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Case report of application gene construction with VEGF and BMP2 in restoration of tear in the anterior cruciate ligament of a large breed dog

Zakirova E., Vasin N., Zhuravleva M., Rizvanov A.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

Here we present case report of restoration of tear in the anterior cruciate ligament of a dog (Labrador) using gene therapy. We injected plasmid DNA pBud-clVEGF-clBMP2 simultaneously expressing combination of two therapeutic canine proteins - VEGF (isoform 164) and BMP2. Effect of treatment was assessed using clinical observation and X-ray.

Keywords

Bone morphogenetic protein 2, Dog, Gene therapy, Tears in the anterior cruciate ligament, Vascular endothelial growth factor