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Functional Outcomes Following Direct Anterior Approach to Hip Resurfacing Arthroplasty

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Faculty Disclosure Information

- Nothing to disclose



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Introduction

- The Direct Anterior Approach (DAA) for hip arthroplasty is gaining attention for its muscle-sparing potential.
- Surgical technique: Minimally invasive approach via DAA. Preservation of key muscle groups and capsular integrity. Implantation strategy and post-op rehabilitation protocol
- Challenges: Technical complexity and a steep learning curve
- Research Gap: Limited literature on hip resurfacing with DAA.



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Objectives

- Assess feasibility and functional outcomes of hip resurfacing via DAA.
- Compare patient-reported outcomes with total hip arthroplasty (THA) using DAA.



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Methods

- **Retrospective** analysis of first 8 DAA hip resurfacing cases.
- Primary outcome: Forgotten Joint Score-12* (FJS-12) & comparison with published DAA THA data.
- Secondary outcomes- Any post-operative complications, length of hospital stay, operative time, and blood loss.

* Assesses patients' perception of joint awareness



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Results

- 8 male patients, median age 58 (IQR: 47–60)
- BMI: 26.9 (SD = 2.8)
- Charlson Comorbidity Index: 1.5 (SD = 0.9)
- Median follow-up: 17 months (IQR = 10–20)

- Anesthesia: 4 general, 4 spinal

Operative time: 1 hr 8 min

Blood loss: 118 ml (avg)





Functional outcomes

- FJS-12 Score: 67.3/100 (SE = 14.4).
- Comparable to DAA THA (67.5/100, SE = 1.1).



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Complications

- 1 periprosthetic base of neck fracture → Revised to total hip arthroplasty.
- No dislocations or deep infections.
- No implant failures at follow-up.



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Discussion

- Feasibility: DAA hip resurfacing achieves comparable results to DAA THA.
- Advantages: Muscle preservation, lower soft-tissue trauma, similar patient satisfaction.
- Challenges: Learning curve and risk of periprosthetic fracture.



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Conclusions

- DAA hip resurfacing is a viable option with functional outcomes comparable to DAA THA.
- Further research needed for long-term outcomes and implant survivorship.



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