

1 **11191 - Hand Enchondromas In 51 Korean Patients: Clinical Characteristics And Treatment Outcomes**  
2 **Different From Western Reports**

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8 **ABSTRACT**

9 **Background:** Enchondroma develops most commonly in the hand. However, there are a few western reports  
10 only.

11 **Purposes:** In this study we investigated clinical characteristics and treatment outcomes of hand enchondromas  
12 in Korean patients.

13 **Patients and Methods:** We retrospectively reviewed 51 patients with hand enchondromas, treated in a single  
14 institute between 2006 and 2014. Inclusion criteria were surgical treatment and pathologic confirmation;  
15 enchondromatosis syndromes were excluded from the study. Mean clinical follow-up duration was 22 months  
16 (range, 3-96).

17 **Results:** During the inclusion period, hand cases were 69% of all pathology-proven enchondromas. Mean age at  
18 presentation was 34 years in hand cases and 44 years in enchondromas of other regions. Fracture at  
19 presentation was identified only in 15.7% of hand cases, and was not identified in enchondromas of other  
20 regions. Tumor removal was performed by curettage in all cases. The defect after curettage was filled with  
21 autogenous cancellous bone graft in 80%, allogenic cancellous bone graft in 16%, and mixed autogenous and  
22 allogenic cancellous bone graft in 2%, and nothing in 2%. No patient developed tumor recurrence or fracture  
23 after surgery. Healing quality was Tordai grade 1 in 93%, and grade 3 in 7%. Time to grade 1 healing was 12  
24 weeks (range, 4-56).

25 **Conclusions:** Fracture at presentation was less common in Korean hand enchondroma patients. Hand  
26 enchondromas have good prognosis after surgery, and surgery appears to be effective for fracture prevention.  
27 Time to healing was shorter in our series, as compared to previous reports.