Bölüm 8

FLEKSÖR TENDON ONARIMI

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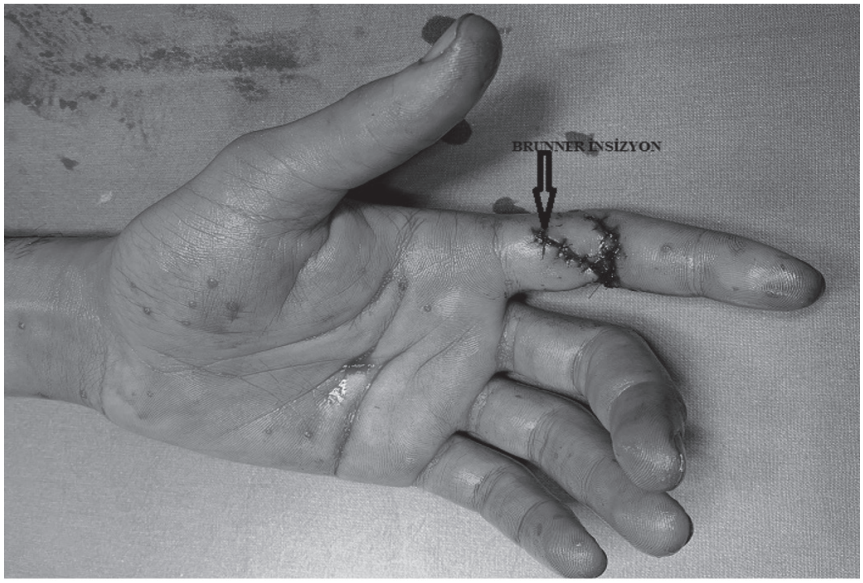
YAKLAŞIM

Fleksör tendona yapılacak tüm girişimler mevcut laserasyonu kullanacak şekilde olmalı ve amaç mevcut cilt fleplerinin beslenmesini korumak olmalıdır. En yaygın olarak kullanılan 2 erişim yöntemi brunner insizyon (Bruner,1967) ve fleksör tendon ve hasarlı diğer yapılara ve parmak fleplerine kan akımını bozmadan yapılan mid-lateral insizyondur (Boyes 1962). (Şekil 1). [1]



Şekil 1. Brunner insizyon:Tendona ulaşmak için mevcut kesinin uzatılması

Geri kaçmış fleksör tendona ulaşmanın birçok yolu vardır. Milking, katater vb. birçok yöntemle mevcut olan tendon yerine getirilebilir (Kleniert, Kutz&Cohen,1975). Tanımlanan birçok yöntemdeki esas amaç tendon ve etraftakli yumuşak dokunun zarar görmesini en aza indirmektir. Tercih ettiğimiz yöntem daha çok pediatrik beslenme kateteridir.

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KAYNAKLAR

Boyes JH.(1962). Incisions in the hand. *Am J Orthop*.4:308–311.

Boyer MI, Taras JS, Kaufman RA.(2005). Flexor tendon injury. In: Green DP, Hotchkiss RN, Pederson WC,et al, editors. Green's operative hand surgery.Philadelphia: Elsevier Churchill Livingstone; p. 219–76.

Bruner JM.(1967).The zig-zag volar-digital incision for flexor-tendon surgery. *Plast Reconstr Surg*. 40:571–574

Cao Y, Zhu B, Xie RG, et al.(2006). Influence of core suture purchase length of strength of four-strand tendon repairs. J Hand Surg Am 31(1):107–12.

Caulfield RH, Maleki-Tabrizi A, Patel H, Coldham F, Mee S, Nanchahal J. (2008).Comparison of zones 1 to 4 flexor tendon repairs using absorbable and unabsorbable four-strand core sutures. *J Hand Surg Eur Vol*. 33:412–417.

Cooper L, Khor W, Burr N, Sivakumar B.(2015).Flexor tendon repairs in children: Outcomes from a specialist tertiary centre.*J Plast Reconstr Aesthet Surg*. 68:717–723.

de Jong JP, Nguyen JT, Sonnema AJ, Nguyen EC, Amadio PC,Moran SL. (2014).The incidence of acute traumatic tendon injuries in the hand and wrist: A 10-year population-based study. *ClinOrthop Surg*. 6:196–202.

de Wit T, Walbeehm ET, Hovius SE, et al.(2013). The mechanical interaction between three geometric types of nylon core suture and a running epitenon suture in repair of porcine flexor tendons. J Hand Surg Eur Vol 38:788–94.

Dy CJ, Daluiski A, Do HT, Hernandez-Soria A, Marx R,Lyman S.(2012). The epidemiology of reoperation after flexor tendon repair. *J Hand Surg Am*. 37:919–924

Foo TL, Mak DS.(2011). Wire loop technique to retrieve flexor tendon.*J Hand Surg Am*. 36:1115.

