Joint Press Release for Immediate Distribution

Sawbones® and Numalogics Announce Launch of ENDPOINT™ - an Innovative Platform to Test Orthopedic Implants Using Automated Simulation Applications

Seattle, Washington - Montreal, Canada, January 29, 2024, Pacific Research Laboratories, Inc., the parent company of Sawbones® and Numalogics Inc., are pleased to announce the launch of a web application that allows orthopedic implant manufacturers to test devices on industry standard Sawbones® bone surrogate (polyurethane foam), completely in a virtual environment. With the new web application, named "ENDPOINT™", engineers can now easily test orthopedic screw designs using the latest computational modeling and simulation techniques and obtain results within days. With this new testing method, device prototyping can be reduced, or even eliminated, saving company time and money.

Using the Sawbones® website, customers can select the type of mechanical screw test to be performed, and, using a secure method, screw design drawings are uploaded into the cloud. An automated application then performs the simulation of the selected test, and results are provided back to the customer within 2 days*. Data security and confidentiality are maintained throughout the process.

Amy Posch, M.S. Design Engineer-Biomechanical at Sawbones®, says: "We are happy to offer a CM&S tool that demonstrates a high level of credibility for axial screw insertion and pullout testing. Transparency in the models' performance was important to convey and we are impressed with its verification and validation work. We look forward to expanding the biomechanical material suite available within this platform."

Sawbones® and Numalogics have worked collectively to develop robust virtual models of Sawbones® polyurethane foam, the industry standard bone surrogate material for orthopedic implant testing, and to validate the existing virtual screw tests.

ENDPOINT™ is now available at sawbones.com. White papers detailing the validation results may be seen at https://www.sawbones.com/endpoint-virtual-orthopedic-mechanical-implant-tests-fea.

*some conditions apply

About Sawbones®

In addition to supplying the world's best medical procedure simulation models, Sawbones® offers a complete range of composite bones and test materials for orthopaedic experimental and computer simulated biomechanics. Designed to simulate the physical properties of human bone; these materials offer a more reliable test bed for biomechanical studies than cadaveric specimens. As an orthopaedic research community, Sawbones® has been qualifying and using biomechanical test materials for over 30 years with their use becoming more prevalent in scientific journals. Sawbones® are an active member of ASTM and ISO subcommittees for medical devices and implants for surgery.

About Numalogics Inc.

Numalogics specializes in computer modeling and simulation for the medical device, sports equipment, and military industries. In addition to providing consulting services that can help solve product development and innovation challenges, Numalogics is carving a path to develop easy-to-use software applications that would allow product innovators to perform simulation testing, without requiring the dedicated skill and experience in computer simulation. To ensure models are verified and validated, Numalogics is an active contributor to the ASME V&V 40 Committee.