

Crown Therapy of Fractured Mandibular Canine Tooth in a Dog

Se-Eun Kim, Shin-Ae Park, Na-Young Yi, Man-Bok Jeong, Won-Tae Kim, Je-Min Chae,
Yeon-Chun Park, and Kang-Moon Seo*

College of Veterinary Medicine, Seoul National University

Introduction: A crown ("cap") is a device that replaces the function and structure of a damaged tooth and protects the portion of the tooth that remains. In veterinary dentistry, the crown therapy has been performed to restore damaged tooth, such as fracture occurs on the cusp, to prevent further damage in dogs and cats.

Materials and methods: A 10-year-old intact female Golden retriever, a guide dog, was presented for evaluation of dental calculi, periodontitis, a dental caries and a fractured tooth to the Veterinary Medicine Teaching Hospital of Seoul National University. The dental examination revealed worn teeth, dental calculi, a fractured left mandibular canine crown and a carious right mandibular first molar tooth. In the left mandibular canine, dentin layer was exposed, but pulp was not.

Scaling was performed. Root canal therapy was applied to the right mandibular first molar tooth. Stair-step reduction was applied to the left mandibular fourth premolar, and metal (Co-Cr) crown capping was installed.

Results: Five months later, this case has maintained the crown, not seemed to feel pain, and masticatory ability was improved.

Clinical relevance: It is supposed that metal crown therapy is effective restorative method for the fractured crown in large breed dogs.

*Corresponding author: kmse@snu.ac.kr