Researchers at the University of South Florida have developed a reversible anchoring device for the fixation of a graft tendon in an anterior cruciate ligament (ACL) reconstruction procedure.

In the typical ACL reconstruction via suspensory fixation, a graft tendon is pulled with sutures and the sutures are anchored in place within the bone using a swivel-lock anchoring device. Once the anchoring device is positioned, it is locked in the desired place within the bone.

While these anchoring devices are viable, they have several drawbacks such as cost, difficulty in passing the device through the bone and deploying in the desired location, loosening of the device and eventually the graft over time, and finally, the devices are permanent in that they cannot be repositioned after they have been deployed. Due to these drawbacks and the thousands of ACL surgeries performed every year, it would be desirable to have a better anchoring device for ACL reconstruction procedures.

USF inventors have created a simple, reversible anchoring device for use in ACL reconstruction surgeries that allows for unlimited excursion of the suture through the device. This differs from current devices that require a Chinese finger trap suture that has limited excursion and high complexity. The new device can be repositioned, if necessary, and locked by a cannulated system. This novel anchoring device will allow for more flexibility in performing ACL reconstruction surgery.

ADVANTAGES:
- Lower cost of surgery
- Reversible fixation
- Reduce the complexity of the surgery

Reversibly Secure A Tendon

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