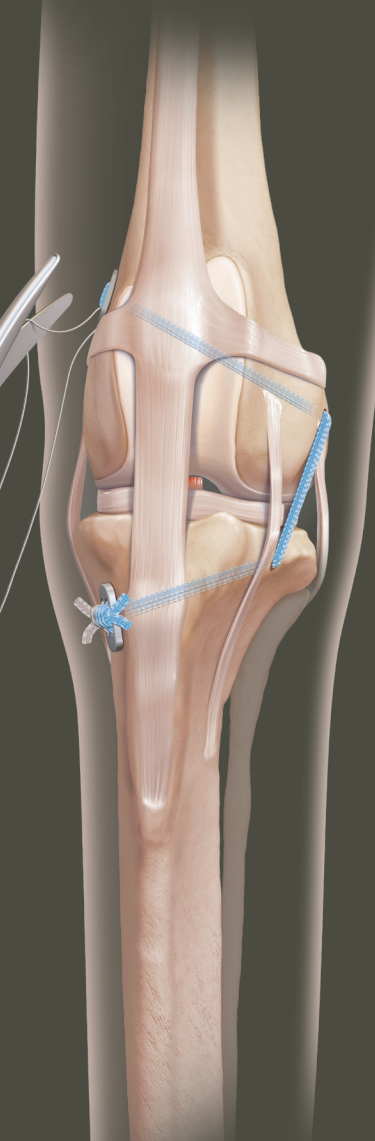


TightRope[®] CCL Fixation System

Multicenter Clinical Outcomes Study

Cases Reported: **2,563 cases**
 Duration: **3 months to > 5 years**
 Weight Range: **2 – 93 kg**
 Centers Reporting Data: **43**



Reported Success Rate — 94.9%

64.6% — Full Function (restoration to, or maintenance of, full intended level and duration of activities and performance from pre-injury or pre-disease status without medication)

30.3% — Acceptable Function (restoration to, or maintenance of, intended activities and performance from pre-injury or pre-disease status that is limited in level or duration and/or requires medication to achieve)

Complications

0.2% — Catastrophic (resulting in permanent disability or death)

9.8% — Major (requires further treatment based on current standard of care)

5.2% — Subsequent Meniscal Tears

2.9% — Instability/Failure

1.7% — Infection

9.1% — Minor (not requiring additional surgical or medical treatment to resolve)

References:

Christopher SA, Beetem J, Cook JL. Comparison of long-term outcomes associated with three surgical techniques for treatment of cranial cruciate ligament disease in dogs. *Vet Surg.* 2013;42(3):329-334.

Cook JL, Evans R, Conzemius MG, et al. Proposed definitions and criteria for reporting time frame, outcome, and complications for clinical orthopedic studies in veterinary medicine. *Vet Surg.* 2010;39(8):905-908.

Cook JL, Luther JK, Beetem J, Karnes J, Cook CR. Clinical comparison of a novel extracapsular stabilization procedure and tibial plateau leveling osteotomy for treatment of cranial cruciate ligament deficiency in dogs. *Vet Surg.* 2010; 39(3):315-323.

Kydd D, Tipler A. Novel stabilisation technique for cruciate ligament disease. *Veterinary Times.* 2013;43:12-14.

Ritzo ME, Ritzo BA, Siddens AD, Summerlott S, Cook JL. Incidence and type of meniscal injury and associated long-term clinical outcomes in dogs treated surgically for cranial cruciate ligament disease. *Vet Surg.* 2014;43(8):952-958.

Surgeons contributing to the multicenter clinical study:

