In humans with traumatic ACL injuries, operatively treated patients score better on ligamentous stability, conservatively treated patients score better on isokinetic measures.


Results supported the contention that the semitendinosus muscle is an agonist of the CrCL in the stifle joint of dogs.

Nobuo Kanno, DVM; Hirokazu Amimoto, DVM, In vitro evaluation of the relationship between the semitendinosus muscle and cranial cruciate ligament in canine cadavers AJVR, Vol 73, No. 5, May 2012

Atrophy associated with CCL deficiency may predominantly affect the quadriceps muscle. Dominance of the gastrocnemius muscle over active restraints to the cranial tibial thrust may be associated with predisposition to CCL deficiency in Labrador Retrievers.

Ayman A. Mostafa, BVSc, MVSc, PhD, Dominique J. Griffon, DMV, PhD, Diplomate ACVS & ECVS, Morphometric Characteristics of the Pelvic Limb Musculature of Labrador Retrievers with and without Cranial Cruciate Ligament Deficiency Veterinary Surgery 39 (2010) 380–389.