

### Mid-Atlantic Equine Medical Center



The Mid-Atlantic Equine Medical Center located in Ringoes, New Jersey is an equine referral and ambulatory hospital striving to provide the highest-quality emergency, surgical, and medical care for horses throughout the region. Founded by Drs Peter Bousum and Dean Neely in 1986, the hospital's professional staff has grown to seven primary clinicians. Four clinicians are board-certified in the equine specialties of reproduction, surgery, and medicine, having served on the faculty of four university medical schools. They have authored several books, as well as chapters in teaching texts and manuals accepted as leading reference volumes for today's equine veterinarians.

The main facility contains a recently renovated surgical unit, a fully padded recovery stall, two treatment rooms

with examination stocks, a neonatal intensive care unit, nuclear scintigraphy unit, pharmacy, and clinical laboratory. Three barns on the property contain stalls, including individual isolation facilities and double-sized accommodations for broodmares or draft horses. The reproductive unit, located at a nearby farm, is equipped with its own laboratory and instrumentation necessary for mare and stallion examinations, cooled or frozen semen breeding, and embryo transfer plus semen evaluation and processing.

The diagnostic imaging and lameness area of Mid-Atlantic Equine is under the direction of Dr Peter Bousum. A graduate of the University of Pennsylvania, Dr Bousum traveled extensively with the US and Canadian Equestrian Teams. He has lectured on lameness and prepurchase examination techniques both locally and nationally. He is also a founding member and director of Veterinary Management Group III (VMG III).

The computer-assisted Nuclear Scanning Center features a NuQuest diagnostic system, as well as a full-sized

high-resolution Technicare Gamma Camera with Equistand support system. The system is capable of image storage, enhancement, and internet transmission. The 2003 addition of a color flow Doppler ultrasound equips Mid-Atlantic with the most advanced diagnostics for imaging limbs. Focused extracorporeal shockwave is available for horses who will benefit from the therapy. Radiographic capabilities include routine imaging of the horse's chest, head, and spine, including contrast studies of the spine and digestive system.



The Reproduction and Breeding Department is directed by Dr Dean Neely, a 1969 graduate of the University of Pennsylvania. Dr Neely completed an internship and residency at the University of California where he also earned a PhD in Comparative Pathology with an emphasis on Equine Reproduction. He is board-certified in theriogenology and has served on the faculties of numerous universities. Major academic contributions have been in defining the prostaglandin release patterns of the mare and in pioneering equine embryo transfer.



Embryo transfer and evaluation and breeding of problem barren mares are paramount at this time of the year. Many veterinarians from across the country take advantage of Dr Neely's rapid endometrial cytology, culture, and histopathology interpretations. The unit also offers semen collections and evaluations for breeding or

prepurchase requirements, as well as transported cooled and frozen semen programs. The reproductive unit is equipped with complete semen collection and evaluation equipment including a phase-contrast microscope, microphotography, and a CEROS motility analysis and sperm concentration monitor.



Elective and emergency surgeries are handled by Drs Richard Doran and Patricia Doyle, both board-certified in surgery. Dr Doran is a 1983 graduate of Cornell University College of Veterinary Medicine. He com-



pleted his internship and surgical residency at the University of Georgia. Dr Doyle graduated cum laude from the Auburn University School of Veterinary Medicine in 1990. After graduation she served as an equine intern at the University of Missouri and completed a three-year surgical residency at the Marion duPont Equine Medical Center in Leesburg, Virginia.

Complete surgery services include video-assisted arthroscopy, fracture repair, and orthopedic procedures. In addition, all forms of gastrointestinal, respiratory, ophthalmic, reconstructive wound management, and soft-tissue surgeries, including umbilical, urinary, and reproductive, are performed.

The internal medicine service is coordinated by Dr Rodney Belgrave, a 1997 graduate of the Atlantic Veteri-

nary College of Prince Edward Island, Canada. After graduation he performed an internship at Mid-Atlantic Equine Medical Center, followed by an equine internal medicine residency at Washington State University College of Veterinary Medicine. The American College of Veterinary Internal Medicine awarded Dr Belgrave Diplomate status in 2001. The internal medicine department offers a full complement of diagnostics, therapeutics, and intensive care management for neonatal and adult horses.



The neonatal unit is comprised of four stalls in a climate-controlled barn. Each stall is equipped with radiant heat beds and individual oxygen ports. The unit is staffed with a 24-hour nursing team, and is fitted with fluid pumps for controlled delivery of intravenous fluids. The unit offers indirect blood pressure monitoring, hematology and serum chemistry, blood gas, and lactate analysis. Diagnostic capabilities include video endoscopy for upper airway and gastroscopic evaluation, 2.5- to 10-MHz color flow Doppler ultrasound unit for echocardiographic, thoracic, and abdominal examinations. The medicine service also offers complete care and assessment of neurologic, cardiac, hepatic, renal, ophthalmic, and gastrointestinal disorders. The clinical laboratory complements the medical service by including complete blood cell counts, fibrinogen, blood chemistries, cytology, parasitology, and blood gas assays.

Drs Tiffany Marr and Nancy Lee round out the clinical staff as ambulatory veterinarians. Dr Marr is a 2000 graduate of the Atlantic Veterinary College of Prince Edward Island, Canada. She has a particular interest in sports medicine and reproduction. Her certification in acupuncture complements her treatment regimes. Dr Lee is a 2002 graduate of Tufts Veterinary School. She has a keen interest in sports medicine, geriatric, and preventive health care issues. Together, Drs Marr and Lee prepare client education materials and participate in numerous talks to local groups and clubs. Effective and educational communication with clients helps to ensure the best pa-

tient care. Portable radiograph, ultrasound, and endoscopy equipment, along with two new veterinary vehicles, help provide prompt and efficient client care.

The primary clinicians are complemented by four interns, Dr Valerie Babcock from Washington State University, Dr Emily Galloway from Iowa State University, Dr Amanda Rizner from Ohio State University, and Dr Maria Wright from University of California-Davis. A support staff of 20 dedicated individuals assists to provide 24-hour care for hospitalized patients and emergencies.

Paramount at Mid-Atlantic Equine Medical Center is an open line of communication between referring veterinarians, owners, managers, and trainers. The rapid dissemination of this information is facilitated by an extensive in-house computer system accessed by 22 work stations throughout the hospital. The system offers complete case management, treatment, and patient records in addition to diagnostic networking including laboratory, radiology, scintigraphy, endoscopy, ultrasonography, and intraoperative and postmortem images. The hospital has a separate room for image viewing providing an optimal environment for private client consultation. The computer system also provides invoicing at each treatment area and complete profit center accounting.



Mid-Atlantic Equine Medical Center provides year-round externship possibilities to veterinary students from around the world. Please view the listing with AAEP Avenues to learn more about externship and internship positions, or e-mail directly to [mail@midatlanticequine.com](mailto:mail@midatlanticequine.com). To learn more about Mid-Atlantic Equine Medical Center, please visit [www.midatlanticequine.com](http://www.midatlanticequine.com). Mid-Atlantic Equine Medical Center is located at 40 Frontage Road, PO Box 188, Ringoes, NJ 08551; phone: 609-397-0078; FAX: 609-397-0661.