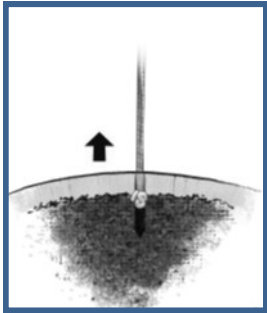




# Louisville Orthopaedic Clinic



## DR. SCOTT KUIPER DEVELOPS NEW GENERATION ROTATOR CUFF REPAIR SYSTEM WITH BIOMET SPORTS MEDICINE SHOULDER TEAM



Anchor Placement



Passing suture through tear



Completed rotator cuff repairs

Dr. Kuiper was chosen to be on the Biomet Sports Medicine Shoulder Design and Development Team to help bring new advanced technology to the market for rotator cuff and labral repairs in the shoulder.

With the advent of arthroscopic shoulder repair, orthopedic surgeons have been looking for new devices to safely and effectively repair soft tissues to bone. For years, metal and bio-absorbable implants have been successfully used, however these implants have drawbacks. Metal implants can affect future MRI scans and bio-absorbable implants can leave weakened holes in the bone after they absorb.

The Biomet 2.9 JuggerKnot™ Anchor was designed to avoid these problems. The JuggerKnot™ is an all suture device that requires a smaller drill hole, yet has the same strength as a larger threaded anchor. It is radiolucent (invisible on x-ray) and does not absorb (leave a defect in the bone).

The results using the new 2.9 JuggerKnot™ anchor system have been highly successful and will benefit not only the elite athlete but also any patient in need of a rotator cuff or labral repair.



Figure below is the 2.9 JuggerKnot™ Anchor

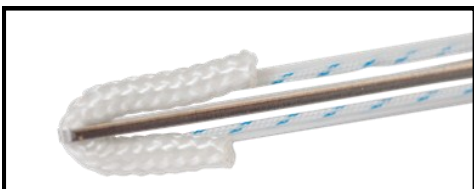
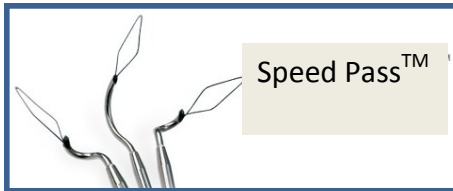


Figure above at right shows Arthroscopic Shoulder Surgery

Dr. Kuiper has been working hard to help develop a new system for arthroscopic shoulder repair with Biomet Sports Medicine. "The previous systems developed by other companies did not have the flexibility or reliability for the complex rotator cuff and labral repairs being done at Louisville Orthopedic Clinic," Kuiper said. These issues were discussed with the Biomet Sports medicine engineers so that a new system could be developed to address the shortcomings of the old devices.

We first improved the ByPass™ device, a suture passer used to pass free suture across tendon. A Speed Pass™ device was developed to repair tendon to tendon (side to side repairs).



Next, The PEEK Optima™ anchor was created to complement the ALLThread™ family of suture anchors. PEEK is a high-density medical grade plastic that gives the surgeon an additional choice of material for anchor construction. PEEK is invisible to X-ray and does not absorb. Rather, it retains its strength in bone.

PEEK Optima™



The final phase of development has been the creation of the all suture 2.9 Juggernaut™ anchor (see page one). Biomet Sports Medicine also invented a Knotless PEEK device for double row rotator cuff repairs giving surgeons even more options for performing the optimal repair for their patients.

### Shoulder Anatomy

