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## Bipolar injury of the clavicle

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We encountered 11 patients with bipolar clavicle injuries including dislocation of both ends of the clavicle, dislocation of the sternoclavicular joint with distal clavicle fracture, dislocation of the acromioclavicular joint with medial clavicle fracture and segmental fracture of the clavicle. The purpose of this study was to report the clinical outcomes with a literature review of bipolar clavicle injury. We retrospectively reviewed 11 patients with bipolar clavicle injuries. Non-operative treatment was performed in five patients and surgical treatment in six patients. The fracture or dislocation of the lateral end of the clavicle was fixed with AO hook plate and closed reduction of the medial end was performed. If the dislocation was still present, open reduction and anterior sternoclavicular ligament repair was performed. Visual Analog Scale (VAS) pain score, constant score, active range of motion, and radiological images were evaluated to determine the results. Mean VAS pain score was  $0.7 \pm 0.9$  (range, 0-2). Mean constant score was  $89.7 \pm 7.6$  (range, 72-96). Mean constant score of conservatively treated patients was  $84.2 \pm 8.5$  (range, 72-96) and that of surgically treated patients was  $94.3 \pm 1.9$  (range, 92-96). The mean constant score of patients in whom optimal reduction of one or both ends was not achieved was  $83.4 \pm 7.2$  (range, 72-92). Residual pain or deformity was seen in five patients. We suggest operative treatment of bipolar clavicle injuries in younger, active patients when anatomical reduction cannot be achieved and when residual deformity, pain or functional limitations are not accepted.

## Biography

Joo-Yul Bae M.D. completed his medical degree in University of Ulsan College of Medicine and was an assistant professor at University of Ulsan College of Medicine. He now works in Gangneung Asan Hospital in Department of Orthopedic Surgery has his 3 years' service in Korean Armed force Gangneung Hospital. His research interest and commitment are in the field of Orthopedic surgery.

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