



What is the best choice for displaced femoral neck fractures in the elderly? Internal fixation or total/hemiarthroplasty

Yaşlılarda deplase femur boyun kırıklarında en iyi seçenek:
Internal tespit mi total/hemiartroplasti mi?

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A meta-analysis of randomized controlled clinical trials, and a randomized long-term follow-up study for displaced femoral neck fractures in the elderly, total hip replacement provided better hip function and significantly fewer reoperations compared with internal fixation without increasing mortality.^[1,2]

Another systematic review of the literature including randomized controlled trials comparing all types of total hip arthroplasty to hemiarthroplasty showed that total hip arthroplasty for displaced femoral neck fractures in the fit elderly might lead to higher patient-based outcomes; however, with a higher dislocation rate compared to hemiarthroplasty.^[3]

Two recent meta-analyses of randomized controlled trials were conducted to establish whether total hip arthroplasty was associated with a lower rate of reoperations, mortality, complications, and better function compared to hemiarthroplasty. These meta-analyses showed that patients with displaced femoral neck fractures might benefit from total hip arthroplasty with a lower reoperation rate and higher functional scores. However hemiarthroplasty yielded a lower incidence of postoperative dislocation.^[4,5]

The author's choice is the same; total hip arthroplasty is a valuable treatment option for healthy elderly with

hip fracture. However, patients who are disabled or institutionalized may benefit from hemiarthroplasty.^[6]

REFERENCES

1. Gao H, Liu Z, Xing D, Gong M. Which is the best alternative for displaced femoral neck fractures in the elderly?: A meta-analysis. *Clin Orthop Relat Res* 2012;470:1782-91.
2. Chammout GK, Mukka SS, Carlsson T, Neander GF, Helge Stark AW, Sköldenberg OG. Total Hip Replacement Versus Open Reduction and Internal Fixation of Displaced Femoral Neck Fractures: A Randomized Long-Term Follow-up Study. *J Bone Joint Surg [Am]* 2012 Sep 26. doi: 10.2106/JBJS.K.01615. [Epub ahead of print]
3. Burgers PT, Van Geene AR, Van den Bekerom MP, Van Lieshout EM, Blom B, Aleem IS, et al. Total hip arthroplasty versus hemiarthroplasty for displaced femoral neck fractures in the healthy elderly: a meta-analysis and systematic review of randomized trials. *Int Orthop* 2012;36:1549-60.
4. Zi-Sheng A, You-Shui G, Zhi-Zhen J, Ting Y, Chang-Qing Z. Hemiarthroplasty vs primary total hip arthroplasty for displaced fractures of the femoral neck in the elderly: a meta-analysis. *J Arthroplasty* 2012;27:583-90.
5. Yu L, Wang Y, Chen J. Total hip arthroplasty versus hemiarthroplasty for displaced femoral neck fractures: meta-analysis of randomized trials. *Clin Orthop Relat Res* 2012;470:2235-43.
6. Hersekli M, Atik OS. Arthroplasty alternatives for displaced femoral neck fractures in the elderly. *Eklem Hastalık Cerrahisi* 1999;10:123-8.