Study: Feline Kidney Disease May Need Earlier Treatment

Chronic kidney disease (CKD), also called chronic renal failure, affects 31 percent of felines older than age 15 and is the leading cause of death among pet cats. In patients with CKD, the kidneys slowly stop performing their most vital function—removing waste products from the bloodstream through the urine. This leads to uremic poisoning, which causes lethargy and fatigue, poor appetite and weight loss, and eventually euthanasia due to progression of the disease.

While owners can manage their cats’ CKD with a regimented diet and certain medications, or even opt for a renal transplantation, the disease has no cure, and not much is known about why it develops or progresses. But a research team at the UW School of Veterinary Medicine (SVM), taking cues from previous studies of CKD in humans, is working to expand understanding of the feline form of the disease and explore the possibility of a therapeutic option for cats.

“Prior research tells us that oxidative stress is associated with many diseases in humans, including CKD,” says Dr. Lauren Trepanier, professor of internal medicine at the SVM. “Oxidative stress is caused by an imbalance between the production of unstable molecules in the body called free radicals and the ability to continued on page 6
A MESSAGE FROM THE DEAN

Thank You: Your Generosity Allows Us to Excel

Welcome to the UW School of Veterinary Medicine donor issue of On Call, where we highlight the many important ways in which friends of the school enhance everything we do.

First, I want to thank each and every one of you, whether you are one of our faculty, staff, or students; an alumnus or alumna; a friend of the school; or a past or current client. It is what you do for the school with your time, input, dedication, or gifts that allows us to excel and better educate our students and reduce their debt load, enhance the clinical service we provide patients at UW Veterinary Care, or advance research that benefits both animals and humans. Many of the projects we have undertaken in the past year and pieces of major equipment that we have purchased or intend to purchase in the coming months—such as the newly remodeled entrance to the school, portions of our future solar panel remodel space, the MALDI TOF mass spectrometer, the 18-color Fortessa flow cytometer—are only attainable through the generosity of our donors. Each of these initiatives or pieces of equipment would not be possible without your contributions.

Again, on behalf of the school, thank you! Enjoy the Winter 2014-15 issue of On Call.

---

Dog Trainer Leads Charge Against Canine Cancer

As a dog breeder and agility trainer, Kathy Rudolph always looked forward to competing with her award-winning Golden Retriever, Charger, at the Hounds for the Holiday Agility Trial every December.

But her aspirations for the upcoming competition were sidelined in the summer of 2010 when Charger, seemingly healthy at seven years old, was diagnosed with a grade 2 mast cell tumor on his nose and was given less than six months to live without treatment.

“I was floored,” says Rudolph, owner of Agilgold in Burlington, Wis. “I did a quick calculation and thought Charger would be dead before the Hounds for the Holiday trial.”

Rudolph enrolled Charger in a clinical study at UW Veterinary Care, where he received two simultaneous chemotherapy treatments, shrinking the tumor by 40 percent before its removal. Defying the odds, Charger is alive for four years later and still competing in agility competitions.

“Charger has done remarkably well,” says Dr. Cecilia Robat, clinical instructor of medical oncology. “He is the only dog still alive from the initial group of dogs entered in the clinical study at UW Veterinary Care.”

Determined to help fight this awful disease, Rudolph decided to raise funds for canine cancer research at the UW School of Veterinary Medicine, and she started at her beloved Hounds for the Holiday event. She told Charger’s story to people attending the event, and they responded by helping her raise more than $700 that weekend four years ago.

---

PET TIPS

Taking good care of your horse’s teeth this winter could mean more than a beautiful smile. If his teeth aren’t properly cared for by a veterinarian, he won’t be able to grind up his food and get all the nutrients he needs to keep going strong all winter long.

You already know not to leave your pet in the car in the heat of the summer, but did you know winter can be just as deadly? In the cold weather months, your car acts like a refrigerator, stealing your pet’s body heat. So stick to the summer rules: don’t leave your pet unattended in the car.

If you rake your yard, don’t pile the dead leaves into your horse’s pasture. Eating leaves in large quantities could cause a build up in his intestine and might lead to serious problems like impaction colic.
Upgraded Facilities Enhance Clinical Service at UW Veterinary Care

UW Veterinary Care now offers its patients and clients an even better veterinary medical experience thanks to recent facilities improvements, including a major pharmacy renovation and the addition of a new and improved small animal isolation unit.

The new pharmacy boasts more space and a larger window that makes transactions easier and meets the requirements of the Americans with Disabilities Act. The renovation also includes two large, sterile “clean rooms” with specialized ventilation systems that eliminate airborne contaminants. This improvement makes for even safer medications for patients and a safer work environment for staff.

“With these changes, our facilities are ahead of many small human hospitals,” says Pharmacy Supervisor Jim Budde.

In a more secluded part of the hospital, the new small animal isolation unit provides a dedicated space for animals with contagious diseases to rest, recover, and receive treatment without putting other patients at risk. The greatly expanded space includes a pressure-sealed room with an examination table, housing that can accommodate most companion animals, and an observation window. The renovated area also includes an anteroom where veterinarians, technicians, and students can don protective clothing before attending to sick animals.

“The isolation unit has proven to be a lifesaver already,” says UW Veterinary Care Director Ruthanne Chun. “Not long ago it was used to help a small litter of shelter puppies recover from a highly contagious virus.”

Other recent facilities improvements at UW Veterinary Care include safe (leaded) glass in the small animal surgery room to protect those observing image-guided procedures from the hallway and new flooring in the Large Animal Hospital to make pathways for patients as smooth and clean as possible.

Nik Hawkins

Out for a Crawl

Sandy, an African Spurred Tortoise (the third largest species of tortoise in the world) takes a stroll as part of an evaluation with the UW Veterinary Care Special Species Service. Sandy was admitted after exhibiting unusual behavior, but she returned to her owners with a clean bill of health following a thorough physical examination, diagnostic imaging, and a day of supportive care.

In the background, fourth-year student Anna Martel-Araquet, certified veterinary technician Charisma Chadwick, and resident Grayson Doss are happy to see Sandy doing well.


Research Wishlist

To keep the University of Wisconsin School of Veterinary Medicine (SVM) on the cutting edge of research, we must keep our equipment on the cutting edge of technology. With a few improvements to the equipment in our research labs, we could enhance our ability to find new solutions to animal and human health problems.

If you would like to make a difference, a gift towards any of the following equipment needs would make a huge impact in moving our research forward.

—Dale Bjorling, Associate Dean for Research and Graduate Training

Additional giving opportunities in support of research can be found at www.vetmed.wisc.edu/research-wishlist.

Confocal Laser Microscope
$250,000
Understanding disease requires knowledge of normal and pathological function in cells. This state-of-the-art microscope will allow us to visualize normal and diseased cells throughout the body. The three-color laser system brings a clarity to images that is not possible with a standard microscope. The microscope also enables us to visualize proteins and receptors within cells and determine whether they change during disease processes. With this capacity, we will be able to advance our understanding of respiratory diseases; diseases associated with inflammation; and disorders of the nervous system, the musculoskeletal system, and the reproductive system.

Support for stipends and tuition for training graduate students and clinical residents in research
Endowment of a position would be approximately $250,000, but any amount can be combined with currently available funds to increase our ability to support graduate training.

Oxygen Exposure System
$100,000–$150,000
Our group of researchers studying respiratory neurobiology is unparalleled in the world and is making discoveries that will alter the treatment of devastating disorders of the neuromuscular system. For example, based on basic science research, they recently made a highly novel and exciting discovery that repetitive exposure to low oxygen is highly effective in improving motor function (walking and breathing) in animals and humans with spinal cord injuries. We wish to extend our basic science findings by continuing with clinical trials in canine patients with spinal injuries to parallel similar efforts in human patients (a study we are doing in collaboration with the Rehabilitation Institute of Chicago). To perform such trials in dogs with clinical spinal injury, a sophisticated system is necessary to explore the best exposure protocol. Such equipment is very difficult to secure via extramural funding, and independent fundraising is necessary to assure that these important and highly novel efforts in clinical and translational research continue.