- Dr. Mark Albrecht – Gallatin Veterinary Hospital
- Dr. Jeff Baker – Crawford Animal Hospital
- Dr. Toni Barnes – Westside Veterinary Clinic
- Dr. Bert Blackburn – Buck Animal Hospital
- Dr. Lee Breshears – Animal Emergency & Specialists Center
- Dr. Cal Cadmus – Oakdale Veterinary Group
- Dr. Jimi Cook – University of Missouri
- Dr. Robert Cook – Animal Medical Center of St. Charles
- Dr. David Crouch – Western Carolina Veterinary Surgery
- Dr. Chad Devitt – Veterinary Referral Center of Colorado
- Dr. Felix Duerr – Aspen Meadows Veterinary Specialists
- Dr. Jay Erne – Affiliated Veterinary Specialists
- Dr. Mike Ferber – North Shore Animal Hospital
- Dr. Mark Freiberg – Rose Hill Animal Hospital
- Dr. J. K. Garrett – Animal Hospital of Fayetteville
- Dr. Caroline Garzotto – Willingboro Veterinary Clinic
- Dr. Mitch Gillick – Toronto Veterinary Emergency Hospital
- Dr. Charles Greco – Animal Medical Hospital
- Dr. Peter Haase – Arlington Veterinary Surgical Specialists
- Dr. Tom Hay – Veterinary Surgical Specialists
- Dr. Craig Hook – Mid Michigan Veterinary Referral Center
- Dr. Silvia Jauernig – Member of European College of Veterinary Surgeons
- Dr. Joanna Johansen – Linwood Animal Clinic
- Dr. Nick Kalafatic – Meridian Veterinary Hospital
- Dr. Garren Kelly – Byron Pet Clinic
- Dr. David Kydd – Kydd Veterinary Health Centre of London
- Dr. Tom Liebl – Clinton Parkway Animal Hospital
- Dr. Julius Liptak – Alta Vista Animal Hospital
- Dr. Dale Marker – Jackson Hwy Veterinary Clinic
- Dr. Thomas McNicholas – Affiliated Veterinary Specialists
- Dr. Sheri Morris – Willamette Valley Animal Hospital
- Dr. Paul Newman – Mobile Veterinary Surgical Services
- Dr. Frank Ogden – Bonita Springs Veterinary Hospital
- Dr. Antonio Pozzi – University of Florida
- Dr. Charles Pullen – Animal Medical and Surgical Center
- Dr. Patrick Ridge – Ridge Referrals
- Dr. Matt Rooney – Aspen Meadows Veterinary Specialists
- Dr. Jeff Schuett – Pewaukee Veterinary Services
- Dr. Abbie Tipler – Kydd Veterinary Health Centre
- Dr. Peter Veling – Caring Hands Pet Hospital
- Dr. Arathi Vinayak – Arlington Veterinary Surgery Specialists
- Dr. Ned Williams – Eastern Carolina Veterinary Referral
- Dr. Will Wright – Capitol Illini Veterinary Services



TightRope® CCL Fixation System

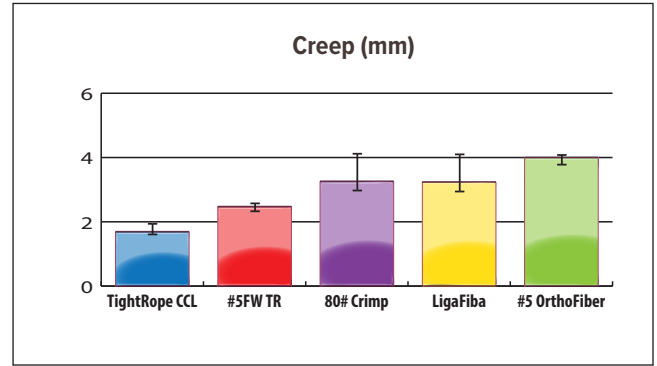
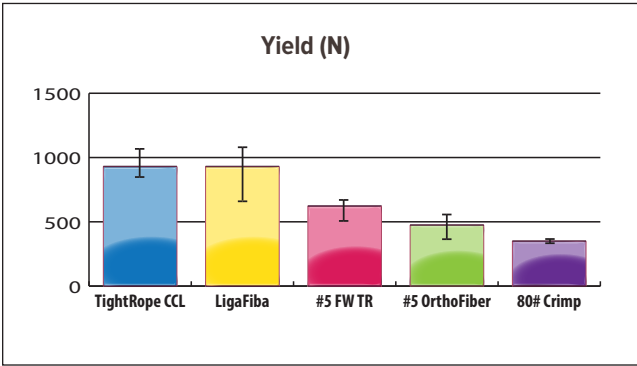
Advantages

