

For Immediate Release

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## **Harvard Study Favors Cayenne Medical's AperFix Technology for Reconstruction of Torn ACL**

*“Single-Tunnel, Double-Bundle” Technique  
Shown to More Closely Resemble Intact ACL than “Single-Bundle” Technique*

**BOSTON, MA – March 18, 2009** – Cayenne Medical, Inc., a privately held sports medicine company based in Scottsdale, announced today that a new Harvard clinical study published in the American Journal of Sports Medicine (AJSM) found that Cayenne's AperFix® System and “Single Tunnel, Double Bundle™” ACL reconstruction technique better resembles the natural, intact ACL when compared to the more common, “Single-Bundle” technique.

The study, titled “Biomechanical Comparison of Single-Tunnel, Double-Bundle and Single-Bundle Anterior Cruciate Ligament Reconstructions,” appears in the current issue of AJSM and was authored by Hemanth R. Gadikota, MS, Jong Keun Seon, MD, Michal Kozanek, MD, Luke S. Oh, MD, Thomas J. Gill, MD, and Guoan Li, PhD, all from the Department of Orthopaedic Surgery at Massachusetts General Hospital and Harvard Medical School; and Kenneth D. Montgomery, MD, of Tri-County Orthopaedic & Sports Medicine in Morristown, New Jersey.

In the study, eight fresh-frozen human cadaveric knee specimens were tested at Harvard using a robotic testing system to investigate the response of the knee joint under various stresses and conditions. Each knee was tested sequentially under four conditions, including: (1) intact ACL; (2) ACL ligament deficient; (3) single-bundle ACL reconstruction using the EndoButton CL (Smith & Nephew Endoscopy, Andover, MA) femoral fixation device, metallic interference screw (Arthrex, Naples, Florida) tibial fixation device and quadrupled hamstring tendons; and (4) Single-Tunnel, Double-Bundle ACL reconstruction using the AperFix System fixation devices and quadrupled hamstring tendons.

Of the conditions tested, the Cayenne Single-Tunnel, Double-Bundle ACL reconstruction proved to most resemble the natural, intact ACL and showed significantly superior kinematic results compared to the single-bundle reconstruction. These results are an accomplishment of the AperFix technology, which provides surgeons with aperture fixation, superior pullout strength and active, circumferential tendon compression.

“This study suggests that the Single-Tunnel, Double-Bundle ACL reconstruction may provide many of the advantages of improved stability that the Double Bundle ACL reconstruction offers,” said Dr. Montgomery, one of the study's authors. “Because of its simplicity and preservation of bone stock, it will provide these improvements without the

increased surgical time and complications associated with the traditional Double-Bundle ACL reconstruction.”

“Cayenne was started to create the new standard of care for ACL fixation,” said James W. Hart, President and CEO of Cayenne Medical. “These positive results for AperFix and our Single-Tunnel, Double-Bundle technique clearly support a great step forward towards that goal.”

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*About Cayenne Medical, Inc.:*

Based in Scottsdale, Arizona, Cayenne Medical is a privately held medical device company defining new technology for the soft tissue reconstruction segment of the sports medicine market. The company was founded in 2005 and is focused on leading the transformation of traditional ACL repair procedures by applying advanced technology through minimally invasive techniques. For more information, go to [www.cayennemedical.com](http://www.cayennemedical.com)