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## Single-stage bilateral tibial tuberosity advancement with cranial fixation in an English bulldog – a case report

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### Abstract

This article presents a report of single-stage bilateral tibial tuberosity advancement for the treatment of cranial cruciate ligament rupture in an English bulldog. The reconstruction was performed by a new surgical technique involving tibial tuberosity advancement and fixation with two cranially placed lag screws. The patient was able to ambulate normally at a walk without lameness four days postoperatively. Except for bruising of the surgical site, no complications were observed during a six-month follow-up period.

Keywords: cranial cruciate ligament rupture, dog, TTA CF

### Introduction

Rupture of the cranial cruciate ligament of the stifle joint is a common cause of hind limb lameness in dogs [1,2,3]. According to Cabrera et al.[4], cranial cruciate ligament rupture is often bilateral, ranging from partial to complete. Bilateral cruciate ligament rupture has been reported to occur in up to 31% of dogs [5]. Bilateral ruptures can be stabilized in a two-stage procedure involving two separate surgeries of each knee or in a single-stage procedure where both stifle joints are operated in the same session. The main advantages of single-stage reconstruction include a single exposure to general anaesthesia and lower treatment cost. Disadvantages include higher risk of implant breakage, avulsion fractures and infection. Ruptures of the cranial cruciate ligament can be treated with various surgical techniques [6]. The surgeon selects the optimal technique based on his or her experience, training and preference. The present case report describes the outcome of stifle joint stabilization by a single-stage bilateral tibial tuberosity advancement technique with cranial fixation (TTA CF) in an English bulldog.

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