- Bone-to-bone fixation
- Helps ensure isometric implant placement
- Allows for minimally invasive technique
- Strength and stiffness of FiberTape® sutures
- Low-profile implant with good handling
- Potential for addressing all abnormal forces

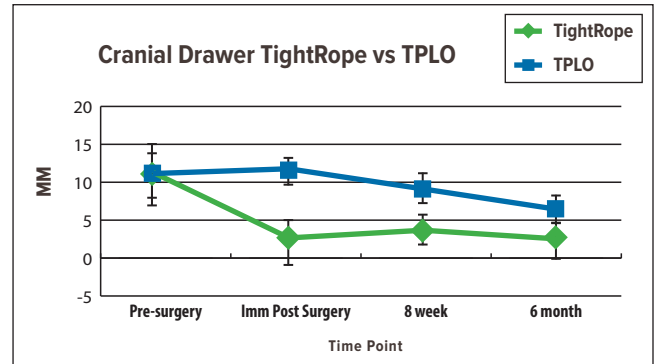
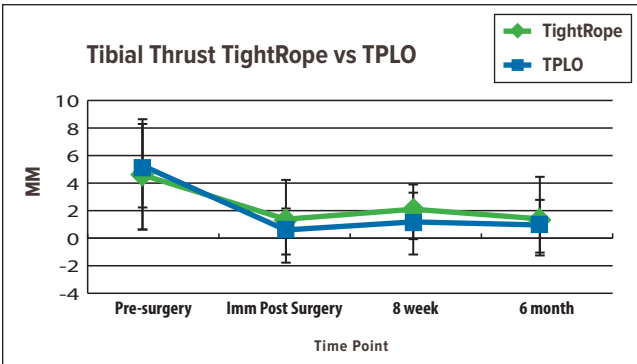
Potential Contraindications

- Tibial plateau angle > 32°
- Angular limb deformity
- Connective tissue healing abnormalities
- Condyle < 12 mm cranial to caudal
- Poor post-op compliance

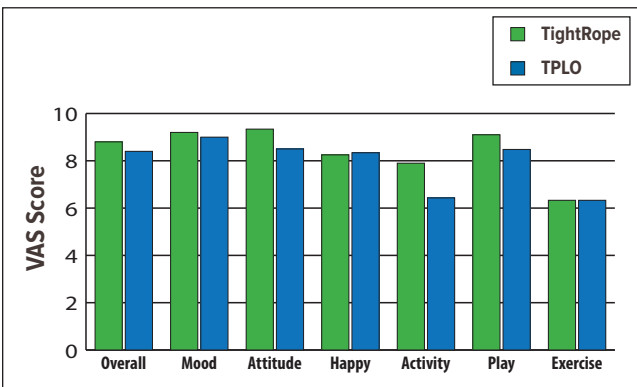
Biomechanical Testing Data¹



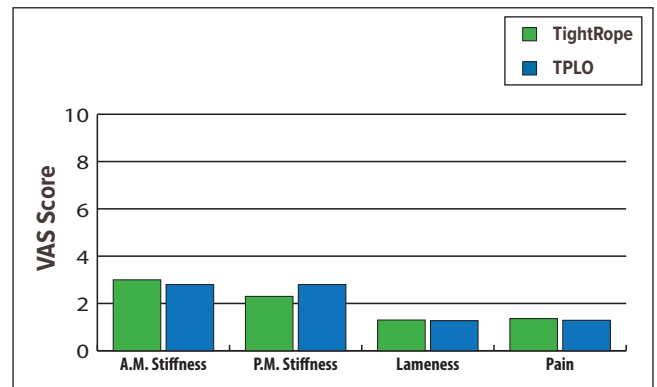
Subjectively Measure Stifle Stability for TightRope vs Tibial Plateau Leveling Osteotomy (TPLO)¹



Client-based Outcomes Assessments for TightRope vs TPLO at 6 Months After Surgery¹



Higher is better



Lower is better

Reference:

1. Cook JL, Luther JK, Beetem J, Karnes J, Cook CR. Clinical comparison of a novel extracapsular stabilization procedure and tibial plateau leveling osteotomy for treatment of cranial cruciate ligament deficiency in dogs. *Vet Surg.* 2010;39(3):315-323.