MiSeq or NextSeq Benchtop Sequencer $125,000–$300,000
The MiSeq benchtop sequencer is a next-generation technology that integrates amplification, RNA and DNA sequencing, and data analysis. This equipment significantly improves the speed and accuracy of identifying the presence and activity of specific genes. The MiSeq sequencer has wide applications for numerous investigators who make genetic analysis a critical component of their research. Availability of this equipment would improve efficiency and accuracy of research and decrease associated costs. The range of costs associated with obtaining this equipment relates to the speed at which the genetic data are analyzed and the volume of storage required for results.

Support for clinical research
Veterinary medical patients with spontaneous disease offer an excellent opportunity to learn more about the causes and treatments of diseases in many species, including humans. Faculty and staff take extensive precautions to ensure that patients are not harmed during clinical studies, and funds are extremely limited to support this important work. Research support positions and programs can be supported by a $250,000 to $500,000 endowment, but any amount can be combined with currently available funds to advance the quality of care we can offer.

New Faculty and Staff

Lyric Bartholomay, PhD, has joined the Department of Pathobiological Sciences as an associate professor. Dr. Bartholomay earned her doctoral degree in comparative biomedical sciences and entomology from the University of Wisconsin–Madison. She continued on as an instructor and postdoctoral research associate before leaving for an assistant professor position at Iowa State University. Most recently, she served as an associate professor in the Department of Entomology at Iowa State. Her research interests are innate immune responses in the context of mosquito-borne diseases and infectious diseases of cultured shrimp.

Pat Bowdish has joined the UW School of Veterinary Medicine (SVM) as director of development. He comes to the SVM from the Milwaukee Bucks, where he most recently served as senior director of ticket sales. He will use his 11 years of experience in relationship building and new business development to support fundraising strategy and initiatives for the school and UW Veterinary Care. Pat is excited to return to UW–Madison, his alma mater, and help the school advance animal and human health.

Jayme Hoffberg, DVM, has joined the Department of Medical Sciences as a clinical instructor of emergency and critical care. Dr. Hoffberg earned her veterinary medical degree from the University of Illinois. After graduation, she completed a small animal medicine and surgery internship at the University of Minnesota. Most recently, she completed a residency in emergency and critical care medicine at Michigan State University. Her clinical and research interests are septic peritonitis, continuous renal replacement therapy (hemodialysis) for acute kidney injury, and polytrauma, specifically inflammation/immune function, coagulation, post-surgical care, and organ dysfunction in trauma.

Brian Jones, DVM, MS, has joined the Department of Surgical Sciences as a clinical instructor of radiology and diagnostic imaging. Dr. Jones earned his veterinary medical degree from the University of California, Davis and then completed a small animal rotating internship in Los Angeles, Calif. Most recently, he completed a diagnostic imaging residency and master’s program in comparative and veterinary medicine at The Ohio State University. His clinical interests include orthopedic and musculoskeletal imaging, computed tomographic angiography, and urogenital ultrasonography.

Madhan Subramanian, BVSc, PhD, has joined the Department of Comparative Biosciences as a lecturer. Dr. Subramanian earned his veterinary medical degree from Madras Veterinary College in India. He served as a research assistant at Chonnang National University in South Korea before earning a doctoral degree in cardiovascular physiology from Michigan State University. Most recently, he completed a postdoctoral fellowship at the Wayne State University School of Medicine. His teaching interests include veterinary anatomy and histology, while his research interest is studying neural control of circulation in health and disease states.

Leandro Teixeira, DVM, MS, has accepted a position as an assistant professor in the Department of Pathobiological Sciences. Dr. Teixeira earned his veterinary medical degree from São Paulo State University in Brazil where he also completed a residency and a master’s program in anatomic pathology. He completed a fellowship program in comparative ocular pathology followed by another fellowship in vision science at the UW School of Veterinary Medicine (SVM). Most recently, he served as a clinical instructor at the SVM. His clinical interests include comparative and toxicological ocular pathology.

Michael Wood, DVM, PhD, has joined the Department of Medical Sciences as an assistant professor of small animal internal medicine. Dr. Wood earned his veterinary medical degree from Tufts University. He completed a small animal medicine and surgery rotating internship and a small animal internal medicine residency before completing a doctoral degree in immunology at North Carolina State University. His research interests include the mucosal response of the urinary bladder to infection and inflammation.
The UW School of Veterinary Medicine Welcomes New Residents and Interns

RESIDENTS

Casey Budgeon, DVM
Small Animal Surgery

Elizabeth Layne, DVM
Dermatology

Noopur Desai, DVM*, MS*
Radiation Oncology

Megan Mickelson, DVM
Small Animal Surgery

Grayson Doss, DVM
Zoological Medicine

Ana Moreira, DVM*
Large Animal Internal Medicine

Russ Freeland, DVM
Large Animal Surgery

Matteo Nicastri, DVM*
Anesthesiology and Pain Management

Stephanie Goldschmidt, DVM
Dentistry and Oral Surgery

Mona Qahwash, DVM
Neurology

Melissa Graham, DVM
Anatomic Pathology

Kimberly Shaffer, DVM
Oncology

Danielle Hagen, DVM
Small Animal Internal Medicine

Lauren Smith, DVM
Radiation Oncology

Shahrzad Heidari, DVM
Radiology

Sonja Tjostheim, DVM
Cardiology

INTERNS

Specialty Interns

Katherine Robinson, DVM,
Oncology Clinical Trials

Nicola Volstad, DVM*
Dr. Muir Lab

Jennifer Whyard, DVM*
Large Animal Surgery

Mona Qahwash, DVM
Neurology

Kimberly Shaffer, DVM
Oncology

Lauren Smith, DVM
Radiation Oncology

School Earns More Grant Money Despite Scarcer Funds

The UW School of Veterinary Medicine continues to increase the amount of research support it earns through competitive grants despite a challenging funding environment.

From 2012-13 to 2013-14, the school’s grant support grew by almost 14 percent, from $18.5 million to $21 million. Grant support has increased by 54 percent since 2011-12, when the school brought in $13.6 million. This was accomplished despite a recent federal government shutdown, sequestration, and budget cuts. Learn more at www.vetmed.wisc.edu/research-grants-up-2014/.

Dinguirard Among Winners of Cool Science Image Contest

Nathalie Dinguirard, a research specialist in the Department of Pathobiological Sciences, was selected as one of the winners of UW–Madison’s 2014 Cool Science Image Contest. Her submission depicts snail hemocytes, the snail equivalent of our own white blood cells. Three fluorescent dyes were used to identify and localize the nuclei (blue), cellular skeleton fibers (red) and a specific protein of the snail (galectin, in green). The protein is known to bind against a parasitic worm that is transmitted to humans, causing the tropical disease schistosomiasis.
Would You Like to Get On Call All Year?

On Call is published three times per year. With an annual donation of any size, you will receive all the issues and ensure you stay on top of the latest innovations and activities at the UW School of Veterinary Medicine and UW Veterinary Care.

Make your gift online at vetmed.wisc.edu/giving.

PET TIPS

Your pet may put on her best “cute face” during the holiday season, but keep an eye on the scraps and treats that come her way. Holiday guests, especially kids, don’t know your pet like you do, and hazards like chocolate, fish bones, candy wrappers, or simply an overload of table scraps, can quickly upset a tiny tummy.

Any cat lover knows: cats love to cozy up to anything warm. During winter’s chill, this means outdoor cats may look for heat in dangerous places, like under the hood of your car. If there are outdoor cats in your area, bang on your hood before starting your car to give any cold kitties a warning.

After a good romp in the snow, make sure to wipe down your dog’s feet and belly before he comes back inside. Although he’ll want to lick all the snow and ice off himself, he may also be licking salt and antifreeze that could be harmful. Also remember to get de-icing salts that are chemical-free to protect your pup in case he takes a taste.

This might be the most wonderful time of the year, but holiday decorations like tinsel, lights, and candles can be dangerous for playful pets. Keep extension cords covered and out of the way, and keep an eye on your pet to make sure she doesn’t think any of your decorations are chew toys.

CKD from page 1

neutralize them or repair the damage they cause.

