Evidence in focus

Publication summary

Byrd JWT, et al. *Arthroscopy* (2018)*

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Q-FIX◇ 1.8mm all-suture anchor demonstrates very low incidence of pullout

The anchor was reported to be exceptionally reliable for acetabular labrum repair

Study design

- Single-surgeon retrospective case series evaluating the incidence of intraoperative failure of Q-FIX 1.8mm over an 18-month period in 434 patients (mean age, 34.2 years; 41.5% male)
- A total of 2,007 anchors were used; average per case of 4.6
- Failures defined as any wasted anchor at time of procedure and reported at 3-month intervals

Key results

- Pullout was observed in 33 anchors (1.6%)
- There was no statistical difference in average age (p=0.85) or male-to-female ratio (p=0.578) between those cases with and without pullout
- Pullouts were evenly distributed over 3-month intervals (4, 4, 6, 6, 5, 8), indicating that early experience did not lead to a greater incidence of failures
- Pullout was almost exclusively associated with failure to securely imbed the anchor in bone, with an estimated pullout of just three (0.15%) properly seated implants

Conclusion

The Q-FIX 1.8mm is exceptionally reliable. No difference was seen in the patient demographics between those cases with or without pullout, and there was no demonstrable learning curve in employing the implant.

Considerations

- This is the first in vivo report on the failure properties of an all-suture anchor used specifically for acetabular labrum repair

Study citation

*Byrd JWT, Jones KS, Loring CL, Sparks SL. Acetabular All-Suture Anchor for Labral Repair: Incidence of Intraoperative Failure due to Pullout. *Arthroscopy*. 2018 Jan 17. [Epub ahead of print].

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