic diet is not available, accepted or tolerated.
- Assisted feeding recommendations, including parenteral nutrition and indwelling tube feeding.

Initiation of consultation is requested by phone, 573-882-7821, in person, by email, mucvmnutrition@missouri.edu, or by fax, 573-882-7784. A consultation request form can be downloaded from the VHC website. A fee is charged once it is agreed that our services would be useful in management of a case. Our fees vary with the amount of time required for evaluation and formulation of recommendations. Because we are consultants, we must provide services to owners through a primary care veterinarian who has a client-veterinarian relationship and has evaluated the pet to be managed.

Pertinent medical records should be submitted with consultation request forms. Agreed upon fees are to be paid by a referring veterinarian, who typically in turn requests payment from owners.

The college’s shelter medicine program provides educational benefits to students while helping residents and animals in local communities. The services provided by faculty and students have a direct and positive effect on under-resourced humane societies. The college’s participation helps them reach their goals of controlling the population of unwanted animals while maximizing the adoptability of animals in their care.

The college rents a space close to the Central Missouri Humane Society facility, which accommodates animal holding, laboratory procedures, a surgery suite and examinations.

Services include:

- Anesthesia
- Surgery
- Physical examination
- Infectious disease management
- Behavioral assessment

RESEARCH CENTER FOR HUMAN-ANIMAL INTERACTION (RECHAI)

Founded in 2005, ReCHAI’s mission is to study and promote the health benefits of human-animal interaction (HAI) for people and companion animals.
The Veterinary Health Center at Wentzville, based in suburban St. Louis, has brought dermatology, expert diagnostic services and radiation therapy to the east side of the state. To contact the VHC at Wentzville, please call 636-332-5041.

MEDICAL ONCOLOGY, RADIATION ONCOLOGY AND IMAGING

The VHC at Wentzville offers state-of-the-art oncology services conveniently located for St. Louis metro area pet owners.

We provide advanced, compassionate, and individualized cancer care for animals. We help diagnose and stage cancers, discuss prognosis and treatment options, and guide clients as they make important decisions regarding their pet’s health care. We also offer phone consultations to referring veterinarians.

Radiation therapy can be utilized to shrink tumors and prevent their recurrence, thus improving the quality of life for our patients and their families.

If indicated, we routinely refer patients to Columbia for surgical oncology, stereotactic radiation therapy and clinical trial consultations.

Diagnostics and treatments include:

- Computed tomography (CT)
- Diagnostic x-ray
- Radiation therapy
- Chemotherapy
- Clinical trials

DERMATOLOGY

The Missouri Veterinary Dermatology Center in Wentzville is operated by CARES LLC and has added a second dermatologist to increase the number of patients we can help by diagnosing and treating allergies, bacterial and fungal infections, ear diseases, parasitic skin diseases, endocrine and metabolic skin disorders, immune-mediated skin diseases, skin tumors, nail and nail bed diseases and other dermatoses.

Services include:

- Intradermal testing to identify allergies
- Injectable and oral allergen-specific immunotherapy
- Video otoscopy for deep ear flushes, myringotomies, bulla cultures and removal of foreign bodies and polyps from the ear canal
- Use of carbon dioxide laser to remove skin growths and treat severe pododermatitis

LOCATION

1092 Wentzville Parkway, Wentzville, MO 63385
636-332-5041 vhc.missouri.edu/wentzville
email: vhcw@missouri.edu
OVERVIEW OF SERVICES

The Veterinary Health Center at Kansas City is fully staffed to receive emergencies and continued care patient transfers after hours, on weekends and holidays when referring veterinary general practices are typically closed. The VHC at KC has full diagnostic capabilities, including a digital x-ray, diagnostic ultrasound and state-of-the-art laboratory equipment. Patients admitted on emergency are triaged upon arrival and provided with lifesaving care. Hospitalized patients from referring veterinarians can be transferred for overnight or weekend continued care services, including fluid therapy, medical injections and continued monitoring.

All patients admitted to the VHC at KC receive a complete evaluation by a licensed veterinarian, and the client is informed of all examination findings. Diagnostic and treatment plans are recommended to the client and an estimate for emergency stabilization is provided. Emergency diagnostic, surgical and treatment decisions are made on a case-by-case basis. At discharge, clients receive a copy of the diagnostic tests performed and a comprehensive report with their discharge instructions. Communications with the primary care veterinarian for each patient seen include a fax or email sent following the patient’s discharge to inform the pet’s veterinarian of the initial findings. Patients may be transferred back to their regular veterinarian for continued care.

Dermatology services are also currently offered at the Veterinary Health Center at Kansas City one day per week. Please contact Dr. David Senter or Dr. Michelle LeRoy at the Veterinary Allergy and Dermatology Clinic for an appointment. 913-381-3937

LOCATION

8141 North Oak Trafficway
Kansas City, MO 64118
Phone: 816-455-5430
Fax: 816-455-5602
vhc.missouri.edu/veterinary-health-center-kansas-city/
email: MUCVMVHCKC@missouri.edu
Calls from referring veterinarians and identified as an emergency will be accepted at any time. However, during the times listed below, clinical services may not be available for consult calls from veterinarians.

