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3	
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Fig.1 : Anteroposterior radiograph of the both hip. At the time of initial nonunion state, there are progressive osteolysis of the femoral neck may be seen.

(Fig. 1).

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36 45 40 .

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2 .

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가 (Fig. 2A),

가
(Fig. 2B).

bone impactor
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1998 3 1999 4 (-75)
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(Fig. 2D).

(Fig. 2E).

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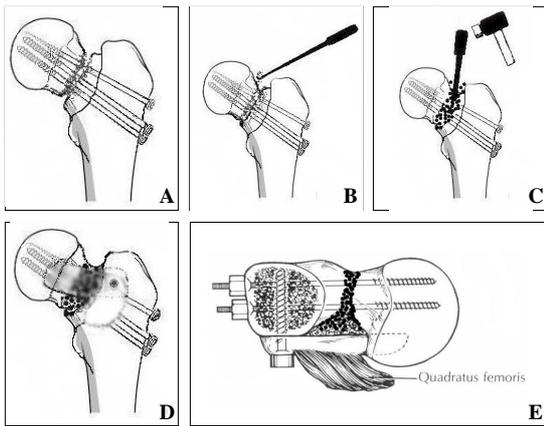


Fig.2A-E : Illustration of the surgical technique of impacted cancellous bone graft and quadratus femoris pedicle bone graft.



Fig.3 : Anteroposterior radiographic of the both hip. At the time of operation, Impacted cancellous allograft & quadratus femoris pedicle bone graft was done.



Fig.4 : Anteroposterior radiographs of the left hip. At the time of 18months follow-up, there is callus formation & complete bone union was seen at nonunion site.

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 3), 36 48 (Fig.
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 (Fig. 4), Lunceford¹⁸⁾ 가
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1 , Askin Bryan²⁾ 15 40
 26), 가 18.7% ,
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 , Richard ²⁴⁾
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 Protzman Burkhalter²²⁾ 20 40
 가 86.4%, 59%

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Impacted Cancellous Allograft and Quadratus Femoris Pedicle Bone Graft of Femoral Neck Fracture Nonunion

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Purpose : The aim of this study was attempted to evaluate the effects of impacted cancellous allograft and quadratus femoris pedicle bone graft in the management of nonunion of femur neck fracture.

Materials and Methods : Between March 1998 and April 1999, 5 patients, rating from 36 to 45 years of age, were treated with impacted cancellous allograft and quadratus femoris pedicle bone graft and all cases were nonunion with displaced transcervical fracture whose primary treatment had been done with closed reduction and multiple pinning. The duration of follow-up was from 36 months to 48 months and the mean follow-up period was 40 months. Clinical evaluation was done according to Lunceford functional results and radiologically bone union was evaluated by 3 monthly X-ray check.

Results : After follow-up from 36 months to 48 months, all cases resulted in the bone union. Four cases, radiologically bone union was progressed during 14 weeks, and the other, obtained at 6 months. All cases, at 18 months, radiologically complete bone union was obtained. Clinical result was above fair results and no one complaints pain and instability.

Conclusion : For patients with nonunion of femoral neck fracture, impacted cancellous allograft and quadratus femoris pedicle bone graft was provide a good result of union.

Key Words : Femoral neck fracture, Nonunion, Impacted cancellous allograft, Quadratus femoris pedicle bone graft

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