

Literatur zum Artikel

Rekonstruktion von Skaphoidpseudarthrosen mit knöchernem Defekt durch winkelstabile Plattenosteosynthesen

1. Garala K, Taub NA, Dias JJ (2016) The epidemiology of fractures of the scaphoid: impact of age, gender, deprivation and seasonality. *Bone Joint J* 98-B: 654–659
2. Kang L (2015) Operative treatment of acute scaphoid fractures. *Hand Surg* 20: 210–214
3. Reigstad O, Grimsgaard C, Thorkildsen R, Reigstad A, Røkkum M (2012) Scaphoid nonunions, where do they come from? The epidemiology and initial presentation of 270 scaphoid non-unions. *Hand Surg* 17: 331–335
4. Heidsieck DS, Ten Berg PW, Schep NW, Strackee SD (2015) Factors associated with patient delay in scaphoid nonunions. *J Hand Microsurg* 7: 300–305
5. Schuind F, Mougondo F, El Kazzi W (2016) Prognostic factors in the treatment of carpal scaphoid non-unions. *Eur J Orthop Surg Traumatol* 27: 3–9
6. Pinder RM, Brkljac M, Rix L, Muir L, Brewster M (2015) Treatment of scaphoid nonunion: a systematic review of the existing evidence. *J Hand Surg Am* 40: 1797–1805
7. Mani KCK, Acharya P (2018) Scaphoid nonunion: does open reduction, bone grafting and Herbert screw fixation justify the treatment? *Int Orthop* 42: 1099–1106
8. Matic S, Vučković Č, Lešić A, et al (2021) Pedicled vascularized bone grafts compared with xenografts in the treatment of scaphoid nonunion. *Int Orthop* 45: 1017–1023
9. Hsiung W, Huang HK, Wang JP, et al (2021) Arthroscopic realignment and osteosynthesis of unstable scaphoid nonunion with cancellous bone graft from the ipsilateral radius. *Int Orthop* 45: 191–197
10. Putnam JG, Mitchell SM, DiGiovanni RM, et al (2020) Outcomes of unstable scaphoid nonunion with segmental defect treated with plate fixation and autogenous cancellous graft. *J Hand Surg Am* 44: 160.e1-160.e7
11. Dodds SD, Patterson JT, Halim A (2014) Volar plate fixation of recalcitrant scaphoid nonunions with volar carpal artery vascularized bone graft. *Tech Hand Up Extrem Surg* 18: 2–7
12. Leixnering M, Pezzeri C, Weninger P, et al (2020) First experiences with a new adjustable plate for osteosynthesis of scaphoid nonunions. *J Trauma* 71: 933–938
13. Ghoneim A (2010) The unstable nonunited scaphoid waist fracture: results of treatment by open reduction, anterior wedge grafting, and internal fixation by volar buttress plate. *J Hand Surg Am* 36: 17–24
14. Schormans PMJ, Kooijman MA, Ten Bosch JA, et al (2020) Mid-term outcome of volar plate fixation for scaphoid nonunion. *Bone Joint J* 102-B: 1697–1702
15. Schormans PMJ, Brink PRG, Poeze M, Hannemann PFW (2018) Angular stable miniplate fixation of chronic unstable scaphoid nonunion. *J Wrist Surg* 7: 24–30
16. Merrell GA, Wolfe SW, Slade JF 3rd (2002). Treatment of scaphoid nonunions: quantitative meta-analysis of the literature. *J Hand Surg Am* 27: 685–691
17. Dodds SD, Halim A (2016) Scaphoid plate fixation and volar carpal artery vascularized bone graft for recalcitrant scaphoid nonunions. *J Hand Surg Am* 41: e191–198
18. Stark HH, Rickard TA, Zemel NP, Ashworth CR (1988) Treatment of ununited fractures of the scaphoid by iliac bone grafts and Kirschner-wire fixation. *J Bone Joint Surg Am* 70: 982–991
19. Mandaleson A, Tham SK, Lewis C, et al (2018) Scaphoid fracture fixation in a nonunion model: a biomechanical study comparing 3 types of fixation. *J Hand Surg Am* 43: 221–228
20. Günal I, Özçelik A, Göktürk E, Ada S, Demirtaş M (1999) Correlation of magnetic resonance imaging and intraoperative punctate bleeding to assess the vascularity of scaphoid nonunion. *Arch Orthop Trauma Surg* 119: 285–287
21. Gummesson C, Ward MM, Atroshi I (2006) The shortened disabilities of the arm, shoulder and hand questionnaire (QuickDASH): validity and reliability based on responses within the full-length DASH. *BMC Musculoskelet Disord* 18: 44
22. Larsen CF, Stigsby B, Lindequist S, et al (1991) Observer variability in measurements of carpal bone angles on lateral wrist radiographs. *J Hand Surg Am* 16: 893–898
23. Bickert B (2018) Ruptur des skapholunären Interkarpalbands. *Unfallchirurg* 121: 351–357
24. Zaidenberg C., Siebert JW, Angrigiani C (1991) A new vascularized bone graft for scaphoid nonunion. *J Hand Surg Am* 16: 474–478
25. Acar B, et al (2018) Comparison of volar versus dorsal screw fixation for scaphoid waist fractures: a finite element analysis. *Orthop Traumatol Surg Res* 104: 1107–1113