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<thead>
<tr>
<th>SERVICE</th>
<th>MON-FRI</th>
<th>MON-THU</th>
<th>FRIDAY</th>
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<tr>
<td>SMALL ANIMAL</td>
<td>8-9 am</td>
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<tr>
<td>INTERNAL MEDICINE</td>
<td>1:30-3 pm</td>
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<tr>
<td>COMMUNITY PRACTICE, DENTISTRY, DERMATOLOGY</td>
<td>TUES and THURS 3-4 pm</td>
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<tr>
<td>ORTHOPEDIC SURGERY</td>
<td>8-8:30 am</td>
<td>4-5 pm</td>
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<tr>
<td>SOFT-TISSUE SURGERY</td>
<td>4-5 pm</td>
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<tr>
<td>SMALL ANIMAL EMERGENCY CRITICAL CARE</td>
<td>Always available for emergency calls and cases</td>
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<tr>
<td>NEUROLOGY</td>
<td>8-9 am</td>
<td>4-5 pm</td>
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<tr>
<td>ONCOLOGY</td>
<td>MON 8-10 am</td>
<td>TUES 8-9 am</td>
<td>WED 8-9 am</td>
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<td>THUR 8-8:30 am</td>
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<tr>
<td>OPHTHALMOLOGY</td>
<td>8-9 am</td>
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<td>CARDIOLOGY</td>
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<td>RADIOLOGY</td>
<td>8-10 am</td>
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<tr>
<td>FOOD ANIMAL MEDICINE AND SURGERY</td>
<td>8-9 am</td>
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<td>EQUINE MEDICINE</td>
<td>8-10:30 am</td>
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<tr>
<td>EQUINE SURGERY</td>
<td>8:30-9:30 am</td>
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Website
Please suggest that your clients look at our website, vhc.missouri.edu, prior to their visit to learn much more about our hospital.
WHO WILL TREAT MY CLIENT’S ANIMAL?
This is a teaching hospital where students in their final two years of veterinary education have the opportunity to learn from our care of patients. They participate in patient care, but in no instance do they determine patient care. Indeed, clinical faculty supervise all student involvement with our patients. If an animal’s illness requires hospitalization, a student who is knowledgeable about the animal will call the owner daily to update the owner on the animal’s condition.

WHAT CAN OWNERS EXPECT DURING THEIR APPOINTMENT?
We try our best to stay on schedule. Please ask clients to notify us as soon as possible if they are unable to keep an appointment. Completion of new patient forms may take a little extra time, so arriving a few minutes early for the first appointment is advisable. We will start a permanent record for each animal on their first visit. We ask the owner to complete a health history questionnaire on their animal and a registration form. Please send your client with a copy of the Patient Referral Form inserted into this guide, as well as a copy of the patient’s records and radiographs. During the first visit, we will perform a complete examination. Following that, we will discuss with the client any treatment needed for current illnesses.

WHAT CAN I TELL MY CLIENT ABOUT THE VHC FEES?
The VHC now offers a financing option to owners of animals being treated at its Columbia, Kansas City and Wentzville facilities. UAS Finance, of Kansas City, Missouri, provides financing for any approved VHC client with an estimated bill between $300 and $10,000. Owners can conveniently pre-qualify by calling the VHC at 573-882-7821 in advance of their first visit. We ask the owner to complete a health history questionnaire on their animal and a registration form. Please send your client with a copy of the Patient Referral Form inserted into this guide, as well as a copy of the patient’s records and radiographs. During the first visit, we will perform a complete examination. Following that, we will discuss with the client any treatment needed for current illnesses.

PROcedures are determined by the time spent, materials needed, severity, and complexity of the problem. If an animal is hospitalized, we will provide a written estimate and keep the client apprised of costs by daily phone calls. Cases with estimates more than $300 require a deposit of one half of the high end of the estimate. The remaining charges are due in full at discharge.
We hope to make your client’s visit to our Veterinary Health Center a pleasant experience. If your client would like to direct comments or concerns to us, they may call 573-882-7821 first, and then complete the Customer Satisfaction Survey at www.vhc.missouri.edu.

WHO NEEDS A REFERRAL APPOINTMENT?
An appointment is needed for all referral medicine and surgery cases. In order to schedule a referral appointment, please see the phone numbers in the left column of the previous page. Emergency cases do not require an appointment; however, information pertaining to the case from the referring veterinarian is helpful. It is not necessary to discuss the case with a clinician before a referral appointment; however, the care of the animal is enhanced when you send a letter summarizing previous tests and treatments (see enclosed Patient Referral Form). Referral cases are seen by either the faculty member on the service or by a senior house officer under the guidance of a senior faculty member.

HOW CAN I ACCESS MY REFERRED PATIENTS’ INFORMATION?
Visit https://vetview.cvm.missouri.edu/ to retrieve information on your referred patients.

WEBSITE
Please suggest that your clients look at our website (vhc.missouri.edu) prior to their visit to learn much more about our hospital.
THE UNIVERSITY OF MISSOURI
VETERINARY HEALTH CENTER

We Now Have Practices in Three Missouri Communities

Columbia, Missouri
Full-Service Veterinary Referral and Emergency Hospital with On-site Nationally Accredited Diagnostic Laboratory

Wentzville, Missouri (St. Louis Region)
Referral Hospital Providing Dermatology, Medical and Radiation Oncology and Imaging

Kansas City, Missouri
Emergency Veterinary Hospital