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Fig 1. Initial roentgenogram, which shows 20 degrees of varus tilting and atrophic nonunion. The nail is broken at the fracture site and is associated with breakage of distal interlocking screw.



Fig 2. Extraction hook is catching the distal part of the broken nail through distal locking hole.



Fig 1. Postoperative roentgenogram. A long gamma nail was inserted and bony consolidation was obtained. However, varus deformity was not sufficiently corrected.

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(Gross - Kempf femoral nail,
Howmedica)

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(fig.1).

(ball-tip guide)

(extraction hook)

(fig 2).



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(long gamma nail)

18mm

(130 , 360mm, 11mm)

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가 (fig.3).

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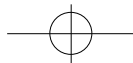
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Abstract

Segmental Breakage of Distal Interlocking Screw Complicating removal of broken nail - A Case Report -

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Metal failure (nail breakage) after locked intramedullary nailing results from delayed union or nonunion, which necessitates removal of nail and interlocking screws. Breakage of interlocking screw(s) can be associated with failure of the intramedullary nail. It usually breaks into two parts. Proximal part, which contains the screw head, can be removed by screwdriver without difficulties. Distal part can be removed from the far cortex or be left in place if it does not hinder further procedures. We experienced a case of segmental breakage of distal interlocking screw, which was associated with failure of the femoral nail and nonunion. Middle part of the broken screw obstructed the hollow of the nail and complicated the removal of the broken nail.

Key word : Breakage, interlocking screw, femur

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