Gupta A, Gupta AK, Uppal SK, Mittal RK, Garg R, Aggarwal N.(2013). Demographic profile of hand injuries in an industrial town of north India: A review of 436 patients. *Indian J Surg*. 75:454–461.

Jamali AA, Afshar P, Abrams RA, Lieber RL.(2000). Skeletal muscle response to tenotomy. *Muscle Nerve* 23:851–862.

Kessler I. (1973).The "grasping" technique for tendon repair. Hand 5: 253–5.

Kleinert H, Kutz JE, Cohen M. (1975).Primary repair of zone two flexor tendon lacerations. In: *AAOS Symposium on Tendon Surgery in the Hand*. St. Louis: Mosby; 91–104.

Lawrence TM, Davis TR.(2005). A biomechanical analysis of suture materials and their influence on a fourstrand flexor tendon repair. J Hand Surg Am 30(4):836–41.

Lee DH, Robbin ML, Galliott R, et al.(2000).Ultrasound evaluation of flexor tendon lacerations. J HandSurg Am 25(2):236–41.

Lees VC, Warwick D, Gillespie P, et al.(2015). A multicentre, randomized, double-blind trial of the safety and efficacy of mannose- 6-phosphate in patients having zone II flexor tendon repairs. *J Hand Surg Eur Vol*. 40:682–694.

Moriya K, Yoshizu T, Maki Y, Tsubokawa N, Narisawa H,Endo N. (2015).Clinical outcomes of early active mobilization following flexor tendon repair using the six-strand technique:Short- and long-term evaluations. *J Hand Surg Eur Vol*.40:250–258.

Navali AM, Rouhani A. (2008).Zone 2 flexor tendon repair in young children: A comparative study of four-strand versus twostrand repair. *J Hand Surg Eur Vol*. 33:424–429.

Sanders DW, Milne AD, Johnson JA, et al.(2001).The effect of flexor tendon repair bulk on tendon gliding during simulated active motion: an in vitro comparison of two-strand and six-strand techniques.J Hand Surg Am 26(5):833–40.

Starnes T, Saunders RJ, Means KR Jr.(2012). Clinical outcomes of zone II flexor tendon repair depending on mechanism of injury. *J Hand Surg Am*. 37: 2532–2540.

Savage R. (1985).In vitro studies of a new method of flexor tendon repair. J Hand Surg Br 10(2):135–41.

Sebastin SJ, Ho A, Karjalainen T, et al.(2013). History and evolution of the Kessler repair. J Hand Surg 38A:552–61.

Starr HM, Snoddy M, Hammond KE, Seiler JG III.(2013). Flexor tendon repair rehabilitation protocols: A systematic review. *J Hand Surg Am*. 38: 1712–7.e1.

Tang JB.(2009). Re: Levels of experience of surgeons in clinical studies. *J Hand Surg Eur Vol*. 34: 137–138

Tang JB, Chang J, Elliot D, et al.(2014). IFSSH Flexor Tendon Committee Report 2014: from the IFSSH Flexor Tendon Committee (Chairman: Jin Bo Tang). J Hand Surg Eur Vol 39:107–15.

Titley OG.(1996).A modification of the catheter method for retrieval of divided flexor tendons. *J Hand Surg Br*. 21: 391–392

Vögelin E, Elliot D, Amadio P. 2015.IFSSH Scientific Committee on Flexor Tendon Repair.

Walbeehm ET, de Wit T, Hovius SE, et al.(2009). Influence of core suture geometry on tendon deformation and gap formation in porcine flexor tendons. J Hand Surg Eur Vol 34E(2):190–5.

Wiig ME, Dahlin LB, Fridén J, et al. (2014).PXL01 in sodium hyaluronate for improvement of hand recovery after flexor tendon repair surgery: Randomized controlled trial. *PLoS One* 9:e110735.

Winters SC, Gelberman RH, Woo SL, et al.(1998). The effects of multiple-strand suture methods on the strength and excursion of repaired intrasynovial flexor tendons: a biomechanical study in dogs.J Hand Surg Am 23(1):97–104

Wong JK, Peck F.(2014). Improving results of flexor tendon repair and rehabilitation. *Plast Reconstr Surg*.134:913e–925e.

Wu YF, Tang JB.(0214). Recent developments in flexor tendon repair techniques and factors influencing strength of the tendon repair. J Hand Surg Eur Vol 39:6–19.

Wu YF, Tang JB.(2014). Recent developments in flexor tendon repair techniques and factors influencing strength of the tendon repair. J Hand Surg Eur Vol 39:6–19.