

Long-term study shows positive clinical outcomes for patients following arthroscopic Bristow-Latarjet procedure with Double ENDOBUTTON[®] Fixation Device

Descamps J, Greco V, Chelli M, Boileau P. The arthroscopically guided Bristow-Latarjet procedure with cortical button fixation: a minimum 10-year follow-up. *Am J Sports Med.* 2024;52(11):2815–2825.

To read the full publication go to: https://journals.sagepub.com/doi/10.1177/03635465241263590?url_ver=Z39.88-2003&rfr%20id=ori:rid:crossref.org&rfr_dat=cr_pub%20%20pubmed

Key points

At 10-years following arthroscopic Bristow-Latarjet using Double ENDOBUTTON Fixation Device:



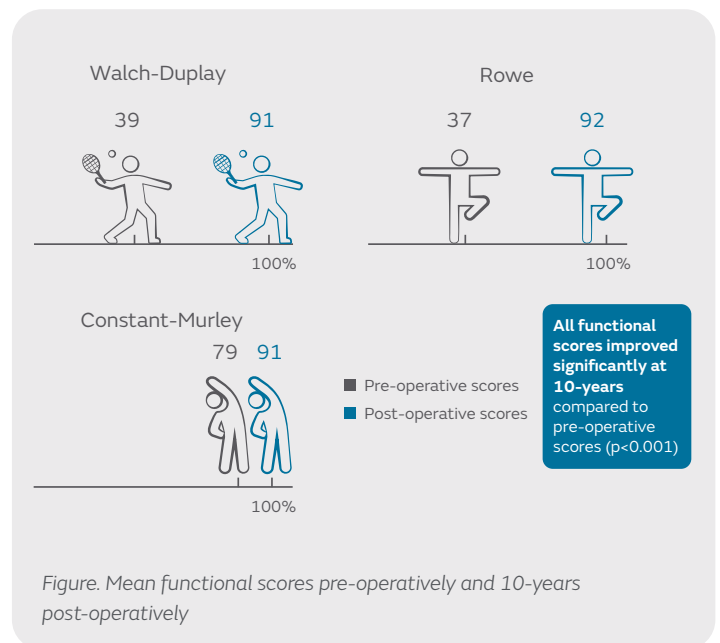
Overview

- Single surgeon, retrospective study of patients undergoing guided arthroscopic Bristow-Latarjet procedure with Double ENDOBUTTON Fixation Device for recurrent anterior instability
 - 65 patients (68 shoulders); mean age at surgery 25 years (range, 13–43 years), mean follow-up 135 months
- Primary outcome was recurrence of instability, defined as dislocation or subluxation
- Secondary outcomes included:
 - Bone block positioning and healing (CT scan)
 - Return to sport
 - Subjective Shoulder Value for sport (SSV-Sport) and activities of daily living (SSV-ADL)
 - Functional outcomes (Walch-Duplay, Rowe and Constant-Murley shoulder scores)
 - Range of motion (ROM)
 - Complications and re-operations

Results

At 10-years post-operatively, following arthroscopic Bristow-Latarjet procedure with Double ENDOBUTTON Fixation Device:

- 94% of shoulders had no recurrence of instability
 - Four patients (6%) underwent a reoperation for traumatic reinjury
- 81% (55/68) of bone grafts healed to the scapular neck on CT scan
- Functional outcomes improved significantly, compared to pre-operative scores (all $p < 0.001$; Figure)
 - No significant restriction in ROM was recorded
- Majority of patients (94%; 61/65) returned to sport
 - 68% returned to the same or higher-level sport, 26% changed sports and 6% stopped practicing
 - SSV-Sport and SSV-ADL increased significantly at 10-years post-operatively (both $p < 0.001$)
- Majority of shoulders (77%; 47/61) showed no development or progression of glenohumeral osteoarthritis (OA)
 - Participation of sports at a competitive level or a previous failed Bankart repair were identified as risk factors for OA
- No intra-operative or coracoid fractures, hardware failures or neurological complications were observed
 - One patient had a reoperation for removal of a failed anchor



Conclusions

Arthroscopic Bristow-Latarjet procedure with the Double ENDOBUTTON Fixation Device demonstrated favourable outcomes and no recurrence of instability for the majority of patients at 10-year follow-up. At final follow-up most patients demonstrated significantly improved functional outcomes, high return to sport, no significant restriction in motion and little to no development or progression of osteoarthritis.

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