When free radicals accumulate, they begin attacking cells; as a side-effect of these attacks, lipid compounds called isoprostanes get kicked off of the cell membranes. F2-Isoprostanates (F2-IsoPs) in particular occur in elevated levels in urine samples from human CKD patients, and they tend to increase as the disease progresses in severity.

“Urinary isoprostanes may be a marker for progression of CKD because they’re a sign of oxidative stress in the kidney,” says Trepanier. “There’s also evidence that oxidative stress may cause the progression of the disease, and in humans this can be treated with antioxidant supplements.”

Reasoning that what is true for humans may be true for felines, the research team decided to investigate whether F2-IsoP levels in cats with CKD are elevated throughout the four stages of the disease. However, their analysis of urine samples from 27 cats in various stages of CKD and 11 healthy, older control cats yielded unexpected results. F2-IsoP levels for cats in stages two through four were significantly lower than levels in healthy cats, a trend that runs opposite to the human response.

“There could be multiple explanations for this,” says Dr. William Whitehouse, a former resident in small animal internal medicine who executed the clinical study. “One study showed that cats might have increases in antioxidant levels in later stages of CKD, so there may be a compensatory response to neutralize free radical damage. Our findings could also reflect a loss of kidney cells over time that can generate the isoprostanes.”

However, another finding grabbed their attention—a pronounced increase in F2-IsoP levels in stage one cats compared to that of healthy cats.

“This may mean that we need to consider antioxidant treatment earlier in CKD, when oxidative stress is high,” says Trepanier. “But first we need to see if these results hold true in a larger number of cats.”

Consequently, Trepanier and her team are now enrolling additional cats in early Stage 1 of CKD to confirm these findings. They hope the results will provide direction for future therapeutic trials with antioxidants in cats with CKD.

Nik Hawkins

Chronic Kidney Disease Stages

Stages are based on concentrations of creatinine in the blood; these concentrations increase as the kidneys stop working properly.

**Stage 1:**

Serum creatinine < 1.6 mg/dl, but other kidney abnormalities present (e.g., dilute urine or small kidneys). Usually no clinical signs.

**Stage 2:**

Serum creatinine 1.6–2.8 mg/dl. Usually minimal to mild clinical signs (e.g., possible weight loss, increase in thirst or urination).

**Stage 3:**

Serum creatinine 2.9–5.0 mg/dl. Usually moderate clinical signs (e.g., weight loss, excessive thirst and urination, vomiting, poor appetite).

**Stage 4:**

Serum creatinine > 5.0 mg/dl. Usually pronounced clinical signs (e.g., substantial weight loss, vomiting, depression, loss of appetite).

Source: International Renal Interest Society

Your compassion is a wonderful thing. Please share it today by making a gift to the UW School of Veterinary Medicine. Your support helps us help the animals you love.
More Content Available Online

Learn about the latest research findings and innovative procedures happening at the UW School of Veterinary Medicine at www.vetmed.wisc.edu/category/news. Or meet one of our team members, Sabrina Brounts, the only veterinarian in Wisconsin to be board-certified in equine sports medicine and rehabilitation.

Find her story at www.vetmed.wisc.edu/equine-sports-medicine-specialist.

**CHARGE from page 2**

Motivated by her success, Rudolph created a website named Charge Against Cancer and enlisted the support of other agility clubs to help raise funds through raffles, T-shirt sales, and donation collections. Today, the endowed fund, housed at the University of Wisconsin Foundation, totals more than $12,000, and Rudolph has no plans to slow down. She hopes to expand her fundraising efforts beyond the show ring to involve more dog owners, veterinary practices, businesses, and corporations.

“Every couple of months one of my friends seems to lose a dog to cancer,” says Rudolph, who lost both her parents to cancer. “We all get hit by this disease. My hope is this fund will grow into something that will help a lot of dogs well after Charger and I are gone.”

—Jane Pruhs

Charger’s name and disease were all the inspiration that Kathy Rudolph, a dog breeder and agility trainer, needed to start Charge Against Cancer, a website and fundraising mission raising more than $12,000 for cancer research at the UW School of Veterinary Medicine. More information on ways to get involved are available at www.charge-against-cancer.com.

**Imaging Wish List**

Almost all animals seen at UW Veterinary Care will require diagnostic imaging to determine the source of their discomfort, the severity of their injury, or how best to treat their disease. Our patients have a variety of different diseases—from heart disease to cancer, from dental disease to lameness—and each involves different needs for the optimal diagnostic imaging that will help us create a treatment plan and follow through on their care.

If you would like to make a difference for the animals we treat, please consider a gift toward any of the following imaging wish list items.

---

**Digital Radiography Upgrade $75,000–$375,000**

Digital radiography has been used at UW Veterinary Care for the past eight years and has improved our patient care and the ultimate efficiency of the hospital due to its short processing time and excellent image quality. With an improved mobility upgrade, digital images can be viewed by more than one person in multiple parts of the hospital and enhance our collaborations with referring veterinarians, ultimately improving patient care.

The ability to manipulate digital images has improved disease diagnoses and reduced radiation doses to our patients and personnel.

---

**Imaging Center Remodeling $3–5 million**

To better serve patients and clients, UW Veterinary Care is working on upgrading its computed tomography (CT) and magnetic resonance imaging (MRI) units. The new Imaging Center will be organized around a central control room that will support large and small animals in both the MRI and CT units. The area will be expanded to accommodate a multi-slice CT machine and a high-field MRI unit. This design will provide a coherent alternative to congested and fragmented facilities. For example, companion animals are presently escorted to an outside trailer for their MRI, which is not accessible for horses or other large animals.

---

**Gamma Camera $200,000**

A gamma camera is used to dynamically test organ function in large and small animals by detecting gamma rays that are emitted from radioactive material administered to the patient. Dynamic data can be collected from organs such as the heart, kidney, and lungs. In addition, the gamma camera is an accurate, reliable, and efficient adjunct to traditional radiography in cases of cancer detection and musculoskeletal diseases due to its improved sensitivity. Abnormalities can often be detected by the gamma camera before appearing on radiographs. The gamma camera affords additional data in non-specific clinical cases and aids in the diagnosis and treatment of many diseases. We are the only provider of this critical service in Wisconsin and Northern Illinois, but our camera has exceeded its expected use and will need to be replaced.

---

**Power injector $15,000**

The ability to inject contrast medium into the bloodstream improves our ability to detect disease, particularly when coupled with computed tomography. Power injectors consistently, reproducibly, and safely administer a dose of contrast medium to the patient with limited waste of the initial volume and precise timing. By using the injector, contrast medium is carefully controlled and concentrated to the area of interest, thereby reducing anesthesia time and cost. In some cases, the injector can permit decreases in the required dose. A power injector can ultimately improve diagnoses, treatments, and sometimes outcomes in our patients.

---

**Ultrasound Machine $200,000**

For the benefit of both small and large animals, ultrasound serves as a critical role in evaluating diseases within the abdomen, specifically the liver, spleen, kidney, lymph nodes, and gastrointestinal tract. Additionally, this non-invasive technology can perform thoracic ultrasound examinations, which provide valuable evaluation of masses in the chest.

---

**Additional giving opportunities for imaging equipment can be found at www.vetmed.wisc.edu/imaging-center/**

---

**Section Head, Diagnostic Imaging**

—Kenneth Waller, Section Head, Diagnostic Imaging
Hospital Wish List
At the UW Veterinary Care, we’re always looking for ways to improve. We strive to better serve our clients and their pets and to offer a learning environment for our students that goes above and beyond. Unfortunately, the hospital’s income cannot always stretch to cover all of these improvements. If you would like to help us work toward our vision, please consider contributing to the following equipment and service needs. UW Veterinary Care will match funds for the items listed below.

—Ruthanne Chun, Associate Dean for Clinical Affairs

Additional giving opportunities with matching funds can be found at www.vetmed.wisc.edu/uwvc-wishlist/.

Pulse Oximeters $1,000–$1,500
These small, portable devices are of critical importance in the hospital for when a patient’s oxygenation is unstable. The pulse oximeters help determine when supplemental oxygen is needed. This essential equipment is utilized around-the-clock and requires ongoing replacement.

