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Dislocation of the Extensor Tendons at the Level of the Metacarpophalangeal Joint

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Purpose: To present our operative experiences in uncommon dislocation of the extensor tendons at the level of metacarpophalangeal joint

Materials and Methods: Eight cases which were followed up for an average 11.6 months (range, 6 to 24 months) were reviewed. The causes were traumatic dislocation in 5 cases, spontaneous dislocation in 2 cases and dislocation in rheumatoid arthritis in 1 case. The location was index finger in 1 case, long finger in 3 cases, ring finger in 1 case, little finger in 3 cases. Six cases were dislocated to ulnar side and 2 cases to radial side.

Result: All cases were operated; repair of intertendinous fascia in 1 case, repair of sagittal band in 2 cases, repair of sagittal band with intertendinous connection transfer in 2 cases, plication procedure in 2 cases and loop procedure in 1 case. Recurrent dislocation was not found except 1 case that did not have enough immobilization.

Conclusion: Good results were made from operative treatment of dislocation of the extensor tendons at the

level of metacarpophalangeal joint.

Key Words: Extensor tendon dislocation, Metacarpopha -langeal joint, Operative treatment

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68, 38.5
(Table 1).

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Table 1. Data of Patients

| No | Sex/Age | Cause | Location | Diretion of dislocation | Treatment | Immobilization (weeks) | Complication |
|----|---------|----------------------|----------|-------------------------|----------------------------------|------------------------|------------------|
| 1 | M/17 | Traumatic | 4th | Ulnar | Repair of SB with JT transfer | 3 | - |
| 2 | M/61 | Unknown | 3rd | Ulnar | Repair of intertendinous fascia | 3 | - |
| 3 | F/23 | Traumatic | 5th | Radial | Plication procedure | 3 | - |
| 4 | F/68 | Rheumatoid arthritis | 5th | Ulnar | Loop procedure | 3 | - |
| 5 | M/27 | Unknown | 3rd | Ulnar | Repair of SB with JT transfer | 1 | +(Redislocation) |
| 6 | M/35 | Traumatic | 2nd | Radial | Plication procedure | 3 | - |
| 7 | M/42 | Traumatic | 3rd | Ulnar | Repair of SB | 3 | - |
| 8 | M/35 | Traumatic | 5th | Ulnar | Repair of SB | 3 | - |

SB, sagittal band; JT, juncturae tendinum





Fig. 1. A. Ruptured intertendinous fascia at the radial side of 3rd extensor tendon was seen (arrow). B. Ruptured intertendinous fascia was repaired.



Fig. 2. Plication was made at the sagittal band of 5th extensor and extensor digiti minimi tendon and repaired with the epitenons



Fig. 3. Loop made from a part at ulnar side of 4th extensor tendon was connected to 5th extensor and extensor digiti minimi tendon

가 1 2 8 , 2 , 2 (epiten -on) (plication procedure) 2 (extensor indicis proprius) 5 (extensor digiti minimi) 5 (loop) 3 7 6 2

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(Fig.1A), 4-0
(Fig. 1B). 3
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2: 23
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(Fig. 2). 6
3: 68 10

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(juncturae tendinum or accessory tendon)

band) (palmar plate)

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1,6,12) (extensor hood) 1,6,15) 가 1,5,6,10) Araki (intertendinous fascia) 가 , Ishizuki⁶⁾ 가 McGuire¹⁾ . Saldana 가 가 Wheeldon⁴⁾ 3 (transverse fiber) , Kettelkamp⁷⁾ 가 가 3 가 1 2 가 가 Koniuch 16) 8 6 Tamura⁵⁾ Inoue 2 6 2 가 가 Ishizuki⁸⁾ Wheeldon f . Kilgore 7)

(pedicle)

, Carroll 2) (pedicle)

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3 4 2.5), 7 (dynamic splint) 9).

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