

Vince Mendenhall

Vince Mendenhall, DVM, PhD provides clients with effective technical strategies to bring a concept to market. He facilitates completing the regulatory requirements for preclinical testing of new medical devices and materials in a timely manner. Using state of the art surgical techniques derived from years of experience, Dr. Mendenhall recommends the appropriate study design and animal model. He evaluates results from gross and histopathological assessments, and through appropriate types of in vivo and ex vivo imaging aids (CT, PET/CT, MRI) if required. Dr. Mendenhall also participates in FDA pre-IDE and/or PMMA panel meetings.

Resume

Dr. Vince Mendenhall has 40 years of experience in the preclinical surgical research field. He is known worldwide for his innovative surgical techniques in all surgical specialties and in multiple species. He has particular scientific expertise in biomaterials and implants, especially interactions between implantable materials and living tissues. He has published and presented extensively on the impact of surgical technique in this area.

Dr. Mendenhall strongly believes in the importance of appropriate animal model selection, environment and aseptic and atraumatic technique. The occurrence of false negatives, and even false positives, can be minimized in the preclinical evaluation of new medical devices. This impacts not only the device design, but also the materials of which it is made.

Vince Mendenhall received his Doctor of Veterinary Medicine degree at Colorado State University (CSU) in 1968 and his PhD in Experimental Surgery/Comparative Anatomy, from CSU in 1981. In 1975 he joined 3M Company where he developed their Department of Surgical Research for Medical Devices. There he worked in multiple fields of experimental surgical techniques (neuro-, ophthalmic, cardiovascular,



microvascular, orthopedic, wound healing, and abdominal surgery) with all species of laboratory animals. He completed more than 500 research projects in his 17 years at 3M and is co-holder of patents on Tegaderm®, the Microvascular Anastomotic Device™, the Ligament Augmentation Device®, DuraPrep™, silicone malleable retractors, and a biconvex, reverse haptic, hydrogel intraocular lens.

After 3M, he continued his research at Charles River's Preclinical Services in Massachusetts, developing new surgical models for medical devices, toxicology, safety sciences, pharmacology, pharmacokinetics and experimental medicine. In August 2008, Dr. Mendenhall joined the Piedmont Triad Research Park as Director of Preclinical Surgical Services (PSS), where he now practices.

Vince Mendenhall was an active participant in the development of the FDA-issued Guidance Document for the Preparation of Investigational Device Exemptions and Premarket Approval Applications for Intra-articular Prosthetic Knee Ligament Devices, published in 1987. To date, he has presented his research at 156 national and international peer reviewed meetings and published 11 book chapters and 21 referred publications. He has received many awards from organizations including the Academy of Surgical Research, the Society for Biomaterials, the European Intraocular Implantlens Commission, The European Society of Arthroscopy and Knee Surgery, and various AALAS chapters. For more information about Vince Mendenhall's experience and services, please email consultants@paladinmedical.com.