ECG Monitor (Cardiology) $10,000
With this equipment staff are able to conduct electrocardiograms (ECG), tests that look for electrical activity problems in the heart. It is used daily for identification of life-threatening and non-life-threatening arrhythmias in clinical patients.

Fluid and Syringe Pumps $1,000–$1,500
These essential pumps deliver intravenous fluids to large and small animal patients requiring fluid therapy. The syringe pumps, used for exotic species and small animals, deliver fluids using a “slow push” of intravenous medications to animals who need continuous infusions.

Orthopedic Bone Saw (Surgery) $30,000
The small animal surgery department needs to replace its 30-year-old oscillating bone saw. A donation of this essential operating room instrument would purchase the saw and essential attachments, offering rapid, precise control for veterinary surgeons in the operating room.

Waiting and Examination Rooms Remodel $10,000–$25,000
Due to the increased demand for services at UW Veterinary Care, the hospital needs to remodel several existing conference rooms into examination rooms and a quiet waiting area benefitting all services. The project will help better serve new and existing patients. Additionally, a $25,000 donation would remodel the ophthalmology examination room. The enhanced room will include upgraded counter tops, cabinets, and examination tables; improved lighting; more comfortable seating; and new computers that allow digital radiograph review with clients. Naming opportunities are available for all of the rooms.

Donations Make the Difference
The UW School of Veterinary Medicine and UW Veterinary Care continue to accomplish great things. In addition to providing pet owners with expert animal care, we are teaching tomorrow’s veterinarians to excel in private practice, global health, industry, and academics throughout Wisconsin and beyond. Furthermore, we are widely recognized for the quality and strength of our research programs. As a result, the UW School of Veterinary Medicine continues to advance both animal and human health. None of these accomplishments, however, would be possible without the generous support of friends like you.

To learn more about making a difference, please visit www.vetmed.wisc.edu/giving/.
For further information, feel free to contact the Office for Advancement at 608-265-9692.

A Wish Come True

Alberta James stumbled upon a copy of On Call last January when she was perusing the magazine selection in the UW Veterinary Care waiting room. She had some free time to read while her German Shepherd, Silly, was undergoing tests for a leg injury.

James glanced over the UW School of Veterinary Medicine’s annual wish list, a catalog of items most needed in the hospital, imaging center, and research facilities. A request for a pulse oximeter, a $1,500 non-invasive device that monitors patients’ blood oxygen saturation levels, caught her eye, prompting her to ask for more information.

A certified veterinary technician gave her a brief demonstration in the waiting room. With a better understanding of how the equipment worked, James felt it was a worthy investment.

“A pulse oximeter is used throughout the hospital on sedated or anesthetized patients,” says Ruthanne Chun, director of UW Veterinary Care. “Because these items are so heavily used, three to five new units are purchased every year as older units break down or wear out.”

That demand is one of the reasons James decided to donate funds for the wish list item.

“I picked out something I could afford and something the hospital could use,” said James. “Every little bit counts. It all helps the animals.”

If you are interested in gifting a pulse oximeter to the hospital or contributing towards another wish list item for the hospital, imaging center, or research facilities, please contact Pat Bowdish at 608-890-1515 or pat.bowdish@supportuw.org.

Jane Pruhs
First-time dog owners Kim Knopp and Jason Guttenberg had little idea of the medical odyssey they would embark on when they purchased their buff Cocker Spaniel, Lilly, in 2005.

Lilly was just seven months old when she first came to UW Veterinary Care (UWVC) with elevated pressure and inflammation inside her left eye. Her first treatment was just the beginning of a decade-long relationship with the UWVC Ophthalmology Service.

Throughout the years, Lilly has benefitted from an array of ophthalmology treatments, ranging from cataract surgery with artificial lens placement to cyclophotocoagulation—a laser procedure that attempts to kill fluid-producing cells inside the eye to return eye pressure to more normal values.

“Lilly’s treatments are an example of everything the UWVC Ophthalmology Service can offer,” says Dr. Paul Miller, clinical professor of comparative ophthalmology. “Lilly’s owners pushed for state-of-the-art treatment, and because of her very proactive owners, Lilly still has her vision.”

Throughout her life, Lilly has battled cataracts and glaucoma, a condition where pressure builds up inside the eye and damages the optic nerve, which transmits images to the brain. Breeds like Cocker Spaniels can be prone to glaucoma, and without treatment, permanent blindness can occur.

Unfortunately for Lilly, this is exactly what happened to her left eye in 2007 when medication failed to control painful eye pressure build-up. UWVC veterinarians removed the eye through evisceration, a procedure where the eye’s contents are removed but the outer tissues and muscles remain, permitting her eyelids to blink and move normally. This allows for a more normal appearing cosmetic eye when the intrasceral silicone prosthesis is inserted.

Medication provided Lilly with many healthy years, but five years later, her right eye suffered a series of glaucoma attacks where pressure spiked and caused temporary blindness.

“She had a pressure of over 70 where normal pressure is less than 20,” says Miller. “Typically, dogs with this form of glaucoma are blind in the other eye within eight months without preventative therapy. But with good care by her owners, Lilly beat this.”

Ultimately, to combat her disease, Lilly underwent glaucoma surgery in 2012 and received a gonioimplant, an artificial tube placed into the interior eye chamber to drain fluid. To date, Lilly maintains good vision and pressure.

“We joke that Lilly is the bionic dog,” states Miller. “For a dog like Lilly to be able to see a decade later is unusual but heartwarming.”

“We feel very blessed to have Lilly healthy,” says Knopp. “Throughout Lilly’s treatments, it was clear that the UW Veterinary Care veterinarians had a stake in helping Lilly and became very connected to her.”

Jane Pruhs

Learn how a long-time donor has helped the Ophthalmology Service provide the best eye care for animals at go.wisc.edu/2j8858.
Veterinary Clinic Sponsorships
Benefit the School

Every year, the UW School of Veterinary Medicine receives tremendous support from veterinary clinics that donate to the Companion Animal Fund Sponsor program in the name of a client’s pet who has passed away. We are thankful to be able to help during a pet owner’s time of grief, even just by being a part of that sense of connection generated when a pet owner learns that their veterinarian made a donation in the name of their pet. But we feel even more grateful that we are able to put these gifts to good use to benefit animal care.

Thank you to the following veterinary clinics for their generous participation in this program between July 1, 2013 and June 30, 2014.

$500,000-999,999
Dr. William & Winifred O’Rourke Fam Char Trust
Morrie Waud
Robert F. and Debra Cervenka
Evelyn K. Fryer

$25,000-99,999
AgSource Cooperative Services
Jean-Pierre and Nancy Boespflug
Consolidated Sterilizer Systems
King Abdulaziz City For Science & Technology
Kathleen R. Losurdo
Gayle G. Rosemann and Paul E. McElwee
Christine F. Meyer
VCA Antech Inc
Zinpro Corporation

$10,000-24,999
David Anderson
Shawn M. Cavanaugh
ClearView Veterinary Solutions LLC
Timothy J. and Anne M. Connor
Elizabeth Elser Doolittle Charitable Trust
Thomas R. and Deborah B. Errath
Richard C. and Annette R. Evans
Robert F. and Suzanne S. Geller
Melita F. Grunow
William J. Macek
Esther M. Olson
Thomas H. Roddis
SCAVMA
Terry K. and Sandra K. Shockley
SMS Foundation Inc
Timothy J. and Nancy L. Speaker
Margery H. Uihlein
Judith P. Vinson
Zoetis

$5,000-9,999
John P. and H. Margo Edl
Robert B. and Mary R. Fick
Grand Chapter OES of Wisconsin
Jack R. and Darryl J. Luebeck

Midwest Veterinary Supply Inc
Bruce and Rebecca J. Milne
Susan J. Cellmer and Jeffrey C. Neal
Nestle Purina Petcare Co
Professional Dairy Producers of Wisconsin
Provenzano Family Foundation
Richard K. and Bonita L. Riederer
Andrew J. Rolfe
Suzanne M. Strachota
The Saskatoon Colostrum Co Ltd
Lois M. Vankerkhoven
WI Veterinary Medical Assn
Jeffrey D. and Sara R. Wiesner

We’re Grateful for Donations Made Between July 1, 2013 and June 30, 2014

In this issue of *On Call*, we would like to thank our individual and corporate donors by listing those who made gifts of $100 or more between July 1, 2013 and June 30, 2014. Cumulative donors, alumni of the School of Veterinary Medicine and the Veterinary Sciences and Comparative Biomedical Sciences graduate programs, and veterinary medical clinics that participated in the Companion Animal Fund have been thanked separately.

