

Reconstruction of Temporomandibular Joint Ankylosis with Temporalis Myofascial Flap in a cat

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An approximately 7-year-old 1.7kg, female siamese cat with a history of a malocclusion and inability to open its mouth was referred Animal Medical Center, Chonbuk National University. The patient signs were present since was adopted 4 years ago, but the cause was not determined. The mandible was deviated 2mm to left, the mouth could be opened only 2mm and attempts to open the jaws caused considerable pain. Radiographs indicated new bone formation and loss of joint space in the right temporomandibular joint(TMJ). 3-dimensional CT showed bony fusion and thickness of bone in the right TMJ. Based on physical, 3-dimensional CT and radiographic examinations revealed right TMJ ankylosis. Under general anesthesia, surgical treatment of the removal of the ankylosis block and subsequent interpositional arthroplasty with temporalis myofascial flap. The patient showed a distinctive improvement both in articular functionality and clinical signs.

Temporalis myofascial flap in TMJ reconstruction include close proximity to the TMJ and which provides movement of the flap during function, simulating physiologic action of the disc. Temporalis myofascial flap is valuable and useful in reconstruction of TMJ ankylosis.

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