

Application of tension crimp clamp system for the treatment of ruptured cranial cruciate ligament

Yonghyun Hwang, Chibong Choi, Hwaseok Chang, Daijung Chung, Jaehoon Lee, Eunhee Kang, Wojong Yang, Daehyun Kim, Wookhun Chung, Ajin Lee, Hwiyoool Kim*

Department of Veterinary Surgery, College of Veterinary Medicine, Konkuk University, Seoul Korea.

Signalment: An American Eskimo (4-year-old intact female) and a Jin do dog (12-year-old spayed female) were referred to the Veterianry Teaching Hospital of Konkuk University for hindlimb lameness. Both of the patients showed walking with reduced weight bearing on the affected site. The American Eskimo had undergone surgical repair of bilateral medial patellar luxation three months before presentation. The two dogs were overweighted, and had sudden onset of hindlimb lameness.

Result: Both the dogs were diagnosed as rupture of cranial cruciate ligament (RCCL) based on the positive drawer signs shown on their right hindlimb. For the surgical treatment, we decided to apply climp clamp system considering the fact that they were medium-large breeds. Since there were caudal bucket-handle tears in their medial meniscus, total medial meniscus were removed. For the reconstruction of RCCL, lateral fabellar suture and the hand tightening method with the crimp tube and crimp forcep was applied using \varnothing 1mm nylon monofilament fishing line. Prognosis was excellent in both the patients, who showed normal weight bearing and almost complete resolution of hindlimb lameness around two months after operation.

Clinical Relevance: The crimp system provided simpler and securer knot than conventional hand tie. The results suggest that the crimp system is effective and convenient for the treatment of RCCL in large breeds.

Key word: RCCL, Tension Crimp, Crimp forcep

* Corresponding auther: hykim@konkuk.ac.kr