We are deeply grateful to all who have contributed. Your gifts make an impact on the lives of animals and humans. Whether you have chosen to direct your donation toward studies that improve animal health, scholarships for students, facilities upgrades, or an unrestricted fund that helps us meet emerging needs, your gifts go a long way. Your generosity makes the difference and allows us to maintain the school’s reputation for excellence.

We have made every effort to ensure that this list is accurate; however, a switch to a new database this year may yield some inaccuracies. If there are errors, we apologize and encourage you to call the Office for Advancement at 608-265-9692 with any corrections.
As far as we are concerned, every aspect of our interaction with everyone at UW Veterinary Care was excellent. On a scale of 1 – 10, we give it an 11.
Special Thanks for Legacy Gifts

Estate pledges, in the form of bequests, trusts, or wills, are another way to make a positive and lasting impact on the school. The following individuals, both living and deceased, have either pledged support for the school through an estate gift or an estate gift has come to fruition in their name.

For more information on how to arrange a legacy gift to benefit the UW School of Veterinary Medicine, contact Pat Bowdish, 608-890-1515, at the UW Foundation.

Allan P. Abell
Todd R. and Joanna C. Allen
Joey E. Amberger
Jeffry Anderson
David H. and Nancy K. Aronson
Irving and Wendy L. Benveniste
Robert R. Berg
Cheryl A. Brickman
Victor R. and Norma M. Brockmiller
Jane Bunn
Jackelen A. Callahan
Lois E. Clementi
John W. Currier
Deanna S. Ding
Betty M. Dubeiner
Merle and Eunice Eggren
Robert and Kathy Emery
Harold Engles
Sheree L. Engles
Earl E. and Linda J. Flaszkurd
Beverly S. Freiberg
Jeannette I. French
Karen N. Ganser
Kathy Gehl
Floyd George
Mary E. Gerloff
Christine E. Gonia
Claire Hackmann
Patricia R. Hall
Denny and Kim Harms
June E. Harper
Arlene E. Hartman
Patricia L. Hayes
Oscar A. and Mary E. Hildebrandt
Joyce I. Hoering
Earl K. Holz
Keith L. Mausner and Judith C. Illies
Judith Jackman
Scott L. Johnson
Gary R. and Kay M. Jones
Sheryl L. Jones
Kenneth A. and Cathy L. Kerzner
Lynn A. Kniaz
Karla Kreklow
Edward M. and Lois G. Le Vine
Kent H. and Mary Z. Libby
Clara Locher
Martha M. Lound
Joyce A. Madsen
Susan K. Magee
Jacqueline Marshall
Suzanne McDonald
Christine F. Meyer
Betty J. Miller
William D. Miller

Mary A. Morse
John S. and Kristina L. Murphy
Kalen K. Nichols
Ardith Nyht
Weston R. Severson and Esther M. Olson
Thomas J. and Sharon N. Palmer
Joyce M. Paulson
Martha E. Pavcek
Mary A. Pierson
Theodore S. Plautz
Kenneth D. Powell
Jodi A. Preissner
Marcia A. Pulich
Fred E. and Marilyn G. Putz
Theresa M. Radant
Andrew L. and Janet R. Raddatz
Walter F. and Martha M. Renk
Donis J. Salsbury
Marion R. Schroeder
Marcie T. Schwengel
David D. and Gail L. Seavert
Hedwig M. Spaikert
Barbara A. Suran
Charlotte T. Turner
David R. and Gail F. Turner
Jacqueline A. Vaver
Peter S. and Trisha Y. Wagner
Margaret V. Wald
Morrie Waud
Jeffrey D. and Sara R. Wiesner
Marilyn R. Wilbur
Edwin V. and Linda S. Wise
John R. and Kelli J. Zellmer

Continued from page 11
Richard J. and Joan M. Rodrick
Edward L. Rodriguez and Michelle M. Schartner
R. T. and Susan Rooney
Roundhouse Marketing Services Inc
Thomas W. and Lorna Schini
Robert A. and Kristine A. Schriesheim
Gail L. Schroeder
Ronald D. and Carolyn D. Schultz
Nicole Schwendel
Gwendolyn W. Sharratt
Shelter from the Storm Inc
Marjorie H. Simon
Brian Stewart
Lois K. Sudnick
Paul J. and Emily Varkala
Veterinary Ophthalmology Specialty Practice
Marlene Voegeli
Charles Voegeli
William P. Wassweiler and Ann Schwenkner-Bassweiler
Gifford Werny
Linda Weiner
David R. Wenning and Gale W. Fisher
Frank C. and Lenore J. Wichlacz
Brian R. and Marianne C. Woods
Charles H. and Sandra V. Yanke
Karen M. Young

S$100-499
Joan B. Aker
Alan R. Altman
Elizabeth B. Anderson
Eric K. and Susan E. Anderson
Arthur R. Anderson
Wilmer and Marguerite G. Anderson
William and Sandra Anderson
James M. and Bonne K. Andrews
Miriam Ansfield
Kenneth M. and Linda A. Antaramian
David B. and Linda A. Arcand
Rhonda R. Arries
Julie A. Asmus
Martin E. and Lois M. Auer
Jim Aufer and Paula Murphy
Charles and Madelon Baker
David W. Bange
Brian K. and Elizabeth A. Barnes
Fred Bauer
Jeffrey J. and Jan Beardsley
Lawrence E. Behcher and Patricia D. Struck
Robert J. and Lori E. Beggs
Mary Behan
William R. and Cindy Behling
Alexander A. and Sandra M. Bell
Edward C. and Louise A. Bennett
Patricia F. Bennett
Ruth M. Benzle
Bob and Elsie P. Berget
Richard E. Berke
Bebe R. Berkoff
Jean E. Bjorrenson
Dale E. and Nanci A. Bjorling
Steven C. and Marcia S. Blaylock
Philip E. Bloedorn
Blue Gate Farm
Matt and Adele Bodden

Allan G. and Margaret R. Bogue
Robert C. and Agnes A. Borchert
Dennis L. Borski
Barbara E. Brandel
Mark E. and Cheryl A. Brickman
Brilliant K9’s
Melody C. Brown
Ruth H. Bruskiewitz
Thomas J. Buettow
Ellen M. Buggy
Steven J. and Thea R. Buholzer
Mark A. and Penelope P. Burrall
Sharon S. Bury
William and Diane M. Burzynski
Jennifer L. Buss
Bruce R. and Kathleen Buss
Craig A. Cafchis and Jayne Engelebert
Joan Z. Calder
Stewart E. and Carol P. Calkins
Susan M. Camp
Robert A. and Kim Campbell
Hannah V. Carey
Cedarburg Veterinary Clinic SC
Paul W. Cerutti
James E. and Linda L. Chadwick
Sandra N. Chaloner
Chapel Bell Choir First Congregational Church
Bruce M. Christensen
Mark A. Christensen
Linda K. Christian-Smith
Deborah A. Chvilicek
David A. and Karen B. Cigan
Genevieve C. Cih
Edward G. and Lorna Clark
Barbara A. Clarke
Ann S. Cleary
Barbara J. Cnare
Annette H. Cochrane
Robert C. Cohen
D.J. and Mindy E. Coke
Paul C. and Mary M. Colette
Michael T. and Cindy Collins
Dennis J. and Deborah Conta
Nigel B. and Lynn Cook
Carrie B. Coonace
Ruth A. Crennell
William J. Crowley
Dane County Veterinary Medical Assn
Bruce C. Davidson
Rudi and Jo A. Davis
James E. Dearing
David L. and Lynn M. Debroux
John R. and Sandra J. Decker
Edward F. and Georgia L. Dettmers
Frederick A. Dick
Joyce T. Dobbert
Ronald and Diane Doine
Judith E. Donmoyer
Mark K. Dorn and Laurie J. Grinnell
Margaret R. Draeger
Linda S. Drake
Hans Dramm and Sarah Keller
Carolee Drewick
Richard E. Dubielzig
Richard R. and Doris B. Dubielzig
Phillip and Anne Duffy
Louise R. Dumke
Mary O. Eastwood

Continued from page 10
My pets are my family and that’s how they are treated at UW Veterinary Care. The fantastic caring staff are always willing to do all they can for our furry children.

