



“Together,  
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# KSES 2026

The 33rd Annual  
International Congress of the  
Korean Shoulder and  
Elbow Society

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- Category : Shoulder
- Detail Category : Instability

## Excellent Clinical and Radiological Mid-term Outcomes of the Arthroscopic “Double-Inlay” Eden-Hybinette Procedure for Bone Defects Exceeding 20%: A 5-Year Case Series.

Aofei Gao<sup>1</sup>, Guoqing Cui<sup>1</sup>

Department of Sports Medicine, Peking University Third Hospital, China<sup>1</sup>

### Introduction and Background

Eden-Hybinette procedure can maximize the restoration of the glenoid defect by harvesting a proper size of iliac bone block. We developed an arthroscopic “double-inlay” Eden-Hybinette procedure to achieve better bone union of the graft. The aim of this study was to evaluate the clinical and radiological mid-term outcomes of the arthroscopic “double-inlay” Eden-Hybinette procedure for bone defects exceeding 20%.

### Material and Method

A retrospective case series was conducted. The inclusion criterion was a bone defect exceeding 20%, especially failed Bristow-Latarjet procedure or recurrent anterior shoulder instability among patients with epilepsy. An arthroscopic “double-inlay” Eden-Hybinette procedure was carried out. Recurrence and apprehension, the clinical scores and rate of return to sports were obtained at final follow-up. Graft position, healing, and resorption were evaluated via computerized tomography scan. Moreover, postoperative complications and the incidence of osteoarthritis were recorded.

### Results

The study cohort included 15 patients, with a mean age of  $34.9 \pm 13.2$  years and a mean follow-up duration of  $5 \pm 1.7$  years. No patients experienced recurrent dislocation, and the VAS pain and instability scores during shoulder range of motion decreased from a mean  $6.5 \pm 2.3$  and  $9.6 \pm 0.9$  preoperatively to  $1.9 \pm 1$  and  $2 \pm 1.7$  at the last follow-up ( $P < .001$ ). The Rowe, ASES, UCLA and SSV scores of the patients increased from  $18.7 \pm 10.6$ ,  $71.8 \pm 5$ ,  $22.9 \pm 3.5$  and  $49.3 \pm 16.2$  preoperatively to  $90.3 \pm 6.2$ ,  $90.1 \pm 4.2$ ,  $30.1 \pm 2.4$  ( $P < .001$ ) and  $81.1 \pm 15.7$  ( $P = .001$ ) postoperatively. At the final follow-up, the bone graft healing rate was 100%, and there was no severe bone resorption.

### Conclusions

The arthroscopic “double-inlay” Eden-Hybinette procedure has demonstrated reliability and efficacy, yielding excellent mid-term clinical and radiological outcomes for bone defects exceeding 20%, particularly in cases of failed Bristow-Latarjet procedures or in patients with epilepsy.



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Figure & Table 1.

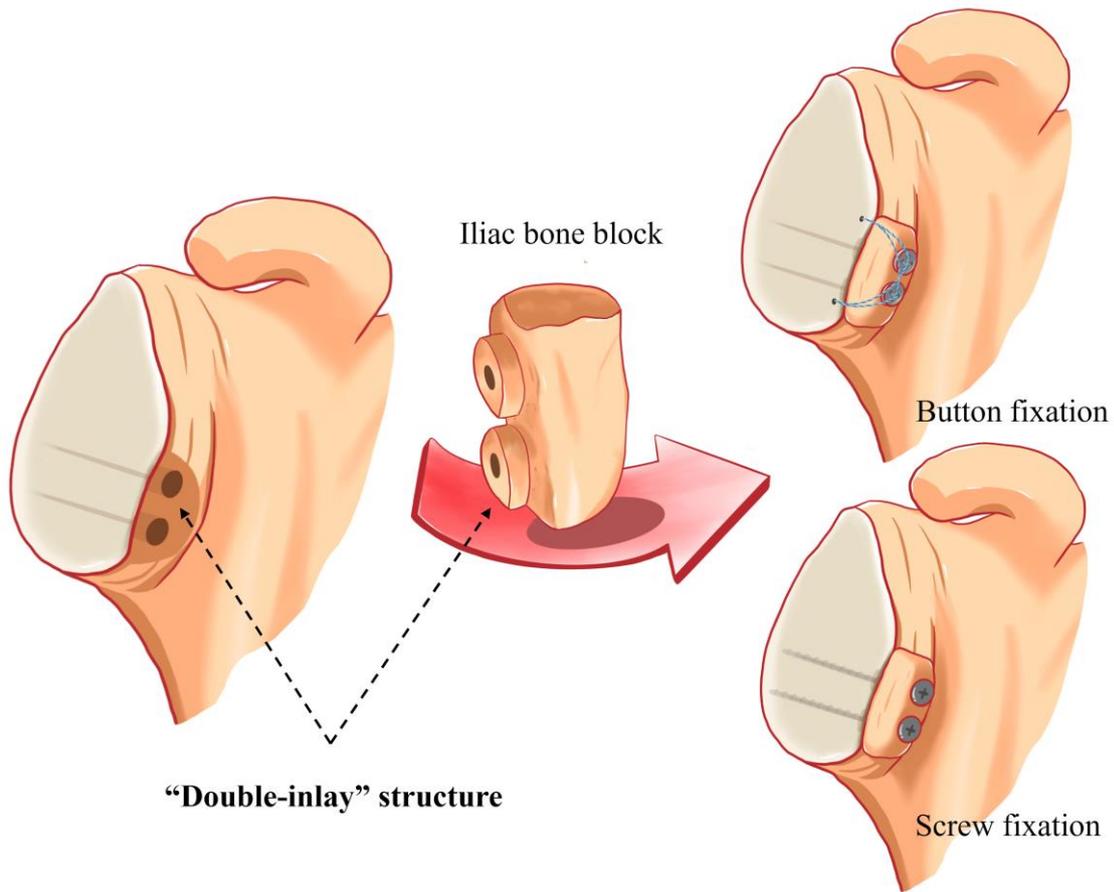


Figure & Table 2.