Constance F. Eberly
Patricia M. Eckert
Victor and Joyce L. Eggleston
Janet L. Ehnhart
Karen Ehnhert
Steven and Jodi Eichelberger
Marie L. Eichinger
Robert L. Elliott
Earle E. and Karen S. Ellis
Darla J. Ellison
Ervin A. and Stephanie S. Emery
David B. Enright
Gregory O. and Janice L. Erceg
Patricia A. Ernest
Jean E. Espenshade
Monia Everett
Paul G. and Lari M. Fanlund
Susan N. Fasciano
Constance Ferentz
Felix J. and Marilyn L. Fernandes
Maryan M. Fiasca
Vincece Fidanza
Jeff L. Filter
Bernice A. Fischer
Ronda L. Fish
Debra A. Fitzpatrick
Leon Flagg
Lynn Fox
Barry C. and Linda J. Fox
Fox River Valley Cat Club
Spencer L. and Julia A. Francis
Robert A. and Carol A. Fredrickson
Robert A. Friedich
Robert B. and Janine A. Gage
Kristyn J. Gamoke
Karen N. Gansar
Robert C. and Linda M. Gapko
Donna J. Garsce
Peter J. and Brenda K. Gauchel

John C. and Lynn M. Gavelek
Ernest Gdisis
Barbara B. Gehl
Kenneth C. and Mary A. Gehring
GFK US LLC
Charles W. and Sandra Giesen
Mary K. Gillham
Michael H. and Sara K. Gilman
Jon C. and Nancy Gilmore
Jean K. Gilpin
Gail C. Ginzberg
Kathy Ginther
Jerry J. and Karen L. Gipp
Ottolie Glazier
Deborah M. Golan
Thaddeus G. and Kathleen A. Golos
Jeanne-Marie Goode
William J. Googder
Richard Gottfried
Julie A. Graf
G M. and Shirley J. Gratti
La V. Gregorich
Warren and Susan Grever
Richard K. and Debra M. Griem
Warren K. and Deborah S. Griffith
Cindy Griffith
Lavonne L. Groff
David M. Gross and Cindy A. Tracta Gross
Susan E. Gruber
William C. Guelcher
Nancy Gusack
Heather Gustafson
Debra M. Haas
Faye A. Hackbart
Susan L. Halle
Peter C. Halvore
Rick and Kathleen S. Halvorson

Richard B. Hammerstrom and Marina N. Haan
Mary Hannahan
June E. Harper
Jame Harries
James D. and Barbara B. Hart
William A. and Barbara M. HartMeier
Michael J. Harvey
Beverly S. Hassel
Roger P. and Ann W. Hauck
Nicholas I. and Marit Hawkins
Kerry Hawley
Charles D. Hayes
David and Judith M. Hecker
Nancy T. Heiden
Michael D. and Juliann Heindelsman
James E. and Linda K. Heineke
Wolfgang and Virginia A. Henke
Terry E. and Gwen M. Henricksen
Eugene H. and Claire R. Herderman
Ronald M. and Susan F. Hibben
James H. and Betty J. Higby
Roy D. Hilgert
Mary Hill-Roth
Lynderth Hintz
Richard E. and Celia M. Hiteman
Carole Hoefs
Cheryl L. Hoffer
John R. Holtz
Erin Housley
Joseph E. and Kathy J. Houzner
Ann L. Howard
David A. and Magdalene T. Hoye
Daniel P. Huegel
Dolores Hurlburt
IWI Ventures LLC
Judy Jaeschke
Sharon L. James
Barry P. and Mary B. James
Jean Jamieson
Theodore S. and Patricia S. Jankowski
Robert C. and Elisabeth R. Johnson
Greta A. Johnson
Imogene P. Johnson
Scott L. Johnson
Stephen M. Johnson
Patricia M. Johnson
Timothy L. and Melanie A. Johnson
Thomas R. and Mary N. Johnson
Sharon L. Jones
Pamela A. Kandziara
Sally J. Kasik
David J. and Rita A. Kellifier
Cynthia A. Kellor
Carolyn A. Kenney-Carter
Charles M. and Susan M. Kernats
David E. and Sandra Kilman
Kathy J. Kinney
Scott B. and Kim M. Kirkpatrick
Craig and Julie A. Kissler
David Klemish and Sherry Palmer
Carl J. and Janet K. Klemm
David G. and Vickie B. Klick
Michael A. Kling and Megan M. Cullen-Kling
Robert A. and Patricia A. Kmoch
John G. Knaak and Patricia M. Windau
Arthur L. and Frances Kneller
Cheryl M. Kneubuehl

We appreciate the kindness and top shelf care my pet received at UW Veterinary Care.

Barbara J. Knutson
Richard H. and Patricia M. Kocher
Michael J. and Margaret A. Kolbe
David L. Koltz
Richard and Sharon Konkol
Carol J. Konshak
Judith L. Koppa
Ann L. Koski
Donald S. Koskinen
Matt and Heidi K. Kramer
Jeffrey A. and Natalie J. Krause
Shirley A. Kroening
Raymond R. and Barbara L. Krueger
Krusue Company Realtors
Beth M. Kubly
Ruth I. Kucher
Jean A. Kuehn
Devan Kuether and Rebecca Ludvig
Kenneth P. Kushnir and Erica R. Serlin
Pamela L. La Valiere
Mary E. Laidtke
Maldon D. Laitinen
Edward J. Lakner
Robert G. and Nanette O. Lamphere
Hunter and Laura L. Lang
Steven P. and Barbara J. Lanphere
Ann N. Lanphere
Reed A. and Joyce A. Larson
John E. and Nancy L. Larson
Ruth Leichtnam
Elizabeth J. Leonard
Carol A. Lewinson
Beverly K. Lewis
Kent H. and Mary Z. Libby
Helen L. Limberg
John Linnen
John K. Livsey and Lisa M. Zaya-Livsey
Neil J. and Lori J. Lonergan
Paul W. Luebke
Joann C. Luedke
Alicia L. Lugauer
Marian M. Fiasca

continued on next page
I couldn't have imagined leaving my pet in more capable, caring hands. The whole experience: the daily updates, the excellent care, and everything was beyond my expectations.
Your clinic and my pet’s treatment are etched into my fond memories. You can tell by my dog’s reaction when returning to UW Veterinary Care that she was always truly happy to return.

**HAPPY PATIENT**

$10,000-24,999

Terrence P. DVM ’87 and Irina Clark

$1,000-4,999

Gerald E. Bisgard PhD ’71
Linda Bunkfeldt-Popp MS ’79
Daryl D. MS ’74, PhD ’75 and Sharon G. Buss
Claire A. Cornelius DVM ’00
Barbara D. Good DVM ’94
Peter D. Hanson MS ’94, PhD ’97
Michael J. Hayman DVM ’89
Susan J. Hyland MS ’73, PhD ’78 and Rudolf Dueland
Virginia P. Kunch DVM ’97
Kathy Reilly, DVM ’90
Scott D. Ruebben DVM ’89 and Edith G. Brandt DVM ’88
Jean E. Sander DVM ’87
Linda J. Sullivan DVM ’87

$500-999

Bernard C. MS ’58 PhD ’61 and Charlene L. Easterday
Benjamin A. Fisher DVM ’05 and Kristin M. Wrycha DVM ’05
Jennifer A. DVM ’90 and Daniel W. Fleming
Joel C. DVM ’88 and Laura M. Koenig
Gayle S. Leith MS ’85, DVM ’88
Mark R. DVM ’94 and Kristin M. Nelson DVM ’96
Robert R. DVM ’90 and Julie A. Poetzl
Ellen Richardson DVM ’92
Timothy J. PhD ’07 and Tiffany Stein
Tj J. Vannieuwenhoven DVM ’89
Alvin F. Weber PhD ’99
Scott A. Wiley DVM ’92
Tami Zalewski DVM ’93

$100,499

Anton M. Allen PhD ’61
Fran S. Azeka DVM ’92
Claudia Barreto PhD ’94
Tracy A. Bartz DVM ’92
Patricia A. Bauman DVM ’87
Kristen A. Bernard MS ’92 PhD ’95
Lisa A. Borzynski DVM ’93
Diane M. Brown DVM ’89
Bruno Buratto MS ’69
Robert J. Callan PhD ’96
Joanne L. Carpentier-Kasner DVM ’90 and Jay R. Kasner
Heidi A. Chupp DVM ’99
Clarice S. De Christina DVM ’88
Carolyn M. Deegan DVM ’87
Robert J. Eckroade PhD ’72 and Carlene Eckroade
Kristin J. Ellingsen DVM ’88
Erica J. Esler DVM ’08
Megan M. Fine DVM ’09
Kristen R. Friedrichs DVM ’91
Michael Fulgione DVM ’95
Hannelore Geyer DVM ’98
Steven S. Giles PhD ’02
Cheryl A. Graybush DVM ’97
Franziska B. Grieder MS ’87, PhD ’89
Geralyn M. Grishaber DVM ’00
Rose C. Grimm DVM ’04
Melissa A. Haag DVM ’12
Michelle L. Harke DVM ’03
Olivia Harris, DVM ’98
Kathleen A. Heneghan DVM ’94
Tamara M. Holz-Jacobs DVM ’95
Amy S. Hubbard DVM ’91
Allison J. Janz DVM ’12
A N. PhD ’77 and Julia Johnson
Thomas J. MS ’73, PhD ’75 and Beverly K. Kennedy
Anne S. Kinzer DVM ’92
Anthony L. Korpes MS ’74, PhD ’77
Jennifer A. Kobilka DVM ’00

Narayana R. Kosuri PhD ’69
Douglas D. DVM ’98 and Kimberly A. Kratt DVM ’00
Donna B. Krockh DVM ’91
Rodney S. Kuenzi DVM ’87
Craig C. Lamb DVM ’96
Diane L. Larsen DVM ’90, PhD ’99
Lisa A. Lindesmith DVM ’88
Diane C. Martin DVM ’00
Kyle G. Mathews DVM ’88
Jonathan F. MS ’89, PhD ’94 and Stacy A. McNulty
Carol J. McLaughlin DVM ’92
John P. Naesser DVM ’02
Robert M. Nakamura MS ’66
Jean M. DVM ’91 and John Osen
Darlene K. Osgood DVM ’91
Laura L. DVM ’99 and Aaron Patterson
Scott T. Pertzborn DVM ’87
Jay G. DVM ’97 and Lisa J. Peters DVM ’95

James A. Polikowski DVM ’96 and Ruth-anne Chun DVM ’91
Jessica L. Powell DVM ’01
Donna J. Quandt DVM ’91
Erica M. Schon-Evans DVM ’94
Kurt K. Sladky DVM ’93
Jesse A. Sondel DVM ’03
Scott A. Spaulding DVM ’91
Robert H. Steiner DVM ’93
Jennifer R. Teigen DVM ’92
Hilary W. DVM ’02 and Patrick J. Toft
Erin E. Troy DVM ’93
Kimberly H. Vogel DVM ’94
Kenneth R. DVM ’07, MS ’07 and Shelly M. Waller
Martin O. Wayne DVM ’00
Gary W. DVM ’97 and Amy S. Wiegel
Thomas M. PhD ’64 and Ann W. Yuill
Cesario S. Zamora PhD ’73
Ann S. Zieser DVM ’90

Jon R. and Margaret R. Traver
Jeffrey J. Traver
Lauren A. Trepanier
Phyllis A. Tschumper
Michael J. Turner
David R. and Gail F. Turner
United Veterinary Service
David B. and Jeanine Urban
UW Health & Unity Health Insurance
David M. Vail
Kenneth and Patricia A. Van Till
Charles D. and Susan J. Varco
Stephen M. and Paula L. Varner
Ronald J. Vavrik and Nancy Lorenz
Allison C. Veit
Timothy and Jennifer Vellinga
Courtney Vershure
Veterinary Consulting Group LLC
John L. and Susan T. Vette
Penn R. and Katherine H. Vieau
Michael C. and Judith A. Vivion
Charles G. and Kathleen A. Vogel
Eric G. and Dawn M. Vogel
Jeffrey A. and Lisa M. Voss
Judith A. Wagner
Drew and Janice E. Walden
Donald J. and Janice M. Waldvogel
Kathleen E. Walker
David A. and Marjorie Walsh
Robert A. Washenko and Mary F. Fahey
William R. and Annette E. Wassweiler
Morris Waxler and Carolyn J. Zahn-Waxler
Frank E. and Carol B. Weber
Wendy Weiler
Marc S. and Leslie A. Weinberger
Leonard W. and Paula K. Werner
Heath Whitchez and Abby R. Bane

James C. and Jacqueline M. White
Thomas W. and Jacqueline C. White
WI-IL Agility Group
George and Helen Wilding
John P. Wilhelmsen
John L. and Donna O. Williamson
Patrick Wilz
William F. Wingren
Janet Wintersberger

Joseph M. and Debra A. Wisniewski
Wayne G. and Sue Wolman
Johnathan G. Woodward and Amber Noltnermeyer
Marilyn J. Workman
Winnie Yazbak
Timothy P. and Laureen Y. Yoshino
Sandra J. Zassenhaus
Emily J. Zazado

Mark A. Zeier
Roza Zeyda
Valerie H. Zimdars
Richard A. Zimmer
Mary L. Zimmermann
Marcia J. Zingg
William J. and Paula M. Zirbes
Arthur J. Zoellner
Betty F. Zupke
Special Thanks to Cumulative Donors

Every gift to support the UW School of Veterinary Medicine is always appreciated. The school is especially grateful to those donors who have shown a high level of support, whether they have done so through many gifts or pledges over the years or through a larger donation. Consistent support at this level provides the margin of excellence in our teaching, research, and service and also serves to show others that our cause is a worthy one.

We gratefully acknowledge the cumulative contributions that the following donors have made toward our overall excellence as well as specific endeavors from 1982 to the present, including gifts and pledges.

$1,000,000+
Robert F. and Debra Cervenka
Frank and Evelyn K. Fryer
Christine F. Meyer
Oscar Rennebohm Foundation Inc
Martha E. Paveck
Walter F. and Martha M. Renk
Barbara A. Suran
Morrie Waud
Wisconsin Alumni Research Foundation

$500,000–999,999
Irving and Wendy L. Benveniste
Dr William & Winifred O’Rourke Fam Char Trust
Margaret D. Fix
Moritz Foundation
VetCor Professional Practices

$100,000–499,999
Allan P. and Shirley M. Abell
AgSource Cooperative Services
Aquila Biopharmaceuticals Inc
James G. Berbee and Karen A. Walsh
Jean-Pierre and Nancy Boesplug
Jane Bunn
Carrington Laboratories Inc
Shawn M. Cavanaugh
Mary L. Comstock
Timothy J. and Anne M. Connor
Dean Foods Foundation
Kathryn N. Doane
Dog Jog Companion Animal Club

We couldn’t be more pleased with our experience at UW Veterinary Care! Well worth the four hour drive!
We found out our dog had an inoperable tumor and were referred to UW Veterinary Care for TomoTherapy, a laser guided emergency radiation treatment (developed at UW-Madison.) We are so grateful they have this technology for pets.
Scientists at the UW School of Veterinary Medicine (SVM) are helping to develop the next generation of wound dressings thanks to a grant from the National Institutes of Health (NIH).

Imbed Biosciences, Inc., a medical device start-up company that stems from research conducted at the University of Wisconsin–Madison, has received a $1.5 million award to further test the effectiveness of ultrathin wound dressings that contain silver nanoparticles, a study that Professor Jonathan McAnulty will lead at the SVM.

According to McAnulty, chair of the Department of Surgical Sciences and Imbed co-founder, the idea of silver as a disinfectant and healing aid goes back a long way.

“You’ve heard about people being born with silver spoons in their mouths,” he says. “Back when food could be a little suspect, wealthier people had silver utensils and plates, and they probably had some kind of antimicrobial effect.”

However, the use of microscopically small lumps of elemental silver, or nanoparticles, in wound dressings is a much newer concept, and its distinct advantages have gained it wide acceptance in the medical field. For example, although silver fights off infection by killing bacteria and fungi, it’s not an antibiotic, so the human body tends to accept it more readily. In addition, unlike most silver products, which are ionized, elemental silver carries no charge. This slows the rate at which it is released into the wound, extending the period of its effectiveness as an antimicrobial agent. Research has shown that all of these attributes help speed up wound closure.

The truly novel part of these wound dressings, however, is that they house the silver nanoparticles in a porous, polymeric nanofilm which, resembling dusky-hued cellophane, is made of a multi-layer lattice of oppositely charged polyelectrolytes.

“It’s a super-fine, ultrathin membrane, potentially less than one cell thick.” says McAnulty. “It allows the active agents, the nanoparticles, to attach on the cell surface, right where they need to be, rather than in the wound fluid. The nanoparticles in the film dissolve over time to provide sustained release of antimicrobial silver ions. The film ultimately disintegrates and exfoliates in the wound debris.”

This process has several advantages. The localization of the material allows for lower concentrations of silver, which results in less toxicity for the cells in the wound and the patient, and the dissipation of the material reduces the need for wound dressing changes, which can be painful for patients and hospital budgets alike.

The award, a competitive Small Business Innovation Research Phase II grant from the National Institute for Arthritis and Musculoskeletal and Skin Diseases, a division of the NIH, is an important milestone on the path to a marketable product. With an earlier Phase I grant, Imbed researchers demonstrated the effectiveness of the silver nanofilm dressings in speeding up wound closure and reducing infection in mice.

“The Phase II grant will support similar research on porcine wounds in order to build a body of safety and efficacy data sufficient for Federal Drug Administration (FDA) approval,” says McAnulty.

McAnulty hopes to submit results to the FDA in a year. While the product they are currently testing is designed for use in human medicine, he and others at Imbed are also looking into producing a version that can be used in veterinary medicine. They have also begun developing a second generation of nanofilm wound dressings.

“My dream is that it would become ubiquitous, even to eventually find it on a Flintstone’s Band-Aid in the supermarket,” says McAnulty. “It could be feasible to use it in that type of environment.”

Imbed Biosciences, Inc., is a collaborative effort involving several scientists with UW–Madison connections, including McAnulty; Chuck Czuprynski, professor of pathobiological sciences at the UW School of Veterinary Medicine; Nicholas Abbott, professor in the UW Department of Chemical and Biological Engineering; Ankit Angarwal, a former post-doctoral researcher in the UW Department of Chemical and Biological Engineering who now serves as the company’s president and chief executive officer; Christopher Murphy, professor of surgical sciences at the University of California School of Veterinary Medicine; and Michael Schurr, a burn and trauma surgeon at the University of Colorado-Denver School of Medicine, formerly at the UW School of Medicine and Public Health.

Nik Hawkins
Service, Compassion Make Alum America’s Favorite Vet Finalist

The call to veterinary medical service came early for Dr. Erin Troy. The Class of 1993 alumna knew before she could even clearly say the word “veterinarian” that she aspired to be one.

Her father, Joe Troy, had similar ambitions. Sadly, limited funds curtailed his veterinary medical career dreams but never his longing to nurture injured animals. As a firefighter, her father frequently brought home injured animals to their four-acre, suburban farm in the San Francisco Bay area where her family raised a variety of livestock animals.

When Troy was around eight years old, a neighborhood dog attacked their sheep, leaving some with life-threatening injuries. With no large animal veterinarians in the area, her father let her stay home from school while they treated the injured animals using her father’s first responder know-how and knowledge gained from the Farm Bureau and veterinarians at their state’s school of veterinary medicine. With their help, all the injured sheep survived.

Troy credits that experience as a pivotal point in her pursuit of veterinary medicine, a journey that led her to the UW School of Veterinary Medicine (SVM) for training and back to her native California where she eventually purchased Muller Veterinary Hospital, a Walnut Creek, Calif., practice where she worked prior to veterinary medical school.

“UW–Madison was the perfect environment for learning and provided me with the best foundation I could ask for,” says Troy. “But, as I continued to nurture my career, I became frustrated watching patients struggle and suffer as they aged. So many dogs’ pain wasn’t being recognized.”

This unaddressed need led her to pursue certifications in canine rehabilitation and veterinary pain management. In 2001 she opened The Canine Rehabilitation Center, California’s first veterinary physical rehabilitation center, in 2001.

SVM Alum Nominated President-Elect for WVMA

John Been, Class of 1988, was recently nominated as president-elect for the Wisconsin Veterinary Medical Association (WVMA), a state-wide organization that advocates for and promotes veterinary medicine while enriching animal and human health.

Been worked as a board-certified nuclear cardiology technologist and farmer before attending the UW School of Veterinary Medicine. After graduation, he joined River Valley Veterinary Clinic in Plain, Wis., where he specialized in dairy production medicine for 24 years as a partner and practitioner. Today, he works as a relief large animal veterinarian.

He has been a continuous member of the WVMA, serving in various capacities during his membership. Most recently, he represented District 6 on the Executive Board from 2007 to 2012.

Dear alumni:

This fall I had the pleasure of meeting with your alumni advisory board for their first in-person meeting. What a dedicated group who generously gave a day of their time (and traveled great distances to participate!) to promote and foster a lifelong connection between alumni and the school.

Why does this matter? First and foremost, from the moment students accept their offer of admission to the SVM, they become a part of the Wisconsin family for life. Our responsibility to students continues after graduation—through keeping the value of their degree strong, supporting opportunities to network, and connecting alumni with our faculty and staff.

Second—but not unrelated to the first—engaged and supportive alumni make the SVM better. The education we provide our students is stronger because of the alumni who speak to and mentor our students, who provide shadowing and mentoring experiences, who share with us their feedback about how we’re doing, and who refer cases to UW Veterinary Care.

Alumni are our ambassadors—letting others know about our commitment to excellence and leadership in the veterinary medical profession. And alumni who make financial contributions not only allow us to make investments in the school’s programs, but their participation also sends a message that those who know us best believe in the school and its future.

I couldn’t be more excited about the future of the school and about working with this alumni advisory board. They are dedicated to ensuring that alumni don’t just represent our success but also remain a part of our continued success. I look forward to rolling out some of their recommendations and plans. In the meantime, you can learn more by visiting www.vetmed.wisc.edu/alumni/alumni-advisory-board.

Please join me in thanking your board for supporting you and the school!

Kristi V. Thorson
Associate Dean for Advancement and Administration
This holiday season consider giving those animal lovers on your list a gift that really benefits animals.

For a suggested $10 donation per card, the UW School of Veterinary Medicine (SVM) will send a holiday greeting card to the recipient of your choice. The beautiful, full-color greeting card will include a message stating that a donation was made to the school in the recipient’s name and proceeds will benefit projects that improve animal health.

Each year, a different artist donates artwork for the SVM holiday card. This year, the school is offering two card choices, “Feline Friendly” and “Little Big Dog,” featuring art donated by Audrey Christie of Dodgeville, Wis.

Both cards make ideal, heartfelt holiday gifts for veterinarians, friends, family, people's pets, or animal lovers.

Order forms for the holiday cards can be downloaded at www.vetmed.wisc.edu/holidaycard, or contact Laura Olson in the school’s Office for Advancement at 608-890-0203.